

JPMORGAN CHASE & CO

Form 10-Q

November 01, 2017

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 September 30, 2017
Commission file number 1-5805

JPMorgan Chase & Co.

(Exact name of registrant as specified in its charter)

Delaware 13-2624428

(State or other jurisdiction of (I.R.S. employer
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 reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

☒ Yes ☐ No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

☒ Yes ☐ No

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

Large accelerated filer ☒ Accelerated filer ☐

Non-accelerated filer (Do not check if a smaller reporting company) ☐ Smaller reporting company ☐

Emerging growth company ☐

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

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

☐ Yes ☒ No

Number of shares of common stock outstanding as of September 30, 2017: 3,469,725,577

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JPMorgan Chase & Co.
Consolidated financial highlights
(unaudited)

Nine months ended
Sept. 30,

As
of
or
for
the
period
ended,
(in
millions,
except
per
share,
ratio,
headcount
data
and
where
otherwise
noted)

Selected
income
statement
data

Total

\$25,326

revenue

Total

\$14,118

interest

expense

Pre-provision

profit

Provision

for

credit

losses

Income

before

tax

expense

Income

after

expense

Net

income

2Q17

1Q17

4Q16

3Q16

2017

2016

\$25,470

\$24,675

\$23,376

\$24,673

\$75,471

\$72,292

14,506

15,019

13,833

14,463

43,843

41,938

10,964

9,656

9,543

10,210

31,628

30,354

1,215

1,315

864

1,271

3,982

4,497

9,749

8,341

8,679

8,939

27,646

25,857

2,720

1,893

1,952

2,653

7,437

7,851

\$7,029

\$6,448

\$6,727

\$6,286

\$20,209

\$18,006

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Earnings per share data							
Net income:	\$1.77	\$1.83	\$1.66	\$1.73	\$1.60	\$5.26	\$4.51
Diluted	1.82	1.65	1.71	1.58	5.22	4.48	
Average shares	3,574.1	3,601.7	3,611.3	3,637.7	3,570.9	3,674.6	
Basic	3,599.0	3,630.4	3,646.6	3,669.8	3,597.0	3,704.5	
Market and per common share data							
Market capitalization	331,393	321,633	312,078	307,295	238,277	331,393	238,277
Common shares at	3,469.7	3,519.0	3,552.8	3,561.2	3,578.3	3,469.7	3,578.3
period-end Share price: ^(a)							
1995	\$95.88	\$92.65	\$93.98	\$87.39	\$67.90	\$95.88	\$67.90
1996	88.08	81.64	83.03	66.10	58.76	81.64	52.50
1997	95.51	91.40	87.84	86.29	66.59	95.51	66.59
Book value per share	66.95	66.05	64.68	64.06	63.79	66.95	63.79
Tangible book value per share	54.03	53.29	52.04	51.44	51.23	54.03	51.23
(“TBVPS”)							
Cash dividends declared per share	0.50	0.50	0.48	0.48	1.56	1.40	
Selected ratios and metrics							
Return on common equity	% 12	% 11	% 11	% 10	% 11	% 10	%

Return on tangible common equity	14	13	14	13	14	13
Return on assets	1.10	1.03	1.06	1.01	1.06	0.99
Overhead ratio	57	61	59	59	58	58
Loans-to-deposits ratio	63	63	65	65	63	65
High quality liquid assets	\$541	\$528	\$524	\$539	NA	\$539
(“HQLA”) (in billions) ^(c)						
Liquidity coverage ratio	115%	NA%	NA%	NA%	NA%	NA%
(“LCR”) (average)						
Common equity Tier 1 capital ratio ^(d)	12.6	12.5	12.4	12.0	12.6	12.0
Tier 1 capital ratio ^(d)	14.3	14.3	14.1	13.6	14.3	13.6
Total capital ratio ^(d)	16.0	15.6	15.5	15.1	16.1	15.1
Tier 1 leverage ratio ^(d)	8.5	8.4	8.4	8.5	8.4	8.5
Selected balance sheet data (period-end)						
Trading assets	\$420,418	\$402,513	\$372,130	\$374,837	\$420,418	\$374,837

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Subsidiaries	263,458	281,850	289,059	272,401	263,288	272,401	
Bank	908,767	895,974	894,765	888,054	913,761	888,054	
Core loans	843,432	812,119	806,152	795,077	843,432	795,077	
Average							
Core	824,583	805,382	799,698	779,383	822,611	759,207	
loans							
Total assets	2,563,074	2,546,290	2,490,972	2,521,029	2,563,074	2,521,029	
Deposits	1,439,473	1,422,999	1,375,179	1,376,138	1,439,027	1,376,138	
Long-term debt ^(e)	292,973	289,492	295,245	309,418	288,582	309,418	
Common stock held	232,415	229,795	228,122	228,263	232,314	228,263	
equity							
Total	258,382	255,863	254,190	254,331	258,382	254,331	
equity							
Provision	249,257	246,345	243,355	242,315	251,503	242,315	
Credit quality metrics							
Allowance for credit losses	\$14,648	\$14,490	\$14,854	\$15,304	\$14,648	\$15,304	
Allowance for loan losses							
to total retained loans	1.49	1.52	1.55	1.61	1.49	1.61	%
Allowance for loan losses to retained loans excluding purchased credit-impaired loans ^(f)	1.28	1.31	1.34	1.37	1.29	1.37	
Nonperforming assets	\$6,432	\$6,826	\$7,535	\$7,779	\$6,154	\$7,779	
Net charge-offs ^(g)	1,204	1,654	1,280	1,121	4,123	3,412	
to net charge-off	0.54	0.76	0.58	0.51	0.62	0.53	%

rate^(g)

(a) Share prices are from the New York Stock Exchange.

TBVPS and ROTCE are non-GAAP financial measures. For further discussion of these measures, see Explanation

(b) and Reconciliation of the Firm's Use of Non-GAAP Financial Measures and Key Financial Performance Measures on pages 15–17.

HQLA represents the amount of assets that qualify for inclusion in the LCR. The amounts represent quarterly

(c) average balances for September 30, 2017 and June 30, 2017, and period-end balances for the remaining periods.

For additional information, see HQLA on page 68.

Ratios presented are calculated under the Basel III Transitional capital rules and for the capital ratios represent the

(d) lower of the Standardized or Advanced approach as required by the Collins Amendment of the Dodd-Frank Act (the "Collins Floor"). See Capital Risk Management on pages 42–48 for additional information on Basel III and the Collins Floor.

Included unsecured long-term debt of \$221.7 billion, \$221.0 billion, \$212.0 billion, \$212.6 billion and \$226.8

(e) billion at September 30, 2017, June 30, 2017, March 31, 2017, December 31, 2016 and September 30, 2016 respectively.

Excluded the impact of residential real estate purchased credit-impaired ("PCI") loans, a non-GAAP financial

(f) measure. For further discussion of these measures, see Explanation and Reconciliation of the Firm's Use of Non-GAAP Financial Measures and Key Performance Measures on pages 15–17. For further discussion, see Allowance for credit losses on pages 64–66.

Excluding net charge-offs of \$467 million related to the student loan portfolio transfer, the net charge-off rates for (g) the three months ended March 31, 2017 and nine months ended September 30, 2017 would have been 0.54% and 0.55%, respectively.

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 third quarter of 2017.

This Form 10-Q should be read in conjunction with JPMorgan Chase's Annual Report on Form 10-K for the year ended December 31, 2016, filed with the U.S. Securities and Exchange Commission ("2016 Annual Report" or 2016 "Form 10-K"), to which reference is hereby made. See the Glossary of terms and acronyms on pages 168–175 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 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, see Forward-looking Statements on page 82 of this Form 10-Q and Part I, Item 1A, Risk Factors, on pages 8–21 of JPMorgan Chase's 2016 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 \$258.4 billion in stockholders' equity as of September 30, 2017. 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 credit card-issuing bank. JPMorgan Chase's principal nonbank subsidiary is J.P. Morgan Securities LLC ("JPMorgan Securities"), the Firm's U.S. investment banking firm. The bank and nonbank subsidiaries of JPMorgan Chase operate nationally as well as through overseas branches and subsidiaries, representative offices and subsidiary foreign banks. 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 is the Consumer & Community Banking ("CCB") segment. 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 33 of JPMorgan Chase's 2016 Annual Report.

EXECUTIVE
OVERVIEW

This executive overview of the MD&A highlights selected information and does 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 lines of business, this Form 10-Q and incorporated documents should be read in their entirety.

Financial performance of JPMorgan Chase

(unaudited)	Three months ended September 30,			Nine months ended September 30,		
As of or for the period ended, (in millions, except per share data and ratios)	2017	2016	Change	2017	2016	Change
Selected income statement data						
Total net revenue	\$25,326	\$24,673	3 %	\$75,471	\$72,292	4 %
Total noninterest expense	14,318	14,463	(1)	43,843	41,938	5
Pre-provision profit	11,008	10,210	8	31,628	30,354	4
Provision for credit losses	1,452	1,271	14	3,982	4,497	(11)
Net income	6,732	6,286	7	20,209	18,006	12
Diluted earnings per share	\$1.76	\$1.58	11	\$5.22	\$4.48	17
Selected ratios and metrics						
Return on common equity	11 %	10 %		11 %	10 %	
Return on tangible common equity	13	13		14	13	
Book value per share	\$66.95	\$63.79	5	\$66.95	\$63.79	5
Tangible book value per share	54.03	51.23	5	54.03	51.23	5
Capital ratios ^(a)						
CET1	12.6 %	12.0 %		12.6 %	12.0 %	
Tier 1 capital	14.3	13.6		14.3	13.6	
Total capital	16.1	15.1		16.1	15.1	

Ratios presented are calculated under the Basel III Transitional capital rules and represent the Collins Floor. See (a) Capital Risk Management on pages 42–48 for additional information on Basel III.

Comparisons noted in the sections below are calculated for the third quarter of 2017 versus the prior-year third quarter, unless otherwise specified.

Firmwide overview

JPMorgan Chase reported strong results in the third quarter of 2017 with net income of \$6.7 billion, or \$1.76 per share, on net revenue of \$25.3 billion. The Firm reported ROE of 11% and ROTCE of 13%.

Net income increased 7%, reflecting higher net revenue, partially offset by a higher provision for credit losses.

Total net revenue increased 3%. Net interest income was \$12.8 billion, up 10%, primarily driven by the net impact of higher interest rates and loan growth, partially offset by declines in Markets net interest income. Noninterest revenue was \$12.5 billion, down 4%, driven by lower Markets revenue in the CIB.

Noninterest expense was \$14.3 billion, down 1%. The prior year included two items in Consumer & Community Banking totaling \$175 million related to liabilities from a merchant in bankruptcy and mortgage servicing reserves. The provision for credit losses was \$1.5 billion, an increase from \$1.3 billion in the prior year. The increase reflected a net addition to the allowance for credit losses in the Consumer portfolio of \$303 million, driven by Card, and higher net charge-offs of \$148 million (including \$63 million of incremental charge-offs recorded in accordance with regulatory guidance), partially offset by a net reduction to the allowance for credit losses in the

Wholesale portfolio of \$116 million, primarily driven by Oil & Gas and Real Estate.

The total allowance for credit losses was \$14.6 billion at September 30, 2017, and the Firm had a loan loss coverage ratio, excluding the PCI portfolio, of 1.29%, compared with 1.37% in the prior year. The Firm's nonperforming assets totaled \$6.2 billion at September 30, 2017, a decrease from \$7.8 billion in the prior year.

Firmwide average core loans increased 7%.

Selected capital-related metrics

• The Firm's Basel III Fully Phased-In CET1 capital was \$187 billion, and the Standardized and Advanced CET1 ratios were 12.5% and 12.9%, respectively.

• The Fully Phased-In supplementary leverage ratio ("SLR") was 6.6% for the Firm.

• The Firm continued to grow tangible book value per share ("TBVPS"), ending the third quarter of 2017 at \$54.03, up 5%.

ROTCE and TBVPS are considered non-GAAP financial measures. Core loans and each of the Fully Phased-In capital and leverage measures are considered key performance measures. For a further discussion of each of these measures, see 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 42–48.

Lines of business highlights

Selected business metrics for each of the Firm's four lines of business are presented below for the third quarter of 2017.

	•
CCB	Average core loans up 8%; average deposits of \$646 billion, up 9%
ROE	•
19%	29.3 million active mobile customers, up 12%
	•
	Credit card sales volume and merchant processing volume each up 13%
CIB	•
ROE	Maintained #1 ranking for Global Investment Banking fees with 8.2% wallet share YTD
13%	•
	Banking revenue up 5%; Markets revenue down 21%
CB	•
ROE	Record revenue of \$2.1 billion, up 15%; net income of \$881 million, up 13%
17%	•
	Average loan balances of \$200 billion, up 10%
	•
	Record net income of \$674 million, up 21%; revenue of \$3.2 billion, up 6%
AWM	•
ROE	Average loan balances of \$125 billion, up 10%
29%	•
	Record assets under management ("AUM") of \$1.9 trillion, up 10%; 81% of mutual fund AUM ranked in the 1 st or 2 nd quartile over 5 years

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 \$1.7 trillion for wholesale and consumer clients during the first nine months of 2017:

\$197 billion of credit for consumers

\$17 billion of credit for U.S. small businesses

\$601 billion of credit for corporations

\$820 billion of capital raised for corporate clients and non-U.S. government entities

\$65 billion of credit and capital raised for U.S. government and nonprofit entities, including states, municipalities, hospitals and universities.

Recent events

During the second half of 2017, natural disasters caused significant disruptions to individuals and businesses, and damage to homes and communities in several regions where the Firm conducts business. The Firm continues to provide assistance to customers, clients, communities and employees who have been affected by these disasters. These events did not have a material impact on the Firm's third quarter 2017 financial results.

2017 outlook

These current expectations are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Such forward-looking statements are based on

the current beliefs and expectations of JPMorgan Chase's management and are subject to significant risks and uncertainties. These risks and uncertainties could cause the Firm's actual results to differ materially from those set forth in such forward-looking statements. See Forward-Looking Statements on page 82 of this Form 10-Q and Risk Factors on pages 8–21 of JPMorgan Chase's 2016 Annual Report. There is no assurance that actual results for the full year of 2017 will be in line with the outlook set forth below, and the Firm does not undertake to update any forward-looking statements to reflect the impact of circumstances or events that arise after the date hereof.

JPMorgan Chase's outlook for the remainder of 2017 should be viewed against the backdrop of the global and U.S. economies, financial markets activity, the geopolitical environment, the competitive environment, client activity levels, and regulatory and legislative developments in the U.S. and other countries where the Firm does business. Each of these interrelated factors will affect the performance of the Firm and its lines of business. The Firm expects it will continue to make appropriate adjustments to its businesses and operations in response to ongoing developments in the legal, regulatory, business and economic environments in which it operates.

Firmwide

- Management expects 2017 net interest income to increase by approximately \$4 billion compared with the prior year, depending on market conditions.

The Firm continues to take a disciplined approach to managing its expenses, while investing in growth and innovation. As a result, Firmwide adjusted expense in 2017 is expected to be approximately \$58 billion (excluding Firmwide legal expense).

- The Firm continues to experience charge-off rates at or near historically low levels, reflecting favorable credit conditions across the consumer and wholesale portfolios. Management expects total net charge-offs of approximately \$5 billion in 2017, excluding net charge-offs of \$467 million related to the write-down of the student loan portfolio in the first quarter of 2017.

Management expects average core loan growth of approximately 8% in 2017.

CCB

Management expects Card, Commerce Solutions & Auto ("CCSA") revenue for the fourth quarter of 2017 to be approximately flat compared to the third quarter of 2017.

In Card, management expects the portfolio average net charge-off rate in 2017 to remain below 3% for the year, reflecting continued loan growth and the seasoning of newer vintages, with quarterly net charge-off rates reflecting normal seasonal trends.

CIB

Management expects Markets revenue in the fourth quarter of 2017 to be lower compared to a strong prior-year period.

CB

Management expects expense in the fourth quarter of 2017 to be approximately flat compared to the third quarter of 2017.

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 nine months ended September 30, 2017 and 2016, 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, see pages 78–79 of this Form 10-Q and pages 132–134 of JPMorgan Chase's 2016 Annual Report.

Revenue

(in millions)	Three months ended September 30,			Nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Investment banking fees	\$1,843	\$1,866	(1)%	\$5,470	\$4,843	13 %
Principal transactions	2,721	3,451	(21)	9,440	9,106	4
Lending- and deposit-related fees	1,497	1,484	1	4,427	4,290	3
Asset management, administration and commissions	3,846	3,597	7	11,347	10,902	4
Securities gains/(losses)	(1)	64	NM	(38)	136	NM
Mortgage fees and related income	429	624	(31)	1,239	1,980	(37)
Card income	1,242	1,202	3	3,323	3,861	(14)
Other income ^(a)	951	782	22	3,193	2,844	12
Noninterest revenue	12,528	13,070	(4)	38,401	37,962	1
Net interest income	12,798	11,603	10	37,070	34,330	8
Total net revenue	\$25,326	\$24,673	3 %	\$75,471	\$72,292	4 %

Included operating lease income of \$928 million and \$708 million for the three months ended September 30, 2017 (a) and 2016, respectively and \$2.6 billion and \$2.0 billion for the nine months ended September 30, 2017 and 2016, respectively.

Quarterly results

Investment banking fees remained relatively flat, as declines in equity underwriting fees driven by a lower share of fees, and debt underwriting fees driven by lower industry-wide fees were offset by higher advisory fees driven by a higher number of completed transactions in CIB. For additional information, see CIB segment results on pages 25–30 and Note 5.

Principal transactions revenue decreased compared with a strong prior year in CIB's Markets business, primarily reflecting:

- lower Fixed Income-related revenue across products driven by sustained low volatility and tighter credit spreads partially offset by

- higher Equity-related revenue primarily in Prime Services.

The decrease also reflected lower gains on private equity investments in several businesses. For additional information, see CIB, Corporate and CCB segment results on pages 25–30, page 39 and pages 20–24, respectively, and Note 5.

Asset management, administration and commissions revenue increased as a result of higher asset management fees in AWM and CCB, and higher asset-based fees in CIB, both driven by higher market levels, as well as higher brokerage commissions driven by higher volumes. For additional information, see AWM, CCB and CIB segment results on pages 35–38, pages 20–24 and pages 25–30, respectively, and Note 5.

Mortgage fees and related income decreased driven by lower net production revenue on lower margins and volumes, lower mortgage servicing rights ("MSR") risk management results, and lower servicing revenue on lower average third-party loans serviced. For further information, see CCB segment results on pages 20–24 and Note 14.

Card income increased predominantly driven by higher credit card-related fees, largely annual fees, predominantly offset by higher credit card new account origination costs. For further information, see CCB segment results on pages 20–24.

Other income increased primarily driven by higher operating lease income reflecting growth in auto operating lease volume in CCB.

For further information, see Note 5.

Net interest income increased primarily driven by the net impact of higher rates and loan growth, partially offset by declines in Markets net interest income in CIB. The Firm's average interest-earning assets were \$2.2 trillion, and the net interest yield on these assets, on a fully taxable-equivalent ("FTE") basis, was 2.37%, an increase of 13 basis points from the prior year.

For additional information on lending- and deposit-related fees, see the segment results for CCB on pages 20–24, CIB on pages 25–30, and CB on pages 31–34 and Note 5; and on securities gains, see the Corporate segment discussion on page 39.

Year-to-date results

Investment banking fees increased reflecting higher debt and equity underwriting fees in CIB. The increase in debt underwriting fees was driven by a higher share of fees and an overall increase in industry-wide fees; and the increase in equity underwriting fees was driven by growth in industry-wide issuance, including a stronger IPO market.

Principal transactions revenue increased primarily as a result of higher client-driven market-making revenue in CIB, primarily reflecting:

- higher Equity-related revenue primarily in Prime Services, and
- higher Lending-related revenue reflecting lower fair value losses on hedges of accrual loans

partially offset by

• lower Fixed Income-related revenue driven by sustained low volatility and tighter credit spreads.

Asset management, administration and commissions revenue increased as a result of higher asset management fees in AWM and CCB, and higher asset-based fees in CIB, both driven by higher market levels, as well as higher brokerage commissions driven by higher volumes in CIB and AWM.

Mortgage fees and related income decreased driven by lower MSR risk management results, lower net production revenue on lower margins and volumes, and lower servicing revenue on lower average third-party loans serviced.

Card income decreased predominantly driven by higher credit card new account origination costs, partially offset by higher credit card-related fees, largely annual fees.

Other income increased primarily due to the following:

• higher operating lease income reflecting growth in auto operating lease volume in CCB

• a legal benefit of \$645 million recorded in the second quarter of 2017 in Corporate related to a settlement with the FDIC receivership for Washington Mutual and with Deutsche Bank as trustee to certain Washington Mutual trusts

partially offset by

• the absence in the current year of both gains on the sale of Visa Europe interests in CCB, as well as on the disposal of an asset in AWM, and

• lower other income in CIB.

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, and the net interest yield on these assets, on a FTE basis, was 2.34%, an increase of 8 basis points from the prior year.

Provision for credit losses

(in millions)	Three months ended September 30,			Nine months ended September 30,			
	2017	2016	Change	2017	2016	Change	
Consumer, excluding credit card	\$206	\$262	(21)%	\$660	\$578	14	%
Credit card	1,319	1,038	27	3,699	2,978	24	
Total consumer	1,525	1,300	17	4,359	3,556	23	
Wholesale	(73)	(29)	(152)	(377)	941	NM	
Total provision for credit losses	\$1,452	\$1,271	14	% \$3,982	\$4,497	(11)	%

Quarterly results

The provision for credit losses increased as a result of:

• a higher consumer provision driven by:

\$148 million of higher net charge-offs, primarily in the credit card portfolio due to seasoning of newer vintages in line with expectations, partially offset by a decrease in net charge-offs in the residential real estate portfolio reflecting continued improvement in home prices and delinquencies. The higher net charge-offs included \$63 million of incremental charge-offs recorded in accordance with regulatory guidance, and

– a \$300 million addition to the allowance for credit losses in the credit card portfolio, due to higher loss rates and loan growth, compared to a \$200 million addition in the prior year

the increase was partially offset by

a higher net benefit of \$44 million due to a net reduction of \$116 million in the wholesale allowance for credit losses, primarily driven by paydowns and loan sales in the Oil & Gas portfolio, and improvements in the overall quality of the Real Estate portfolio.

For a more detailed discussion of the credit portfolio and the allowance for credit losses, see 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 64–66 and Note 12.

Year-to-date results

The provision for credit losses decreased as a result of:

a net \$450 million reduction in the wholesale allowance for credit losses, reflecting credit quality improvements in Oil & Gas, Natural Gas Pipelines and Metals & Mining portfolios, compared with an addition of \$680 million in the prior year driven by downgrades in the same portfolios

the decrease was partially offset by

a higher consumer provision driven by:

\$432 million of higher net charge-offs, primarily in the credit card portfolio due to seasoning of newer vintages in line with expectations, partially offset by a decrease

in net charge-offs in the residential real estate portfolio reflecting continued improvement in home prices and delinquencies,

a \$218 million impact related to the transfer of the student loan portfolio to held-for-sale, and

a \$153 million higher addition to the allowance for credit losses, which included current year additions to the allowance in the credit card, business banking and auto portfolios, partially offset by a reduction in the allowance in the residential real estate portfolio.

For a more detailed discussion of the student loan sale, see CCB segment results on pages 20–24.

Noninterest expense

(in millions)	Three months ended September 30,			Nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Compensation expense	\$7,646	\$7,669	—	\$23,553	\$23,107	2 %
Noncompensation expense:						
Occupancy	930	899	3	2,803	2,681	5
Technology, communications and equipment	1,972	1,741	13	5,670	5,024	13
Professional and outside services	1,705	1,665	2	4,892	4,913	—
Marketing	710	825	(14)	2,179	2,200	(1)
Other expense ^{(a)(b)}	1,355	1,664	(19)	4,746	4,013	18
Total noncompensation expense	6,672	6,794	(2)	20,290	18,831	8
Total noninterest expense	\$14,318	\$14,463	(1)%	\$43,843	\$41,938	5 %

Included Firmwide legal expense/(benefit) of \$(107) million and \$(71) million for the three months ended

(a) September 30, 2017 and 2016, respectively and \$172 million and \$(547) million for the nine months ended September 30, 2017 and 2016, respectively.

Included FDIC-related expense of \$353 million and \$360 million for the three months ended September 30, 2017

(b) and 2016, respectively and \$1.1 billion and \$912 million for the nine months ended September 30, 2017 and 2016, respectively.

Quarterly results

Compensation expense decreased predominantly driven by lower performance-based compensation expense in CIB, partially offset by investments in certain businesses, including bankers and support staff.

Noncompensation expense decreased as a result of:

two items totaling \$175 million included in the prior year in CCB related to liabilities from a merchant in bankruptcy and mortgage servicing reserves, and

lower marketing expense in CCB

partially offset by

higher depreciation expense from growth in auto operating lease volume in CCB.

For a discussion of legal expense, see Note 21.

Year-to-date results

Compensation expense increased predominantly driven by investments in certain businesses, including bankers and support staff, partially offset by lower performance-based compensation expense particularly in CIB.

Noncompensation expense increased as a result of:

- higher legal expense as the prior year was a legal benefit

- higher depreciation expense from growth in auto operating lease volume in CCB

- higher FDIC-related expenses and

- contributions to the Firm's Foundation,

partially offset by

- two items totaling \$175 million included in the prior year in CCB related to liabilities from a merchant in bankruptcy and mortgage servicing reserves.

Income tax expense

	Three months ended September 30,			Nine months ended September 30,		
(in millions)	2017	2016	Change	2017	2016	Change
Income before income tax expense	\$9,556	\$8,939	7	% \$27,646	\$25,857	7
Income tax expense	2,824	2,653	6	7,437	7,851	(5)
Effective tax rate	29.6	% 29.7	%	26.9	% 30.4	%

Quarterly results

The effective tax rate was relatively flat compared to the prior period.

Year-to-date results

The effective tax rate decreased predominantly due to larger tax benefits resulting from the vesting of employee-based stock awards and the release of a valuation allowance. The tax benefits resulting from employee-based stock awards were related to the appreciation of the Firm's stock price upon vesting of these awards above their original grant price.

CONSOLIDATED
BALANCE
SHEETS
ANALYSIS

Consolidated balance sheets overview

The following is a discussion of the significant changes between September 30, 2017, and December 31, 2016.

Selected Consolidated balance sheets data

(in millions)	Sep 30, 2017	Dec 31, 2016	Change
Assets			
Cash and due from banks	\$21,994	\$23,873	(8)%
Deposits with banks	435,810	365,762	19
Federal funds sold and securities purchased under resale agreements	185,454	229,967	(19)
Securities borrowed	101,680	96,409	5
Trading assets:			
Debt and equity instruments	362,158	308,052	18
Derivative receivables	58,260	64,078	(9)
Securities	263,288	289,059	(9)
Loans	913,761	894,765	2
Allowance for loan losses	(13,539)	(13,776)	(2)
Loans, net of allowance for loan losses	900,222	880,989	2
Accrued interest and accounts receivable	61,757	52,330	18
Premises and equipment	14,218	14,131	1
Goodwill	47,309	47,288	—
Mortgage servicing rights	5,738	6,096	(6)
Other intangible assets	808	862	(6)
Other assets	104,378	112,076	(7)
Total assets	\$2,563,074	\$2,490,972	3 %

Cash and due from banks and deposits with banks increased primarily driven by deposit growth and a shift in the deployment of excess cash from securities purchased under resale agreements and investment securities into deposits with banks. The Firm's excess cash is placed with various central banks, predominantly Federal Reserve Banks. Federal funds sold and securities purchased under resale agreements decreased primarily due to the shift in the deployment of excess cash to deposits with banks. For additional information on the Firm's Liquidity Risk Management, see pages 68–72.

Trading assets and trading liabilities—debt and equity instruments increased predominantly related to client-driven market-making activities in CIB.

The increase in trading assets was driven by higher debt and equity instruments in Prime Services reflecting client demand, and in Rates reflecting higher levels of client activity when compared to lower levels at year-end

The increase in trading liabilities was driven by higher levels of client-driven short positions in equity instruments in Prime Services, partially offset by reductions in debt instruments in Securitized products.

For additional information, refer to Note 2.

Trading assets and trading liabilities—derivative receivables and payables decreased predominantly related to client-driven market-making activities in CIB Markets, reflecting lower foreign exchange and interest rate derivative receivables and payables, driven by maturities and market movements. The decrease in derivative receivables was partially offset by higher equity derivative receivables driven by higher market levels. For additional information, refer to Derivative contracts on pages 62–63, and Notes 2 and 4.

Securities decreased primarily reflecting net sales of

U.S. Treasuries. For information on Securities, see Notes 2 and 9.

Loans increased reflecting the following:

- higher wholesale loans driven by new originations in CB and higher loans to Private Banking clients in AWM, partially offset by paydowns in CIB

- higher consumer loans as a result of higher retention of originated high-quality prime mortgages in CCB and AWM, largely offset by the sale of the student loan portfolio, lower home equity loans and the run-off of PCI loans.

The allowance for loan losses decreased reflecting the following:

- a net reduction in the wholesale allowance, reflecting credit quality improvements in the Oil & Gas, Natural Gas Pipelines and Metals & Mining portfolios

partially offset by

- an increase in the consumer allowance, reflecting additions to the allowance for the credit card, business banking and auto portfolios, predominantly driven by

higher loss rates and loan growth in credit card, largely offset by the utilization of the allowance in connection with the transfer of the student loan portfolio to held-for-sale, and a reduction in the allowance for the residential real estate portfolio predominantly driven by continued improvement in home prices and delinquencies.

For detailed discussion of loans and the allowance for loan losses, refer to Credit Risk Management on pages 49–66, and Notes 2, 3, 11 and 12.

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

Other assets decreased as a result of a shift in the collateral pledged by CIB from cash to securities (which are classified within trading assets).

For information on MSRs, see Note 14.

Selected Consolidated balance sheets data (continued)

(in millions)	Sep 30, 2017	Dec 31, 2016	Change
Liabilities			
Deposits	\$1,439,027	\$1,375,179	5 %
Federal funds purchased and securities loaned or sold under repurchase agreements	169,393	165,666	2
Commercial paper	24,248	11,738	107
Other borrowed funds	29,719	22,705	31
Trading liabilities:			
Debt and equity instruments	89,089	87,428	2
Derivative payables	39,446	49,231	(20)
Accounts payable and other liabilities	196,764	190,543	3
Beneficial interests issued by consolidated variable interest entities (“VIEs”)	28,424	39,047	(27)
Long-term debt	288,582	295,245	(2)
Total liabilities	2,304,692	2,236,782	3
Stockholders’ equity	258,382	254,190	2
Total liabilities and stockholders’ equity	\$2,563,074	\$2,490,972	3 %

Deposits increased due to the following:

• higher consumer deposits reflecting the continuation of strong growth from new and existing customers, and low attrition rates

• higher wholesale deposits driven by growth in client cash management activity in CIB’s Securities Services and Treasury Services businesses, partially offset by lower balances in AWM reflecting balance migration into investment-related products (retained predominantly within the Firm), and the impact of seasonality in both CB and AWM.

For more information on deposits, refer to the Liquidity Risk Management discussion on pages 68–72; and Notes 2 and 15.

Federal funds purchased and securities loaned or sold under repurchase agreements increased reflecting on-going client activity in CIB, partially offset by a change in the mix of funding to commercial paper and other borrowed funds.

Commercial paper increased due to higher issuance in the wholesale market, reflecting a change in the mix of funding from securities sold under repurchase agreements for CIB Markets activities. For additional information, see Liquidity Risk Management on pages 68–72.

Other borrowed funds increased driven by a change in the mix of funding from securities sold under repurchase agreements in CIB.

Beneficial interests issued by consolidated VIEs decreased due to net maturities of credit card securitizations and the deconsolidation of the student loan securitization entities. For further information on Firm-sponsored VIEs and loan securitization trusts, see Off-Balance Sheet Arrangements on page 14 and Notes 13 and 19; and for a more detailed discussion of the student loan sale, see CCB segment results on pages 20–24 and Note 23.

For information on the Firm's long-term debt activities, see Liquidity Risk Management on pages 68–72; on changes in stockholders' equity, see page 86, and on the Firm's capital actions, see Capital actions on page 47.

CONSOLIDATED
CASH FLOWS
ANALYSIS

Consolidated cash flows overview

The following is a discussion of cash flow activities during the nine months ended September 30, 2017 and 2016.

(in millions)	Nine months ended	
	September 30, 2017	2016
Net cash provided by/(used in)		
Operating activities	\$(16,038)	\$(18,715)
Investing activities	(22,342)	(112,102)
Financing activities	36,405	131,699
Effect of exchange rate changes on cash	96	18
Net increase/(decrease) in cash and due from banks	\$(1,879)	\$900

Operating activities

Cash used in operating activities for the nine month period ending September 30, 2017 resulted from:

Client-driven market-making activities in CIB

- an increase in trading assets was driven by higher debt and equity instruments in Prime Services reflecting client demand, and in Rates reflecting higher levels of client activity when compared to lower levels at year-end
- a decrease in trading liabilities predominantly reflecting lower foreign exchange and interest rate derivative payables
- an increase in accrued interest and accounts receivable due to higher client receivables.

Partially offsetting these outflows was a decrease in other assets as a result of a shift in the collateral pledged in CIB from cash to securities.

Cash used in operating activities for the nine month period ending September 30, 2016 resulted from:

Client-driven market-making activities in CIB

- an increase in trading assets, which was largely offset by an increase in trading liabilities
- an increase in accrued interest and accounts receivable driven by higher client receivables
- an increase in securities borrowed driven by higher demand for securities to cover short positions.

Investing activities

Cash used in investing activities during 2017 resulted from:

- an increase in deposits with banks, primarily driven by growth in deposits and a shift in the deployment of excess cash from securities purchased under resale agreements and investment securities into deposits with banks
- higher wholesale loans driven by new originations in CB and higher loans to Private Banking clients in AWM, partially offset by paydowns in CIB
- higher consumer loans as a result of higher retention of originated high-quality prime mortgages in CCB and AWM, largely offset by the sale of the student loan portfolio, lower home equity loans and the run-off of PCI loans

Cash used in investing activities during 2016 resulted from:

- net originations of consumer and wholesale loans
- an increase in deposits with banks primarily due to growth in deposits and an increase in long-term debt
- an increase in securities purchased under resale agreements due to the deployment of excess cash by Treasury and
- higher demand for securities to cover short positions related to client-driven market-making activities in CIB.

For both periods, partially offsetting these cash outflows were net proceeds from paydowns, maturities, sales and purchases of investment securities.

Financing activities

Cash provided by financing activities in 2017 resulted from:

- higher wholesale deposits driven by growth in client cash management activity in CIB's Securities Services and
- Treasury Services businesses, partially offset by lower balances in AWM reflecting balance migration predominantly into the Firm's investment-related products, and the impact of seasonality in both CB and AWM

- higher consumer deposits reflecting the continuation of strong growth from new and existing customers, and low attrition rates

- an increase in commercial paper due to higher issuance in the wholesale market, reflecting a change in the mix of funding from securities sold under repurchase agreements for CIB Markets activities

Partially offsetting these inflows were net payments of long-term borrowings.

Cash provided by financing activities in 2016 resulted from:

- higher consumer and wholesale deposits

- an increase in securities loaned or sold under repurchase agreements predominantly due to higher client-driven market-making activities in CIB

- higher net proceeds from long-term borrowings consistent with Treasury's long-term funding plans.

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, see Consolidated Balance Sheets Analysis on pages 11–12, Capital Risk Management on pages 42–48, and Liquidity Risk Management on pages 68–72 of this Form 10-Q, and pages 110–115 of JPMorgan Chase's 2016 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). For further discussion, see Note 19 of this Form 10-Q and Off-Balance Sheet Arrangements and Contractual Cash Obligations on pages 45–46 and Note 29 of JPMorgan Chase’s 2016 Annual Report.

Special-purpose entities

The most common type of VIE is an SPE. SPEs are commonly used in securitization transactions in order to isolate certain assets and distribute the cash flows from those assets to investors. SPEs are an important part of the financial markets, including the mortgage- and asset-backed securities and commercial paper markets, as they provide market liquidity by facilitating investors’ access to specific portfolios of assets and risks. 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. For further information on the types of SPEs, see Note 13 of this Form 10-Q, and Note 1 and Note 16 of JPMorgan Chase’s 2016 Annual Report.

Implications of a credit rating downgrade to JPMorgan Chase Bank, N.A.

For certain liquidity commitments to SPEs, JPMorgan Chase Bank, N.A. could be required to provide funding if its short-term credit rating were downgraded below specific levels, primarily “P-1”, “A-1” and “F1” for Moody’s Investors Service (“Moody’s”), Standard & Poor’s and Fitch, respectively. These liquidity commitments support the issuance of asset-backed commercial paper by Firm-administered consolidated SPEs. In the event of a short-term credit rating downgrade, JPMorgan Chase Bank, N.A., absent other solutions, would be required to provide funding to the SPE if the commercial paper could not be reissued as it matured. The aggregate amounts of commercial paper outstanding held by third parties as of September 30, 2017, and December 31, 2016, was \$2.9 billion and \$2.7 billion, respectively. The aggregate amounts of commercial paper issued by these SPEs could increase in future periods should clients of the Firm-administered consolidated SPEs draw down on certain unfunded lending-related commitments. These unfunded lending-related commitments were \$7.3 billion and \$7.4 billion at September 30, 2017, and December 31, 2016, respectively. The Firm could facilitate the refinancing of some of the clients’ assets in order to reduce the funding

obligation. For further information, see the discussion of Firm-administered multiseller conduits in Note 13.

The Firm also acts as liquidity provider for certain municipal bond vehicles. The Firm’s obligation to perform as liquidity provider is conditional and is limited by certain termination events, which include bankruptcy or failure to pay by the municipal bond issuer and any credit enhancement provider, an event of taxability on the municipal bonds or the immediate downgrade of the municipal bond to below investment grade. See Note 13 for additional information.

Off-balance sheet lending-related financial instruments, guarantees, and other commitments

JPMorgan Chase provides lending-related financial instruments (e.g., commitments and guarantees) to meet the financing needs of its customers. The contractual amount of these financial instruments represents the maximum possible credit risk to the Firm should the counterparty draw upon the commitment or the Firm be required to fulfill its obligation under the guarantee, and should the counterparty 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 upon 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 further discussion of lending-related financial instruments, guarantees and other commitments, and the Firm’s accounting for them, see Lending-related commitments on page 62 and Note 19. For a discussion of liabilities associated with loan sales and securitization-related indemnifications, see Note 19.

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 83–87. 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 considered 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 a 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, see 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, see Credit Risk Management on pages 49–66. 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 table provides a reconciliation from the Firm’s reported U.S. GAAP results to managed basis.

(in millions, except ratios)	Three months ended September 30, 2017			2016		
	Reported results	Fully taxable-equivalent adjustments ^(a)	Managed basis	Reported results	Fully taxable-equivalent adjustments ^(a)	Managed basis
Other income	\$951	\$ 555	\$1,506	\$782	\$ 540	\$1,322
Total noninterest revenue	12,528	555	13,083	13,070	540	13,610
Net interest income	12,798	319	13,117	11,603	299	11,902
Total net revenue	25,326	874	26,200	24,673	839	25,512
Pre-provision profit	11,008	874	11,882	10,210	839	11,049
Income before income tax expense	9,556	874	10,430	8,939	839	9,778
Income tax expense	\$2,824	\$ 874	\$3,698	\$2,653	\$ 839	\$3,492
Overhead ratio	57	% NM	55	% 59	% NM	57

(in millions, except ratios)	Nine months ended September 30, 2017			2016		
	Reported results	Fully taxable-equivalent adjustments ^(a)	Managed basis	Reported results	Fully taxable-equivalent adjustments ^(a)	Managed basis
Other income	\$3,193	\$ 1,733	\$4,926	\$2,844	\$ 1,620	\$4,464
Total noninterest revenue	38,401	1,733	40,134	37,962	1,620	39,582

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Net interest income	37,070	987	38,057	34,330	897	35,227
Total net revenue	75,471	2,720	78,191	72,292	2,517	74,809
Pre-provision profit	31,628	2,720	34,348	30,354	2,517	32,871
Income before income tax expense	27,646	2,720	30,366	25,857	2,517	28,374
Income tax expense	\$7,437	\$ 2,720	\$10,157	\$7,851	\$ 2,517	\$10,368
Overhead ratio	58	% NM	56	% 58	% NM	56 %

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

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 represent both 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.

(in millions, except rates)	Three months ended September 30,				Nine months ended September 30,			
	2017	2016	Change		2017	2016	Change	
Net interest income – managed basis ^{(a)(b)}	\$13,117	\$11,902	10	%	\$38,057	\$35,227	8	%
Less: CIB Markets net interest income ^(c)	1,070	1,625	(34)	)	3,509	4,703	(25))
Net interest income excluding CIB Markets ^(a)	\$12,047	\$10,277	17		\$34,548	\$30,524	13	
Average interest-earning assets	\$2,194,174	\$2,116,493	4		\$2,177,520	\$2,080,133	5	
Less: Average CIB Markets interest-earning assets ^(c)	544,867	518,862	5		535,044	518,989	3	
Average interest-earning assets excluding CIB Markets	\$1,649,307	\$1,597,631	3	%	\$1,642,476	\$1,561,144	5	%
Net interest yield on average interest-earning assets – managed basis	2.37	%2.24	%		2.34	%2.26	%	
Net interest yield on average CIB Markets interest-earning assets ^(c)	0.78	1.25			0.88	1.21		
Net interest yield on average interest-earning assets excluding CIB Markets	2.90	%2.56	%		2.81	%2.61	%	

(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, see reconciliation from the Firm's reported U.S. GAAP results to managed basis on page 15.

(c) The amounts in this table differ from the prior-period to align with CIB's Markets businesses. For further information on CIB's Markets businesses, see 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.

(in millions, except per share and ratio data)	Period-end		Average			
	Sep 30, 2017	Dec 31, 2016	Three months ended September 30,		Nine months ended September 30,	
			2017	2016	2017	2016
Common stockholders’ equity	\$232,314	\$228,122	\$231,861	\$226,089	\$229,937	\$224,034
Less: Goodwill	47,309	47,288	47,309	47,302	47,297	47,314
Less: Certain identifiable intangible assets	808	862	818	903	836	938
Add: Deferred tax liabilities ^(a)	3,271	3,230	3,262	3,226	3,243	3,205
Tangible common equity	\$187,468	\$183,202	\$186,996	\$181,110	\$185,047	\$178,987
Return on tangible common equity	NA	NA	13	% 13	% 14	% 13
Tangible book value per share	\$54.03	\$51.44	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, see Capital Risk Management on pages 42–48.

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.

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, see 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 reflect each segment as if it were a stand-alone business. The management reporting process that derives business segment results allocates income and expense using market-based methodologies. For further information about line of business capital, see 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 changes

Effective January 1, 2017, the Firm's methodology used to allocate capital to the business segments was updated. Under the new methodology, capital is no longer allocated to each line of business for goodwill and other intangibles associated with acquisitions effected by the line of business. In addition, the new methodology incorporates Basel III Standardized Fully Phased-In RWA (as well as Basel III Advanced Fully Phased-In RWA), leverage, the global systemically important banks ("GSIB") surcharge, and a simulation of capital in a severe stress environment. The methodology will continue to be weighted towards Basel III Advanced Fully Phased-In RWA because the Firm believes it to be the best proxy for economic risk.

For a further discussion of those methodologies, see Business Segment Results – Description of business segment reporting methodology on pages 51–52 of JPMorgan Chase's 2016 Annual Report.

The following discussions of the business segment results are based on a comparison of the three and nine months ended September 30, 2017 versus the corresponding period in the prior year, unless otherwise specified.

Segment results – managed basis

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

Three months ended September 30, (in millions)	Total net revenue			Total noninterest expense			Pre-provision profit/(loss)		
	2017	2016	Change	2017	2016	Change	2017	2016	Change
Consumer & Community Banking	\$12,033	\$11,328	6	% \$6,495	\$6,510	—	\$5,538	\$4,818	15
Corporate & Investment Bank	8,590	9,455	(9)	) 4,768	4,934	(3)	) 3,822	4,521	(15)
Commercial Banking	2,146	1,870	15	800	746	7	1,346	1,124	20
Asset & Wealth Management	3,245	3,047	6	2,181	2,130	2	1,064	917	16
Corporate	186	(188)	)NM	74	143	(48)	) 112	(331)	)NM
Total	\$26,200	\$25,512	3	% \$14,318	\$14,463	(1)	% \$11,882	\$11,049	8
Three months ended September 30, (in millions, except ratios)	Provision for credit losses			Net income/(loss)			Return on equity		
	2017	2016	Change	2017	2016	Change	2017	2016	
Consumer & Community Banking	\$1,517	\$1,294	17	% \$2,553	\$2,204	16	% 19	% 16	%
Corporate & Investment Bank	(26)	)67	NM	2,546	2,912	(13)	) 13	17	
Commercial Banking	(47)	)121	)61	881	778	13	17	18	
Asset & Wealth Management	8	32	(75)	) 674	557	21	29	24	
Corporate	—	(1)	)100	78	(165)	)NM	NM	NM	
Total	\$1,452	\$1,271	14	% \$6,732	\$6,286	7	% 11	% 10	%
Nine months ended September 30, (in millions)	Total net revenue			Total noninterest expense			Pre-provision profit/(loss)		
	2017	2016	Change	2017	2016	Change	2017	2016	Change
Consumer & Community Banking	\$34,415	\$33,896	2	\$19,390	\$18,602	4	% \$15,025	\$15,294	(2)
Corporate & Investment Bank	27,015	26,755	1	14,730	14,820	(1)	) 12,285	11,935	3
Commercial Banking	6,252	5,490	14	2,415	2,190	10	3,837	3,300	16
Asset & Wealth Management	9,544	8,958	7	6,953	6,303	10	2,591	2,655	(2)
Corporate	965	(290)	)NM	355	23	NM	610	(313)	)NM
Total	\$78,191	\$74,809	5	\$43,843	\$41,938	5	% \$34,348	\$32,871	4
Nine months ended September 30, (in millions, except ratios)	Provision for credit losses			Net income/(loss)			Return on equity		
	2017	2016	Change	2017	2016	Change	2017	2016	
Consumer & Community Banking	\$4,341	\$3,545	22	% \$6,764	\$7,350	(8)	)% 17	% 18	%
Corporate & Investment Bank	(175)	)761	NM	8,497	7,384	15	15	14	
Commercial Banking	(214)	)158	NM	2,582	1,970	31	16	15	
Asset & Wealth Management	30	37	(19)	) 1,683	1,665	1	24	24	
Corporate	—	(4)	)100	683	(363)	)NM	NM	NM	
Total	\$3,982	\$4,497	(11)	% \$20,209	\$18,006	12	% 11	% 10	%

CONSUMER &
COMMUNITY
BANKING

For a discussion of the business profile of CCB, see pages 53–57 of JPMorgan Chase’s 2016 Annual Report and Line of Business Metrics on page 173.

Selected income statement data

(in millions, except ratios)	Three months ended September 30,			Nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Revenue						
Lending- and deposit-related fees	\$885	\$841	5 %	\$2,547	\$2,390	7 %
Asset management, administration and commissions	543	531	2	1,644	1,596	3
Mortgage fees and related income	428	624	(31)	1,235	1,980	(38)
Card income	1,141	1,099	4	3,019	3,543	(15)
All other income	901	773	17	2,454	2,303	7
Noninterest revenue	3,898	3,868	1	10,899	11,812	(8)
Net interest income	8,135	7,460	9	23,516	22,084	6
Total net revenue	12,033	11,328	6	34,415	33,896	2
Provision for credit losses	1,517	1,294	17	4,341	3,545	22
Noninterest expense						
Compensation expense	2,554	2,453	4	7,598	7,255	5
Noncompensation expense ^(a)	3,941	4,057	(3)	11,792	11,347	4
Total noninterest expense	6,495	6,510	—	19,390	18,602	4
Income before income tax expense	4,021	3,524	14	10,684	11,749	(9)
Income tax expense	1,468	1,320	11	3,920	4,399	(11)
Net income	\$2,553	\$2,204	16 %	\$6,764	\$7,350	(8)%
Revenue by line of business						
Consumer & Business Banking	\$5,408	\$4,719	15	\$15,547	\$13,885	12
Mortgage Banking	1,558	1,874	(17)	4,513	5,671	(20)
Card, Commerce Solutions & Auto	5,067	4,735	7	14,355	14,340	—
Mortgage fees and related income details:						
Net production revenue	158	247	(36)	451	670	(33)
Net mortgage servicing revenue ^(b)	270	377	(28)	784	1,310	(40)
Mortgage fees and related income	\$428	\$624	(31)%	\$1,235	\$1,980	(38)%
Financial ratios						
Return on equity	19 %	16 %		17 %	18 %	
Overhead ratio	54	57		56	55	

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.

Included operating lease depreciation expense of \$688 million and \$504 million for the three months ended (a) September 30, 2017 and 2016, respectively, and \$1.9 billion and \$1.4 billion for the nine months ended September 30, 2017 and 2016, respectively.

(b) Included MSR risk management of \$(23) million and \$38 million for the three months ended September 30, 2017 and 2016, respectively, and \$(132) million and \$240 million for the nine months ended September 30, 2017 and

2016, respectively.

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Quarterly results

Net income was \$2.6 billion, an increase of 16%, driven by higher net revenue, partially offset by a higher provision for credit losses.

Net revenue was \$12.0 billion, an increase of 6%.

Net interest income was \$8.1 billion, up 9%, driven by deposit margin expansion, higher deposit balances and higher loan balances in Card, partially offset by loan spread compression from higher rates, including the impact of higher funding costs, in Mortgage Banking and Auto.

Noninterest revenue was \$3.9 billion, up 1%, driven by higher auto lease volume and higher card- and deposit-related fees, predominantly offset by higher new account origination costs in Card, lower net production revenue reflecting lower mortgage production margins and volumes, lower MSR risk management results and lower mortgage servicing revenue as a result of a lower level of third-party loans serviced. See 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 \$6.5 billion, flat compared to prior year, as a result of:

- two items totaling \$175 million included in the prior year related to liabilities from a merchant in bankruptcy and mortgage servicing reserves, and

- lower marketing expense

offset by

- higher auto lease depreciation, and

- continued business growth.

The provision for credit losses was \$1.5 billion, an increase of 17% from the prior year, driven by:

- \$148 million of higher net charge-offs, primarily in the credit card portfolio due to seasoning of newer vintages in line with expectations, partially offset by a decrease in net charge-offs in the residential real estate portfolio reflecting continued improvement in home prices and delinquencies. The higher net charge-offs included \$63 million of incremental charge-offs recorded in accordance with regulatory guidance regarding the timing of loss recognition for certain auto and residential real estate loans in bankruptcy and auto loans where assets were acquired in loan satisfaction, and

- a \$75 million higher addition to the allowance for credit losses, primarily related to the credit card portfolio.

Year-to-date results

Net income was \$6.8 billion, a decrease of 8%, driven by a higher provision for credit losses and noninterest expense, partially offset by higher net revenue.

Net revenue was \$34.4 billion, an increase of 2%.

Net interest income was \$23.5 billion, up 6%, driven by higher deposit balances, higher loan balances in Card and deposit margin expansion, partially offset by loan spread compression from higher rates, including the impact of higher funding costs, in Mortgage Banking and Auto, the impact of the student loan portfolio sale and an adjustment for capitalized interest on modified loans in Mortgage Banking.

Noninterest revenue was \$10.9 billion, down 8%, driven by higher new account origination costs in Card, lower MSR risk management results, the absence in the current year of a gain on the sale of Visa Europe interests and lower net production revenue reflecting lower mortgage production margins and volumes, largely offset by higher auto lease volume and higher card- and deposit-related fees.

Noninterest expense was \$19.4 billion, an increase of 4%, driven by:

- higher auto lease depreciation, and

- continued business growth

partially offset by

- two items totaling \$175 million included in the prior year related to liabilities from a merchant in bankruptcy and mortgage servicing reserves.

The provision for credit losses was \$4.3 billion, an increase of 22% from the prior year, reflecting:

- \$428 million of higher net charge-offs, primarily in the credit card portfolio due to seasoning of newer vintages in line with expectations, partially offset by a decrease in net charge-offs in the residential real estate portfolio reflecting

continued improvement in home prices and delinquencies,

▪ \$218 million impact related to the transfer of the student loan portfolio to held-for-sale, and

▪ \$150 million higher addition to the allowance for credit losses.

See the Allowance for credit losses section on page 64 of this Form 10-Q for additional information regarding the consumer portfolio.

The Firm transferred the student loan portfolio to held-for-sale in the first quarter of 2017. The Firm sold substantially all of the portfolio in the second quarter of 2017, and such sale did not have a material impact on the Firm's Consolidated Financial Statements.

Selected metrics

(in millions, except headcount)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Selected balance sheet data (period-end)						
Total assets	\$537,459	\$521,276	3 %	\$537,459	\$521,276	3 %
Loans:						
Consumer & Business Banking	25,275	23,846	6	25,275	23,846	6
Home equity	44,542	52,445	(15)	44,542	52,445	(15)
Residential mortgage	195,134	181,564	7	195,134	181,564	7
Mortgage Banking	239,676	234,009	2	239,676	234,009	2
Card	141,313	133,435	6	141,313	133,435	6
Auto	65,102	64,512	1	65,102	64,512	1
Student	47	7,354	(99)	47	7,354	(99)
Total loans	471,413	463,156	2	471,413	463,156	2
Core loans	401,648	371,060	8	401,648	371,060	8
Deposits	653,460	605,117	8	653,460	605,117	8
Equity	51,000	51,000	—	51,000	51,000	—
Selected balance sheet data (average)						
Total assets	\$531,959	\$521,882	2	\$530,884	\$512,550	4
Loans:						
Consumer & Business Banking	25,166	23,678	6	24,753	23,227	7
Home equity	45,424	53,501	(15)	47,333	55,604	(15)
Residential mortgage	192,805	180,669	7	187,954	175,059	7
Mortgage Banking	238,229	234,170	2	235,287	230,663	2
Card	141,172	132,713	6	138,852	129,481	7
Auto	65,175	64,068	2	65,321	62,998	4
Student	58	7,490	(99)	3,847	7,759	(50)
Total loans	469,800	462,119	2	468,060	454,128	3
Core loans	398,319	367,999	8	389,103	356,072	9
Deposits	645,732	593,671	9	636,257	579,741	10
Equity	51,000	51,000	—	51,000	51,000	—
Headcount						
	134,553	132,092	2 %	134,553	132,092	2 %

Selected metrics

(in millions, except ratio data)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Credit data and quality statistics						
Nonaccrual loans ^{(a)(b)}	\$4,068	\$4,853	(16)%	\$4,068	\$4,853	(16)%
Net charge-offs/(recoveries) ^{(c)(d)}						
Consumer & Business Banking	\$71	\$71	—	\$184	\$180	2
Home equity	13	42	(69)	67	136	(51)
Residential mortgage	(2)	7	NM	(3)	11	NM
Mortgage Banking	11	49	(78)	64	147	(56)
Card	1,019	838	22	3,049	2,528	21
Auto	116	79	47	245	192	28
Student	—	32	NM	498 ⁽ⁱ⁾	98	408
Total net charge-offs/(recoveries)	\$1,217	\$1,069	14	\$4,040 ⁽ⁱ⁾	\$3,145	28
Net charge-off/(recovery) rate ^{(c)(d)}						
Consumer & Business Banking	1.12	% 1.19	%	0.99	% 1.04	%
Home equity ^(e)	0.15	0.42		0.25	0.44	
Residential mortgage ^(e)	—	0.02		—	0.01	
Mortgage Banking ^(e)	0.02	0.10		0.04	0.10	
Card	2.87	2.51		2.94	2.61	
Auto	0.71	0.49		0.50	0.41	
Student	—	1.70		NM	1.69	
Total net charge-off/(recovery) rate ^(e)	1.10	1.00		1.25 ⁽ⁱ⁾	1.01	
30+ day delinquency rate						
Mortgage Banking ^{(f)(g)}	1.03	% 1.27	%	1.03	% 1.27	%
Card	1.76	1.53		1.76	1.53	
Auto	0.93	1.08		0.93	1.08	
Student ^(h)	—	1.81		—	1.81	
90+ day delinquency rate — Card	0.86	0.75		0.86	0.75	
Allowance for loan losses						
Consumer & Business Banking	\$796	\$703	13	\$796	\$703	13
Mortgage Banking, excluding PCI loans	1,153	1,488	(23)	1,153	1,488	(23)
Mortgage Banking — PCI loans ^(d)	2,245	2,618	(14)	2,245	2,618	(14)
Card	4,684	3,884	21	4,684	3,884	21
Auto	499	474	5	499	474	5
Student	—	274	NM	—	274	NM
Total allowance for loan losses ^(d)	\$9,377	\$9,441	(1)%	\$9,377	\$9,441	(1)%

(a) Excludes PCI loans. The Firm is recognizing interest income on each pool of PCI loans as they are all performing.

At September 30, 2017 and 2016, nonaccrual loans excluded loans 90 or more days past due as follows: (1)

- (b) mortgage loans insured by U.S. government agencies of \$4.0 billion and \$5.0 billion, respectively; and (2) student loans insured by U.S. government agencies under the Federal Family Education Loan Program (“FFELP”) of zero and \$259 million, respectively. These amounts have been excluded based upon the government guarantee.

Net charge-offs and net charge-off rates for the three and nine months ended September 30, 2017 included \$63 million of incremental charge-offs recorded in accordance with regulatory guidance regarding the timing of loss recognition for certain auto and residential real estate loans in bankruptcy and auto loans where assets were acquired in loan satisfaction.

Net charge-offs/(recoveries) and the net charge-off/(recovery) rates for the three months ended September 30, 2017 and 2016, excluded \$20 million and \$36 million, respectively, and for nine months ended September 30, 2017 and 2016, excluded \$66 million and \$124 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, see summary of changes in the allowances on page 65.

Excludes the impact of PCI loans. For the three months ended September 30, 2017 and 2016, the net charge-off/(recovery) rates including the impact of PCI loans were as follows: (1) home equity of 0.11% and 0.31%, respectively; (2) residential mortgage of -% and 0.02%, respectively; (3) Mortgage Banking of 0.02% and 0.08%, respectively; and (4) total CCB of 1.03% and 0.92%, respectively. For the nine months ended September 30, 2017 and 2016, the net charge-off/(recovery) rates including the impact of PCI loans were as follows: (1) home equity of 0.19% and 0.33%, respectively; (2) residential mortgage of -% and 0.01%, respectively; (3) Mortgage Banking of 0.04% and 0.09%, respectively; and (4) total CCB of 1.16% and 0.93%, respectively.

At September 30, 2017 and 2016, excluded mortgage loans insured by U.S. government agencies of \$5.9 billion and \$7.0 billion, respectively, that are 30 or more days past due. These amounts have been excluded based upon the government guarantee.

Excludes PCI loans. The 30+ day delinquency rate for PCI loans was 9.30% and 10.01% at September 30, 2017 and 2016, respectively.

- (h) Excluded student loans insured by U.S. government agencies under FFELP of \$461 million at September 30, 2016, that are 30 or more days past due. This amount has been excluded based upon the government guarantee.
- (i) Excluding net charge-offs of \$467 million related to the student loan portfolio transfer in the first quarter of 2017, the total net charge-off rate for the nine months ended September 30, 2017 would have been 1.10%.

Selected metrics

(in billions, except ratios and where otherwise noted)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Business Metrics						
CCB households (in millions) ^(a)	61.2	60.0	2	% 61.2	60.0	2
Number of branches	5,174	5,310	(3)	) 5,174	5,310	(3)
Active digital customers (in thousands) ^(b)	46,349	43,657	6	46,349	43,657	6
Active mobile customers (in thousands) ^(c)	29,273	26,047	12	29,273	26,047	12
Debit and credit card sales volume ^(a)	\$231.1	\$207.9	11	\$671.8	\$601.6	12
Consumer & Business Banking						
Average deposits	\$630.4	\$576.6	9	\$621.7	\$564.2	10
Deposit margin	2.02	% 1.79	%	1.95	% 1.82	%
Business banking origination volume	\$1.7	\$1.8	(8)	) \$5.6	\$5.7	(2)
Client investment assets	262.5	231.6	13	262.5	231.6	13
Mortgage Banking						
Mortgage origination volume by channel						
Retail	\$10.6	\$11.7	(9)	) \$29.3	\$31.6	(7)
Correspondent	16.3	15.4	6	43.9	42.9	2
Total mortgage origination volume ^(d)	\$26.9	\$27.1	(1)	) \$73.2	\$74.5	(2)
Total loans serviced (period-end)	\$821.6	\$863.3	(5)	) \$821.6	\$863.3	(5)
Third-party mortgage loans serviced (period-end)	556.9	609.2	(9)	) 556.9	609.2	(9)
MSR carrying value (period-end)	5.7	4.9	16	5.7	4.9	16
Ratio of MSR carrying value (period-end) to third-party mortgage loans serviced (period-end)	1.02	% 0.80	%	1.02	% 0.80	%
MSR revenue multiple ^(e)	2.91	x 2.29	x	2.91	x 2.29	x
Card, excluding Commercial Card						
Credit card sales volume	\$157.7	\$139.2	13	\$454.2	\$396.9	14
New accounts opened (in millions)	1.9	2.7	(30)	) 6.5	7.7	(16)
Card Services						
Net revenue rate	10.95	% 11.04	%	10.55	% 11.70	%
Commerce Solutions						
Merchant processing volume	\$301.6	\$267.2	13	\$870.3	\$778.5	12
Auto						
Loan and lease origination volume	\$8.8	\$9.3	(5)) \$25.1	\$27.4	(8)

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Average Auto operating lease assets	15.6	11.4	37	%	14.7	10.5	40	%
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(a) The prior period amounts have been revised to conform with the current period presentation.

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

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

Firmwide mortgage origination volume was \$29.2 billion and \$30.9 billion for the three months ended September (d) 30, 2017 and 2016, respectively, and \$81.0 billion and \$83.9 billion for the nine months ended September 30, 2017 and 2016, 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, see pages 58–62 of JPMorgan Chase’s 2016 Annual Report and Line of Business Metrics on page 173.

Selected income statement data

(in millions, except ratios)	Three months ended			Nine months ended		
	September 30,		Change	September 30,		Change
	2017	2016		2017	2016	
Revenue						
Investment banking fees	\$1,819	\$1,855	(2)%	\$5,434	\$4,812	13 %
Principal transactions	2,673	3,282	(19)	9,108	8,717	4
Lending- and deposit-related fees	374	402	(7)	1,149	1,181	(3)
Asset management, administration and commissions	1,041	968	8	3,161	3,062	3
All other income	187	183	2	622	927	(33)
Noninterest revenue	6,094	6,690	(9)	19,474	18,699	4
Net interest income	2,496	2,765	(10)	7,541	8,056	(6)
Total net revenue ^(a)	8,590	9,455	(9)	27,015	26,755	1
Provision for credit losses	(26)	67	NM	(175)	761	NM
Noninterest expense						
Compensation expense	2,286	2,513	(9)	7,537	7,850	(4)
Noncompensation expense	2,482	2,421	3	7,193	6,970	3
Total noninterest expense	4,768	4,934	(3)	14,730	14,820	(1)
Income before income tax expense	3,848	4,454	(14)	12,460	11,174	12
Income tax expense	1,302	1,542	(16)	3,963	3,790	5
Net income	\$2,546	\$2,912	(13)%	\$8,497	\$7,384	15 %
Financial ratios						
Return on equity	13 %	17 %		15 %	14 %	
Overhead ratio	56	52		55	55	
Compensation to revenue ratio	27	27		28	29	

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 (a) tax-exempt income from municipal bonds of \$505 million and \$483 million for the three months ended September 30, 2017 and 2016, respectively, and \$1.6 billion and \$1.5 billion for the nine months ended September 30, 2017 and 2016, respectively.

Selected income statement data

(in millions)	Three months ended			Nine months ended		
	September 30,		Change	September 30,		Change
	2017	2016		2017	2016	
Revenue by business						
Investment Banking	\$1,705	\$1,740	(2)%	\$5,051	\$4,463	13 %
Treasury Services	1,058	917	15	3,094	2,693	15
Lending	331	283	17	1,093	862	27
Total Banking	3,094	2,940	5	9,238	8,018	15
Fixed Income Markets	3,164	4,334	(27)	10,595	11,890	(11)
Equity Markets	1,363	1,414	(4)	4,555	4,590	(1)
Securities Services	1,007	916	10	2,905	2,704	7

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Credit Adjustments & Other ^(a)	(38)	(149)	74	(278)	(447)	38
Total Markets & Investor Services	5,496	6,515	(16)	17,777	18,737	(5)
Total net revenue	\$8,590	\$9,455	(9)%	\$27,015	\$26,755	1 %

Consists primarily of credit valuation adjustments (“CVA”) managed centrally within CIB, funding valuation adjustments (“FVA”) and debit valuation adjustments (“DVA”) on derivatives. Results are primarily reported in (a) 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. For additional information, see Accounting and Reporting Developments on pages 80–81, and Notes 2, 3 and 17.

Quarterly results

Net income was \$2.5 billion, down 13%, reflecting lower net revenue, partially offset by lower noninterest expense and a lower provision for credit losses.

Net revenue was \$8.6 billion, down 9%.

Banking revenue was \$3.1 billion, up 5%. Investment banking revenue was \$1.7 billion, down 2%, driven by lower equity and debt underwriting fees, largely offset by higher advisory fees. The Firm maintained its #1 ranking for Global Investment Banking fees, according to Dealogic. Equity underwriting fees were \$293 million, down 21%, driven by a lower share of fees compared to a strong prior year. Debt underwriting fees were \$906 million, down 4% compared to a strong prior year, primarily driven by declines in industry-wide fees. Advisory fees were \$620 million, up 14%, driven by a higher number of completed transactions. Treasury Services revenue was \$1.1 billion, up 15%, driven by the impact of higher interest rates and growth in operating deposits. Lending revenue was \$331 million, up 17%, reflecting lower fair value losses on hedges of accrual loans.

Markets & Investor Services revenue was \$5.5 billion, down 16%. Fixed Income Markets revenue was \$3.2 billion, down 27%, as lower revenue across products was driven by sustained low volatility and tighter credit spreads, against a very strong prior year. Equity Markets revenue was \$1.4 billion, down 4% compared to a strong prior year, driven by lower revenue in derivatives predominantly due to low volatility offset by higher revenue in Prime Services and Cash Equities. Securities Services revenue was \$1.0 billion, up 10%, driven by the impact of higher interest rates and deposit growth, as well as higher asset-based fees driven by higher market levels.

The provision for credit losses was a benefit of \$26 million. The prior year was an expense of \$67 million, which included an addition to the allowance for credit losses driven by the Oil & Gas portfolio.

Noninterest expense was \$4.8 billion, down 3%, driven by lower performance-based compensation expense.

Year-to-date results

Net income was \$8.5 billion, up 15%, reflecting a lower provision for credit losses, higher net revenue and a tax benefit resulting from the vesting of employee-based stock awards.

Net revenue was \$27.0 billion, relatively flat.

Banking revenue was \$9.2 billion, up 15%. Investment banking revenue was \$5.1 billion, up 13%, primarily driven by higher debt and equity underwriting fees. The Firm maintained its #1 ranking for Global Investment Banking fees, according to Dealogic. Debt underwriting fees were \$2.8 billion, up 17%, driven by a higher share of fees and an overall increase in industry-wide fees. Equity underwriting fees were \$1.1 billion, up 23%, driven by growth in industry-wide issuance including a strong IPO market. Advisory fees were \$1.6 billion, up 2%. Treasury Services revenue was \$3.1 billion, up 15%, driven by the impact of higher interest rates and growth in operating deposits. Lending revenue was \$1.1 billion, up 27%, reflecting lower fair value losses on hedges of accrual loans.

Markets & Investor Services revenue was \$17.8 billion, down 5%. Fixed Income Markets revenue was \$10.6 billion, down 11%, as lower revenue across products was driven by sustained low volatility and tighter credit spreads, against a strong prior year. Equity Markets revenue was \$4.6 billion, down 1%, driven by lower revenue in derivatives offset by higher revenue in Prime Services and Cash Equities. Securities Services revenue was \$2.9 billion, up 7%, driven by the impact of higher interest rates and deposit growth, as well as higher asset-based fees driven by higher market levels. Credit Adjustments & Other was a loss of \$278 million, largely driven by valuation adjustments.

The provision for credit losses was a benefit of \$175 million, which included a net reduction in the allowance for credit losses driven by the Oil & Gas and Metals & Mining portfolios. The prior year was an expense of \$761 million, which included an addition to the allowance for credit losses driven by the Oil & Gas and Metals & Mining portfolios.

Noninterest expense was \$14.7 billion, down 1%.

Selected metrics

(in millions, except headcount)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Selected balance sheet data (period-end)						
Assets	\$851,808	\$825,933	3 %	\$851,808	\$825,933	3 %
Loans:						
Loans retained ^(a)	106,955	117,133	(9)	106,955	117,133	(9)
Loans held-for-sale and loans at fair value	3,514	4,184	(16)	3,514	4,184	(16)
Total loans	110,469	121,317	(9)	110,469	121,317	(9)
Core loans	110,133	120,885	(9)	110,133	120,885	(9)
Equity	70,000	64,000	9	70,000	64,000	9
Selected balance sheet data (average)						
Assets	\$858,912	\$811,217	6	\$853,948	\$808,228	6
Trading assets-debt and equity instruments	349,448	306,431	14	343,232	299,350	15
Trading assets-derivative receivables	55,875	63,829	(12)	56,575	62,619	(10)
Loans:						
Loans retained ^(a)	\$107,829	\$110,941	(3)	\$108,741	\$110,442	(2)
Loans held-for-sale and loans at fair value	4,674	3,864	21	5,254	3,414	54
Total loans	\$112,503	\$114,805	(2)	\$113,995	\$113,856	—
Core loans	112,168	114,380	(2)	113,631	113,410	—
Equity	70,000	64,000	9	70,000	64,000	9
Headcount	50,641	49,176	3 %	50,641	49,176	3 %

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

Selected metrics

(in millions, except ratios)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Credit data and quality statistics						
Net charge-offs/(recoveries)	\$20	\$3	NM	\$49	\$139	(65)%
Nonperforming assets:						
Nonaccrual loans:						
Nonaccrual loans retained ^(a)	\$437	\$614	(29)%	\$437	\$614	(29)
Nonaccrual loans held-for-sale and loans at fair value	2	26	(92)	2	26	(92)
Total nonaccrual loans	439	640	(31)	439	640	(31)
Derivative receivables	164	232	(29)	164	232	(29)
Assets acquired in loan satisfactions	92	75	23	92	75	23
Total nonperforming assets	\$695	\$947	(27)	\$695	\$947	(27)
Allowance for credit losses:						
Allowance for loan losses	\$1,253	\$1,611	(22)	\$1,253	\$1,611	(22)
Allowance for lending-related commitments	745	837	(11)	745	837	(11)
Total allowance for credit losses	\$1,998	\$2,448	(18)%	\$1,998	\$2,448	(18)%
Net charge-off/(recovery) rate ^(b)	0.07 %	0.01 %		0.06 %	0.17 %	
Allowance for loan losses to period-end loans retained	1.17	1.38		1.17	1.38	
Allowance for loan losses to period-end loans retained, excluding trade finance and conduits ^(c)	1.79	2.02		1.79	2.02	
Allowance for loan losses to nonaccrual loans retained ^(a)	287	262		287	262	
Nonaccrual loans to total period-end loans	0.40 %	0.53 %		0.40 %	0.53 %	

- (a) Allowance for loan losses of \$177 million and \$202 million were held against these nonaccrual loans at September 30, 2017 and 2016, 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

(in millions)	Three months ended			Nine months ended		
	September 30,			September 30,		
	2017	2016	Change	2017	2016	Change
Advisory	\$620	\$542	14 %	\$1,624	\$1,593	2 %
Equity underwriting	293	370	(21)	1,054	860	23
Debt underwriting ^(a)	906	943	(4)	2,756	2,359	17
Total investment banking fees	\$1,819	\$1,855	(2)%	\$5,434	\$4,812	13 %

(a) Includes loans syndication.

League table results – wallet share

	Nine months ended September 30, 2017		Full-year 2016	
	Rank	Share	Rank	Share
Based on fees ^(a)				
Debt, equity and equity-related				
Global	# 1	7.5	# 1	7.1
U.S.	1	11.0	1	11.9
Long-term debt ^(b)				
Global	1	7.6	1	6.8
U.S.	2	10.8	2	11.1
Equity and equity-related ^(c)				
Global	1	7.4	1	7.6
U.S.	1	11.4	1	13.3
M&A ^(d)				
Global	2	8.7	2	8.3
U.S.	2	9.0	2	9.8
Loan syndications				
Global	1	9.4	1	9.4
U.S.	1	11.0	2	11.9
Global investment banking fees ^(e)	# 1	8.2	# 1	8.0

(a) Source: Dealogic as of October 1, 2017. 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, see Notes 5 and 6.

Principal transactions reflects revenue on financial instruments and commodities transactions that arise from client-driven market making activity. Principal transactions revenue includes amounts recognized upon executing new transactions with market participants, as well as “inventory-related revenue”, which is revenue recognized from gains and losses on derivatives and other instruments that the

Firm has been holding in anticipation of, or in response to, client demand, and changes in the fair value of instruments used by the Firm to actively manage the risk exposure arising from such inventory. Principal transactions revenue recognized upon executing new transactions with market participants is driven by many factors including the level of client activity, the bid-offer spread (which is the difference between the price at which a market participant is willing to sell an instrument to the Firm and the price at which another market participant is willing to buy it from the Firm, and vice versa), market liquidity and volatility. These factors are interrelated and sensitive to the same factors that drive inventory-related revenue, which include general market conditions, such as interest rates, foreign exchange rates, credit spreads, and equity and commodity prices, as well as other macroeconomic conditions. For the periods presented below, the predominant source of principal transactions revenue was the amount recognized upon executing new transactions.

(in millions)	Three months ended September 30, 2017			Three months ended September 30, 2016		
	Fixed Income Markets	Equity Markets	Total Markets	Fixed Income Markets	Equity Markets	Total Markets
Principal transactions	\$1,837	\$ 948	\$ 2,785	\$2,622	\$ 843	\$ 3,465
Lending- and deposit-related fees	47	2	49	55	—	55
Asset management, administration and commissions	93	397	490	95	347	442
All other income	121	12	133	184	(23)	161
Noninterest revenue	2,098	1,359	3,457	2,956	1,167	4,123
Net interest income ^(a)	1,066	4	1,070	1,378	247	1,625
Total net revenue	\$3,164	\$ 1,363	\$ 4,527	\$4,334	\$ 1,414	\$ 5,748
(in millions)	Nine months ended September 30, 2017			Nine months ended September 30, 2016		
	Fixed Income Markets	Equity Markets	Total Markets	Fixed Income Markets	Equity Markets	Total Markets
Principal transactions	\$6,389	\$ 3,066	\$ 9,455	\$6,699	\$ 2,651	\$ 9,350
Lending- and deposit-related fees	144	4	148	164	1	165
Asset management, administration and commissions	300	1,230	1,530	299	1,160	1,459
All other income	505	3	508	805	(2)	803
Noninterest revenue	7,338	4,303	11,641	7,967	3,810	11,777
Net interest income ^(a)	3,257	252	3,509	3,923	780	4,703
Total net revenue	\$10,595	\$ 4,555	\$ 15,150	\$11,890	\$ 4,590	\$ 16,480
Selected metrics						

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(in millions, except where otherwise noted)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Assets under custody ("AUC") by asset class (period-end)						
(in billions):						
Fixed Income	\$12,878	\$12,857	—	\$12,878	\$12,857	—
Equity	7,439	6,440	16	7,439	6,440	16
Other ^(b)	2,421	1,927	26	2,421	1,927	26
Total AUC	\$22,738	\$21,224	7	\$22,738	\$21,224	7
Client deposits and other third party liabilities (average) ^(c)	\$421,588	\$381,542	10	\$406,184	\$371,417	9
Trade finance loans (period-end)	17,171	16,957	1	17,171	16,957	1

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

(b) Consists of mutual funds, unit investment trusts, currencies, annuities, insurance contracts, options and other contracts.

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

International metrics

(in millions, except where otherwise noted)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Total net revenue ^(a)						
Europe/Middle East/Africa	\$2,751	\$2,798	(2)%	\$8,974	\$8,078	11 %
Asia/Pacific	1,169	1,281	(9)	3,442	3,793	(9)
Latin America/Caribbean	329	307	7	914	1,031	(11)
Total international net revenue	4,249	4,386	(3)	13,330	12,902	3
North America	4,341	5,069	(14)	13,685	13,853	(1)
Total net revenue	\$8,590	\$9,455	(9)	\$27,015	\$26,755	1

Loans retained (period-end)^(a)

Europe/Middle East/Africa	\$25,677	\$32,016	(20)	\$25,677	\$32,016	(20)
Asia/Pacific	13,398	15,262	(12)	13,398	15,262	(12)
Latin America/Caribbean	6,737	8,896	(24)	6,737	8,896	(24)
Total international loans	45,812	56,174	(18)	45,812	56,174	(18)
North America	61,143	60,959	—	61,143	60,959	—
Total loans retained	\$106,955	\$117,133	(9)	\$106,955	\$117,133	(9)

Client deposits and other third-party liabilities (average)^{(a)(b)}

Europe/Middle East/Africa	\$160,778	\$138,628	16	\$154,259	\$135,201	14
Asia/Pacific	78,334	70,301	11	75,284	67,158	12
Latin America/Caribbean	25,236	22,802	11	25,126	22,555	11
Total international	\$264,348	\$231,731	14	\$254,669	\$224,914	13
North America	157,240	149,811	5	151,515	146,503	3
Total client deposits and other third-party liabilities	\$421,588	\$381,542	10	\$406,184	\$371,417	9

AUC (period-end)^(a)

(in billions)						
North America	\$13,574	\$12,685	7	\$13,574	\$12,685	7
All other regions	9,164	8,539	7	9,164	8,539	7
Total AUC	\$22,738	\$21,224	7 %	\$22,738	\$21,224	7 %

Total net revenue is based predominantly on the domicile of the client or location of the trading desk, as applicable.

(a) 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, see pages 63–65 of JPMorgan Chase’s 2016 Annual Report and Line of Business Metrics on page 174.

Selected income statement data

(in millions)	Three months ended September 30,			Nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Revenue						
Lending- and deposit-related fees	\$223	\$228	(2)%	\$690	\$687	— %
Asset management, administration and commissions	16	14	14	50	54	(7)
All other income ^(a)	353	336	5	1,034	979	6
Noninterest revenue	592	578	2	1,774	1,720	3
Net interest income	1,554	1,292	20	4,478	3,770	19
Total net revenue ^(b)	2,146	1,870	15	6,252	5,490	14
Provision for credit losses	(47)	(121)	61	(214)	158	NM
Noninterest expense						
Compensation expense	370	343	8	1,106	999	11
Noncompensation expense	430	403	7	1,309	1,191	10
Total noninterest expense	800	746	7	2,415	2,190	10
Income before income tax expense	1,393	1,245	12	4,051	3,142	29
Income tax expense	512	467	10	1,469	1,172	25
Net income	\$881	\$778	13 %	\$2,582	\$1,970	31 %

(a) Includes revenue from investment banking products and commercial card transactions.

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,

(b) as well as tax-exempt income related to municipal financing activities of \$143 million and \$127 million for the three months ended September 30, 2017 and 2016, respectively, and \$395 million and \$371 million for the nine months ended September 30, 2017 and 2016, respectively.

Quarterly results

Net income was \$881 million, an increase of 13%, driven by higher net revenue, partially offset by a lower net benefit for credit losses and higher noninterest expense.

Net revenue was \$2.1 billion, an increase of 15%. Net interest income was \$1.6 billion, an increase of 20%, driven by higher deposit spreads and loan growth.

Noninterest expense was \$800 million, an increase of 7%, largely driven by hiring of bankers and business-related support staff, and investments in technology.

The provision for credit losses was a benefit of \$47 million, driven by net reductions in the allowance for credit losses, largely in the Real Estate portfolio. The prior year provision for credit losses was a benefit of \$121 million driven by net reductions in the allowance for credit losses largely in the Oil & Gas portfolio.

Year-to-date results

Net income was \$2.6 billion, an increase of 31%, driven by higher net revenue and a lower provision for credit losses, partially offset by higher noninterest expense.

Net revenue was \$6.3 billion, up 14%. Net interest income was \$4.5 billion, up 19%, driven by higher deposit spreads and loan growth. Noninterest revenue was \$1.8 billion, up 3%, driven by higher investment banking revenue from loan syndications and equity underwriting.

Noninterest expense was \$2.4 billion, up 10%, largely driven by hiring of bankers and business-related support staff, and investments in technology.

The provision for credit losses was a benefit of \$214 million, driven by net reductions in the allowance for credit losses, including in the Oil & Gas, Natural Gas Pipelines and Metals & Mining portfolios. The prior year provision for credit losses was \$158 million reflecting net additions to the allowance for credit losses for downgrades in the Oil & Gas and Natural Gas Pipeline portfolios.

Selected income statement data (continued)

	Three months ended September 30,			Nine months ended September 30,			
(in millions, except ratios)	2017	2016	Change	2017	2016	Change	
Revenue by product							
Lending	\$1,030	\$956	8	% \$3,045	\$2,801	9	%
Treasury services	873	693	26	2,523	2,067	22	
Investment banking ^(a)	196	203	(3)	) 601	565	6	
Other	47	18	161	83	57	46	
Total Commercial Banking net revenue	\$2,146	\$1,870	15	\$6,252	\$5,490	14	
Investment banking revenue, gross ^(b)	\$570	\$600	(5)	) \$1,740	\$1,678	4	
Revenue by client segment							
Middle Market Banking ^(c)	\$848	\$706	20	\$2,471	\$2,095	18	
Corporate Client Banking ^(c)	688	622	11	2,016	1,784	13	
Commercial Term Lending	367	350	5	1,098	1,053	4	
Real Estate Banking	157	117	34	438	328	34	
Other	86	75	15	229	230	—	
Total Commercial Banking net revenue	\$2,146	\$1,870	15	% \$6,252	\$5,490	14	%
Financial ratios							
Return on equity	17	% 18	%	16	% 15	%	
Overhead ratio	37	40		39	40		

(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.

(c) Certain clients were transferred from Middle Market Banking to Corporate Client Banking in the second quarter of 2017. The prior period amounts have been revised to conform with the current period presentation.

Selected metrics

(in millions, except headcount)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Selected balance sheet data (period-end)						
Total assets	\$220,064	\$212,189	4	% \$220,064	\$212,189	4
Loans:						
Loans retained	201,463	185,609	9	201,463	185,609	9
Loans held-for-sale and loans at fair value	764	191	300	764	191	300
Total loans	\$202,227	\$185,800	9	\$202,227	\$185,800	9
Core loans	201,999	185,354	9	201,999	185,354	9
Equity	20,000	16,000	25	20,000	16,000	25
Period-end loans by client segment						
Middle Market Banking ^(a)	\$56,192	\$53,581	5	\$56,192	\$53,581	5
Corporate Client Banking ^(a)	47,682	43,517	10	47,682	43,517	10
Commercial Term Lending	74,349	69,133	8	74,349	69,133	8
Real Estate Banking	17,127	13,905	23	17,127	13,905	23
Other	6,877	5,664	21	6,877	5,664	21
Total Commercial Banking loans	\$202,227	\$185,800	9	\$202,227	\$185,800	9
Selected balance sheet data (average)						
Total assets	\$218,196	\$208,765	5	\$216,574	\$205,748	5
Loans:						
Loans retained	199,487	180,962	10	195,604	175,695	11
Loans held-for-sale and loans at fair value	675	517	31	931	516	80
Total loans	\$200,162	\$181,479	10	\$196,535	\$176,211	12
Core loans	199,920	181,016	10	196,254	175,651	12
Average loans by client segment						
Middle Market Banking ^(a)	\$55,782	\$52,646	6	\$55,239	\$51,716	7
Corporate Client Banking ^(a)	46,451	42,141	10	45,516	40,872	11
Commercial Term Lending	74,136	67,696	10	73,041	65,486	12
Real Estate Banking	16,936	13,382	27	16,205	12,597	29
Other	6,857	5,614	22	6,534	5,540	18
Total Commercial Banking loans	\$200,162	\$181,479	10	\$196,535	\$176,211	12
Client deposits and other third-party liabilities	\$176,218	\$173,696	1	\$175,402	\$172,502	2
Equity	20,000	16,000	25	20,000	16,000	25
Headcount	8,965	8,333	8	% 8,965	8,333	8

^(a) Certain clients were transferred from Middle Market Banking to Corporate Client Banking in the second quarter of 2017. The prior period amounts have been revised to conform with the current period presentation.

Selected metrics (continued)

(in millions, except ratios) Credit data and quality statistics	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Net charge-offs/(recoveries)	\$19	\$44	(57)%	\$17	\$110	(85)%
Nonperforming assets						
Nonaccrual loans:						
Nonaccrual loans retained ^(a)	\$744	\$1,212	(39)%	\$744	\$1,212	(39)%
Nonaccrual loans held-for-sale and loans at fair value	—	—	—	—	—	—
Total nonaccrual loans	\$744	\$1,212	(39)	\$744	\$1,212	(39)
Assets acquired in loan satisfactions	3	1	200	3	1	200
Total nonperforming assets	\$747	\$1,213	(38)	\$747	\$1,213	(38)
Allowance for credit losses:						
Allowance for loan losses	\$2,620	\$2,858	(8)	\$2,620	\$2,858	(8)
Allowance for lending-related commitments	323	244	32	323	244	32
Total allowance for credit losses	\$2,943	\$3,102	(5)%	\$2,943	\$3,102	(5)%
Net charge-off/(recovery) rate ^(b)	0.04	%0.10	%	0.01	%0.08	%
Allowance for loan losses to period-end loans retained	1.30	1.54		1.30	1.54	
Allowance for loan losses to nonaccrual loans retained ^(a)	352	236		352	236	
Nonaccrual loans to period-end total loans	0.37	0.65		0.37	0.65	

(a) Allowance for loan losses of \$128 million and \$221 million was held against nonaccrual loans retained at September 30, 2017 and 2016, 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, see pages 66–68 of JPMorgan Chase’s 2016 Annual Report and Line of Business Metrics on pages 174–175.

Selected income statement data

(in millions, except ratios)	Three months ended September 30,				Nine months ended September 30,			
	2017	2016	Change		2017	2016	Change	
Revenue								
Asset management, administration and commissions	\$2,240	\$2,087	7	%	\$6,556	\$6,205	6	%
All other income	150	190	(21	)	468	509	(8)
Noninterest revenue	2,390	2,277	5		7,024	6,714	5	
Net interest income	855	770	11		2,520	2,244	12	
Total net revenue	3,245	3,047	6		9,544	8,958	7	
Provision for credit losses	8	32	(75	)	30	37	(19)
Noninterest expense								
Compensation expense	1,319	1,279	3		3,928	3,769	4	
Noncompensation expense	862	851	1		3,025	2,534	19	
Total noninterest expense	2,181	2,130	2		6,953	6,303	10	
Income before income tax expense	1,056	885	19		2,561	2,618	(2)
Income tax expense	382	328	16		878	953	(8)
Net income	\$674	\$557	21		\$1,683	\$1,665	1	
Revenue by line of business								
Asset Management	\$1,587	\$1,497	6		\$4,635	\$4,420	5	
Wealth Management	1,658	1,550	7		4,909	4,538	8	
Total net revenue	\$3,245	\$3,047	6	%	\$9,544	\$8,958	7	%
Financial ratios								
Return on equity	29	% 24	%		24	% 24	%	
Overhead ratio	67	70			73	70		
Pre-tax margin ratio:								
Asset Management	34	31			22	31		
Wealth Management	32	27			31	27		
Asset & Wealth Management	33	29			27	29		

Quarterly results

Net income was \$674 million, an increase of 21%, reflecting higher net revenue partially offset by higher noninterest expense.

Net revenue was \$3.2 billion, an increase of 6%. Net interest income was \$855 million, up 11%, predominantly driven by higher deposit spreads. Noninterest revenue was \$2.4 billion, up 5%, predominantly reflecting higher market levels.

Noninterest expense was \$2.2 billion, an increase of 2%, driven by a combination of higher compensation expense and higher external fees.

Year-to-date results

Net income was \$1.7 billion, an increase of 1%, reflecting higher revenue and a tax benefit resulting from the vesting of employee-based stock awards, offset by higher noninterest expense.

Net revenue was \$9.5 billion, an increase of 7%. Net interest income was \$2.5 billion, up 12%, driven by higher deposit spreads. Noninterest revenue was \$7.0 billion, up 5%, driven by higher market levels and brokerage revenue, partially offset by the absence of a gain in the prior year on the disposal of an asset.

Noninterest expense was \$7.0 billion, an increase of 10%, driven by higher legal expense and compensation expense on higher revenue.

Selected metrics

	As of or for the three months ended September 30,			As of or for the nine months ended September 30,			
(in millions, except ranking data, headcount and ratios)	2017	2016	Change	2017	2016	Change	
% of JPM mutual fund assets rated as 4- or 5-star ^{(a)(b)}	65	% 54	%	65	% 54	%	
% of JPM mutual fund assets ranked in 1 st or 2 nd quartile: ^(c)							
1 year ^(b)	61	46		61	46		
3 years ^(b)	82	74		82	74		
5 years ^(b)	81	78		81	78		
Selected balance sheet data (period-end)							
Total assets	\$149,170	\$137,295	9	% \$149,170	\$137,295	9	%
Loans	128,038	116,043	10	128,038	116,043	10	
Core loans	128,038	116,043	10	128,038	116,043	10	
Deposits	141,409	157,274	(10)	) 141,409	157,274	(10))
Equity	9,000	9,000	—	9,000	9,000	—	
Selected balance sheet data (average)							
Total assets	\$146,388	\$134,920	8	\$142,541	\$132,090	8	
Loans	125,445	114,201	10	122,002	112,142	9	
Core loans	125,445	114,201	10	122,002	112,142	9	
Deposits	144,496	153,121	(6)	) 151,311	151,656	—	
Equity	9,000	9,000	—	9,000	9,000	—	
Headcount	22,685	21,142	7	22,685	21,142	7	
Number of Wealth Management client advisors	2,581	2,560	1	2,581	2,560	1	
Credit data and quality statistics							
Net charge-offs	\$5	\$5	—	\$10	\$16	(38))
Nonaccrual loans	337	372	(9)	) 337	372	(9))
Allowance for credit losses:							
Allowance for loan losses	\$285	\$285	—	\$285	\$285	—	
Allowance for lending-related commitments	10	5	100	10	5	100	
Total allowance for credit losses	\$295	\$290	2	% \$295	\$290	2	%
Net charge-off rate	0.02	% 0.02	%	0.01	% 0.02	%	
Allowance for loan losses to period-end loans	0.22	0.25		0.22	0.25		
Allowance for loan losses to nonaccrual loans	85	77		85	77		
Nonaccrual loans to period-end loans	0.26	0.32		0.26	0.32		

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

(c) 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 \$2.7 trillion and assets under management of \$1.9 trillion were up 9% and 10%, respectively, reflecting higher market levels, and net inflows into liquidity and long-term products.

Client assets

	September 30,			
(in billions)	2017	2016	Change	
Assets by asset class				
Liquidity	\$441	\$403	9	%
Fixed income	461	437	5	
Equity	405	357	13	
Multi-asset and alternatives	638	575	11	
Total assets under management	1,945	1,772	10	
Custody/brokerage/administration/deposits	733	675	9	
Total client assets	\$2,678	\$2,447	9	

Memo:

Alternatives client assets ^(a)	\$161	\$157	3	
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Assets by client segment

Private Banking	\$507	\$433	17	
Institutional	921	862	7	
Retail	517	477	8	
Total assets under management	\$1,945	\$1,772	10	

Private Banking	\$1,217	\$1,089	12	
Institutional	941	879	7	
Retail	520	479	9	
Total client assets	\$2,678	\$2,447	9	%

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

Client assets (continued)

	Three months ended		Nine months ended	
(in billions)	September 30,		September 30,	
	2017	2016	2017	2016
Assets under management rollforward				
Beginning balance	\$1,876	\$1,693	\$1,771	\$1,723
Net asset flows:				
Liquidity	5	18	(1)	(11)
Fixed income	17	9	24	36
Equity	(5)	(7)	(12)	(17)
Multi-asset and alternatives	9	21	26	25
Market/performance/other impacts	43	38	137	16
Ending balance, September 30	\$1,945	\$1,772	\$1,945	\$1,772

Client assets rollforward

Beginning balance	\$2,598	\$2,344	\$2,453	\$2,350
Net asset flows	25	47	37	42
Market/performance/other impacts	55	56	188	55
Ending balance, September 30	\$2,678	\$2,447	\$2,678	\$2,447

International metrics

(in millions)	As of or for the three months ended September 30,				As of or for the nine months ended September 30,			
	2017	2016	Change		2017	2016	Change	
Total net revenue ^(a)								
Europe/Middle East/Africa	\$526	\$475	11	%	\$1,482	\$1,369	8	%
Asia/Pacific	302	280	8		858	802	7	
Latin America/Caribbean	227	181	25		628	539	17	
Total international net revenue	1,055	936	13		2,968	2,710	10	
North America	2,190	2,111	4		6,576	6,248	5	
Total net revenue	\$3,245	\$3,047	6	%	\$9,544	\$8,958	7	%

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

(in billions)	As of or for the three months ended September 30,				As of or for the nine months ended September 30,			
	2017	2016	Change		2017	2016	Change	
Assets under management								
Europe/Middle East/Africa	\$357	\$314	14	%	\$357	\$314	14	%
Asia/Pacific	144	131	10		144	131	10	
Latin America/Caribbean	59	45	31		59	45	31	
Total international assets under management	560	490	14		560	490	14	
North America	1,385	1,282	8		1,385	1,282	8	
Total assets under management	\$1,945	\$1,772	10		\$1,945	\$1,772	10	

Client assets

Europe/Middle East/Africa	\$411	\$364	13		\$411	\$364	13	
Asia/Pacific	206	186	11		206	186	11	
Latin America/Caribbean	157	116	35		157	116	35	
Total international client assets	774	666	16		774	666	16	
North America	1,904	1,781	7		1,904	1,781	7	
Total client assets	\$2,678	\$2,447	9	%	\$2,678	\$2,447	9	%

CORPORATE

For a discussion of Corporate, see pages 69–70 of JPMorgan Chase's 2016 Annual Report.

Selected income statement and balance sheet data

(in millions, except headcount)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Revenue						
Principal transactions	\$(2	)\$57	NM	\$161	\$183	(12)%
Securities gains/(losses)	—	64	(100)%	(37	) 135	NM
All other income/(loss) ^(a)	111	76	46	839	319	163
Noninterest revenue	109	197	(45)	963	637	51
Net interest income	77	(385	) NM	2	(927	) NM
Total net revenue ^(b)	186	(188	) NM	965	(290	) NM
Provision for credit losses	—	(1	) 100	—	(4	) 100
Noninterest expense ^(c)	74	143	(48)	355	23	NM
Income/(loss) before income tax expense/(benefit)	112	(330	) NM	610	(309	) NM
Income tax expense/(benefit)	34	(165	) NM	(73	) 54	NM
Net income/(loss)	\$78	\$(165	) NM	\$683	\$(363	) NM
Total net revenue						
Treasury and CIO	\$265	\$(211	) NM	\$344	\$(531	) NM
Other Corporate	(79	)23	NM	621	241	158
Total net revenue	\$186	\$(188	) NM	\$965	\$(290	) NM
Net income/(loss)						
Treasury and CIO	\$75	\$(208	) NM	\$(6	) \$(518	) 99
Other Corporate	3	43	(93)	689	155	345
Total net income/(loss)	\$78	\$(165	) NM	\$683	\$(363	) NM
Total assets (period-end)	\$804,573	\$824,336	(2)	\$804,573	\$824,336	(2)
Loans (period-end)	1,614	1,738	(7)	1,614	1,738	(7)
Core loans ^(d)	1,614	1,735	(7)	1,614	1,735	(7)
Headcount	34,659	31,572	10 %	34,659	31,572	10 %

(a) Included revenue related to a legal settlement of \$645 million for the nine months ended September 30, 2017.

Included tax-equivalent adjustments, predominantly due to tax-exempt income from municipal bond investments

(b) of \$216 million and \$218 million for the three months ended September 30, 2017 and 2016, respectively, and \$681 million and \$663 million for the nine months ended September 30, 2017 and 2016, respectively.

Included legal expense/(benefit) of \$(148) million and \$(85) million for the three months ended September 30,

(c) 2017 and 2016, respectively, and \$(360) million and \$(550) million for the nine months ended September 30, 2017 and 2016, respectively.

Average core loans were \$1.7 billion and \$1.8 billion for the three months ended September 30, 2017 and 2016,

(d) respectively, and \$1.6 billion and \$1.9 billion for the nine months ended September 30, 2017 and 2016, respectively.

Quarterly results

Net income was \$78 million, compared with a net loss of \$165 million in the prior-year quarter. Net revenue was \$186 million, compared with a loss of \$188 million in the prior year, primarily due to the benefit of higher rates.

Year-to-date results

Net income was \$683 million, compared with a net loss of \$363 million in the prior year. Net revenue was \$965 million, compared with a loss of \$290 million in the prior-year. Current period net revenue was driven by a \$645 million benefit from a legal settlement with the FDIC receivership for Washington Mutual and with Deutsche Bank as trustee to certain Washington Mutual trusts; and by the net impact of higher rates. Noninterest expense was \$355 million, up \$332 million from prior year, driven by a lower legal benefit and higher compensation expense.

Treasury and CIO overview

At September 30, 2017, 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). See Note 9 for further information on the Firm's investment securities portfolio.

For further information on liquidity and funding risk, see Liquidity Risk Management on pages 68–72. For information on interest rate, foreign exchange and other risks, see Market Risk Management on pages 73–77.

Selected income statement and balance sheet data

(in millions)	As of or for the three months ended September 30,			As of or for the nine months ended September 30,		
	2017	2016	Change	2017	2016	Change
Securities gains/(losses)	\$—	\$64	(100)%	\$(49)	\$135	NM
AFS investment securities (average)	\$212,633	\$219,042	(3)	\$224,094	\$226,533	(1)%
HTM investment securities (average)	47,034	52,774	(11)	48,201	51,518	(6)
Investment securities portfolio (average)	\$259,667	\$271,816	(4)	\$272,295	\$278,051	(2)
AFS investment securities (period-end)	\$214,257	\$217,196	(1)	\$214,257	\$217,196	(1)
HTM investment securities (period-end)	47,079	52,011	(9)	47,079	52,011	(9)
Investment securities portfolio (period-end)	\$261,336	\$269,207	(3)%	\$261,336	\$269,207	(3)%

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.

Firmwide Risk Management is overseen and managed on an enterprise-wide basis. The Firm's approach to risk management covers a broad spectrum of economic and other core risk areas, such as credit, market, liquidity, model, principal, country, operational, compliance, conduct, legal, capital, and reputation risk, with controls and governance established for each area, as appropriate.

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's Operating Committee, which consists of the Firm's Chief Executive Officer ("CEO"), Chief Risk Officer ("CRO"), Chief Financial Officer ("CFO") and other senior executives, is the ultimate management escalation point in the Firm and may refer matters to the Firm's Board of Directors. The Operating Committee is responsible and accountable to the Firm's Board of Directors.

In June 2017, the Firm announced the departure of its Chief Operating Officer. As a result, his responsibilities have transitioned to other members of the Operating Committee. The Chief Investment Officer/Treasurer now reports to the Firm's CFO, and will continue to chair the Firmwide Asset Liability Committee ("ALCO"). For further discussion on the Firm's ALCO, see page 75 of JPMorgan Chase's 2016 Annual Report.

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.

The following provides an index of where in this Form 10-Q and in JPMorgan Chase's 2016 Annual Report information about the Firm's management of its key risks can be found.

Risk disclosure	Form 10-Q page reference	Annual Report page reference
Enterprise-Wide Risk Management	41–77	71–131
I. Economic risks		
Capital Risk Management	42–48	76–85
Credit Risk Management	49–66	86–107
Country Risk Management	67	108–109
Liquidity Risk Management	68–72	110–115
Market Risk Management	73–77	116–123
Principal Risk Management		124
II. Other core risks		
Compliance Risk Management		125
Conduct Risk Management		126
Legal Risk Management		127
Model Risk Management		128
Operational Risk Management		129–130
Reputation Risk Management		131

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. For a discussion of the Firm's Capital Risk Management, see pages 76–85 of JPMorgan Chase's 2016 Annual Report.

A strong capital position is essential to the Firm's business strategy and competitive position. Maintaining a strong balance sheet to manage through economic volatility is considered a strategic imperative of the Firm's Board of Directors, CEO and Operating Committee. The Firm's balance sheet philosophy focuses on risk-adjusted returns, strong capital and robust liquidity. 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. Prior to making any decisions on future business activities, senior management considers the implications on the Firm's capital. In addition to considering the Firm's earnings outlook, senior management evaluates all sources and uses of capital with a view to preserving 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 Comprehensive Capital Analysis and Review ("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. The capital governance framework requires regular monitoring of the Firm's capital positions, stress testing and escalation protocols, both at the Firm and material legal entity levels.

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 exceed both the Transitional and Fully Phased-In regulatory minimums as of September 30, 2017, and December 31, 2016. For further discussion of these capital metrics, including regulatory minimums, and the Standardized and Advanced Approaches, refer to Strategy and Governance on pages 78–82 of JPMorgan Chase's 2016 Annual Report.

September 30, 2017 (in millions, except ratios)	Transitional		Fully Phased-In		Minimum		Minimum	
	Standardized	Advanced	Standardized	Advanced	capital ratios	capital ratios	capital ratios	capital ratios
Risk-based capital metrics:								
CET1 capital	\$187,061	\$187,061	\$186,831	\$186,831				
Tier 1 capital	212,297	212,297	212,196	212,196				
Total capital	242,949	232,794	241,668	231,513				
Risk-weighted assets	1,482,267	1,443,019	1,491,954	1,453,287				
CET1 capital ratio	12.6	% 13.0	% 7.5	% 12.5	% 12.9	% 10.5	%	%
Tier 1 capital ratio	14.3	14.7	9.0	14.2	14.6	12.0		
Total capital ratio	16.4	16.1	11.0	16.2	15.9	14.0		
Leverage-based capital metrics								
Adjusted average assets ^(a)	\$2,521,889	\$2,521,889	\$2,522,504	\$2,522,504				
Tier 1 leverage ratio ^(b)	8.4	% 8.4	% 4.0	% 8.4	% 8.4	% 4.0	%	%
Total leverage exposure	NA	\$3,211,053	NA	\$3,211,667				
SLR ^(c)	NA	6.6	% NA	NA	6.6	% 5.0	%	% ^(d)
December 31, 2016 (in millions, except ratios)	Transitional		Fully Phased-In		Minimum		Minimum	
	Standardized	Advanced	Standardized	Advanced	capital ratios	capital ratios	capital ratios	capital ratios
Risk-based capital metrics:								
CET1 capital	\$182,967	\$182,967	\$181,734	\$181,734				
Tier 1 capital	208,112	208,112	207,474	207,474				
Total capital	239,553	228,592	237,487	226,526				
Risk-weighted assets	1,464,981	1,476,915	1,474,665	1,487,180				
CET1 capital ratio	12.5	% 12.4	% 6.25	% 12.3	% 12.2	% 10.5	%	%
Tier 1 capital ratio	14.2	14.1	7.75	14.1	14.0	12.0		
Total capital ratio	16.4	15.5	9.75	16.1	15.2	14.0		
Leverage-based capital metrics								
Adjusted average assets ^(a)	\$2,484,631	\$2,484,631	\$2,485,480	\$2,485,480				
Tier 1 leverage ratio ^(b)	8.4	% 8.4	% 4.0	% 8.3	% 8.3	% 4.0	%	%
Total leverage exposure	NA	\$3,191,990	NA	\$3,192,839				
SLR ^(c)	NA	6.5	% NA	NA	6.5	% 5.0	%	% ^(d)

Note: As of September 30, 2017, and December 31, 2016, 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, as discussed in Risk-based capital regulatory minimums on page 44.

Adjusted average assets, for purposes of calculating the Tier 1 leverage ratio, includes total quarterly average assets adjusted for unrealized gains/(losses) on available-for-sale ("AFS") securities, less deductions for goodwill and other intangible assets, defined benefit pension plan assets, and deferred tax assets related to net operating loss ("NOL") and tax credit carryforwards.

(b) The Tier 1 leverage ratio is calculated by dividing Tier 1 capital by adjusted average assets.

(c) The SLR leverage ratio is calculated by dividing Tier 1 capital by total leverage exposure. For additional information on total leverage exposure, see SLR on page 46.

(d) In the case of the SLR, the Fully Phased-In minimum ratio is effective January 1, 2018.

Basel III overview

Capital rules under Basel III establish minimum capital ratios and overall capital adequacy standards for large and internationally active U.S. bank holding companies and banks, including the Firm and its insured depository institution (“IDI”) subsidiaries. Basel III sets forth two comprehensive approaches for calculating RWA: a standardized approach (“Basel III Standardized”), and an advanced approach (“Basel III Advanced”). Certain of the requirements of Basel III are subject to phase-in periods that began on January 1, 2014 and continue through the end of 2018 (“transitional period”).

Basel III establishes capital requirements for calculating credit risk and market risk RWA, and in the case of Basel III Advanced, operational risk RWA. In addition to the RWA calculated under these methodologies, the Firm may supplement such amounts to incorporate management judgment and feedback from its bank regulators. For additional information on Basel III methodology refer to Basel III Overview on pages 78-80 of JPMorgan Chase’s 2016 Annual Report.

Basel III also includes a requirement for Advanced Approach banking organizations, including the Firm, to calculate the SLR. For additional information on the SLR, see page 46.

Basel III Fully Phased-In

Basel III capital rules will become fully phased-in on January 1, 2019, at which point the Firm will continue to calculate its capital ratios under both the Basel III Standardized and Advanced Approaches. In the case of the SLR, the Fully Phased-In well-capitalized ratio is effective January 1, 2018. The Firm manages each of the businesses, as well as the corporate functions, primarily on a Basel III Fully Phased-In basis.

For additional information on the Firm, JPMorgan Chase Bank, N.A. and Chase Bank USA, N.A.’s capital, RWA and capital ratios under the Basel III Standardized and Advanced Fully Phased-In rules and SLRs calculated under the Basel III Advanced Fully Phased-In rules, all of which are considered key regulatory capital measures, see Explanation and Reconciliation of the Firm’s Use of Non-GAAP Financial Measures and Key Performance Measures on pages 15–17.

The Basel III Standardized and Advanced Fully Phased-In capital, RWA and capital ratios, and SLRs for the Firm, JPMorgan Chase Bank, N.A. and Chase Bank USA, N.A. are based on the current published U.S. Basel III rules.

Risk-based capital regulatory minimums

The capital adequacy of the Firm and its IDI subsidiaries, both during the transitional period and upon full phase-in, is evaluated against the lower of the two ratios as calculated under the Basel III approaches (Standardized or Advanced) 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 Basel III rules include minimum capital ratio requirements that are subject to phase-in periods through the end of 2018. In addition to having to maintain the CET1 minimum capital ratio of 4.5%, the Firm is also required to hold additional amounts of capital to serve as a “capital conservation buffer.” As an expansion of the capital conservation buffer, the Firm is also required to hold additional levels of capital in the form of a GSIB surcharge and a countercyclical capital buffer. For additional information on minimum capital ratios, the capital conservation buffer, the countercyclical buffer, and the GSIB surcharge, refer to Risk-based capital regulatory minimums on pages 79-80

of JPMorgan Chase's 2016 Annual Report.

The Firm believes that it will operate with a Basel III CET1 capital ratio between 11% and 12.5% over time. It is the Firm's intention that the Firm's capital ratios will continue to meet regulatory minimums as they are fully implemented in 2019 and thereafter.

The following table represents the ratios the Firm and its IDI subsidiaries must maintain to meet the definition of "well-capitalized" under the regulations issued by the Federal Reserve and the Prompt Corrective Action ("PCA") requirements of the FDIC Improvement Act ("FDICIA"), respectively.

	Well-capitalized ratios	
	BHC	IDI
Capital ratios		
CET1	—%	6.5
Tier 1 capital	6.0	8.0
Total capital	10.0	10.0
Tier 1 leverage	—	5.0
SLR ^(a)	5.0	6.0

(a) In the case of the SLR, the Fully Phased-In well-capitalized ratio is effective January 1, 2018.

Additional information regarding the Firm's capital ratios, as well as the U.S. federal regulatory capital standards to which the Firm is subject, is presented in Note 18.

For further information on the Firm's Basel III measures, see the Firm's Pillar 3 Regulatory Capital Disclosures reports, which are available on the Firm's website (<http://investor.shareholder.com/jpmorganchase/basel.cfm>).

Capital

The following table presents reconciliations of total stockholders' equity to Basel III Fully Phased-In CET1 capital, Tier 1 capital and Basel III Advanced and Standardized Fully Phased-In Total capital as of September 30, 2017 and December 31, 2016.

For additional information on the components of regulatory capital, see Note 18.

Capital components

(in millions)	September 30, 2017	December 31, 2016
Total stockholders' equity	\$ 258,382	\$ 254,190
Less: Preferred stock	26,068	26,068
Common stockholders' equity	232,314	228,122
Less:		
Goodwill	47,309	47,288
Other intangible assets	808	862
Add:		
Deferred tax liabilities ^(a)	3,271	3,230
Less: Other CET1 capital adjustments	637	1,468
Standardized/Advanced Fully Phased-In CET1 capital	186,831	181,734
Preferred stock	26,068	26,068
Less:		
Other Tier 1 adjustments ^(b)	703	328
Standardized/Advanced Fully Phased-In Tier 1 capital	\$ 212,196	\$ 207,474
Long-term debt and other instruments qualifying as Tier 2 capital	\$ 14,929	\$ 15,253
Qualifying allowance for credit losses	14,648	14,854
Other	(105)	(94)
Standardized Fully Phased-In Tier 2 capital	\$ 29,472	\$ 30,013
Standardized Fully Phased-In Total capital	\$ 241,668	\$ 237,487
Adjustment in qualifying allowance for credit losses for Advanced Tier 2 capital	(10,155)	(10,961)
Advanced Fully Phased-In Tier 2 capital	\$ 19,317	\$ 19,052
Advanced Fully Phased-In Total capital	\$ 231,513	\$ 226,526

(a) Represents 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.

Includes the deduction associated with the permissible holdings of covered funds (as defined by the Volcker Rule)

(b) acquired after December 31, 2013. The deduction was not material as of September 30, 2017 and December 31, 2016.

The following table presents reconciliations of the Firm's Basel III Transitional CET1 capital to the Firm's Basel III Fully Phased-In CET1 capital as of September 30, 2017 and December 31, 2016.

(in millions)	September 30, 2017	December 31, 2016
Transitional CET1 capital	\$ 187,061	\$ 182,967
AOCI phase-in ^(a)	106	(156)
CET1 capital deduction phase-in ^(b)	(183)	(695)
Intangibles deduction phase-in ^(c)	(148)	(312)
Other adjustments to CET1 capital ^(d)	(5)	(70)
Fully Phased-In CET1 capital	\$ 186,831	\$ 181,734

(a)

Includes the remaining balance of accumulated other comprehensive income (“AOCI”) related to AFS debt securities and defined benefit pension and other postretirement employee benefit (“OPEB”) plans that will qualify as Basel III CET1 capital upon full phase-in.

(b) Predominantly includes regulatory adjustments related to changes in DVA, as well as CET1 deductions for defined benefit pension plan assets and deferred tax assets related to NOL and tax credit carryforwards.

(c) Relates to intangible assets, other than goodwill and MSRs, that are required to be deducted from CET1 capital upon full phase-in.

(d) Includes minority interest and the Firm’s investments in its own CET1 capital instruments.

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 nine months ended September 30, 2017.

Nine months ended September 30, (in millions)	2017
Standardized/Advanced CET1 capital at December 31, 2016	\$181,734
Net income applicable to common equity	18,974
Dividends declared on common stock	(5,587)
Net purchase of treasury stock	(9,131)
Changes in additional paid-in capital	(930)
Changes related to AOCI	748
Adjustment related to DVA ^(a)	402
Other	621
Increase in Standardized/Advanced CET1 capital	5,097
Standardized/Advanced CET1 capital at September 30, 2017	\$186,831
Standardized/Advanced Tier 1 capital at December 31, 2016	\$207,474
Change in CET1 capital	5,097
Net issuance of noncumulative perpetual preferred stock	—
Other	(375)
Increase in Standardized/Advanced Tier 1 capital	4,722
Standardized/Advanced Tier 1 capital at September 30, 2017	\$212,196
Standardized Tier 2 capital at December 31, 2016	\$30,013
Change in long-term debt and other instruments qualifying as Tier 2	(324)
Change in qualifying allowance for credit losses	(206)
Other	(11)
Decrease in Standardized Tier 2 capital	(541)
Standardized Tier 2 capital at September 30, 2017	\$29,472
Standardized Total capital at September 30, 2017	\$241,668
Advanced Tier 2 capital at December 31, 2016	\$19,052
Change in long-term debt and other instruments qualifying as Tier 2	(324)
Change in qualifying allowance for credit losses	600
Other	(11)
Increase in Advanced Tier 2 capital	265
Advanced Tier 2 capital at September 30, 2017	\$19,317
Advanced Total capital at September 30, 2017	\$231,513
(a) Includes DVA recorded in other comprehensive income (“OCI”).	

RWA rollforward

The following table presents changes in the components of RWA under Basel III Standardized and Advanced Fully Phased-In for the nine months ended September 30, 2017. The amounts in the rollforward categories are estimates, based on the predominant driver of the change.

Nine months ended September 30, 2017 (in millions)	Standardized			Advanced			Operational risk RWA	Total RWA
	Credit risk RWA	Market risk RWA	Total RWA	Credit risk RWA	Market risk RWA	Total RWA		
At December 31, 2016	\$ 1,346,986	\$ 127,679	\$ 1,474,665	\$ 959,523	\$ 127,657	\$ 1,087,180	\$ 400,000	\$ 1,487,180
Model & data changes ^(a)	(5,379)	4,539	(840)	(6,081)	4,539	(1,542)	—	(1,542)
Portfolio runoff ^(b)	(11,600)	—	(11,600)	(14,300)	—	(14,300)	—	(14,300)
Movement in portfolio levels ^(c)	32,220	(2,491)	29,729	(15,622)	(2,429)	(18,051)	—	(18,051)
Changes in RWA	15,241	2,048	17,289	(36,003)	2,110	(33,893)	—	(33,893)
September 30, 2017	\$ 1,362,227	\$ 129,727	\$ 1,491,954	\$ 923,520	\$ 129,767	\$ 1,053,287	\$ 400,000	\$ 1,453,287

(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 (under both the Standardized and Advanced approaches) reduced risk from position rollovers in legacy portfolios in Mortgage Banking, the sale of substantially all of the student loan portfolio during the second quarter of 2017, and the sale of reverse mortgages during the third quarter of 2017.

(c) Movement in portfolio levels for credit risk RWA refers to changes in book size, composition, credit quality, and market movements; and for market risk RWA refers to changes in position and market movements.

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 on SLR, see Capital Risk Management on page 82 of JPMorgan Chase's 2016 Annual Report.

The following table presents the components of the Firm's Fully Phased-In SLR as of September 30, 2017 and December 31, 2016.

(in millions, except ratio)	September 30, 2017	December 31, 2016
Tier 1 capital	\$212,196	\$207,474
Total average assets	2,569,231	2,532,457
Less: Adjustments for deductions from Tier 1 capital	46,727	46,977
Total adjusted average assets ^(a)	2,522,504	2,485,480
Off-balance sheet exposures ^(b)	689,163	707,359
Total leverage exposure	\$3,211,667	\$3,192,839
SLR	6.6%	6.5%

Adjusted average assets, for purposes of calculating the SLR, includes total quarterly average assets adjusted for (a) 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 September 30, 2017, JPMorgan Chase Bank, N.A.'s and Chase Bank USA, N.A.'s Fully Phased-In SLRs are approximately 6.8% and 11.1%, respectively.

Line of business equity

The Firm's framework for allocating capital to its business segments (line of business equity) is based on the following objectives:

- Integrate Firmwide and line of business capital risk management activities;
- Measure performance consistently across all lines of business; and
- Provide comparability with peer firms for each of the lines of business.

Each business segment is allocated capital by taking into consideration stand-alone peer comparisons and regulatory capital requirements. ROE is measured and internal targets for expected returns are established as key measures of a business segment's performance.

Line of business equity

	September 30, December 31,	
(in billions)	2017	2016
Consumer & Community Banking	\$ 51.0	\$ 51.0
Corporate & Investment Bank	70.0	64.0
Commercial Banking	20.0	16.0
Asset & Wealth Management	9.0	9.0
Corporate	82.3	88.1
Total common stockholders' equity	\$ 232.3	\$ 228.1

Effective January 1, 2017, the Firm's methodology used to allocate capital to the business segments was updated. For additional information on the new methodology, see Business Segment Results on pages 18–40.

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, 2017, the Federal Reserve informed the Firm that it did not object, on either a quantitative or qualitative basis, to the Firm's 2017 capital plan.

Capital actions

Preferred stock

Preferred stock dividends declared were \$412 million and \$1.2 billion for the three and nine months ended September 30, 2017.

On October 20, 2017, the Firm issued \$1.3 billion of fixed-to-floating rate non-cumulative preferred stock, Series CC, with an initial dividend rate of 4.625%. On October 31, 2017, the Firm announced that it will redeem all \$1.3 billion of its outstanding 5.50% non-cumulative preferred stock, Series O, on December 1, 2017. For additional information on the Firm's preferred stock, see Note 22 of JPMorgan Chase's 2016 Annual Report.

Common stock dividends

On September 19, 2017, the Firm announced that its Board of Directors had declared a quarterly common stock dividend of \$0.56 per share, effective with the dividend paid on October 31, 2017. The Firm's dividends are subject to the Board of Directors' approval on a quarterly basis.

Common equity

Effective as of June 28, 2017, the Firm's Board of Directors authorized the repurchase of up to \$19.4 billion of common equity (common stock and warrants) between July 1, 2017 and June 30, 2018, as part of its annual capital plan.

There were 16.5 million and 24.9 million warrants outstanding at September 30, 2017 and December 31,

2016, respectively.

The following table sets forth the Firm's repurchases of common equity for the three and nine months ended September 30, 2017 and 2016. There were no repurchases of warrants during the three and nine months ended September 30, 2017 and 2016.

	Three months ended		Nine months ended	
	September 30,		September 30,	
(in millions)	2017	2016	2017	2016
Total shares of common stock repurchased	51.7	35.6	118.8	110.6
Aggregate common stock repurchases	\$4,763	\$2,295	\$10,602	\$6,831

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; may be executed through open market purchases or privately negotiated transactions, or utilizing Rule 10b5-1 programs; and may be suspended at any time.

For additional information regarding repurchases of the Firm's equity securities, see Part II, Item 5: Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities on page 22 of

JPMorgan Chase's 2016 Form 10-K.

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Other capital requirements

TLAC

On December 15, 2016, the Federal Reserve issued its final Total Loss Absorbing Capacity (“TLAC”) rule which requires the top-tier holding companies of eight U.S. global systemically important bank holding companies, including the Firm, to maintain minimum levels of external TLAC and external long-term debt that satisfies certain eligibility criteria (“eligible LTD”) effective January 1, 2019.

The minimum external TLAC and the minimum level of eligible long-term debt requirements are shown below:

(a) RWA is the greater of Standardized and Advanced.

The final TLAC rule permanently grandfathered all long-term debt issued before December 31, 2016, to the extent these debt securities would be ineligible because they contained impermissible acceleration rights or were governed by non-U.S. law. As of September 30, 2017, the Firm is compliant with the requirements under the current rule to which it will be subject on January 1, 2019.

Broker-dealer regulatory capital

JPMorgan Securities

JPMorgan Chase’s principal U.S. broker-dealer subsidiary is JPMorgan Securities. JPMorgan Securities is subject to Rule 15c3-1 under the Securities Exchange Act of 1934 (the “Net Capital Rule”). JPMorgan Securities is also registered as futures commission merchants and subject to Rule 1.17 of the Commodity Futures Trading Commission (“CFTC”). JPMorgan Securities has elected to compute its minimum net capital requirements in accordance with the “Alternative Net Capital Requirements” of the Net Capital Rule.

In accordance with the market and credit risk standards of Appendix E of the Net Capital Rule, JPMorgan 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 and is also required to notify the Securities and Exchange Commission (“SEC”) in the event that tentative net capital is less than \$5.0 billion. As of September 30, 2017, JPMorgan Securities maintained tentative net capital in excess of the minimum and notification requirements.

The following table presents JPMorgan Securities’ net capital information:

September 30, 2017 Net Capital

(in billions) Actual Minimum

JPMorgan Securities \$ 15.6 \$ 2.8

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:

September 30, 2017	Total capital	CET1 ratio	Total capital ratio
(in billions, except ratios)	Estimated	Estimated	Minimum
J.P. Morgan Securities plc	\$ 39.6	15.9	4.5
			15.9
			8.0

CREDIT RISK MANAGEMENT

Credit risk is the risk of loss arising from the default of a customer, client or counterparty. The Firm provides credit to a variety of customers, ranging from large corporate and institutional clients to individual consumers and small businesses. For a further discussion of the Firm's Credit Risk Management framework and organization, and the identification, monitoring and management of credit risks, see Credit Risk Management on pages 86–107 of JPMorgan Chase's 2016 Annual Report.

In the following tables, total 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 certain loans the Firm accounts for at fair value and classifies as trading assets. For further information regarding these loans, see Notes 2 and 3. For additional information on the Firm's loans, lending-related commitments and derivative receivables, including the Firm's accounting policies, see Notes 11, 19, and 4, respectively.

For further information regarding the credit risk inherent in the Firm's cash placed with banks, see Wholesale credit exposure – industry exposures on pages 58–60; for information regarding the credit risk inherent in the Firm's investment securities portfolio, see Note 9 of this Form 10-Q, and Note 12 of JPMorgan Chase's 2016 Annual Report; and for information regarding the credit risk inherent in the securities financing portfolio, see Note 10 of this Form 10-Q, and Note 13 of JPMorgan Chase's 2016 Annual Report.

Total credit portfolio

(in millions)	Credit exposure		Nonperforming ^{(b)(c)}	
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Loans retained	\$909,182	\$889,907	\$ 5,628	\$ 6,721
Loans held-for-sale	2,833	2,628	5	162
Loans at fair value	1,746	2,230	—	—
Total loans	913,761	894,765	5,633	6,883
Derivative receivables	58,260	64,078	164	223
Receivables from customers and other	19,350	17,560	—	—
Total credit-related assets	991,371	976,403	5,797	7,106
Assets acquired in loan satisfactions				
Real estate owned	NA	NA	322	370
Other	NA	NA	35	59
Total assets acquired in loan satisfactions	NA	NA	357	429
Total assets	991,371	976,403	6,154	7,535
Lending-related commitments	1,002,092	976,702	764	506
Total credit portfolio	\$1,993,463	\$1,953,105	\$ 6,918	\$ 8,041
Credit derivatives used in credit portfolio management activities ^(a)	\$(20,181)	\$(22,114)	\$ —	\$ —
Liquid securities and other cash collateral held against derivatives	(21,353)	(22,705)	NA	NA
(in millions, except ratios)	Three months ended September 30,		Nine months ended September 30,	
	2017	2016	2017	2016
Net charge-offs ^(d)	\$1,265	\$1,121	\$4,123	\$3,412
Average retained loans				
Loans	903,892	869,676	894,170	853,973
Loans – excluding residential real estate PCI loans	871,465	831,956	860,443	814,923
Net charge-off rates ^(d)				

Loans	0.56	%0.51	% 0.62	%0.53	%
Loans – excluding PCI	0.58	0.54	0.64	0.56	

Represents the net notional amount of protection purchased and sold through credit derivatives used to manage (a) both performing and nonperforming wholesale credit exposures; these derivatives do not qualify for hedge accounting under U.S. GAAP. For additional information, see Credit derivatives on page 63 and Note 4.

(b) Excludes PCI loans. The Firm is recognizing interest income on each pool of PCI loans as they are all performing. At September 30, 2017, and December 31, 2016, nonperforming assets excluded: (1) mortgage loans insured by U.S. government agencies of \$4.0 billion and \$5.0 billion, respectively, that are 90 or more days past due; (2) student loans insured by U.S. government agencies under the FFELP of zero and \$263 million, respectively, that (c) are 90 or more days past due; and (3) real estate owned (“REO”) insured by U.S. government agencies of \$99 million and \$142 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”).

For the nine months ended September 30, 2017, excluding net charge-offs of \$467 million related to the student (d) loan portfolio transfer, the net charge-off rate for loans would have been 0.55% and for loans – excluding PCI would have been 0.57%. For additional information refer to CCB segment results on page 21.

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, and 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, see Note 11 of this Form 10-Q and Consumer Credit Portfolio on pages 89–95 and Note 14 of JPMorgan Chase's 2016 Annual Report. For further information on lending-related commitments, see Note 19 of this Form 10-Q.

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.

Consumer credit portfolio

(in millions, except ratios)	Credit exposure		Nonaccrual loans ^{(k)(l)}		Net charge-offs ^{(m)(p)}		Three months ended September 30,		Average annual net charge-off rate ^{(m)(n)(o)}		Nine months ended September 30,		Average annual net charge-off rate ^{(e)(m)(n)(o)}	
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	2017	2016	2017	2016	2017	2016	2017	2016	2017	2016
Consumer, excluding credit card														
Loans, excluding PCI loans and loans held-for-sale														
Home equity	\$34,657	\$39,063	\$1,601	\$1,845	\$13	\$45	0.15	%0.43	%	\$71	\$140	0.26	%0.43	%
Residential mortgage ^(a)	212,558	192,486	2,095	2,256	3	9	0.01	0.02		3	13	—	0.01	
Auto ^{(b)(c)}	65,102	65,814	188	214	116	79	0.71	0.49		245	192	0.50	0.41	
Consumer & Business Banking ^{(a)(c)(d)}	25,275	24,307	274	287	71	71	1.12	1.19		184	180	0.99	1.04	
Student ^{(a)(e)}	—	7,057	—	165	—	32	—	1.70		498	98	NM	1.69	
Total loans, excluding PCI loans and loans held-for-sale	337,592	328,727	4,158	4,767	203	236	0.24	0.29		1,001	623	0.40	0.26	
Loans – PCI														
Home equity	11,321	12,902	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Prime mortgage	6,747	7,602	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Subprime mortgage	2,691	2,941	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Option ARMs ^(f)	11,062	12,234	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Total loans – PCB	1,821	35,679	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Total loans – retained	369,413	364,406	4,158	4,767	203	236	0.22	0.26		1,001	623	0.37	0.23	
	188	(j) 238	(j) 3	53	—	—	—	—		—	—	—	—	

Loans												
held-for-sale												
Total consumer,												
excluding credit	369,601	364,644	4,161	4,820	203	236	0.22	0.26	1,001	623	0.37	0.23
card loans												
Lending-related												
commitments ^(g)	55,071	54,797										
Receivables												
from	132	120										
customers ^(h)												
Total consumer												
exposure,												
excluding credit	424,804	419,561										
card												
Credit card												
Loans retained ⁽ⁱ⁾	141,200	141,711	—	—	1,019	838	2.87	2.51	3,049	2,528	2.94	2.61
Loans												
held-for-sale	113	105	—	—	—	—	—	—	—	—	—	—
Total credit card												
loans	141,313	141,816	—	—	1,019	838	2.87	2.51	3,049	2,528	2.94	2.61
Lending-related												
commitments ^(g)	574,641	553,891										
Total credit card												
exposure	715,954	695,707										
Total consumer												
credit portfolio	\$1,140,758	\$1,115,268	\$4,161	\$4,820	\$1,222	\$1,074	0.95 %	0.86 %	\$4,050	\$3,151	1.07 %	0.87 %
Memo: Total												
consumer credit												
portfolio,	\$1,108,937	\$1,079,589	\$4,161	\$4,820	\$1,222	\$1,074	1.02 %	0.93 %	\$4,050	\$3,151	1.15 %	0.94 %
excluding PCI												

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

(b) At September 30, 2017, and December 31, 2016, excluded operating lease assets of \$16.2 billion and \$13.2 billion, respectively. These operating lease assets are included in other assets on the Firm's Consolidated balance sheets.

(c) 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.

(d) Predominantly includes Business Banking loans.

(e) For the nine months ended September 30, 2017, excluding net charge-offs of \$467 million related to the student loan portfolio transfer, the net charge-off rate for Total consumer, excluding credit card and PCI loans and loans held-for-sale would have been 0.22%; Total consumer—retained excluding credit card loans would have been 0.20%; Total consumer credit portfolio would have been 0.95%; and Total consumer credit portfolio, excluding PCI loans would have been 1.02%. For additional information refer to CCB segment results on page 21.

(f) At September 30, 2017, and December 31, 2016, approximately 68% and 66%, respectively, of the PCI option adjustable rate mortgage ("ARM") portfolio has been modified into fixed-rate, fully amortizing loans.

(g) 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 and home equity commitments (if certain conditions are met), 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.

Receivables from customers represent margin loans to brokerage customers that are collateralized through assets (h) 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.

- (i) Includes billed interest and fees net of an allowance for uncollectible interest and fees.
- (j) Includes residential mortgage loans held-for-sale at both September 30, 2017 and December 31, 2016. Also includes student loans held-for-sale at September 30, 2017.

At September 30, 2017 and December 31, 2016, nonaccrual loans excluded loans 90 or more days past due as follows: (1) mortgage loans insured by U.S. government agencies of \$4.0 billion and \$5.0 billion, respectively; and (2) student loans insured by U.S. government agencies under the FFELP of zero and \$263 million, respectively. (k) 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.

- (l) Excludes PCI loans. The Firm is recognizing interest income on each pool of PCI loans as they are all performing. Net charge-offs and the net charge-off rates excluded write-offs in the PCI portfolio of \$20 million and \$36 million for the three months ended September 30, 2017 and 2016, respectively, and \$66 million and \$124 million (m) for the nine months ended September 30, 2017 and 2016, respectively. These write-offs decreased the allowance for loan losses for PCI loans. See Allowance for Credit Losses on pages 64–66 for further details.

Net charge-offs and net charge-off rates for the three and nine months ended September 30, 2017 included \$63 million of incremental charge-offs recorded in accordance with regulatory guidance regarding the timing of loss (n) recognition for certain auto and residential real estate loans in bankruptcy and auto loans where assets were acquired in loan satisfaction.

Average consumer loans held-for-sale were \$339 million and \$337 million for the three months ended September (o) 30, 2017 and 2016, respectively, and \$1.9 billion and \$372 million for the nine months ended September 30, 2017 and 2016, respectively. These amounts were excluded when calculating net charge-off rates.

Consumer, excluding credit card

Portfolio analysis

Consumer loan balances increased from December 31, 2016 predominantly due to originations of high-quality prime mortgage loans that have been retained on the balance sheet, partially offset by the sale of the student loan portfolio as well as paydowns and the charge-off or liquidation of delinquent loans. The credit environment remained favorable as a result of low unemployment levels and increases in home prices.

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, see Note 11 of this Form 10-Q.

Home equity: The home equity portfolio declined from December 31, 2016 primarily reflecting loan paydowns and charge-offs. Both early-stage and late-stage delinquencies showed improvement from December 31, 2016. Nonaccrual loans decreased from December 31, 2016 primarily as a result of loss mitigation activities. Net charge-offs for the three and nine months ended September 30, 2017 declined when compared with the same periods of the prior year, partially as a result of lower loan balances.

At September 30, 2017, approximately 90% of the Firm's home equity portfolio consists of home equity lines of credit ("HELOCs") and the remainder consists of home equity loans ("HELOANs"). For further information on the Firm's home equity portfolio, see Note 11 of this Form 10-Q and Consumer Credit Portfolio on pages 89–95 of JPMorgan Chase's 2016 Annual Report.

The carrying value of HELOCs outstanding was \$31 billion at September 30, 2017. Of such amounts, \$14 billion have recast from interest-only to fully amortizing payments or have been modified. Of the remaining \$17 billion, approximately:

- \$12 billion are scheduled to recast from interest-only to fully amortizing payments in future periods, and
- \$5 billion are interest-only balloon HELOCs, which primarily mature after 2030.

The following chart illustrates the payment recast composition of the approximately \$17 billion of HELOCs scheduled to recast in the future, based upon their current contractual terms.

HELOCs scheduled to recast

(at September 30, 2017)

The Firm has considered this payment recast risk in its allowance for loan losses based upon the estimated amount of payment shock (i.e., the excess of the fully-amortizing payment over the interest-only payment in effect prior to recast) resulting from the increase in the monthly payment expected to occur at the payment recast date, along with the corresponding estimated probability of default (“PD”) and loss severity assumptions. As part of its allowance estimate, the Firm also expects, based on observed activity in recent years, that approximately 25% of the carrying value of HELOCs scheduled to recast will voluntarily pre-pay prior to or after the recast. The HELOCs that have previously recast to fully amortizing payments generally have higher delinquency rates than the HELOCs within the revolving period, primarily as a result of the payment shock at the time of recast. Certain other factors, such as future developments in both unemployment rates and home prices, could also have a significant impact on the performance of these loans.

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 will continue to evaluate both the near-term and longer-term recast risks inherent in its HELOC portfolio to ensure that changes in the Firm's estimate of incurred losses are appropriately considered in the allowance for loan losses and that the Firm's account management practices are appropriate given the portfolio's risk profile.

Junior lien loans where the borrower has a senior lien loan that is either delinquent or has been modified are considered high-risk seconds. Such loans are considered to pose a higher risk of default than junior lien loans for which the senior lien is neither delinquent nor modified. At September 30, 2017, the Firm estimated that the carrying value of its home equity portfolio contained approximately \$0.8 billion of current junior lien loans that were considered high risk seconds, compared with \$1.1 billion at December 31, 2016. The Firm estimates the balance of its total exposure to high-risk seconds on a quarterly basis using internal data and loan level credit bureau data (which typically provides the delinquency status of the senior lien). The Firm considers the increased PD associated with these high-risk seconds in estimating the allowance for loan losses and classifies those loans that are subordinated to a first lien loan that is more than 90 days delinquent as nonaccrual loans. The estimated balance of these high-risk seconds may vary from quarter to quarter for reasons such as the movement of related senior liens into and out of the 30+ day delinquency bucket. The Firm continues to monitor the risks associated with these loans. For further information, see Note 11.

Residential mortgage: The residential mortgage portfolio predominantly consists of high-quality prime mortgage loans, with a small component (approximately 1%) of the residential mortgage portfolio consisting of subprime mortgage loans. 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, 2016 due to retained originations of primarily high-quality fixed rate prime mortgage loans partially offset by paydowns and the charge-off or liquidation of delinquent loans. Both early-stage and late-stage delinquencies showed improvement from December 31, 2016. Nonaccrual loans decreased from December 31, 2016 primarily as a result of loss mitigation activities. Net charge-offs for the three and nine months ended September 30, 2017 remain low, reflecting continued improvement in home prices and delinquencies.

At September 30, 2017, and December 31, 2016, the Firm's residential mortgage portfolio, including loans held-for-sale, included \$8.4 billion and \$9.5 billion, respectively, of mortgage loans insured and/or guaranteed by U.S. government agencies, of which \$5.9 billion and \$7.0 billion, respectively, were 30 days or more past due (of these past due loans, \$4.0 billion and \$5.0 billion, respectively, were

90 days or more past due). 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.

At September 30, 2017, and December 31, 2016, the Firm's residential mortgage portfolio included \$19.8 billion and \$19.1 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 and the Firm's expectations. The Firm continues to monitor the risks associated with these loans.

Auto: Auto loans were relatively flat compared with December 31, 2016, as paydowns and the charge-off or liquidation of delinquent loans were largely offset by new originations. Nonaccrual loans decreased compared with December 31, 2016. Net charge-offs for the three and nine months ended September 30, 2017 increased compared with the same period in the prior year, primarily as a result of an incremental \$49 million recorded in accordance with regulatory guidance regarding the timing of loss recognition for certain loans in bankruptcy and loans where assets were acquired in loan satisfaction. The auto portfolio predominantly consists of prime-quality loans.

Consumer & Business Banking: Consumer & Business Banking loans increased compared with December 31, 2016, as growth in loan originations was partially offset by paydowns and the charge-off or liquidation of delinquent loans. Nonaccrual loans decreased compared with December 31, 2016. Net charge-offs for the three and nine months ended September 30, 2017 were relatively flat compared to the prior year.

Student: The Firm transferred the student loan portfolio to held-for-sale in the first quarter of 2017 and sold substantially all of the portfolio in the second quarter of 2017. Net charge-offs for the nine months ended September 30, 2017 increased as a result of the write-down of the portfolio at the time of the transfer.

Purchased credit-impaired loans: PCI loans decreased as the portfolio continues to run off. As of September 30, 2017, 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. 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 ^(b)	
(in billions)	Sep 30 2017	Dec 31, 2016	Sep 30 2017	Dec 31, 2016
Home equity	\$ 14.2	\$ 14.4	\$ 12.9	\$ 12.8
Prime mortgage	4.0	4.0	3.8	3.7
Subprime mortgage	3.3	3.2	3.1	3.1
Option ARMs	10.0	10.0	9.7	9.7
Total	\$ 31.5	\$ 31.6	\$ 29.5	\$ 29.3

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 \$900 million and \$1.1 billion at September 30, 2017, and December 31, 2016, respectively.

Life-to-date liquidation losses represent both realization of loss upon loan resolution and any principal forgiven upon modification.

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

The current estimated average loan-to-value (“LTV”) ratio for residential real estate loans retained, excluding mortgage loans guaranteed and/or insured by U.S. government agencies and PCI loans, was 57% at September 30, 2017, compared with 58% at December 31, 2016. The current estimated average LTV ratio for residential real estate PCI loans, based on the unpaid principal balances, was 61% at September 30, 2017, compared with 64% at December 31, 2016.

Average 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, see Note 11.

Geographic composition of residential real estate loans

For information on the geographic composition of the Firm’s residential real estate loans, see Note 11.

Loan modification activities – 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 completed under both the U.S. Government’s Home Affordable Modification Program (“HAMP”) and the Firm’s proprietary modification programs (primarily the Firm’s modification program that was modeled after HAMP), as measured through cumulative redefault rates, was not materially different from December 31, 2016. For further information on the Firm’s cumulative redefault rates see Consumer Credit Portfolio on pages 89–95 of JPMorgan Chase’s 2016 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 September 30, 2017, 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 \$3 billion and \$8 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 September 30, 2017, and December 31, 2016, 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 nine months ended September 30, 2017 and

2016, see Note 11.

Modified residential real estate loans

(in millions)	September 30, 2017		December 31, 2016	
	Retained loans	Non-accrual retained loans ^(d)	Retained loans	Non-accrual retained loans ^(d)
Modified residential real estate loans, excluding PCI loans ^{(a)(b)}				
Home equity	\$2,134	\$ 1,021	\$2,264	\$ 1,116
Residential mortgage	5,667	1,656	6,032	1,755
Total modified residential real estate loans, excluding PCI loans	\$7,801	\$ 2,677	\$8,296	\$ 2,871
Modified PCI loans ^(c)				
Home equity	\$2,315	NA	\$2,447	NA
Prime mortgage	4,624	NA	5,052	NA
Subprime mortgage	2,747	NA	2,951	NA
Option ARMs	8,523	NA	9,295	NA
Total modified PCI loans	\$18,209	NA	\$19,745	NA

(a) Amounts represent the carrying value of modified residential real estate loans.

At September 30, 2017, and December 31, 2016, \$3.7 billion and \$3.4 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 (b) 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, see Note 13.

(c) Amounts represent the unpaid principal balance of modified PCI loans.

At September 30, 2017, and December 31, 2016, nonaccrual loans included \$2.2 billion and \$2.3 billion,

(d) respectively, 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, see Note 11.

Nonperforming assets

The following table presents information as of September 30, 2017, and December 31, 2016, about consumer, excluding credit card, nonperforming assets.

Nonperforming assets^(a)

(in millions)	September 30, 2017	December 31, 2016
Nonaccrual loans ^(b)		
Residential real estate ^(c)	\$ 3,696	\$ 4,154
Other consumer ^(c)	465	666
Total nonaccrual loans	4,161	4,820
Assets acquired in loan satisfactions		
Real estate owned	229	292
Other	33	57
Total assets acquired in loan satisfactions	262	349
Total nonperforming assets	\$ 4,423	\$ 5,169

At September 30, 2017, and December 31, 2016, nonperforming assets excluded: (1) mortgage loans insured by U.S. government agencies of \$4.0 billion and \$5.0 billion, respectively, that are 90 or more days past due; (2) (a) student loans insured by U.S. government agencies under the FFELP of zero and \$263 million, respectively, that are 90 or more days past due; and (3) REO insured by U.S. government agencies of \$99 million and \$142 million, respectively. These amounts have been excluded based upon the government guarantee.

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 (b) of individual loans within the pools, is not meaningful. The Firm is recognizing interest income on each pool of loans as they are all performing.

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

Nonaccrual loans in the residential real estate portfolio decreased to \$3.7 billion at September 30, 2017 from \$4.2 billion at December 31, 2016, of which 26% and 29%, respectively, were greater than 150 days past due. In the aggregate, the unpaid principal balance of residential real estate loans greater than 150 days past due was charged down by approximately 42% and 43%, respectively, to the estimated net realizable value of the collateral at September 30, 2017, and December 31, 2016.

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

Nonaccrual loans: The following table presents changes in consumer, excluding credit card, nonaccrual loans for the nine months ended September 30, 2017 and 2016.

Nonaccrual loan activity

Nine months ended September 30, (in millions)	2017	2016
Beginning balance	\$4,820	\$5,413
Additions	2,553	2,804
Reductions:		
Principal payments and other ^(a)	1,245	1,078
Charge-offs	561	572
Returned to performing status	1,121	1,215
Foreclosures and other liquidations	285	391
Total reductions	3,212	3,256
Net changes	(659)	(452)
Ending balance	\$4,161	\$4,961

(a) Other reductions includes loan sales.

Credit card

Total credit card loans decreased from December 31, 2016 due to seasonality. The September 30, 2017 30+ day delinquency rate increased to 1.76% from 1.61% at December 31, 2016, but remains near record lows. Net charge-offs increased for the three and nine months ended September 30, 2017 primarily due to seasoning of newer vintages in line with expectations. The credit card portfolio continues to reflect a largely well-seasoned portfolio that has good U.S. geographic diversification. The higher mix of near-prime accounts in recent credit card originations have generated higher loss rates than the more seasoned portion of the portfolio; however, they are in line with the Firm's credit parameters and once seasoned, these accounts have net revenue rates and returns on equity that are higher than the portfolio average. For information on the geographic and FICO composition of the Firm's credit card loans, see Note 11.

Modifications of credit card loans

At both September 30, 2017 and December 31, 2016, the Firm had \$1.2 billion 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.

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.

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

WHOLESALE
CREDIT
PORTFOLIO

The Firm's wholesale businesses are exposed to credit risk through 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. 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 wholesale credit portfolio continued to be generally stable for the nine months ended September 30, 2017, characterized by low levels of criticized exposure, nonaccrual loans and charge-offs. See industry discussion on pages 58–60 for further information. The increase in retained loans was driven by new originations in CB and higher loans to Private Banking clients in AWM, which was partially offset by paydowns in CIB. Discipline in underwriting across all areas of lending continues to remain a key point of focus. 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, as well as reviews 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

(in millions)	Credit exposure		Nonperforming ^(c)	
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Loans retained	\$398,569	\$383,790	\$ 1,470	\$ 1,954
Loans held-for-sale	2,532	2,285	2	109
Loans at fair value	1,746	2,230	—	—
Loans	402,847	388,305	1,472	2,063
Derivative receivables	58,260	64,078	164	223
Receivables from customers and other ^(a)	19,218	17,440	—	—
Total wholesale credit-related assets	480,325	469,823	1,636	2,286
Lending-related commitments	372,380	368,014	764	506
Total wholesale credit exposure	\$852,705	\$837,837	\$ 2,400	\$ 2,792
Credit derivatives used in credit portfolio management activities ^(b)	\$(20,181)	\$(22,114)	\$ —	\$ —
Liquid securities and other cash collateral held against derivatives	(21,353)	(22,705)	NA	NA

Receivables from customers and other include \$19.1 billion and \$17.3 billion of margin loans at September 30, (a) 2017, and December 31, 2016, respectively, to prime brokerage customers; these are classified in accrued interest and accounts receivable on the Consolidated balance sheets.

Represents the net notional amount of protection purchased and sold through credit derivatives used to manage (b) both performing and nonperforming wholesale credit exposures; these derivatives do not qualify for hedge accounting under U.S. GAAP. For additional information, see Credit derivatives on page 63, 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 September 30, 2017, and December 31, 2016. 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, see Note 14 of JPMorgan Chase's 2016 Annual Report.

Wholesale credit exposure – maturity and ratings profile

September 30, 2017 (in millions, except ratios)	Maturity profile ^(d)			Total	Ratings profile			Total % of IG
	Due in 1 year or less	Due after 1 year through 5 years	Due after 5 years		Investment-grade AAA/Aaa to BBB-/Baa3	Non-investment-grade BB+/Ba1 & below	Total	
Loans retained	\$118,523	\$176,895	\$103,151	\$398,569	\$307,194	\$ 91,375	\$398,569	77 %
Derivative receivables				58,260			58,260	
Less: Liquid securities and other cash collateral held against derivatives				(21,353)			(21,353)	
Total derivative receivables, net of all collateral	19,998	8,126	8,783	36,907	29,893	7,014	36,907	81
Lending-related commitments	93,737	265,830	12,813	372,380	277,432	94,948	372,380	75
Subtotal	232,258	450,851	124,747	807,856	614,519	193,337	807,856	76
Loans held-for-sale and loans at fair value ^(a)				4,278			4,278	
Receivables from customers and other				19,218			19,218	
Total exposure – net of liquid securities and other cash collateral held against derivatives				\$831,352			\$831,352	
Credit derivatives used in credit portfolio management activities ^{(b)(c)}	\$(1,301)	\$(11,306)	\$(7,574)	\$(20,181)	\$(17,226)	\$ (2,955)	\$(20,181)	85 %

December 31, 2016 (in millions, except ratios)	Maturity profile ^(d)			Total	Ratings profile			Total % of IG
	Due in 1 year or less	Due after 1 year through 5 years	Due after 5 years		Investment-grade AAA/Aaa to BBB-/Baa3	Non-investment-grade BB+/Ba1 & below	Total	
Loans retained	\$117,238	\$167,235	\$99,317	\$383,790	\$289,923	\$ 93,867	\$383,790	76 %
Derivative receivables				64,078			64,078	
Less: Liquid securities and other cash collateral held against derivatives				(22,705)			(22,705)	
Total derivative receivables, net of all collateral	14,019	8,510	18,844	41,373	33,081	8,292	41,373	80
Lending-related commitments	88,399	271,825	7,790	368,014	269,820	98,194	368,014	73
Subtotal	219,656	447,570	125,951	793,177	592,824	200,353	793,177	75
Loans held-for-sale and loans at fair value ^(a)				4,515			4,515	
Receivables from customers and other				17,440			17,440	
				\$815,132			\$815,132	

Total exposure – net of liquid
securities and other cash
collateral held against
derivatives

Credit derivatives used in

credit portfolio management \$(1,354) \$(16,537) \$(4,223) \$(22,114) \$(18,710) \$ (3,404) \$(22,114) 85 %
activities^{(b)(c)}

(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.

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
(c) derivatives entered into by the Firm where it has purchased protection, including credit derivatives used in credit portfolio management activities, are executed with investment-grade counterparties.

The maturity profile of retained loans, lending-related commitments and derivative receivables is based on the
(d) remaining contractual maturity. Derivative contracts that are in a receivable position at September 30, 2017, 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 \$16.7 billion at September 30, 2017, compared with \$19.8 billion at December 31, 2016, driven by a 36% decrease in Oil & Gas.

Effective in the first quarter of 2017, the Firm revised its methodology for the assignment of industry classifications, to better monitor and manage concentrations. This largely resulted in the re-assignment of holding companies from All other to the industry of risk category based on the primary business activity of the holding company's underlying entities. In the tables and industry discussions below, the prior period amounts have been revised to conform with the current period presentation.

Below are summaries of the Firm's exposures as of September 30, 2017, and December 31, 2016. For additional information on industry concentrations, see Note 5 of JPMorgan Chase's 2016 Annual Report.

Wholesale credit exposure – industries^(a)

As of or for the nine months ended September 30, 2017 (in millions)	Noninvestment-grade					Selected metrics			
	Credit exposure ^(e)	Investment-grade	Noncriticized	Criticized performing	Criticized nonperforming	30 days or more past due accruing loans	Net charge-offs (recoveries)	Credit derivatives ^(f)	Liquid securities and other cash collateral held against derivative receivables
Real Estate	\$ 138,425	\$ 113,944	\$ 23,472	\$ 849	\$ 160	\$ 101	\$ (3)	\$ —	\$ (6)
Consumer & Retail	87,022	56,213	28,820	1,807	182	37	16	(256)	(29)
Industrials	63,375	44,835	17,400	996	144	124	(1)	(193)	(45)
Technology, Media & Telecommunications	58,282	35,466	20,256	2,485	75	19	(15)	(465)	(66)
Banks & Finance Cos	49,557	35,827	13,253	471	6	58	6	(1,382)	(4,958)
Healthcare	48,658	37,034	10,812	771	41	12	(1)	—	(278)
Oil & Gas	38,692	19,092	13,530	4,968	1,102	17	55	(908)	(24)
Asset Managers	35,252	30,034	5,200	18	—	12	—	—	(6,456)
Utilities	29,872	24,549	4,978	124	221	—	11	(196)	(106)
State & Municipal Govt ^(b)	28,274	27,662	582	1	29	62	—	(130)	(569)
Central Govt	18,466	18,074	343	49	—	2	—	(10,822)	(2,977)
Chemicals & Plastics	16,632	11,069	5,500	63	—	1	—	(10)	(6)
Transportation	16,383	10,173	5,486	615	109	16	16	(32)	(164)
Automotive	16,259	10,636	5,526	97	—	2	1	(346)	(9)
Metals & Mining	13,370	6,409	6,249	712	—	2	(13)	(362)	(56)
Insurance	11,975	9,896	1,988	—	91	8	—	(182)	(2,350)
Financial Markets	9,921	8,762	1,159	—	—	—	—	—	(947)
Infrastructure	4,476	3,012	1,456	8	—	—	—	(274)	(577)
Securities Firms	144,318	131,042	12,758	280	238	857	1	(4,623)	(1,730)
All other ^(c)	\$ 829,209	\$ 633,729	\$ 178,768	\$ 14,314	\$ 2,398	\$ 1,330	\$ 73	\$ (20,181)	\$ (21,353)
Subtotal									
Loans held-for-sale and loans at fair value	4,278								

Receivables from customers and other	19,218
Total ^(d)	\$ 852,705

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(continued from previous page)

As of or for the year ended December 31, 2016	Noninvestment-grade					Selected metrics			Liquid securities and other cash collateral held against derivative receivables	
	Credit exposure ^(e)	Investment-grade	Noncriticized	Criticized performing	Criticized nonperforming	30 days or more past due accruing loans	Net charge-offs (recoveries)	Credit losses ^(f)		
(in millions)										
Real Estate	\$ 134,287	\$ 104,869	\$ 28,281	\$ 937	\$ 200	\$ 206	\$ (7)	\$(54)	\$(11)	
Consumer & Retail	84,804	54,730	28,255	1,571	248	75	24	(424)	(69)	
Industrials	55,733	36,710	17,854	1,033	136	128	3	(434)	(40)	
Technology, Media & Telecommunications	63,324	39,998	21,751	1,559	16	9	2	(589)	(30)	
Banks & Finance Cos	48,393	35,385	12,560	438	10	21	(2)	(1,336)	(7,337)	
Healthcare	49,445	39,244	9,279	882	40	86	37	(286)	(246)	
Oil & Gas	40,367	18,629	12,274	8,069	1,395	31	233	(1,532)	(18)	
Asset Managers	33,201	29,194	4,006	1	—	17	—	—	(5,737)	
Utilities	29,672	24,203	4,959	424	86	8	—	(306)	39	
State & Municipal Govt ^(b)	28,263	27,603	624	6	30	107	(1)	(130)	398	
Central Govt	20,408	20,123	276	9	—	4	—	(11,691)	(4,183)	
Chemicals & Plastics	15,043	10,405	4,452	156	30	3	—	(35)	(3)	
Transportation	19,096	12,178	6,421	444	53	9	10	(93)	(188)	
Automotive	16,736	9,235	7,299	201	1	7	—	(401)	(14)	
Metals & Mining	13,419	5,523	6,744	1,133	19	—	36	(621)	(62)	
Insurance	13,510	10,918	2,459	—	133	9	—	(275)	(2,538)	
Financial Markets	8,732	7,980	752	—	—	—	—	—	(390)	
Infrastructure	4,211	1,812	2,399	—	—	—	—	(273)	(491)	
Securities Firms	137,238	124,661	11,988	303	286	598	6	(3,634)	(1,785)	
All other ^(c)	\$ 815,882	\$ 613,400	\$ 182,633	\$ 17,166	\$ 2,683	\$ 1,318	\$ 341	\$(22,114)	\$(22,705)	
Subtotal										
Loans held-for-sale and loans at fair value	4,515									
Receivables from customers and other	17,440									
Total ^(d)	\$ 837,837									
(a)										

The industry rankings presented in the table as of December 31, 2016, are based on the industry rankings of the corresponding exposures at September 30, 2017, not actual rankings of such exposures at December 31, 2016.

In addition to the credit risk exposure to states and municipal governments (both U.S. and non-U.S.) at September 30, 2017, and December 31, 2016, noted above, the Firm held: \$7.5 billion and \$9.1 billion, (b) respectively, of trading securities; \$32.1 billion and \$31.6 billion, respectively, of AFS securities; and \$14.4 billion and \$14.5 billion, respectively, of held-to-maturity ("HTM") securities, issued by U.S. state and municipal governments. For further information, see Note 2 and Note 9.

All other includes: individuals; SPEs; and private education and civic organizations; representing approximately (c) 60%, 36%, and 4%, respectively, at September 30, 2017, and 59%, 37%, and 4%, respectively, at December 31, 2016.

(d) Excludes cash placed with banks of \$450.1 billion and \$380.2 billion, at September 30, 2017, and December 31, 2016, 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.

Presented below is a discussion of certain industries to which the Firm has significant exposures and/or which present actual or potential credit concerns.

Real Estate

Exposure to the Real Estate industry increased \$4.1 billion during the nine months ended September 30, 2017, to \$138.4 billion, predominantly driven by multifamily lending within CB. During the nine months ended September 30, 2017, the credit quality of the total Real Estate exposure has improved, with the investment-grade percentage increasing from 78% to 82%. For further information on Real Estate loans, see Note 11.

(in millions, except ratios)	September 30, 2017					
	Loans and Lending-Related Commitments	Derivative Receivables	Credit exposure	% Investment-grade	% Drawn ^(c)	
Multifamily ^(a)	\$83,972	\$ 31	\$ 84,003	87	%	91 %
Other	54,266	156	54,422	74		65
Total Real Estate Exposure ^(b)	138,238	187	138,425	82		81

(in millions, except ratios)	December 31, 2016					
	Loans and Lending-Related Commitments	Derivative Receivables	Credit exposure	% Investment-grade	% Drawn ^(c)	
Multifamily ^(a)	\$80,280	\$ 34	\$ 80,314	82	%	90 %
Other	53,801	172	53,973	72		62
Total Real Estate Exposure ^(b)	134,081	207	134,287	78		79

(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.

Oil & Gas and Natural Gas Pipelines

Exposure to the Oil & Gas and Natural Gas Pipelines portfolios decreased by \$0.9 billion during the nine months ended September 30, 2017 to \$43.8 billion. During the nine months ended September 30, 2017, the credit quality of this exposure has improved, with the investment-grade percentage increasing from 48% to 50% and criticized exposure decreasing \$3.4 billion.

(in millions, except ratios)	September 30, 2017					
	Loans and Lending-Related Commitments	Derivative Receivables	Credit exposure	% Investment-grade	% Drawn ^(d)	
Exploration & Production ("E&P") and Oilfield Services	\$20,129	\$ 494	\$ 20,623	32	%	33 %
Other Oil & Gas ^(a)	17,590	479	18,069	69		30
Total Oil & Gas	37,719	973	38,692	49		31
Natural Gas Pipelines ^(b)	5,090	61	5,151	54		12
Total Oil & Gas and Natural Gas Pipelines ^(c)	\$42,809	\$ 1,034	\$ 43,843	50		29

(in millions, except ratios)	December 31, 2016					
	Loans and Lending-Related Commitments	Derivative Receivables	Credit exposure	% Investment-grade	% Drawn ^(d)	
E&P and Oilfield Services	\$20,971	\$ 1,256	\$ 22,227	27	%	35 %
Other Oil & Gas ^(a)	17,518	622	18,140	70		31

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Total Oil & Gas	38,489	1,878	40,367	46	33
Natural Gas Pipelines ^(b)	4,253	106	4,359	66	30
Total Oil & Gas and Natural Gas Pipelines ^(c)	\$42,742	\$ 1,984	\$ 44,726	48	33

(a) Other Oil & Gas includes Integrated Oil & Gas companies, Midstream/Oil Pipeline companies and refineries.

(b) Natural Gas Pipelines is reported within the Utilities industry.

Secured lending is \$14.6 billion and \$14.3 billion, at September 30, 2017 and December 31, 2016, respectively,

(c) approximately half of which is reserve-based lending to the Exploration & Production sub-sector; unsecured exposure is largely investment-grade.

(d) 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 customers, ranging from large corporate and institutional clients to high-net-worth

individuals. For further discussion on loans, including information on credit quality indicators and sales of loans, see Note 11.

The following table presents the change in the nonaccrual loan portfolio for the nine months ended September 30, 2017 and 2016.

Wholesale nonaccrual loan activity^(a)

Nine months ended September 30,

(in millions)	2017	2016
Beginning balance	\$2,063	\$1,016
Additions	993	2,520
Reductions:		
Paydowns and other	997	701
Gross charge-offs	155	287
Returned to performing status	184	201
Sales	248	170
Total reductions	1,584	1,359
Net changes	(591)	1,161
Ending balance	\$1,472	\$2,177

Loans are placed on nonaccrual status when management believes full payment of principal or interest is not (a) expected, regardless of delinquency status, or when principal or interest have been in default for a period of 90 days or more, unless the loan is both well-secured and in the process of collection.

The following table presents net charge-offs/recoveries, which are defined as gross charge-offs less recoveries, for the three and nine months ended September 30, 2017 and 2016. The amounts in the table below do not include gains or losses from sales of nonaccrual loans.

Wholesale net charge-offs/(recoveries)

(in millions, except ratios)	Three months ended September 30,		Nine months ended September 30,	
	2017	2016	2017	2016
Loans – reported				
Average loans retained	\$395,420	\$374,593	\$390,062	\$368,225
Gross charge-offs	55	63	154	291
Gross recoveries	(12)	(16)	(81)	(30)
Net charge-offs/(recoveries)	43	47	73	261
Net charge-off/(recovery) rate	0.04	%0.05	%0.03	%0.09

Lending-related commitments

The Firm uses lending-related financial instruments, such as commitments (including revolving credit facilities) and guarantees, to meet the financing needs of its customers. The contractual amounts of these financial instruments represent the maximum possible credit risk should the counterparties draw down on these commitments or the Firm fulfills its obligations under these guarantees, and the counterparties 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, see Note 19.

Derivative contracts

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

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

Derivative receivables

(in millions)	Derivative receivables	
	September 30, 2017	December 31, 2016
Interest rate	\$25,701	\$ 28,302
Credit derivatives	915	1,294
Foreign exchange	17,077	23,271
Equity	8,831	4,939
Commodity	5,736	6,272
Total, net of cash collateral	58,260	64,078
Liquid securities and other cash collateral held against derivative receivables ^(a)	(21,353)	(22,705)
Total, net of collateral	\$36,907	\$ 41,373

^(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 \$58.3 billion and \$64.1 billion at September 30, 2017, and December 31, 2016, respectively. These amounts 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 \$21.4 billion and \$22.7 billion at September 30, 2017, and December 31, 2016, respectively, that may be used as security when the fair value of the client's exposure is in the Firm's favor. The decrease in derivative receivables at September 30, 2017 from December 31, 2016 is predominantly related to client-driven market-making activities in CIB Markets, reflecting lower foreign exchange and interest rate derivative receivables, driven by maturities and market movements, partially offset by higher equity derivative receivables driven by higher market levels.

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, see Note 4.

The following table summarizes the ratings profile by derivative counterparty 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 defined by S&P and Moody's.

Ratings profile of derivative receivables

Rating equivalent (in millions, except ratios)	September 30, 2017		December 31, 2016	
	Exposure net of collateral	% of exposure net of collateral	Exposure net of collateral	% of exposure net of collateral
AAA/Aaa to AA-/Aa3	\$9,856	27 %	\$11,449	28 %
A+/A1 to A-/A3	7,262	20	8,505	20
BBB+/Baa1 to BBB-/Baa3	12,775	35	13,127	32
BB+/Ba1 to B-/B3	6,473	17	7,308	18
CCC+/Caa1 and below	541	1	984	2
Total	\$36,907	100 %	\$41,373	100 %

As previously noted, the Firm uses collateral agreements to mitigate counterparty credit risk. The percentage of the Firm's derivatives transactions subject to collateral agreements — excluding foreign exchange spot trades, which are not typically covered by collateral agreements due to their short maturity — was 91% and 90% at September 30, 2017 and December 31, 2016, respectively.

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

(in millions)	Notional amount of protection purchased and sold ^(a)	
	September 30, 2017	December 31, 2016
Credit derivatives used to manage:		
Loans and lending-related commitments	\$1,559	\$ 2,430
Derivative receivables	18,622	19,684
Credit derivatives used in credit portfolio management activities	\$20,181	\$ 22,114

(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, see Credit derivatives in Note 4 of this Form 10-Q, and Note 6 of JPMorgan Chase's 2016 Annual Report.

ALLOWANCE
FOR CREDIT
LOSSES

JPMorgan Chase's allowance for loan losses covers both the consumer (primarily scored) portfolio and wholesale (risk-rated) portfolio. Management also determines an allowance for wholesale and certain consumer lending-related commitments.

For a further discussion of the components of the allowance for credit losses and related management judgments, see Critical Accounting Estimates Used by the Firm on pages 78–79 and Note 12 of this Form 10-Q, and Critical Accounting Estimates Used by the Firm on pages 132–134 and Note 15 of JPMorgan Chase's 2016 Annual Report. At least quarterly, the allowance for credit losses is reviewed by the CRO, the CFO and the Controller of the Firm, and discussed with the Board of Directors' Risk Policy Committee ("DRPC") and Audit Committee. As of September 30, 2017, JPMorgan Chase deemed the allowance for credit losses to be appropriate and sufficient to absorb probable credit losses inherent in the portfolio.

Overall, the consumer allowance for credit losses increased from December 31, 2016. Changes to the allowance for credit losses included:

- additions to the allowance for loan losses in the credit card, business banking and auto portfolios, predominantly driven by higher loss rates and loan growth in credit card,
- largely offset by the utilization of the allowance for loan losses in connection with the transfer of the student loan portfolio to held-for-sale; and
- a reduction in the residential real estate portfolio, predominantly reflecting continued improvements in home prices and delinquencies.

The wholesale allowance for credit losses decreased from December 31, 2016, reflecting credit quality improvements in the Oil & Gas, Natural Gas Pipelines, and Metals & Mining portfolios.

For additional information on the consumer portfolio, see Consumer Credit Portfolio on pages 50–55 and Note 11.

For additional information on the wholesale portfolio, see Wholesale Credit Portfolio on pages 56–63 and Note 11.

Summary of changes in the allowance for credit losses

	2017				2016			
Nine months ended September 30, (in millions, except ratios)	Consumer, excluding credit card	Credit card	Wholesale	Total	Consumer, excluding credit card	Credit card	Wholesale	Total
Allowance for loan losses								
Beginning balance at January 1,	\$5,198	\$4,034	\$4,544	\$13,776	\$5,806	\$3,434	\$4,315	\$13,555
Gross charge-offs	1,479	3,344	154	4,977	1,071	2,803	291	4,165
Gross recoveries	(478)	(295)	(81)	(854)	(448)	(275)	(30)	(753)
Net charge-offs ^(a)	1,001	3,049	73	4,123	623	2,528	261	3,412
Write-offs of PCI loans ^(b)	66	—	—	66	124	—	—	124
Provision for loan losses	653	3,699	(401)	3,951	578	2,978	628	4,184
Other	(2)	—	3	1	—	—	1	1
Ending balance at September 30,	\$4,782	\$4,684	\$4,073	\$13,539	\$5,637	\$3,884	\$4,683	\$14,204
Impairment methodology								
Asset-specific ^(c)	\$271	\$376	\$363	\$1,010	\$352	\$363	\$490	\$1,205
Formula-based	2,266	4,308	3,710	10,284	2,667	3,521	4,193	10,381
PCI	2,245	—	—	2,245	2,618	—	—	2,618
Total allowance for loan losses	\$4,782	\$4,684	\$4,073	\$13,539	\$5,637	\$3,884	\$4,683	\$14,204
Allowance for lending-related commitments								
Beginning balance at January 1,	\$26	\$—	\$1,052	\$1,078	\$14	\$—	\$772	\$786
Provision for lending-related commitments	7	—	24	31	—	—	313	313
Other	—	—	—	—	—	—	1	1
Ending balance at September 30,	\$33	\$—	\$1,076	\$1,109	\$14	\$—	\$1,086	\$1,100
Impairment methodology								
Asset-specific	\$—	\$—	\$220	\$220	\$—	\$—	\$162	\$162
Formula-based	33	—	856	889	14	—	924	938
Total allowance for lending-related commitments ^(d)	\$33	\$—	\$1,076	\$1,109	\$14	\$—	\$1,086	\$1,100
Total allowance for credit losses	\$4,815	\$4,684	\$5,149	\$14,648	\$5,651	\$3,884	\$5,769	\$15,304
Memo:								
Retained loans, end of period	\$369,413	\$141,200	\$398,569	\$909,182	\$363,398	\$133,346	\$386,449	\$883,193

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Retained loans, average	365,359	138,749	390,062	894,170	356,347	129,401	368,225	853,973	
PCI loans, end of period	31,821	—	3	31,824	37,045	—	3	37,048	
Credit ratios									
Allowance for loan losses to retained loans	1.29	% 3.32	% 1.02	% 1.49	% 1.55	% 2.91	% 1.21	% 1.61	%
Allowance for loan losses to retained nonaccrual loans ^(e)	115	NM	277	241	115	NM	218	201	
Allowance for loan losses to retained nonaccrual loans excluding credit card	115	NM	277	157	115	NM	218	146	
Net charge-off rates ^(a)	0.37	2.94	0.03	0.62	0.23	2.61	0.09	0.53	
Credit ratios, excluding residential real estate PCI loans									
Allowance for loan losses to retained loans	0.75	3.32	1.02	1.29	0.93	2.91	1.21	1.37	
Allowance for loan losses to retained nonaccrual loans ^(e)	61	NM	277	201	62	NM	218	164	
Allowance for loan losses to retained nonaccrual loans excluding credit card	61	NM	277	117	62	NM	218	109	
Net charge-off rates ^(a)	0.40	% 2.94	% 0.03	% 0.64	% 0.26	% 2.61	% 0.09	% 0.56	%

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

For the nine months ended September 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 0.20%; total Firm would have been 0.55%; Consumer, excluding credit card and PCI loans would have been 0.22%; and total Firm, excluding PCI would have been 0.57%. For additional information refer to CCB segment results on page 21.

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 (e.g., upon liquidation).

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 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:

	Three months ended September 30,				Nine months ended September 30,			
	Provision for loan losses		Provision for lending-related commitments		Provision for loan losses		Provision for lending-related commitments	
(in millions)	2017	2016	2017	2016	2017	2016	2017	2016
Consumer, excluding credit card	\$205	\$262	\$ 1	\$ —	\$206	\$262	\$653	\$578
Credit card	1,319	1,038	—	—	1,319	1,038	3,699	2,978
Total consumer	1,524	1,300	1	—	1,525	1,300	4,352	3,556
Wholesale	(64)	(168)	(9)	139	(73)	(29)	(401)	628
Total	\$1,460	\$1,132	\$ (8)	\$ 139	\$1,452	\$1,271	\$3,951	\$4,184

Quarterly discussion

The provision for credit losses increased as a result of:

a higher consumer provision driven by:

\$148 million of higher net charge-offs, primarily in the credit card portfolio due to seasoning of newer vintages in line with expectations, partially offset by a decrease in net charge-offs in the residential real estate portfolio reflecting continued improvement in home prices and delinquencies. The higher net charge-offs included \$63 million of incremental charge-offs recorded in accordance with regulatory guidance regarding the timing of loss recognition for certain auto and residential real estate loans in bankruptcy and auto loans where assets were acquired in loan satisfaction, and

a \$300 million addition to the allowance for credit losses in the credit card portfolio, due to higher loss rates and loan growth, compared to a \$200 million addition in the prior year

the increase was partially offset by

a higher net benefit of \$44 million due to a net reduction of \$116 million in the wholesale allowance for credit losses, primarily driven by paydowns and loan sales in the Oil & Gas portfolio, and improvements in the overall quality of the Real Estate portfolio.

Year-to-date discussion

The provision for credit losses decreased as a result of:

a net \$450 million reduction in the wholesale allowance for credit losses, reflecting credit quality improvements in the Oil & Gas, Natural Gas Pipelines and Metals & Mining portfolios, compared with an addition of \$680 million in the prior year driven by downgrades in the same portfolios.

the decrease was partially offset by

a higher consumer provision driven by:

\$432 million of higher net charge-offs, primarily in the credit card portfolio due to seasoning of newer vintages in line with expectations, partially offset by a decrease in net charge-offs in the residential real estate portfolio reflecting continued improvement in home prices and delinquencies,

a \$218 million impact related to the transfer of the student loan portfolio to held-for-sale, and

a \$153 million higher addition to the allowance for credit losses.

Current year additions to the consumer allowance for credit losses included:

a \$650 million addition to the allowance for credit losses in the credit card portfolio, due to higher loss rates and loan growth, compared to a \$450 million addition in the prior year;

a \$50 million addition to the allowance for credit losses in the business banking portfolio; and

a \$25 million addition to the allowance for credit losses in the auto portfolio, compared to a \$75 million addition in the prior year;

the additions were partially offset by

a \$167 million net reduction in the allowance for credit losses in the residential real estate portfolio, reflecting continued improvement in home prices and delinquencies, compared to a \$95 million net reduction in the prior year.

For additional information on the Firm's student loan portfolio, which was transferred to held-for-sale in the first quarter of 2017, see Note 23.

COUNTRY RISK MANAGEMENT

Country risk is the risk that a sovereign event or action alters the value or terms of contractual obligations of obligors, counterparties and issuers or adversely affects markets related to a particular country. The Firm has a country risk management framework for assessing country risks, determining risk tolerance, and measuring and monitoring its direct country exposures. The Country Risk Management group is responsible for developing guidelines and policies for managing country risk in both emerging and developed 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 defines and runs stress scenarios for individual countries or groups of countries in response to specific or potential market events, sector performance concerns and geopolitical risks.

For a discussion of the Firm's Country Risk Management organization; identification and measurement; stress testing; monitoring and control; and reporting, see pages 108–109 of JPMorgan Chase's 2016 Annual Report.

The following table presents the Firm's top 20 exposures by country (excluding the U.S.) as of September 30, 2017. The selection of countries is based solely on 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.)

	September 30, 2017			
(in billions)	Lending and deposits ^(a)	Trading and investing ^{(b)(c)}	Other ^(d)	Total exposure
Germany	\$43.9	\$ 13.9	\$ 0.2	\$ 58.0
United Kingdom	34.0	14.3	0.9	49.2
Japan	16.4	7.5	0.2	24.1
France	12.4	8.7	0.3	21.4
China	8.7	6.2	0.9	15.8
Switzerland	8.1	1.3	5.6	15.0
Canada	11.7	3.0	0.2	14.9
India	4.6	5.7	1.1	11.4
Australia	6.0	5.2	—	11.2
Netherlands	7.3	1.9	0.7	9.9
Luxembourg	7.5	1.4	—	8.9
South Korea	5.4	2.0	0.3	7.7
Brazil	3.4	3.2	—	6.6
Italy	3.7	1.8	0.2	5.7
Spain	3.4	2.1	—	5.5
Singapore	2.8	1.3	1.1	5.2
Hong Kong	2.3	1.2	1.6	5.1
Saudi Arabia	3.8	0.8	—	4.6
Mexico	3.2	1.3	—	4.5
Ireland	1.1	0.7	1.2	3.0

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.

(b) Includes market-making inventory, AFS securities, counterparty exposure on derivative and securities financings net of collateral and hedging.

- (c) Includes single reference entity (“single-name”), index and tranching credit derivatives for which one or more of the underlying reference entities is in a country listed in the above table.
- (d) Includes capital invested in local entities and physical commodity inventory.

LIQUIDITY RISK MANAGEMENT

Liquidity risk is the risk that the Firm will be unable to meet its contractual and contingent obligations or that it does not have the appropriate amount, composition or tenor of funding and liquidity to support its assets and liabilities. The following discussion of JPMorgan Chase's Liquidity Risk Management should be read together with pages 110–115 of JPMorgan Chase's 2016 Annual Report.

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. Commencing January 1, 2017, the LCR is required to be a minimum of 100%.

On December 19, 2016, the Federal Reserve published final LCR public disclosure requirements for certain bank holding companies and nonbank financial companies. Beginning with the second quarter of 2017, the Firm disclosed its average LCR for the quarter and the key quantitative components of the average LCR, along with a qualitative discussion of material drivers of the ratio. The Firm will continue to make available its U.S. LCR Disclosure report on a quarterly basis on the Firm's website at: (<https://investor.shareholder.com/jpmorganchase/basel.cfm>)

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

Average amount (in millions)	Three months ended September 30, 2017
HQLA	
Eligible cash ^(a)	\$389,516
Eligible securities ^{(b)(c)}	178,803
Total HQLA ^(d)	\$568,319
Net cash outflows	\$475,229
LCR	120 %
Net excess HQLA ^(d)	\$93,090

(a) Represents cash on deposit at central banks, primarily Federal Reserve Banks.

(b) Predominantly U.S. Agency MBS, U.S. Treasuries, 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 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.

For the three months ended September 30, 2017, the Firm's average LCR was 120%, compared with an average of 115% for the three months ended June 30, 2017 as reported in the Firm's U.S. LCR Public Disclosure. The increase in the ratio was largely attributable to an increase in average HQLA, driven by an increase in the amount of cash and securities held by JPMorgan Chase Bank, N.A. and Chase Bank USA, N.A. that became available to transfer 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 September 30, 2017, in addition to assets reported in the Firm's HQLA under the LCR rule, the Firm had approximately \$234 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 non-bank affiliates.

As of September 30, 2017, the Firm also had approximately \$273 billion of available borrowing capacity at various Federal Home Loan Banks ("FHLBs"), the Federal Reserve Bank discount window and various other central banks as a result of collateral pledged by the Firm to such banks. This remaining borrowing capacity excludes the benefit of securities reported in the Firm's HQLA or other unencumbered securities that are currently pledged at the Federal Reserve Bank discount window, but for which the Firm has not drawn liquidity. Although available, the Firm does not view the borrowing capacity at the Federal Reserve Bank discount window and the various other central banks as a primary source of liquidity.

NSFR

The Net Stable Funding Ratio ("NSFR") is intended to measure the adequacy of "available" and "required" amounts of stable funding over a one-year horizon. On April 26, 2016, the U.S. NSFR proposal was released for large banks and bank holding companies and was largely consistent with the Basel Committee's final standard.

While the final U.S. NSFR has yet to be released, the Firm estimates it was compliant with the proposed 100% minimum NSFR based on data as of June 30, 2017, and on its current understanding of the proposed rule.

Funding

Sources of funds

Management believes that the Firm's secured and unsecured 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, and 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. See 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 September 30, 2017, and December 31, 2016, and the average deposit balances for the three and nine months ended September 30, 2017 and 2016, respectively.

	September 30, 2017	December 31, 2016	Three months ended September 30, Average		Nine months ended September 30, Average	
Deposits (in millions)			2017	2016	2017	2016
Consumer & Community Banking	\$ 653,460	\$ 618,337	\$645,732	\$593,671	\$636,257	\$579,741
Corporate & Investment Bank	466,323	412,434	461,961	413,698	444,064	404,501
Commercial Banking	176,452	179,532	176,095	172,204	175,265	170,810
Asset & Wealth Management	141,409	161,577	144,496	153,121	151,311	151,656
Corporate	1,383	3,299	2,739	5,281	4,152	5,788
Total Firm	\$ 1,439,027	\$ 1,375,179	\$ 1,431,023	\$ 1,337,975	\$ 1,411,049	\$ 1,312,496

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 a stable source 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 September 30, 2017 and December 31, 2016.

(in billions except ratios)	September 30, 2017	December 31, 2016	
Deposits	\$ 1,439.0	\$ 1,375.2	
Deposits as a % of total liabilities	62	% 61	%
Loans	913.8	894.8	
Loans-to-deposits ratio	63	% 65	%

Deposits increased due to both higher wholesale and consumer deposits. The higher wholesale deposits were driven by growth in client cash management activity in CIB's Securities Services and Treasury Services businesses, partially offset by lower balances in AWM reflecting balance migration into investment-related products (retained

predominantly within the Firm), and the impact of seasonality in both CB and AWM. The higher consumer deposits reflected the continuation of strong growth from new and existing customers, and low attrition rates.

The Firm believes average deposit balances are generally more representative of deposit trends than period-end deposit balances. The increase in average deposits for the three and nine months ended September 30, 2017, compared with the three and nine months ended September 30, 2016, was driven by an increase in both consumer and wholesale deposits. For further discussions of deposit and liability balance trends, see the discussion of the Firm's Business Segment Results and the Consolidated Balance Sheets Analysis on pages 18–40 and pages 11–12, respectively.

The following table summarizes short-term and long-term funding, excluding deposits, as of September 30, 2017, and December 31, 2016, and average balances for the three and nine months ended September 30, 2017 and 2016, respectively. For additional information, see the Consolidated Balance Sheets Analysis on pages 11–12 and Note 10.

Sources of funds (excluding deposits) (in millions)	September 30, 2017	December 31, 2016	Three months ended September 30, Average		Nine months ended September 30, Average	
			2017	2016	2017	2016
Commercial paper	\$ 24,248	\$ 11,738	\$23,022	\$13,798	\$18,653	\$16,257
Obligations of Firm-administered multi-seller conduits ^(a)	\$ 2,923	\$ 2,719	\$2,947	\$5,872	\$3,351	\$5,900
Other borrowed funds	\$ 29,719	\$ 22,705	\$29,936	\$19,818	\$25,620	\$20,051
Securities loaned or sold under agreements to repurchase:						
Securities sold under agreements to repurchase ^{(b)(c)}	\$ 154,463	\$ 149,826	\$167,652	\$165,120	\$173,334	\$157,808
Securities loaned ^{(c)(d)}	9,867	12,137	9,637	10,946	12,094	13,270
Total securities loaned or sold under agreements to repurchase ^{(c)(e)}	\$ 164,330	\$ 161,963	\$177,289	\$176,066	\$185,428	\$171,078
Senior notes	\$ 157,495	\$ 151,042	\$159,270	\$157,318	\$154,148	\$152,894
Trust preferred securities	2,334	2,345	2,336	3,965	2,340	3,968
Subordinated debt	18,079	21,940	18,399	23,779	20,029	24,769
Structured notes	43,760	37,292	44,157	37,323	42,025	35,499
Total long-term unsecured funding	\$ 221,668	\$ 212,619	\$224,162	\$222,385	\$218,542	\$217,130
Credit card securitization ^(a)	\$ 23,473	\$ 31,181	\$24,709	\$31,074	\$27,041	\$28,604
Other securitizations ^{(a)(f)}	—	1,527	—	1,639	837	1,698
Federal Home Loan Bank (“FHLB”) advances	63,769	79,519	67,288	72,687	72,504	71,158
Other long-term secured funding ^(g)	3,145	3,107	3,176	5,223	3,202	5,130
Total long-term secured funding	\$ 90,387	\$ 115,334	\$95,173	\$110,623	\$103,584	\$106,590
Preferred stock ^(h)	\$ 26,068	\$ 26,068	\$26,068	\$26,068	\$26,068	\$26,068
Common stockholders’ equity ^(h)	\$ 232,314	\$ 228,122	\$231,861	\$226,089	\$229,937	\$224,034

(a) Included in beneficial interests issued by consolidated variable interest entities on the Firm’s Consolidated balance sheets.

(b) Excluded long-term structured repurchase agreements of \$2.0 billion and \$1.8 billion as of September 30, 2017, and December 31, 2016, respectively, average balances of \$2.0 billion and \$1.9 billion for the three months ended September 30, 2017 and 2016, respectively, and \$1.4 billion and \$2.9 billion for the nine months ended September 30, 2017 and 2016, respectively.

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

(d) Excludes long-term securities loaned of \$1.3 billion and \$1.2 billion as of September 30, 2017, and December 31,

(e) 2016, respectively, average balances of \$1.3 billion and \$1.2 billion for the three months ended September 30, 2017 and 2016, respectively, and \$1.3 billion for both the nine months ended September 30, 2017 and 2016.

(f) Excludes federal funds purchased.

(g) 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. For additional information about the sale of the student

loan portfolio, see CCB Business Segment Results on pages 20–24. 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.

For additional information on preferred stock and common stockholders’ equity see Capital Risk Management on

(h) pages 42–48 and the Consolidated statements of changes in stockholders’ equity on page 86; and Note 22 and Note 23 of JPMorgan Chase’s 2016 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. Securities loaned or sold under agreements to repurchase 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 in the average balance of securities loaned or sold under agreements to repurchase for the three and nine months ended September 30, 2017, compared with September 30, 2016, was largely due to higher secured financing of trading assets-debt and equity instruments in the CIB related to client-driven market-making activities.

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 market-making 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 as of September 30, 2017, compared to December 31, 2016, was due to a change in the mix of funding from securities sold under repurchase agreements.

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 nine months ended September 30, 2017 and 2016. For additional information on long-term debt and the IHC, see Note 21 and Executive Overview of JPMorgan Chase's 2016 Annual Report.

Long-term unsecured funding

(in millions)	Three months ended September 30,		Nine months ended September 30,	
	2017	2016	2017	2016
Issuance				
Senior notes issued in the U.S. market	\$3,967	\$8,467	\$18,646	\$21,654
Senior notes issued in non-U.S. markets	—	2,172	2,210	7,063
Total senior notes	3,967	10,639	20,856	28,717
Subordinated debt	—	—	—	—
Structured notes	6,587	4,643	23,181	18,254
Total long-term unsecured funding – issuance	\$10,554	\$15,282	\$44,037	\$46,971
Maturities/redemptions				
Senior notes	\$4,152	\$6,229	\$18,194	\$22,539
Trust preferred securities	—	—	—	—
Subordinated debt	895	521	3,901	2,523
Structured notes	5,657	3,233	18,030	11,774
Total long-term unsecured funding – maturities/redemptions	\$10,704	\$9,983	\$40,125	\$36,836

The Firm raises secured long-term funding primarily 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 nine months ended September 30, 2017 and 2016, respectively.

(in millions)	Three months ended September 30,				Nine months ended September 30,			
	Issuance		Maturities/Redemptions		Issuance		Maturities/Redemptions	
	2017	2016	2017	2016	2017	2016	2017	2016
Credit card securitization	\$—	\$4,463	\$ 2,264	\$ —	\$1,545	\$8,277	\$ 9,270	\$ 2,775
Other securitizations ^(a)	—	—	—	58	—	—	55	177
FHLB advances	—	15,900	4,694	5,902	—	15,900	15,748	7,956
Other long-term secured funding ^(b)	186	89	516	2,546	727	415	640	2,635
Total long-term secured funding	\$186	\$20,452	\$ 7,474	\$ 8,506	\$2,272	\$24,592	\$ 25,713	\$ 13,543

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. For additional information about the sale of the student loan portfolio, see CCB Business Segment Results on pages 20–24.

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

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, see Note 16 of JPMorgan Chase's 2016 Annual Report.

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, see 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 September 30, 2017, were as follows.

September 30, 2017	JPMorgan Chase & Co.			JPMorgan Chase Bank, N.A. Chase Bank USA, N.A.			J.P. Morgan Securities LLC J.P. Morgan Securities plc		
	Long-term issuer	Short-term issuer	Outlook	Long-term issuer	Short-term issuer	Outlook	Long-term issuer	Short-term issuer	Outlook
Moody's	A3	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	A+	F1	Stable	AA-	F1+	Stable	AA-	F1+	Stable

On June 1, 2017, JPMorgan Chase Bank, N.A. terminated its guarantee of the payment of all obligations of J.P. Morgan Securities plc arising after such termination. J.P. Morgan Securities plc, whose credit ratings previously reflected the benefit of this guarantee, is now rated on a stand-alone, non-guaranteed basis.

Downgrades of the Firm's long-term ratings by one or two notches could result in an increase in its cost of funds, and the Firm's 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 and liquidity 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.

Although the Firm closely monitors and endeavors to manage, to the extent it is able, factors influencing its credit ratings, there is no assurance that its credit ratings will not be changed in the future.

MARKET RISK MANAGEMENT

Market risk is the risk of loss arising from potential adverse changes in the value of the Firm's assets and liabilities resulting from changes in market variables such as interest rates, foreign exchange rates, equity prices, commodity prices, implied volatilities or credit spreads. 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, see Market Risk Management on pages 116–123 of JPMorgan Chase's 2016 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.

Since VaR is based on historical data, it is an imperfect measure of market risk exposure and potential losses, and it is not used to estimate the impact of stressed market conditions or to manage any impact from potential stress events. 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, see Other risk measures on pages 121–123 of JPMorgan Chase's 2016 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, see Model Risk Management on page 128 of JPMorgan Chase's 2016 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, see page 118 of JPMorgan Chase's 2016 Annual Report. For additional information on Regulatory VaR and the other components of market risk regulatory capital for the Firm (e.g., VaR-based measure, stressed VaR-based measure and the respective backtesting), see 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

(in millions)	Three months ended, September 30, 2017			June 30, 2017			September 30, 2016		
	Avg.	Min	Max	Avg.	Min	Max	Avg.	Min	Max
CIB trading VaR by risk type									
Fixed income	\$28	\$24	\$31	\$28	\$25	\$31	\$49	\$38	\$65
Foreign exchange	13	6	20	8	5	12	16	10	27
Equities	12	11	14	12	9	16	8	5	10
Commodities and other	6	4	8	8	6	10	9	7	11
Diversification benefit to CIB trading VaR	(31) ^(a)	NM ^(b)	NM ^(b)	(30) ^(a)	NM ^(b)	NM ^(b)	(42) ^(a)	NM ^(b)	NM ^(b)
CIB trading VaR	28	24	32	26	20	31	40	34	50
Credit portfolio VaR	5	5	6	9	6	10	13	11	16
Diversification benefit to CIB VaR	(3) ^(a)	NM ^(b)	NM ^(b)	(8) ^(a)	NM ^(b)	NM ^(b)	(10) ^(a)	NM ^(b)	NM ^(b)
CIB VaR	30	25	33	27	22	32	43	37	51
CCB VaR	2	1	3	2	2	3	3	2	4
Corporate VaR	3	1	3	3	2	3	3	3	5
Diversification benefit to other VaR	(1) ^(a)	NM ^(b)	NM ^(b)	(2) ^(a)	NM ^(b)	NM ^(b)	(1) ^(a)	NM ^(b)	NM ^(b)
Other VaR	4	3	5	3	3	4	5	4	6
Diversification benefit to CIB and other VaR	(4) ^(a)	NM ^(b)	NM ^(b)	(3) ^(a)	NM ^(b)	NM ^(b)	(5) ^(a)	NM ^(b)	NM ^(b)
Total VaR	\$30	\$26	\$34	\$27	\$22	\$33	\$43	\$37	\$49

(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 the fact that the risks are not perfectly correlated.

(b) Designated as NM, because the minimum and maximum may occur on different days for different risk components, and hence it is not meaningful to compute a portfolio-diversification effect.

Quarter over Quarter results

Average total VaR increased by \$3 million for the three months ended September 30, 2017 as compared with the prior quarter, reflecting a change in exposure profile for the Foreign exchange risk type, partially offset by reduced volatility in the one-year historical look-back period.

Year over Year results

Average total VaR decreased by \$13 million for the three months ended September 30, 2017, compared with the same period in the prior year. The decrease in average total VaR is primarily in the Fixed income risk type. The reduction reflects enhancements to VaR models to more appropriately reflect risk exposure for certain asset backed products and reduced volatility in the one-year historical look-back period.

The Firm refined the historical proxy time series inputs to certain VaR models during the first quarter of 2017. In the absence of this refinement, the average Total VaR for the three months ended September 30, 2017 would have been higher by \$4 million and each of the components would have been higher by the amounts reported in the following table:

(in millions)	Amount by which reported VaR would have been higher for the three months
---------------	--

ended
September
30, 2017

CIB fixed income VaR \$ 4

CIB trading VaR 5

CIB VaR 5

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

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 DVA), 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 nine months ended September 30, 2017. 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 nine months ended September 30, 2017, the Firm observed eight VaR back-testing exceptions and posted gains on 126 of the 194 days. The Firm observed one VaR back-testing exception and posted gains on 46 of the 65 days for the three months ended September 30, 2017.

Daily Market Risk-Related Gains and Losses
vs. Risk Management VaR (1-day, 95% Confidence level)
Nine months ended September 30, 2017

Market Risk-Related Gains and Losses

Risk Management VaR
First Quarter 2017 Second Quarter 2017 Third Quarter 2017

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 earnings-at-risk, see the table on page 117 of JPMorgan Chase's 2016 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). 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 modeled 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 (in billions)	Instantaneous change in rates	+200bps	+100bps	-100bps	-200bps
September 30, 2017	\$2.9\$	1.9	\$(4.0) ^(a)	NM ^(b)	
December 31, 2016	\$4.0\$	2.4	NM	^(b) NM	^(b)

(a) As a result of the June 2017 increase in the Fed Funds target rate to between 1.00% and 1.25%, the -100 bps sensitivity has been included.

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

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 \$600 million and \$400 million, respectively, at September 30, 2017. The non-U.S. dollar sensitivity for an instantaneous decrease in rates by 200 and 100 basis points is not material to the Firm's earnings-at-risk at September 30, 2017.

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

The Firm's net U.S. dollar sensitivity to 200 and 100 basis points instantaneous increase in rates decreased by approximately \$1.1 billion and \$500 million, respectively, when compared to December 31, 2016. The primary driver of that decrease was the updating of the Firm's baseline to reflect higher interest rates. As higher interest rates are reflected in the Firm's baselines, the magnitude of the sensitivity to further increases in rates would be expected to be less significant.

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 \$700 million. 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 result of the comparable

non-U.S. dollar scenario was not material to the Firm.

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 117 of JPMorgan Chase's 2016 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 September 30, 2017 and December 31, 2016, 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)			September 30, 2017	December 31, 2016
Activity	Description	Sensitivity measure		
Investment activities				
Investment management activities	Consists of seed capital and related hedges; and fund co-investments	10% decline in market value	\$ (103)	\$ (166)
Other investments	Consists of private equity and other investments held at fair value	10% decline in market value	(376)	(358)
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	1 basis point parallel tightening of cross currency basis	(10)	(7)
Non-USD LTD hedges foreign currency ("FX") exposure	Primarily represents the foreign exchange revaluation on the fair value of the derivative hedges	10% depreciation of currency	(12)	(23)
Funding spread risk – derivatives	Impact of changes in the spread related to derivatives DVA/FVA	1 basis point parallel increase in spread	(5)	(4)
Funding spread risk – fair value option elected liabilities ^(a)	Impact of changes in the spread related to fair value option elected liabilities DVA	1 basis point parallel increase in spread	19	17

(a) Impact recognized through OCI.

CRITICAL
ACCOUNTING
ESTIMATES
USED BY THE
FIRM

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 discussion of these components, areas of judgment and methodologies used in establishing the Firm's allowance for credit losses, see pages 105–107, pages 132–133 and Note 15 of JPMorgan Chase's 2016 Annual Report; and see Allowance for credit losses on pages 64–66 and Note 12 of this Form 10-Q.

As noted in the discussion on pages 132–133 of JPMorgan Chase's 2016 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. During the second quarter of 2017, the Firm refined its loss estimates relating to the wholesale portfolio. See Note 12 of this Form 10-Q for further discussion. The use of alternate estimates, data sources, adjustments to modeled loss estimates for model imprecision and other factors

would result in a different estimated allowance for credit losses, as well as impact any related sensitivities described below.

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 September 30, 2017, 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 \$550 million for PCI loans.

• an increase to modeled annual credit loss estimates of approximately \$100 million for the residential real estate, 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 \$975 million.

• An increase in 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, see Note 2.

September 30, 2017 (in billions, except ratios)	Total assets at fair value	Total level 3 assets
Trading—debt and equity instruments	\$362.1	\$6.1
Derivative receivables ^(a)	58.3	5.5
Trading assets	420.4	11.6
AFS securities	216.2	0.5
Loans	1.7	0.3
MSRs	5.7	5.7
Other	26.5	1.8
Total assets measured at fair value on a recurring basis	\$670.5	\$19.9
Total assets measured at fair value on a nonrecurring basis	1.1	0.8
Total assets measured at fair value	\$671.6	\$20.7
Total Firm assets	\$2,563.1	
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 %

For purposes of the table above, the derivative receivables total reflects the impact of netting adjustments; however, the \$5.5 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 models 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 further discussion of the valuation of level 3 instruments, including unobservable inputs used, see 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 further discussion of valuation adjustments applied by the Firm see 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, see Note 2.

Goodwill impairment

Management applies significant judgment when testing goodwill for impairment. For a description of the significant valuation judgments associated with goodwill impairment, see Goodwill impairment on pages 133–134 of JPMorgan Chase's 2016 Annual Report.

For the three months ended September 30, 2017, the Firm reviewed current conditions (including the estimated effects of regulatory and legislative changes and 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 September 30, 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.

For additional information on goodwill, see Note 14.

Income taxes

For a description of the significant assumptions, judgments and interpretations associated with the accounting for income taxes, see Income taxes on page 134 of JPMorgan Chase's 2016 Annual Report.

Litigation reserves

For a description of the significant estimates and judgments associated with establishing litigation reserves, see Note 21 of this Form 10-Q, and Note 31 of JPMorgan Chase's 2016 Annual Report.

ACCOUNTING
AND REPORTING
DEVELOPMENTS

Financial Accounting Standards Board ("FASB") Standards Issued but not yet Adopted

Standard	Summary of guidance	Effects on financial statements
Revenue recognition – revenue from contracts with customers Issued May 2014	<ul style="list-style-type: none"> • 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. • May be adopted using a full retrospective approach or 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. 	<ul style="list-style-type: none"> • Required effective date: January 1, 2018^(a) • Because the guidance does not apply to revenue associated with financial instruments, including loans and securities that are accounted for under other U.S. GAAP, the Firm does not expect the new revenue recognition guidance to have a material impact on the elements of its Consolidated statements of income most closely associated with financial instruments, including securities gains, interest income and interest expense. • The Firm plans to adopt the revenue recognition guidance in the first quarter of 2018 using the modified retrospective method of adoption. • The Firm's implementation efforts include the identification of revenue and associated costs within the scope of the guidance, as well as the evaluation of revenue contracts, and any changes to existing revenue recognition policies. While the Firm has not yet identified any material changes in the timing of revenue recognition, the Firm's review is ongoing, and it continues to evaluate the presentation of certain contract costs (whether presented gross or offset against noninterest revenue). Based on its implementation work to date, the Firm expects it will be required to present certain underwriting costs (currently offset against Investment banking fees), as well as certain distribution costs (currently offset against Asset management, administration and commissions) gross as non-interest expense upon adoption. The Firm plans to expand its quantitative and qualitative disclosures within the noninterest revenue and noninterest expense note to the Consolidated Financial Statements. • Required effective date: January 1, 2018^(a) • The Firm early adopted the provisions of this guidance related to presenting DVA in OCI for financial liabilities where the fair value option has been elected, effective January 1, 2016. The Firm plans to adopt the portions of the guidance that were not eligible for early adoption in the first quarter of 2018. • The Firm is currently evaluating the additional impacts on the Consolidated Financial Statements. The Firm's implementation efforts include the identification of securities within the scope of the guidance, the evaluation of the measurement alternative available for equity securities without a readily determinable fair value, and the related impact to accounting policies, presentation, and disclosures. The Firm expects to elect the measurement alternative for the majority of its equity investments that do not have readily determinable fair values. • Required effective date: January 1, 2019^(a)
Recognition and measurement of financial assets and financial liabilities Issued January 2016	<ul style="list-style-type: none"> • Requires that certain equity instruments be measured at fair value, with changes in fair value recognized in earnings. • Generally requires a cumulative-effect adjustment to retained earnings as of the beginning of the reporting period of adoption, except for those equity investments that are eligible for the measurement alternative. 	
Leases		

<p>Issued February 2016</p>	<ul style="list-style-type: none"> • Requires lessees to recognize all leases longer than twelve months on the Consolidated balance sheets as lease liabilities with corresponding right-of-use assets. • Requires lessees and lessors to classify most leases using principles similar to existing lease accounting, but eliminates the “bright line” classification tests. • Expands qualitative and quantitative disclosures regarding leasing arrangements. • Requires adoption using a modified cumulative effect approach wherein the guidance is applied to all periods presented. • Replaces existing incurred loss impairment guidance and establishes a single allowance framework for financial assets carried at amortized cost (including HTM securities), 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 impairment losses 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. 	<ul style="list-style-type: none"> • The Firm is in the process of its implementation which has included an initial evaluation of its leasing contracts and activities. As a lessee, the Firm is developing its methodology to estimate the right-of-use assets and lease liabilities, which is based on the present value of lease payments. The Firm expects to recognize lease liabilities and corresponding right-of-use assets (at their present value) related to predominantly all of the \$10 billion of future minimum payments required under operating leases as disclosed in Note 30 of JPMorgan Chase’s 2016 Annual report. However, the population of contracts subject to balance sheet recognition and their initial measurement remains under evaluation. 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 guidance in the first quarter of 2019. • Required effective date: January 1, 2020^(a) • The Firm has begun its implementation efforts by establishing a Firmwide, cross-discipline governance structure. The Firm is currently identifying key interpretive issues, and is assessing existing credit loss forecasting models and processes against the new guidance to determine what modifications may be required. The Firm is also evaluating the timing of adoption, as early adoption is permitted as of January 1, 2019. • The Firm expects that the new guidance will result in an increase in its allowance for credit losses due to several factors, including: <ol style="list-style-type: none"> 1. 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 2. The nonaccretable difference on PCI loans will be recognized as an allowance, offset by an increase in the carrying value of the related loans 3. An allowance will be established for estimated credit losses on HTM securities • The extent of the increase 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.
<p>Financial instruments – credit losses Issued June 2016</p>		

FASB Standards Issued but not yet Adopted (continued)

Standard	Summary of guidance	Effects on financial statements
Classification of certain cash receipts and cash payments in the statement of cash flows Issued August 2016	<ul style="list-style-type: none"> • Provides targeted amendments to the classification of certain cash flows, including treatment of cash payments for settlement of zero-coupon debt instruments and distributions received from equity method investments. • Requires retrospective application to all periods presented. • Requires inclusion of restricted cash in the cash and cash equivalents balances in the Consolidated statements of cash flows. • Requires additional disclosures to supplement the Consolidated statements of cash flows. • Requires retrospective application to all periods presented. 	<ul style="list-style-type: none"> • Required effective date: January 1, 2018^(a) • No material impact is expected because the Firm is either already in compliance with the new guidance or the balances to which it would be applied are immaterial. The Firm plans to adopt the new guidance in the first quarter of 2018.
Treatment of restricted cash on the statement of cash flows Issued November 2016	<ul style="list-style-type: none"> • Narrows the definition of a business and clarifies that, to be considered a business, the fair value of the gross assets acquired (or disposed of) may not be substantially all concentrated in a single identifiable asset or a group of similar assets. • In addition, in order to be considered a business, 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. • Requires an impairment loss to be recognized when the estimated fair value of a reporting unit falls below its carrying value. • Eliminates the second condition in the current guidance that requires an impairment loss to be recognized only if the estimated implied fair value of the goodwill is below its carrying value. • Requires the service cost component of net periodic pension and postretirement benefit cost to be reported separately in the consolidated results of operations from the other 	<ul style="list-style-type: none"> • Required effective date: January 1, 2018^(a) • The guidance will have no impact on the Firm's Consolidated statements of income or Consolidated balance sheets, but will result in reclassification of restricted cash balances and associated changes on the Consolidated statements of cash flows. • The Firm plans to adopt the new guidance in the first quarter of 2018.
Definition of a business Issued January 2017	<ul style="list-style-type: none"> • Narrows the definition of a business and clarifies that, to be considered a business, the fair value of the gross assets acquired (or disposed of) may not be substantially all concentrated in a single identifiable asset or a group of similar assets. • In addition, in order to be considered a business, 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. • Requires an impairment loss to be recognized when the estimated fair value of a reporting unit falls below its carrying value. • Eliminates the second condition in the current guidance that requires an impairment loss to be recognized only if the estimated implied fair value of the goodwill is below its carrying value. • Requires the service cost component of net periodic pension and postretirement benefit cost to be reported separately in the consolidated results of operations from the other 	<ul style="list-style-type: none"> • Required effective date: January 1, 2018^(a) • No material impact is expected because the guidance is to be applied prospectively, although it is anticipated that after adoption, fewer transactions will be treated as acquisitions or dispositions of a business. The Firm plans to adopt the new guidance in the first quarter of 2018.
Goodwill Issued January 2017	<ul style="list-style-type: none"> • Narrows the definition of a business and clarifies that, to be considered a business, the fair value of the gross assets acquired (or disposed of) may not be substantially all concentrated in a single identifiable asset or a group of similar assets. • In addition, in order to be considered a business, 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. • Requires an impairment loss to be recognized when the estimated fair value of a reporting unit falls below its carrying value. • Eliminates the second condition in the current guidance that requires an impairment loss to be recognized only if the estimated implied fair value of the goodwill is below its carrying value. • Requires the service cost component of net periodic pension and postretirement benefit cost to be reported separately in the consolidated results of operations from the other 	<ul style="list-style-type: none"> • 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. • After adoption, the guidance may result in more frequent goodwill impairment losses due to the removal of the second condition. • The Firm is evaluating the timing of adoption.
Presentation of net periodic pension cost and net periodic postretirement benefit cost	<ul style="list-style-type: none"> • Narrows the definition of a business and clarifies that, to be considered a business, the fair value of the gross assets acquired (or disposed of) may not be substantially all concentrated in a single identifiable asset or a group of similar assets. • In addition, in order to be considered a business, 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. • Requires an impairment loss to be recognized when the estimated fair value of a reporting unit falls below its carrying value. • Eliminates the second condition in the current guidance that requires an impairment loss to be recognized only if the estimated implied fair value of the goodwill is below its carrying value. • Requires the service cost component of net periodic pension and postretirement benefit cost to be reported separately in the consolidated results of operations from the other 	<ul style="list-style-type: none"> • Required effective date: January 1, 2018^(a) • The guidance will have no impact on the Firm's net income, but based on recent trends, the Firm expects that the guidance will result in an increase in compensation expense and a reduction in other

Issued March 2017	<p>components (e.g., expected return on assets, interest costs, amortization of gains/losses and prior service costs).</p> <ul style="list-style-type: none"> • Requires presentation in the consolidated results of operations of the service cost component in the same line item as other employee compensation costs and presentation of the other components in a different line item from the service cost component. 	<p>expense. The Firm plans to adopt the new guidance in the first quarter of 2018.</p>
<p>Premium amortization on purchased callable debt securities</p> <p>Issued March 2017</p>	<ul style="list-style-type: none"> • 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 securities held at a discount; the discount continues to be amortized to the contractual maturity. • Requires adoption on a modified retrospective basis through a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption. • Reduces earnings volatility by better aligning the accounting with the economics of the risk management activities. 	<ul style="list-style-type: none"> • Required effective date: January 1, 2019^(a) • The Firm is currently evaluating the impact on the Consolidated Financial Statements as well as the timing of adoption. At adoption, the guidance is expected to result in a cumulative effect adjustment which will reduce retained earnings which, for AFS securities, would have a corresponding increase in AOCI. Post-adoption, it will result in reduced interest income prior to the call date on callable debt securities held at a premium because those premiums will be amortized over a shorter time period. • The Firm's implementation efforts include identifying the population of debt securities subject to the new guidance (primarily obligations of U.S. states and municipalities) and quantifying the expected impact.
<p>Hedge accounting</p> <p>Issued August 2017</p>	<ul style="list-style-type: none"> • 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. • Allows a one-time election at adoption to transfer certain securities classified as held-to-maturity to available-for-sale. • Simplifies hedge documentation requirements. 	<ul style="list-style-type: none"> • Required effective date: January 1, 2019^(a) • The Firm's implementation efforts include identifying the population of hedge activity subject to the new guidance, evaluating the various transition elections and the timing of adoption, and determining the potential impact on the Consolidated Financial Statements.

(a) Early adoption is permitted.

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 expense;
- 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 and integrity of its financial, accounting, technology, data processing and other operating systems and facilities;

- Ability of the Firm to effectively defend itself against cyberattacks and other attempts by unauthorized parties to access the Firm's information or disrupt its systems; and

¶The other risks and uncertainties detailed in Part I,

Item 1A: Risk Factors in JPMorgan Chase's 2016 Annual Report on Form 10-K for the year ended December 31, 2016.

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 forward-looking statements to reflect the impact of circumstances or events that arise after the date the forward-looking statements were made. 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 September 30, 2017		Nine months ended September 30, 2016	
(in millions, except per share data)				
Revenue				
Investment banking fees	\$1,843	\$1,866	\$5,470	\$4,843
Principal transactions	2,721	3,451	9,440	9,106
Lending- and deposit-related fees	1,497	1,484	4,427	4,290
Asset management, administration and commissions	3,846	3,597	11,347	10,902
Securities gains/(losses)	(1)	64	(38)	136
Mortgage fees and related income	429	624	1,239	1,980
Card income	1,242	1,202	3,323	3,861
Other income	951	782	3,193	2,844
Noninterest revenue	12,528	13,070	38,401	37,962
Interest income	16,687	14,070	47,379	41,435
Interest expense	3,889	2,467	10,309	7,105
Net interest income	12,798	11,603	37,070	34,330
Total net revenue	25,326	24,673	75,471	72,292
Provision for credit losses	1,452	1,271	3,982	4,497
Noninterest expense				
Compensation expense	7,646	7,669	23,553	23,107
Occupancy expense	930	899	2,803	2,681
Technology, communications and equipment expense	1,972	1,741	5,670	5,024
Professional and outside services	1,705	1,665	4,892	4,913
Marketing	710	825	2,179	2,200
Other expense	1,355	1,664	4,746	4,013
Total noninterest expense	14,318	14,463	43,843	41,938
Income before income tax expense	9,556	8,939	27,646	25,857
Income tax expense	2,824	2,653	7,437	7,851
Net income	\$6,732	\$6,286	\$20,209	\$18,006
Net income applicable to common stockholders ^(a)	\$6,262	\$5,812	\$18,786	\$16,584
Net income per common share data				
Basic earnings per share	\$1.77	\$1.60	\$5.26	\$4.51
Diluted earnings per share	1.76	1.58	5.22	4.48
Weighted-average basic shares ^(a)	3,534.7	3,637.7	3,570.9	3,674.6
Weighted-average diluted shares ^(a)	3,559.6	3,669.8	3,597.0	3,704.5
Cash dividends declared per common share	\$0.56	\$0.48	\$1.56	\$1.40

^(a) The prior period amounts have been revised to conform with the current period presentation. The revision had no impact on the Firm's reported earnings per share.

The Notes to Consolidated Financial Statements (unaudited) are an integral part of these statements.

JPMorgan Chase & Co.

Consolidated statements of comprehensive income (unaudited)

	Three months ended September 30,		Nine months ended September 30,	
(in millions)	2017	2016	2017	2016
Net income	\$6,732	\$6,286	\$20,209	\$18,006
Other comprehensive income/(loss), after-tax				
Unrealized gains/(losses) on investment securities	147	(160)	842	1,132
Translation adjustments, net of hedges	—	4	7	5
Cash flow hedges	26	36	170	(121)
Defined benefit pension and OPEB plans	22	42	26	123
DVA on fair value option elected liabilities	(112)	(66)	(179)	(11)
Total other comprehensive income/(loss), after-tax	83	(144)	866	1,128
Comprehensive income	\$6,815	\$6,142	\$21,075	\$19,134

The Notes to Consolidated Financial Statements (unaudited) are an integral part of these statements.

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JPMorgan Chase & Co.

Consolidated balance sheets (unaudited)

(in millions, except share data)	Sep 30, 2017	Dec 31, 2016
Assets		
Cash and due from banks	\$21,994	\$23,873
Deposits with banks	435,810	365,762
Federal funds sold and securities purchased under resale agreements (included \$16,545 and \$21,506 at fair value)	185,454	229,967
Securities borrowed (included \$3,080 and \$0 at fair value)	101,680	96,409
Trading assets (included assets pledged of \$124,872 and \$115,847)	420,418	372,130
Securities (included \$216,209 and \$238,891 at fair value and assets pledged of \$16,771 and \$16,115)	263,288	289,059
Loans (included \$1,746 and \$2,230 at fair value)	913,761	894,765
Allowance for loan losses	(13,539)	(13,776)
Loans, net of allowance for loan losses	900,222	880,989
Accrued interest and accounts receivable	61,757	52,330
Premises and equipment	14,218	14,131
Goodwill	47,309	47,288
Mortgage servicing rights	5,738	6,096
Other intangible assets	808	862
Other assets (included \$7,509 and \$7,557 at fair value and assets pledged of \$1,491 and \$1,603)	104,378	112,076
Total assets^(a)	\$2,563,074	\$2,490,972
Liabilities		
Deposits (included \$21,157 and \$13,912 at fair value)	\$1,439,027	\$1,375,179
Federal funds purchased and securities loaned or sold under repurchase agreements (included \$714 and \$687 at fair value)	169,393	165,666
Commercial paper	24,248	11,738
Other borrowed funds (included \$8,730 and \$9,105 at fair value)	29,719	22,705
Trading liabilities	128,535	136,659
Accounts payable and other liabilities (included \$12,557 and \$9,120 at fair value)	196,764	190,543
Beneficial interests issued by consolidated VIEs (included \$118 and \$120 at fair value)	28,424	39,047
Long-term debt (included \$44,170 and \$37,686 at fair value)	288,582	295,245
Total liabilities^(a)	2,304,692	2,236,782
Commitments and contingencies (see Notes 19, 20 and 21)		
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	90,697	91,627
Retained earnings	175,827	162,440
Accumulated other comprehensive (loss)	(309)	(1,175)
Shares held in restricted stock units ("RSU") Trust, at cost (472,953 shares)	(21)	(21)
Treasury stock, at cost (635,208,318 and 543,744,003 shares)	(37,985)	(28,854)
Total stockholders' equity	258,382	254,190
Total liabilities and stockholders' equity	\$2,563,074	\$2,490,972

The following table presents information on assets and liabilities related to VIEs that are consolidated by the Firm (a) at September 30, 2017, and December 31, 2016. The difference between total VIE assets and liabilities represents the Firm's interests in those entities, which are eliminated in consolidation.

(in millions)	Sep 30, 2017	Dec 31, 2016
Assets		
Trading assets	\$1,595	\$3,185
Loans	69,052	75,614
All other assets	2,698	3,321
Total assets	\$73,345	\$82,120
Liabilities		
Beneficial interests issued by consolidated VIEs	\$28,424	\$39,047
All other liabilities	412	490
Total liabilities	\$28,836	\$39,537

The assets of the consolidated VIEs are used to settle the liabilities of those entities. The holders of the beneficial interests do not have recourse to the general credit of JPMorgan Chase. At September 30, 2017, and December 31, 2016, the Firm provided limited program-wide credit enhancements of \$2.7 billion and \$2.4 billion, respectively, related to its Firm-administered multi-seller conduits, which are eliminated in consolidation. For further discussion, see Note 13.

The Notes to Consolidated Financial Statements (unaudited) are an integral part of these statements.

JPMorgan Chase & Co.

Consolidated statements of changes in stockholders' equity (unaudited)

(in millions, except per share data)	Nine months ended September 30,	
	2017	2016
Preferred stock		
Balance at January 1 and September 30	\$26,068	\$26,068
Common stock		
Balance at January 1 and September 30	4,105	4,105
Additional paid-in capital		
Balance at January 1	91,627	92,500
Shares issued and commitments to issue common stock for employee stock-based compensation awards, and related tax effects	(680)	(380)
Other	(250)	(17)
Balance at September 30	90,697	92,103
Retained earnings		
Balance at January 1	162,440	146,420
Cumulative effect of change in accounting principle	—	(154)
Net income	20,209	18,006
Dividends declared:		
Preferred stock	(1,235)	(1,235)
Common stock (\$1.56 and \$1.40 per share)	(5,587)	(5,167)
Balance at September 30	175,827	157,870
Accumulated other comprehensive income/(loss)		
Balance at January 1	(1,175)	192
Cumulative effect of change in accounting principle	—	154
Other comprehensive income	866	1,128
Balance at September 30	(309)	1,474
Shares held in RSU Trust, at cost		
Balance at January 1 and September 30	(21)	(21)
Treasury stock, at cost		
Balance at January 1	(28,854)	(21,691)
Purchase of treasury stock	(10,602)	(6,831)
Reissuance from treasury stock	1,471	1,254
Balance at September 30	(37,985)	(27,268)
Total stockholders' equity	\$258,382	\$254,331

The Notes to Consolidated Financial Statements (unaudited) are an integral part of these statements.

JPMorgan Chase & Co.

Consolidated statements of cash flows (unaudited)

	Nine months ended September 30,	
(in millions)	2017	2016
Net income	\$20,209	\$18,006
Adjustments to reconcile net income to net cash provided by operating activities:		
Provision for credit losses	3,982	4,497
Depreciation and amortization	4,547	4,032
Deferred tax (benefit)/expense	(187)	851
Other	1,655	1,424
Originations and purchases of loans held-for-sale	(75,907)	(32,619)
Proceeds from sales, securitizations and paydowns of loans held-for-sale	75,255	31,756
Net change in:		
Trading assets	(31,189)	(44,082)
Securities borrowed	(5,191)	(10,475)
Accrued interest and accounts receivable	(9,795)	(17,731)
Other assets	18,835	(6,428)
Trading liabilities	(23,162)	23,308
Accounts payable and other liabilities	(2,948)	5,655
Other operating adjustments	7,858	3,091
Net cash used in operating activities	(16,038)	(18,715)
Investing activities		
Net change in:		
Deposits with banks	(70,048)	(56,185)
Federal funds sold and securities purchased under resale agreements	44,463	(20,048)
Held-to-maturity securities:		
Proceeds from paydowns and maturities	3,508	4,442
Purchases	(594)	(134)
Available-for-sale securities:		
Proceeds from paydowns and maturities	43,536	49,652
Proceeds from sales	57,640	34,971
Purchases	(73,717)	(66,767)
Proceeds from sales and securitizations of loans held-for-investment	11,600	8,761
Other changes in loans, net	(39,385)	(65,204)
All other investing activities, net	655	(1,590)
Net cash used in investing activities	(22,342)	(112,102)
Financing activities		
Net change in:		
Deposits	51,352	113,365
Federal funds purchased and securities loaned or sold under repurchase agreements	3,731	15,797
Commercial paper and other borrowed funds	19,006	(469)
Beneficial interests issued by consolidated VIEs	(1,312)	(4,767)
Proceeds from long-term borrowings	46,311	72,021
Payments of long-term borrowings	(65,932)	(51,054)
Treasury stock purchased	(10,602)	(6,831)
Dividends paid	(6,478)	(6,189)
All other financing activities, net	329	(174)
Net cash provided by financing activities	36,405	131,699
Effect of exchange rate changes on cash and due from banks	96	18

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Net increase/(decrease) in cash and due from banks	(1,879) 900
Cash and due from banks at the beginning of the period	23,873	20,490
Cash and due from banks at the end of the period	\$21,994	\$21,390
Cash interest paid	\$10,294	\$6,922
Cash income taxes paid, net	3,238	1,810

The Notes to Consolidated Financial Statements (unaudited) are an integral part of these statements.

See the Glossary of Terms and Acronyms on pages 168–175 for definitions of terms and acronyms used throughout the Notes to Consolidated Financial Statements.

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 business, commercial banking, financial transaction processing and asset management. For a discussion of the Firm’s business segments, see Note 22.

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 2016 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, see Notes 1 and 16 of JPMorgan Chase’s 2016 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 net 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, see Note 1 of JPMorgan Chase’s 2016 Annual Report.

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, see Note 3 of JPMorgan Chase’s 2016 Annual Report.

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The following table presents the assets and liabilities reported at fair value as of September 30, 2017, and December 31, 2016, by major product category and fair value hierarchy.

Assets and liabilities measured at fair value on a recurring basis

September 30, 2017 (in millions)	Fair value hierarchy			Derivative netting adjustments	Total fair value
	Level 1	Level 2	Level 3		
Federal funds sold and securities purchased under resale agreements	\$—	\$16,545	\$—	\$—	\$16,545
Securities borrowed	—	3,080	—	—	3,080
Trading assets:					
Debt instruments:					
Mortgage-backed securities:					
U.S. government agencies ^(a)	—	37,406	323	—	37,729
Residential – nonagency	—	1,634	107	—	1,741
Commercial – nonagency	—	1,489	27	—	1,516
Total mortgage-backed securities	—	40,529	457	—	40,986
U.S. Treasury and government agencies ^(a)	33,625	6,246	1	—	39,872
Obligations of U.S. states and municipalities	—	6,742	715	—	7,457
Certificates of deposit, bankers' acceptances and commercial paper	—	2,147	—	—	2,147
Non-U.S. government debt securities	32,227	32,036	80	—	64,343
Corporate debt securities	—	25,538	361	—	25,899
Loans ^(b)	—	34,322	3,207	—	37,529
Asset-backed securities	—	2,428	271	—	2,699
Total debt instruments	65,852	149,988	5,092	—	220,932
Equity securities	123,229	383	288	—	123,900
Physical commodities ^(c)	3,253	1,119	—	—	4,372
Other	—	12,212	691	—	12,903
Total debt and equity instruments ^(d)	192,334	163,702	6,071	—	362,107
Derivative receivables:					
Interest rate	297	473,589	1,884	(450,069)	25,701
Credit	—	24,103	1,593	(24,781)	915
Foreign exchange	848	167,191	564	(151,526)	17,077
Equity	—	39,771	1,298	(32,238)	8,831
Commodity	—	17,759	142	(12,165)	5,736
Total derivative receivables ^(e)	1,145	722,413	5,481	(670,779)	58,260
Total trading assets ^(f)	193,479	886,115	11,552	(670,779)	420,367
Available-for-sale securities:					
Mortgage-backed securities:					
U.S. government agencies ^(a)	—	71,355	—	—	71,355
Residential – nonagency	—	13,075	1	—	13,076
Commercial – nonagency	—	6,118	—	—	6,118
Total mortgage-backed securities	—	90,548	1	—	90,549
U.S. Treasury and government agencies ^(a)	26,209	—	—	—	26,209
Obligations of U.S. states and municipalities	—	32,092	—	—	32,092
Certificates of deposit	—	58	—	—	58
Non-U.S. government debt securities	20,101	11,186	—	—	31,287
Corporate debt securities	—	3,759	—	—	3,759
Asset-backed securities:					
Collateralized loan obligations	—	22,017	486	—	22,503

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Other		9,200	—	—	9,200
Equity securities	552	—	—	—	552
Total available-for-sale securities	46,862	168,860	487	—	216,209
Loans	—	1,469	277	—	1,746
Mortgage servicing rights	—	—	5,738	—	5,738
Other assets ^(f)	4,905	—	1,871	—	6,776
Total assets measured at fair value on a recurring basis	\$245,246	\$1,076,069	\$19,925	\$(670,779)	\$670,461
Deposits	\$—	\$17,319	\$3,838	\$—	\$21,157
Federal funds purchased and securities loaned or sold under repurchase agreements	—	713	1	—	714
Other borrowed funds	—	7,259	1,471	—	8,730
Trading liabilities:					
Debt and equity instruments ^(d)	65,973	23,073	43	—	89,089
Derivative payables:					
Interest rate	220	438,880	1,220	(433,155)	7,165
Credit	—	24,540	1,629	(24,499)	1,670
Foreign exchange	895	161,820	1,103	(150,794)	13,024
Equity	—	41,590	3,673	(35,387)	9,876
Commodity	—	20,381	242	(12,912)	7,711
Total derivative payables ^(e)	1,115	687,211	7,867	(656,747)	39,446
Total trading liabilities	67,088	710,284	7,910	(656,747)	128,535
Accounts payable and other liabilities	12,548	—	9	—	12,557
Beneficial interests issued by consolidated VIEs	—	—	118	—	118
Long-term debt	—	27,519	16,651	—	44,170
Total liabilities measured at fair value on a recurring basis	\$79,636	\$763,094	\$29,998	\$(656,747)	\$215,981

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December 31, 2016 (in millions)	Fair value hierarchy			Derivative netting adjustments	Total fair value
	Level 1	Level 2	Level 3		
Federal funds sold and securities purchased under resale agreements	\$—	\$21,506	\$—	\$—	\$21,506
Securities borrowed	—	—	—	—	—
Trading assets:					
Debt instruments:					
Mortgage-backed securities:					
U.S. government agencies ^(a)	13	40,586	392	—	40,991
Residential – nonagency	—	1,552	83	—	1,635
Commercial – nonagency	—	1,321	17	—	1,338
Total mortgage-backed securities	13	43,459	492	—	43,964
U.S. Treasury and government agencies ^(a)	19,554	5,201	—	—	24,755
Obligations of U.S. states and municipalities	—	8,403	649	—	9,052
Certificates of deposit, bankers' acceptances and commercial paper	—	1,649	—	—	1,649
Non-U.S. government debt securities	28,443	23,076	46	—	51,565
Corporate debt securities	—	22,751	576	—	23,327
Loans ^(b)	—	28,965	4,837	—	33,802
Asset-backed securities	—	5,250	302	—	5,552
Total debt instruments	48,010	138,754	6,902	—	193,666
Equity securities	96,759	281	231	—	97,271
Physical commodities ^(c)	5,341	1,620	—	—	6,961
Other	—	9,341	761	—	10,102
Total debt and equity instruments ^(d)	150,110	149,996	7,894	—	308,000
Derivative receivables:					
Interest rate	715	602,747	2,501	(577,661)	28,302
Credit	—	28,256	1,389	(28,351)	1,294
Foreign exchange	812	231,743	870	(210,154)	23,271
Equity	—	34,032	908	(30,001)	4,939
Commodity	158	18,360	125	(12,371)	6,272
Total derivative receivables ^(e)	1,685	915,138	5,793	(858,538)	64,078
Total trading assets ^(f)	151,795	1,065,134	13,687	(858,538)	372,078
Available-for-sale securities:					
Mortgage-backed securities:					
U.S. government agencies ^(a)	—	64,005	—	—	64,005
Residential – nonagency	—	14,442	1	—	14,443
Commercial – nonagency	—	9,104	—	—	9,104
Total mortgage-backed securities	—	87,551	1	—	87,552
U.S. Treasury and government agencies ^(a)	44,072	29	—	—	44,101
Obligations of U.S. states and municipalities	—	31,592	—	—	31,592
Certificates of deposit	—	106	—	—	106
Non-U.S. government debt securities	22,793	12,495	—	—	35,288
Corporate debt securities	—	4,958	—	—	4,958
Asset-backed securities:					
Collateralized loan obligations	—	26,738	663	—	27,401
Other	—	6,967	—	—	6,967
Equity securities	926	—	—	—	926
Total available-for-sale securities	67,791	170,436	664	—	238,891

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Loans	—	1,660	570	—	2,230
Mortgage servicing rights	—	—	6,096	—	6,096
Other assets ^(f)	4,357	—	2,223	—	6,580
Total assets measured at fair value on a recurring basis	\$223,943	\$1,258,736	\$23,240	\$(858,538)	\$647,381
Deposits	\$—	\$11,795	\$2,117	\$—	\$13,912
Federal funds purchased and securities loaned or sold under repurchase agreements	—	687	—	—	687
Other borrowed funds	—	7,971	1,134	—	9,105
Trading liabilities:					
Debt and equity instruments ^(d)	68,304	19,081	43	—	87,428
Derivative payables:					
Interest rate	539	569,001	1,238	(559,963)	10,815
Credit	—	27,375	1,291	(27,255)	1,411
Foreign exchange	902	231,815	2,254	(214,463)	20,508
Equity	—	35,202	3,160	(30,222)	8,140
Commodity	173	20,079	210	(12,105)	8,357
Total derivative payables ^(e)	1,614	883,472	8,153	(844,008)	49,231
Total trading liabilities	69,918	902,553	8,196	(844,008)	136,659
Accounts payable and other liabilities	9,107	—	13	—	9,120
Beneficial interests issued by consolidated VIEs	—	72	48	—	120
Long-term debt	—	23,792	13,894	—	37,686
Total liabilities measured at fair value on a recurring basis	\$79,025	\$946,870	\$25,402	\$(844,008)	\$207,289

(a) At September 30, 2017, and December 31, 2016, included total U.S. government-sponsored enterprise obligations of \$78.5 billion and \$80.6 billion, respectively, which were predominantly mortgage-related.

At September 30, 2017, and December 31, 2016, included within trading loans were \$16.1 billion and \$16.5 billion, respectively, of residential first-lien mortgages, and \$3.4 billion and \$3.3 billion, respectively, of

(b) commercial first-lien mortgages. Residential mortgage loans include conforming mortgage loans originated with the intent to sell to U.S. government agencies of \$10.2 billion and \$11.0 billion, respectively, and reverse mortgages of \$838 million and \$2.0 billion respectively.

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 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

(c) 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, see Note 4. To provide consistent fair value disclosure information, all physical commodities inventories have been included in each period presented.

(d) Balances reflect the reduction of securities owned (long positions) by the amount of identical securities sold but not yet purchased (short positions).

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.

- (e) 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 September 30, 2017, and December 31, 2016, the fair values of these investments, which include certain hedge funds, private equity funds, real estate and other funds, were \$784 million and \$1.0 billion, respectively. Included in these balances at September 30, 2017, and December 31, 2016, were trading assets of \$51 million and \$52 million, respectively, and other assets of \$733 million and \$977 million, respectively.

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

For the three months ended September 30, 2017 and 2016 and the nine months ended September 30, 2017 there were no individually significant transfers.

For the nine months ended September 30, 2016, transfers from level 3 to level 2 included \$1.3 billion of long-term debt driven by an increase in observability and a reduction of the significance in the unobservable inputs for certain structured notes.

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, see Note 3 of JPMorgan Chase's 2016 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-to-period 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 September 30, 2017, interest rate correlation inputs used in estimating fair value were concentrated towards the upper end of the range presented; equity correlation and 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 distributed across the

range; and the interest rate-foreign exchange (“IR-FX”) correlation inputs were concentrated towards the lower end of the range. In addition, the interest rate spread volatility inputs used in estimating fair value were distributed across the range presented; 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 in the middle of the range presented. Recovery rate, yield, prepayment speed, conditional default rate and loss severity inputs used in estimating the fair value of credit derivatives were distributed across the range; and credit spreads were concentrated towards the lower end of the range.

Level 3 inputs^(a)
September 30, 2017

Product/Instrument	Fair value (in millions)	Principal valuation technique	Unobservable inputs ^(g)	Range of input values			Weighted average	
Residential mortgage-backed securities and loans ^(b)	\$ 1,490	Discounted cash flows	Yield	4	% -16	%	6	%
			Prepayment speed	0	% -40	%	9	%
			Conditional default rate	0	% -10	%	1	%
			Loss severity	0	% -100	%	5	%
Commercial mortgage-backed securities and loans ^(c)	842	Market comparables	Price	\$ 1	-\$ 102		\$ 94	
Obligations of U.S. states and municipalities	715	Market comparables	Price	\$ 59	-\$ 100		\$ 97	
Corporate debt securities	361	Market comparables	Price	\$ 6	-\$ 109		\$ 73	
Loans ^(d)	1,610	Market comparables	Price	\$ 5	-\$ 105		\$ 82	
Asset-backed securities	486	Discounted cash flows	Credit spread	186bps-326bps			216bps	
			Prepayment speed	20		%	20	%
			Conditional default rate	2		%	2	%
			Loss severity	30		%	30	%
Net interest rate derivatives	271	Market comparables	Price	\$ 3	-\$ 179		\$ 92	
	605	Option pricing	Interest rate spread volatility	3	% -38	%		
			Interest rate correlation	(50)	% -98	%		
			IR-FX correlation	60	% -70	%		
Net credit derivatives	59	Discounted cash flows	Prepayment speed	4	% -25	%		
	(41)	Discounted cash flows	Credit correlation	40	% -75	%		
			Credit spread	6bps	-1502bps			
			Recovery rate	20	% -70	%		
Net foreign exchange derivatives	(345)	Option pricing	Yield	4	% -8	%		
			Prepayment speed	2	% -10	%		
			Conditional default rate	1	% -100	%		
	Net equity derivatives	5	Market comparables	Loss severity	30	% -100	%	
(194)		Discounted cash flows	Price	\$ 10	\$ 98			
			IR-FX correlation	(50)	% -70	%		
Net equity derivatives	(2,375)	Option pricing	Prepayment speed	7		%		
			Equity volatility	5	% -55	%		
			Equity correlation	(5)	% -90	%		
			Equity-FX correlation	(50)	% -30	%		
			Equity-IR correlation	10	% -40	%		

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Net commodity derivatives	(100)	Option pricing	Forward commodity price	\$46	-\$59 per barrel	
			Commodity volatility	19 %	-44 %	
			Commodity correlation	(52)%	-88 %	
MSRs	5,738	Discounted cash flows	Refer to Note 14			
Other assets	1,028	Discounted cash flows	Credit spread	40bps	-90bps	65bps
			Yield	8 %	-46 %	37%
	1,534	Market comparables	EBITDA multiple	6.8x	-11.5x	8.2x
	21,960	Option pricing	Interest rate spread volatility	3 %	-38 %	
			Interest rate correlation	(50)%	-98 %	
Long-term debt, other borrowed funds, and deposits ^(e)			IR-FX correlation	(50)%	-70 %	
			Equity correlation	(5)%	-90 %	
			Equity-FX correlation	(50)%	-30 %	
			Equity-IR correlation	10 %	-40 %	
Other level 3 assets and liabilities, net ^(f)	198					

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.

(a) Includes U.S. government agency securities of \$309 million, nonagency securities of \$108 million and trading loans of \$1.1 billion.

(b) Includes U.S. government agency securities of \$14 million, nonagency securities of \$27 million, trading loans of \$525 million and non-trading loans of \$276 million.

(c) Includes trading loans of \$1.6 billion and non-trading loans of \$1 million.

Long-term debt, other borrowed funds 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.

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

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 see Note 3 of JPMorgan Chase's 2016 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 nine months ended September 30, 2017 and 2016. 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.

Fair value measurements using significant unobservable inputs

Three months ended September 30, 2017 (in millions)	Fair value at July 1, 2017	Total realized/unrealized gains/(losses)	Purchases (in millions)	Sales (in millions)	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at September 30, 2017	Change in unrealized gains/(losses) related to financial instruments held at September 30, 2017	
Assets:									
Trading assets:									
Debt instruments:									
Mortgage-backed securities:									
U.S. government agencies	\$365	\$ (2)	\$ —	\$(15)	\$ (20)	\$ 10	\$(15)	\$ 323	\$ (2)
Residential – nonagency	98	6	4	(4)	(12)	50	(35)	107	5
Commercial – nonagency	65	3	10	(24)	—	3	(30)	27	3
Total mortgage-backed securities	528	7	14	(43)	(32)	63	(80)	457	6
U.S. Treasury and government agencies	—	—	—	—	—	1	—	1	—
Obligations of U.S. states and municipalities	681	3	31	—	—	—	—	715	3
Non-U.S. government debt securities	37	—	252	(217)	—	23	(15)	80	—
Corporate debt securities	461	7	193	(327)	(22)	68	(19)	361	8
Loans	4,488	131	564	(1,498)	(421)	246	(303)	3,207	71
Asset-backed securities	83	5	170	(10)	(8)	36	(5)	271	4
Total debt instruments	6,278	153	1,224	(2,095)	(483)	437	(422)	5,092	92
Equity securities	284	6	29	(40)	—	16	(7)	288	7
Other	731	20	5	(38)	(25)	—	(2)	691	16
Total trading assets – debt and equity instruments	7,293	179	(c)	1,258	(2,173)	453	(431)	6,071	115 (c)
Net derivative receivables: ^(a)									
Interest rate	712	101	16	(23)	(182)	21	19	664	(7)
Credit	(45)	(32)	—	(1)	(2)	40	4	(36)	(22)
Foreign exchange	(686)	16	9	(2)	68	(39)	95	(539)	37
Equity	(2,444)	(10)	355	(184)	(132)	(1)	41	(2,375)	82
Commodity	(58)	(30)	—	—	(3)	(2)	(7)	(100)	(51)
Total net derivative receivables	(2,521)	45	(c)	380	(251)	19	152	(2,386)	39 (c)
Available-for-sale securities:									
Asset-backed securities	547	2	—	—	(63)	—	—	486	2
Other	1	—	—	—	—	—	—	1	—
Total available-for-sale securities	548	2	(d)	—	(63)	—	—	487	2 (d)
Loans	305	8	(c)	—	(10)	—	—	277	8 (c)
Mortgage servicing rights	5,753	(66)	(e)	253	(200)	—	—	5,738	(66) (e)

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Other assets 1,934 18 (c) 3 (2) (82) — — 1,871 16 (c)

Fair value measurements using significant unobservable inputs

Three months ended September 30, 2017 (in millions)	Fair value at July 1, 2017	Total realized/unrealized (gains)/losses	Purchases	Sales	Issuances	Settlements	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at September 30, 2017	Change in unrealized (gains)/ losses related to financial instruments held at September 30, 2017
Liabilities: ^(b)										
Deposits	\$2,131	\$ 33 (c)	\$ —	\$ —	\$ 1,909	\$ (58)	\$ —	\$ (177)	\$ 3,838	\$ 27 (c)
Federal funds purchased and securities loaned or sold under repurchase agreements	—	—	—	—	—	—	1	—	1	—
Other borrowed funds	1,314	33 (c)	—	—	818	(631)	13	(76)	1,471	21 (c)
Trading liabilities – debt and equity instruments	36	2 (c)	(23)	28	—	—	—	—	43	3 (c)
Accounts payable and other liabilities	10	—	—	—	—	(1)	—	—	9	—
Beneficial interests issued by consolidated VIEs	1	—	—	39	—	—	78	—	118	—
Long-term debt	16,660	397 (c)	—	—	3,174	(3,552)	181	(209)	16,651	320 (c)

Fair value measurements using significant unobservable inputs

Three months ended September 30, 2016 (in millions)	Fair value at July 1, 2016	Total realized/unrealized gains/(losses)	Purchases (d)	Sales (f)	Settlements (e)	Transfers into level 3(h)	Transfers (out of) level 3(h)	Fair value at September 30, 2016	Change in unrealized gains/(losses) related to financial instruments held at September 30, 2016
Assets:									
Federal funds sold and securities purchased under resale agreements	\$—	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Trading assets:									
Debt instruments:									
Mortgage-backed securities:									
U.S. government agencies	473	(4)	4	(22)	(31)	9	(3)	426	—
Residential – nonagency	200	(3)	43	(66)	(5)	10	(73)	106	1
Commercial – nonagency	30	—	—	(1)	(1)	33	(20)	41	—
Total mortgage-backed securities	703	(7)	47	(89)	(37)	52	(96)	573	1
Obligations of U.S. states and municipalities	551	2	68	(25)	—	—	—	596	2
Non-U.S. government debt securities	37	(1)	54	(35)	(2)	—	(12)	41	(1)
Corporate debt securities	516	17	63	(43)	(30)	21	(44)	500	(1)
Loans	6,016	23	498	(1,111)	(297)	159	(358)	4,930	18
Asset-backed securities	959	18	133	(173)	(40)	29	(600)	326	13
Total debt instruments	8,782	52	863	(1,476)	(406)	261	(1,110)	6,966	32
Equity securities	246	21	42	(35)	(2)	2	(2)	272	18
Other	670	45	276	—	(305)	1	(6)	681	30
Total trading assets – debt and equity instruments	9,698	118 (c)	1,181	(1,511)	(713)	264	(1,118)	7,919	80 (c)
Net derivative receivables:(a)									
Interest rate	1,107	247	36	(7)	(319)	(1)	180	1,243	79
Credit	279	(231)	8	—	48	(8)	(3)	93	(237)
Foreign exchange	(1,205)	126	—	(5)	(509)	4	1	(1,588)	(103)
Equity	(1,892)	(251)	106	(249)	158	(6)	(303)	(2,437)	(67)
Commodity	(719)	(169)	—	(9)	10	5	(12)	(894)	1
Total net derivative receivables	(2,430)	(278) (c)	150	(270)	(612)	(6)	(137)	(3,583)	(327) (c)
Available-for-sale securities:									
Asset-backed securities	809	18	—	—	(5)	—	(42)	780	18
Other	1	—	—	—	—	—	—	1	—
Total available-for-sale securities	810	18 (d)	—	—	(5)	—	(42)	781	18 (d)
Loans	785	7 (c)	75	—	(23)	—	—	844	7 (c)
Mortgage servicing rights	5,072	(87) (e)	190	(5)	(233)	—	—	4,937	(87) (e)
Other assets	2,369	24 (c)	6	—	(34)	—	—	2,365	15 (c)
Fair value measurements using significant unobservable inputs									
Fair									

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Three months ended September 30, 2016 (in millions)	value at July 1, 2016	Total realized/unrealized (gains)/losses	Purchases	Sales	Issuances	Settlements	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at September 30, 2016	Change in unrealized (gains)/losses related to financial instruments held at September 30, 2016
Liabilities: ^(b)										
Deposits	\$2,409	\$ 1 ^(c)	\$ —	\$ —	\$ 602	\$ (191)	\$ —	\$ (192)	\$2,629	\$ (10) ^(c)
Federal funds purchased and securities loaned or sold under repurchase agreements	—	—	—	—	—	—	—	—	—	—
Other borrowed funds	907	(67) ^(c)	—	—	584	(420)	63	(16)	1,051	(48) ^(c)
Trading liabilities – debt and equity instruments	57	(4) ^(c)	(8)	5	—	(6)	11	—	55	— ^(c)
Accounts payable and other liabilities	15	—	—	—	—	(1)	—	—	14	—
Beneficial interests issued by consolidated VIEs	584	(11) ^(c)	—	—	—	(525)	—	—	48	7 ^(c)
Long-term debt	13,147	324 ^(c)	—	—	1,877	(1,432)	30	(217)	13,729	268 ^(c)

Fair value measurements using significant unobservable inputs

Nine months ended September 30, 2017 (in millions)	Fair value at January 1, 2017	Total realized/unrealized gains/(losses)	Purchases (d)	Sales	Settlements (e)	Transfers into level 3(h)	Transfers (out of) level 3(h)	Fair value at September 30, 2017	Change in unrealized gains/(losses) related to financial instruments held at September 30, 2017
Assets:									
Trading assets:									
Debt instruments:									
Mortgage-backed securities:									
U.S. government agencies	\$392	\$ (9)	\$ 161	\$(166)	\$ (55)	\$ 37	\$(37)	\$323	\$(17)
Residential – nonagency	83	14	40	(24)	(21)	111	(96)	107	2
Commercial – nonagency	17	5	27	(38)	(5)	63	(42)	27	1
Total mortgage-backed securities	492	10	228	(228)	(81)	211	(175)	457	(14)
U.S. Treasury and government agencies	—	—	—	—	—	1	—	1	—
Obligations of U.S. states and municipalities	649	15	126	(70)	(5)	—	—	715	15
Non-U.S. government debt securities	46	3	426	(395)	—	50	(50)	80	—
Corporate debt securities	576	—	690	(473)	(398)	128	(162)	361	11
Loans	4,837	309	2,055	(2,565)	(1,186)	564	(807)	3,207	73
Asset-backed securities	302	27	279	(178)	(44)	50	(165)	271	2
Total debt instruments	6,902	364	3,804	(3,909)	(1,714)	1,004	(1,359)	5,092	87
Equity securities	231	40	142	(87)	—	18	(56)	288	34
Other	761	85	27	(45)	(137)	10	(10)	691	46
Total trading assets – debt and equity instruments	7,894	489	(c) 3,973	(4,041)	(1,851)	1,032	(1,425)	6,071	167 (c)
Net derivative receivables:(a)									
Interest rate	1,263	182	53	(76)	(833)	55	20	664	(184)
Credit	98	(126)	1	(4)	(64)	57	2	(36)	(57)
Foreign exchange	(1,384)	86	13	(6)	633	(16)	135	(539)	(12)
Equity	(2,252)	24	840	(312)	(660)	(182)	167	(2,375)	76
Commodity	(85)	(34)	—	—	22	2	(5)	(100)	27
Total net derivative receivables	(2,360)	132	(c) 907	(398)	(902)	(84)	319	(2,386)	(150) (c)
Available-for-sale securities:									
Asset-backed securities	663	14	—	(50)	(141)	—	—	486	12
Other	1	—	—	—	—	—	—	1	—
	664	14	(d) —	(50)	(141)	—	—	487	12 (d)

Total available-for-sale securities

Loans	570	32	(c)	—	(26)	(299)	—	—	277	8	(c)
Mortgage servicing rights	6,096	(223)	(e)	624	(140)	(619)	—	—	5,738	(224)	(e)
Other assets	2,223	248	(c)	35	(157)	(478)	—	—	1,871	126	(c)

Fair value measurements using significant unobservable inputs

Nine months ended September 30, 2017 (in millions)	Fair value at January 1, 2017	Total realized/unrealized (gains)/losses	Purchases	Sales	Issuances	Settlements	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at September 30, 2017	Change in unrealized (gains)/losses related to financial instruments held at September 30, 2017		
Liabilities: ^(b)												
Deposits	\$2,117	\$ 39	(c)	\$ —	\$—	\$2,510	\$(169)	\$ —	\$(659)	\$3,838	\$ 140	(c)
Federal funds purchased and securities loaned or sold under repurchase agreements	—	—		—	—	—	—	1	—	1	—	
Other borrowed funds	1,134	80	(c)	—	—	2,208	(1,873)	53	(131)	1,471	50	(c)
Trading liabilities – debt and equity instruments	43	1	(c)	(31 )	) 32	—	1	3	(6)	43	1	(c)
Accounts payable and other liabilities	13	—		(1 )	) —	—	(3)	—	—	9	—	
Beneficial interests issued by consolidated VIEs	48	3	(c)	(44 )	) 39	—	(6)	78	—	118	—	
Long-term debt	13,894	1,030	(c)	—	—	10,757	(8,637)	269	(662)	16,651	1,108	(c)

Fair value measurements using significant unobservable inputs

Nine months ended September 30, 2016 (in millions)	Fair value at January 1, 2016	Total realized/unrealized gains/(losses)	Purchases (d)	Sales (e)	Settlements (g)	Transfers into level 3(h)	Transfers (out of) level 3(h)	Fair value at September 30, 2016	Change in unrealized gains/(losses) related to financial instruments held at September 30, 2016
Assets:									
Federal funds sold and securities purchased under resale agreements	\$—	\$ —	\$ —	\$ —	\$ —	\$ 4	\$(4)	\$—	\$ —
Trading assets:									
Debt instruments:									
Mortgage-backed securities:									
U.S. government agencies	715	(78)	133	(230)	(89)	96	(121)	426	(78)
Residential – nonagency	194	(4)	220	(250)	(16)	54	(92)	106	(3)
Commercial – nonagency	115	(6)	65	(29)	(1)	168	(271)	41	2
Total mortgage-backed securities	1,024	(88)	418	(509)	(106)	318	(484)	573	(79)
Obligations of U.S. states and municipalities	651	11	104	(132)	(38)	—	—	596	11
Non-U.S. government debt securities	74	1	83	(86)	(2)	—	(29)	41	(2)
Corporate debt securities	736	(15)	222	(187)	(155)	76	(177)	500	(28)
Loans	6,604	(165)	1,363	(2,255)	(939)	922	(600)	4,930	65
Asset-backed securities	1,832	35	565	(643)	(957)	270	(776)	326	(7)
Total debt instruments	10,921	(221)	2,755	(3,812)	(2,197)	1,586	(2,066)	6,966	(40)
Equity securities	265	18	75	(68)	(24)	9	(3)	272	32
Other	744	(1)	629	(287)	(340)	26	(90)	681	73
Total trading assets – debt and equity instruments	11,930	(204) (c)	3,459	(4,167)	(2,561)	1,621	(2,159)	7,919	65 (c)
Net derivative receivables:(a)									
Interest rate	876	787	142	(27)	(761)	4	222	1,243	(167)
Credit	549	(679)	8	(2)	165	40	12	93	(662)
Foreign exchange	(725)	(68)	58	(123)	(709)	(41)	20	(1,588)	(291)
Equity	(1,514)	(615)	248	(571)	231	32	(248)	(2,437)	(599)
Commodity	(935)	58	—	9	(30)	8	(4)	(894)	(7)
Total net derivative receivables	(1,749)	(517) (c)	456	(714)	(1,104)	43	2	(3,583)	(1,726) (c)
Available-for-sale securities:									
Asset-backed securities	823	17	—	—	(18)	—	(42)	780	17
Other	1	—	—	—	—	—	—	1	—
Total available-for-sale securities	824	17 (d)	—	—	(18)	—	(42)	781	17 (d)
Loans	1,518	(7) (c)	259	—	(613)	—	(313)	844	38 (c)
Mortgage servicing rights	6,608	(1,296) (e)	410	(72)	(713)	—	—	4,937	(1,296) (e)
Other assets	2,401	170 (c)	477	(438)	(245)	—	—	2,365	94 (c)

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Fair value measurements using significant unobservable inputs

Nine months ended September 30, 2016 (in millions)	Fair value at January 1, 2016	Total realized/unrealized (gains)/losses	Purchases	Sales	Issuances	Settlements	Transfers into level 3 ^(h)	Transfers (out of) level 3 ^(h)	Fair value at September 30, 2016	Change in unrealized (gains)/losses related to financial instruments held at September 30, 2016
Liabilities: ^(b)										
Deposits	\$2,950	\$ 76 ^(c)	\$ —	\$ —	\$1,085	\$ (868)	\$ —	\$ (614)	\$2,629	\$ (24) ^(c)
Federal funds purchased and securities loaned or sold under repurchase agreements	—	—	—	—	—	—	4	(4)	—	—
Other borrowed funds	639	(223) ^(c)	—	—	1,356	(789)	113	(45)	1,051	(113) ^(c)
Trading liabilities – debt and equity instruments	63	(11) ^(c)	(8)	23	—	(21)	14	(5)	55	—
Accounts payable and other liabilities	19	—	—	—	—	(5)	—	—	14	—
Beneficial interests issued by consolidated VIEs	549	(33) ^(c)	—	—	143	(611)	—	—	48	—
Long-term debt	11,613	716 ^(c)	—	—	6,752	(4,327)	289	(1,314)	13,729	1,678 ^(c)

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

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 14% and 12% at September 30, 2017 and December 31, 2016, respectively.

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.

Realized gains/(losses) on AFS securities, as well as other-than-temporary impairment (“OTTI”) losses that are recorded in earnings, are reported in securities gains. Unrealized gains/(losses) are reported in OCI. Realized gains/(losses) and foreign exchange hedge accounting adjustments recorded in income on AFS securities were zero for the three and nine months ended September 30, 2017 and 2016, respectively. Unrealized gains/(losses) recorded on AFS securities in OCI were \$2 million and \$18 million for the three months ended September 30, 2017 and 2016, respectively and \$14 million and \$16 million for the nine months ended September 30, 2017 and 2016, 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.

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 September 30, 2017. The following describes significant changes to level 3 assets since December 31, 2016, 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, see Assets and liabilities measured at fair value on a nonrecurring basis on page 99.

Three months ended September 30, 2017

Level 3 assets were \$19.9 billion at September 30, 2017, reflecting a decrease of \$514 million from June, 2017 with no movements that were individually significant.

Nine months ended September 30, 2017

Level 3 assets at September 30, 2017 decreased by \$3.3 billion from December 31, 2016, largely due to the following: \$2.1 billion decrease in trading assets driven by \$1.6 billion in trading loans due to sales and settlements and \$617 million in interest rate derivative receivables due to settlements.

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, see Changes in level 3 recurring fair value measurements rollforward tables on pages 94–98.

Three months ended September 30, 2017

\$186 million of net gains on assets and \$465 million of net losses on liabilities, none of which were individually significant.

Three months ended September 30, 2016

\$198 million of net losses on assets and \$243 million of net losses on liabilities, none of which were individually significant.

Nine months ended September 30, 2017

\$692 million of net gains on assets and \$1.2 billion of net losses on liabilities driven by market movements in long-term debt.

Nine months ended September 30, 2016

\$1.8 billion of net losses on assets largely driven by \$1.3 billion loss on MSRs. For further details see Note 14.

\$525 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 DVA and FVA reported below include 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.

	Three months ended September 30, 2017		Nine months ended September 30, 2016	
(in millions)	2017	2016	2017	2016
Credit and funding adjustments:				
Derivatives CVA	\$245	\$97	\$715	\$(659)
Derivatives DVA and FVA	(222)	(154)	(289)	(277)

For further information about both credit and funding adjustments, as well as information about valuation adjustments on fair value option elected liabilities, see Note 3 of JPMorgan Chase's 2016 Annual Report.

Assets and liabilities measured at fair value on a nonrecurring basis

The following table presents the assets and liabilities reported on a nonrecurring basis at fair value as of September 30, 2017 and 2016, by major product category and fair value hierarchy.

	Fair value hierarchy			Total fair value
	Level 1	Level 2	Level 3	
	1	2	3	
September 30, 2017 (in millions)				
Loans	\$338	\$542	(a)	\$ 880
Other assets	—	7	245	252
Total assets measured at fair value on a nonrecurring basis	—	345	787	(a) 1,132
Accounts payable and other liabilities	—	1		2
Total liabilities measured at fair value on a nonrecurring basis	\$1	\$1		\$ 2
September 30, 2016 (in millions)				
Loans	\$272	\$470		\$ 742
Other assets	—	9	314	323
Total assets measured at fair value on a nonrecurring basis	—	281	784	1,065
Accounts payable and other liabilities	—	2	7	9
Total liabilities measured at fair value on a nonrecurring basis	\$2	\$2	\$7	\$ 9

Of the \$787 million in level 3 assets measured at fair value on a nonrecurring basis as of September 30, 2017, \$395 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 20% to 48% with a weighted average of 29%.

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 nine months ended September 30, 2017 and 2016, related to financial instruments held at those dates.

	Three months ended		Nine months ended	
	September 30, 2017	September 30, 2016	September 30, 2017	September 30, 2016
Loans	\$(52)	\$(61)	\$(157)	\$(150)
Other Assets	(11)	33	(44)	(29)
Accounts payable and other liabilities	—	—	(1)	(2)
Total nonrecurring fair value gains/(losses)	\$(63)	\$(28)	\$(202)	\$(181)

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), see Note 14 of JPMorgan Chase's 2016 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 September 30, 2017, and December 31, 2016, 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, see Note 3 of JPMorgan Chase's 2016 Annual Report.

(in billions)	September 30, 2017					December 31, 2016				
	Estimated fair value hierarchy					Estimated fair value hierarchy				
	Carrying value	Level 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	\$22.0	\$22.0	\$—	\$—	\$22.0	\$23.9	\$23.9	\$—	\$—	\$23.9
Deposits with banks	435.8	434.0	1.8	—	435.8	365.8	362.0	3.8	—	365.8
Accrued interest and accounts receivable	60.5	—	60.4	0.1	60.5	52.3	—	52.2	0.1	52.3
Federal funds sold and securities purchased under resale agreements	168.9	—	168.9	—	168.9	208.5	—	208.3	0.2	208.5
Securities borrowed	98.6	—	98.6	—	98.6	96.4	—	96.4	—	96.4
Securities, held-to-maturity	47.1	—	48.2	—	48.2	50.2	—	50.9	—	50.9
Loans, net of allowance for loan losses ^(a)	898.5	—	27.2	874.4	901.6	878.8	—	24.1	851.0	875.1
Other	62.9	—	52.7	15.7	68.4	71.4	0.1	60.8	14.3	75.2
Financial liabilities										
Deposits	\$1,417.9	\$—	\$1,417.9	\$—	\$1,417.9	\$1,361.3	\$—	\$1,361.3	\$—	\$1,361.3
Federal funds purchased and securities loaned or sold under repurchase agreements	168.7	—	168.7	—	168.7	165.0	—	165.0	—	165.0
Commercial paper	24.2	—	24.2	—	24.2	11.7	—	11.7	—	11.7
Other borrowed funds	21.0	—	21.0	—	21.0	13.6	—	13.6	—	13.6
Accounts payable and other liabilities	155.8	—	152.8	2.7	155.5	148.0	—	144.8	3.4	148.2
Beneficial interests issued by consolidated VIEs	28.3	—	28.3	—	28.3	38.9	—	38.9	—	38.9
Long-term debt and junior subordinated deferrable interest debentures	244.4	—	247.9	2.6	250.5	257.5	—	260.0	2.0	262.0

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

(a) 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, see Valuation hierarchy on pages 150–153 of JPMorgan Chase's 2016 Annual Report.

The majority of the Firm's lending-related commitments are not carried at fair value on a recurring basis on the Consolidated balance sheets, nor are they actively traded. 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.

(in billions)	September 30, 2017				December 31, 2016			
	Estimated				Estimated			
	fair value				fair value			
	hierarchy				hierarchy			
	Carrying value ^(a)	Level 2	Level 3	Total estimated fair value	Carrying value ^(a)	Level 2	Level 3	Total estimated fair value
Wholesale lending-related commitments	\$1.1	\$—	\$—	\$1.6	\$1.1	\$—	\$—	\$2.1

(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.

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, see page 151 of JPMorgan Chase's 2016 Annual Report.

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, see Note 4 of JPMorgan Chase's 2016 Annual Report.

Changes in fair value under the fair value option election

The following tables present the changes in fair value included in the Consolidated statements of income for the three and nine months ended September 30, 2017 and 2016, 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.

(in millions)	Three months ended September 30, 2017			2016		
	Principal transactions	All other income	Total changes in fair value recorded	Principal transactions	All other income	Total changes in fair value recorded
Federal funds sold and securities purchased under resale agreements	\$(17)	\$ —	\$ (17)	\$(54)	\$ —	\$ (54)
Securities borrowed	(10)	—	(10)	—	—	—
Trading assets:						
Debt and equity instruments, excluding loans	412	— ^(c)	412	256	— ^(c)	256
Loans reported as trading assets:						
Changes in instrument-specific credit risk	139	(2) ^(c)	137	286	10 ^(c)	296
Other changes in fair value	111	249 ^(c)	360	2	452 ^(c)	454
Loans:						
Changes in instrument-specific credit risk	—	—	—	—	—	—
Other changes in fair value	3	—	3	1	—	1
Other assets	3	(4) ^(d)	(1)	2	(3) ^(d)	(1)
Deposits ^(a)	(117)	—	(117)	38	—	38
Federal funds purchased and securities loaned or sold under repurchase agreements	2	—	2	4	—	4
Other borrowed funds ^(a)	(54)	—	(54)	(291)	—	(291)
Trading liabilities	(3)	—	(3)	3	—	3
Beneficial interests issued by consolidated VIEs	—	—	—	—	—	—
Long-term debt ^{(a)(b)}	(793)	—	(793)	(619)	—	(619)

(in millions)	Nine months ended September 30, 2017			2016		
	Principal transactions	All other income	Total changes in fair value recorded	Principal transactions	All other income	Total changes in fair value recorded
Federal funds sold and securities purchased under resale agreements	\$ (50)	\$ —	\$ (50)	\$ 14	\$ —	\$ 14
Securities borrowed	80	—	80	1	—	1
Trading assets:						
Debt and equity instruments, excluding loans	1,107	2 (c)	1,109	143	—	143
Loans reported as trading assets:						
Changes in instrument-specific credit risk	382	13 (c)	395	384	24 (c)	408
Other changes in fair value	188	601 (c)	789	188	975 (d)	1,163
Loans:						
Changes in instrument-specific credit risk	(1)	—	(1)	13	—	13
Other changes in fair value	4	3	7	5	—	5
Other assets	10	(26) (d)	(16)	16	79 (d)	95
Deposits (a)	(362)	—	(362)	(531)	—	(531)
Federal funds purchased and securities loaned or sold under repurchase agreements	4	—	4	(16)	—	(16)
Other borrowed funds (a)	(485)	—	(485)	(292)	—	(292)
Trading liabilities	(4)	—	(4)	5	—	5
Beneficial interests issued by consolidated VIEs	—	—	—	23	—	23
Long-term debt (a)(b)	(1,716)	—	(1,716)	(1,537)	—	(1,537)

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.

(a) Realized gains/(losses) due to instrument-specific credit risk recorded in principal transaction revenue were not material for the three and nine months ended September 30, 2017 and 2016, respectively.

Long-term debt measured at fair value predominantly relates to structured notes. Although the risk associated with (b) 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.

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 September 30, 2017, and December 31, 2016, for loans, long-term debt and long-term beneficial interests for which the fair value option has been elected.

(in millions)	September 30, 2017			December 31, 2016		
	Contractual principal outstanding	Fair value	Fair value over/(under) contractual principal outstanding	Contractual principal outstanding	Fair value	Fair value over/(under) contractual principal outstanding
Loans ^(a)						
Nonaccrual loans						
Loans reported as trading assets	\$3,938	\$1,266	\$ (2,672)	\$3,338	\$748	\$ (2,590)
Loans	39	—	(39)	—	—	—
Subtotal	3,977	1,266	(2,711)	3,338	748	(2,590)
All other performing loans						
Loans reported as trading assets	38,050	36,263	(1,787)	35,477	33,054	(2,423)
Loans	1,760	1,745	(15)	2,259	2,228	(31)
Total loans	\$43,787	\$39,274	\$ (4,513)	\$41,074	\$36,030	\$ (5,044)
Long-term debt						
Principal-protected debt	\$24,307 ^(c)	\$21,828	\$ (2,479)	\$21,602 ^(c)	\$19,195	\$ (2,407)
Nonprincipal-protected debt ^(b)	NA	22,342	NA	NA	18,491	NA
Total long-term debt	NA	\$44,170	NA	NA	\$37,686	NA
Long-term beneficial interests						
Nonprincipal-protected debt	NA	\$118	NA	NA	\$120	NA
Total long-term beneficial interests	NA	\$118	NA	NA	\$120	NA

^(a) There were no performing loans that were ninety days or more past due as of September 30, 2017, and December 31, 2016, respectively.

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, ^(b) 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 September 30, 2017, and December 31, 2016, the contractual amount of lending-related commitments for which the fair value option was elected was \$4.5 billion and \$4.6 billion, with a corresponding fair value of \$(90) million and \$(118) million, respectively. For further information regarding off-balance sheet lending-related financial instruments, see Note 29 of JPMorgan Chase's 2016 Annual Report, and Note 19 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.

(in millions)	September 30, 2017				December 31, 2016			
	Long-term debt	Other borrowed funds	Deposits	Total	Long-term debt	Other borrowed funds	Deposits	Total
Risk exposure								
Interest rate	\$19,903	\$87	\$7,755	\$27,745	\$16,296	\$184	\$4,296	\$20,776
Credit	3,794	61	—	3,855	3,267	225	—	3,492

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Foreign exchange	2,841	208	30	3,079	2,365	135	6	2,506
Equity	17,094	7,302	6,196	30,592	14,831	8,234	5,481	28,546
Commodity	297	22	4,841	5,160	488	37	1,811	2,336
Total structured notes	\$43,929	\$ 7,680	\$ 18,822	\$70,431	\$37,247	\$ 8,815	\$ 11,594	\$57,656

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, see Note 6 of JPMorgan Chase's 2016 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.

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 identified risk exposures in qualifying hedge accounting relationships:				
Interest rate	Hedge fixed rate assets and liabilities	Fair value hedge	Corporate	110
Interest rate	Hedge floating-rate assets and liabilities	Cash flow hedge	Corporate	111
Foreign exchange	Hedge foreign currency-denominated assets and liabilities	Fair value hedge	Corporate	110
Foreign exchange	Hedge foreign currency-denominated forecasted revenue and expense	Cash flow hedge	Corporate	111
Foreign exchange	Hedge the value of the Firm's investments in non-U.S. dollar functional currency entities	Net investment hedge	Corporate	112
Commodity	Hedge commodity inventory	Fair value hedge	CIB	110
Manage specifically identified risk exposures not designated in qualifying hedge accounting relationships:				
Interest rate	Manage the risk of the mortgage pipeline, warehouse loans and MSRs	Specified risk management	CCB	112
Credit	Manage the credit risk of wholesale lending exposures	Specified risk management	CIB	112
Commodity	Manage the risk of certain commodities-related contracts and investments	Specified risk management	CIB	112
Interest rate and foreign exchange	Manage the risk of certain other specified assets and liabilities	Specified risk management	Corporate	112
Market-making derivatives and other activities:				
Various	Market-making and related risk management	Market-making and other	CIB	112
Various	Other derivatives	Market-making and other	CIB, Corporate	112

Notional amount of derivative contracts

The following table summarizes the notional amount of derivative contracts outstanding as of September 30, 2017, and December 31, 2016.

(in billions)	Notional amounts ^(b)	
	September 30, 2017	December 31, 2016
Interest rate contracts		
Swaps	\$22,098	\$ 22,000
Futures and forwards	5,954	5,289
Written options	3,973	3,091
Purchased options	4,184	3,482
Total interest rate contracts	36,209	33,862
Credit derivatives ^(a)	1,851	2,032
Foreign exchange contracts		
Cross-currency swaps	4,037	3,359
Spot, futures and forwards	6,763	5,341
Written options	883	734
Purchased options	874	721
Total foreign exchange contracts	12,557	10,155
Equity contracts		
Swaps	307	258
Futures and forwards	92	59
Written options	587	417
Purchased options	499	345
Total equity contracts	1,485	1,079
Commodity contracts		
Swaps	118	102
Spot, futures and forwards	170	130
Written options	98	83
Purchased options	103	94
Total commodity contracts	489	409
Total derivative notional amounts	\$52,591	\$ 47,537

(a) For more information on volumes and types of credit derivative contracts, see the Credit derivatives discussion on page 113.

(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 September 30, 2017, and December 31, 2016, 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)

September 30, 2017 (in millions)	Gross derivative receivables				Gross derivative payables			
	Not designated as hedges	Designated as hedges	Total derivative receivables	Net derivative receivables ^(b)	Not designated as hedges	Designated as hedges	Total derivative payables	Net derivative payables ^(b)
Trading assets and liabilities								
Interest rate	\$471,949	\$ 3,822	\$ 475,771	\$ 25,701	\$438,686	\$ 1,634	\$ 440,320	\$ 7,165
Credit	25,695	—	25,695	915	26,169	—	26,169	1,670
Foreign exchange	167,943	661	168,604	17,077	162,698	1,121	163,819	13,024
Equity	41,068	—	41,068	8,831	45,262	—	45,262	9,876
Commodity	17,846	55	17,901	5,736	20,473	150	20,623	7,711
Total fair value of trading assets and liabilities	\$ 724,501	\$ 4,538	\$ 729,039	\$ 58,260	\$ 693,288	\$ 2,905	\$ 696,193	\$ 39,446

December 31, 2016 (in millions)	Gross derivative receivables				Gross derivative payables			
	Not designated as hedges	Designated as hedges	Total derivative receivables	Net derivative receivables ^(b)	Not designated as hedges	Designated as hedges	Total derivative payables	Net derivative payables ^(b)
Trading assets and liabilities								
Interest rate	\$601,557	\$ 4,406	\$ 605,963	\$ 28,302	\$567,894	\$ 2,884	\$ 570,778	\$ 10,815
Credit	29,645	—	29,645	1,294	28,666	—	28,666	1,411
Foreign exchange	232,137	1,289	233,426	23,271	233,823	1,148	234,971	20,508
Equity	34,940	—	34,940	4,939	38,362	—	38,362	8,140
Commodity	18,505	137	18,642	6,272	20,283	179	20,462	8,357
Total fair value of trading assets and liabilities	\$916,784	\$ 5,832	\$ 922,616	\$ 64,078	\$889,028	\$ 4,211	\$ 893,239	\$ 49,231

(a) Balances exclude structured notes for which the fair value option has been elected. See 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.

Derivatives netting

The following tables present, as of September 30, 2017, and December 31, 2016, 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.

September 30, 2017

December 31, 2016

Gross (in millions) receivables	Amounts netted on the Consolidated balance sheets	Net derivative receivables	Gross derivative receivables	Amounts netted on the Consolidated balance sheets	Net derivative receivables
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U.S.
GAAP
nettable
derivative
receivables
Interest
rate
contracts:

Over-the-counter ("OTC")	\$ 309,845	\$ (289,072)	\$ 20,773	\$ 365,227	\$ (342,173)	\$ 23,054
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Over-the-counter ("OTC")	\$ 100,949	\$ (100,926)	\$ 23	\$ 235,399	\$ (235,261)	\$ 138
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Exchange-traded	\$ 12	\$ (71)	\$ 101	\$ 241	\$ (227)	\$ 14
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Total interest rate contracts	\$ 470,966	\$ (450,069)	\$ 20,897	\$ 600,867	\$ (577,661)	\$ 23,206
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contracts:

Credit

contracts:

OTC	\$ 185	\$ (16,621)	\$ 231	\$ 23,130	\$ (22,612)	\$ 518
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OTC-clearing	\$ 109	\$ (816)	\$ 49	\$ 5,746	\$ (5,739)	\$ 7
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Total	\$ 25,061	\$ (24,781)	\$ 280	\$ 28,876	\$ (28,351)	\$ 525
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contracts

Foreign

exchange

contracts:

OTC	138 (150,110)	13,028	226,271	(208,962)	17,309
OTC-cleared	1404)	102	1,238	(1,165)	73
Exchange-traded ^(a)	121	104	(27)		77

Total

foreign exchange	164,777 (151,526)	13,251	227,613	(210,154)	17,459
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contracts

Equity

contracts:

OTC	117 (19,963)	1,954	20,868	(20,570)	298
OTC-cleared	—	—	—	—	—
Exchange-traded ^(a)	2,382	11,439	(9,431)		2,008

Total

equity	36,674 (32,238)	4,336	32,307	(30,001)	2,306
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contracts

Commodity

contracts:

OTC	884 (4,479)	4,405	11,571	(5,605)	5,966
OTC-cleared	—	—	—	—	—
Exchange-traded ^(a)	271	6,794	(6,766)		28

Total

commodity	16,841 (12,165)	4,676	18,365	(12,371)	5,994
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contracts

Derivative

receivables

with appropriate legal opinion	714,219 (670,779) ^(b)	43,440	908,028	(858,538) ^(b)	49,490
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legal

opinion

Derivative

receivables

where

an

appropriate

legal

opinion

has

not

been

either

sought

or

obtained

\$722,039	\$ 58,260	\$922,616		\$ 64,078
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derivative

receivables

recognized

on

the

Consolidated

balance sheets Collateral not nettable on the Consolidated balance sheets ^{(c)(d)} Net amounts	(15,391)	(18,638)
	\$ 42,869	\$ 45,440

September 30, 2017			December 31, 2016		
Gross (in millions) payables	Amounts netted on the Consolidated balance sheets	Net derivative payables	Gross derivative payables	Amounts netted on the Consolidated balance sheets	Net derivative payables
U.S.					
GAAP					
nettable					
derivative					
payables					
Interest					
rate					
contracts:					
\$279,319	\$(274,060)	\$ 5,259	\$338,502	\$(329,325)	\$ 9,177
OTC-cleared	159,026)	120	230,464	(230,463)	1
Exchange-traded ^(a)	)	34	196	(175)	21
Total					
438,568	(433,155)	5,413	569,162	(559,963)	9,199
contracts					
Credit					
contracts:					
17,138	(16,530)	808	22,366	(21,614)	752
OTC-cleared	7,969)	22	5,641	(5,641)	—
Total					
25,329	(24,499)	830	28,007	(27,255)	752
contracts					
Foreign					
exchange					
contracts:					
59,282	(149,643)	9,639	228,300	(213,296)	15,004
OTC-cleared	40)	1	1,158	(1,158)	—
Exchange-traded ^(a)	)	107	328	(9)	319
Total					
160,541	(150,794)	9,747	229,786	(214,463)	15,323
contracts					
Equity					
contracts:					
27,679	(23,112)	4,567	24,688	(20,808)	3,880
OTC-cleared		—	—	—	—
Exchange-traded ^(a)	12,555)	429	10,004	(9,414)	590
Total					
40,383	(35,387)	4,996	34,692	(30,222)	4,470
contracts					
Commodity					
contracts:					
27,110	(5,224)	6,886	12,885	(5,252)	7,633
OTC-cleared		—	—	—	—

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Exchange-traded	(a)	112	7,099	(6,853)	246				
Total									
OTC		12,912	6,998	19,984	(12,105)	7,879			
contracts									
Derivative									
payables									
with									
appropriate		684,731	(656,747)	(b)	27,984	881,631	(844,008)	(b)	37,623
legal									
opinions									
Derivative									
payables									
where									
an									
appropriate									
legal									
opinion									
has		11,462		11,608				11,608	
not									
been									
either									
sought									
or									
obtained									
Total									
derivative									
payables									
recognized									
\$		696,193	\$ 39,446	\$ 893,239		\$ 49,231			
the									
Consolidated									
balance									
sheets									
Collateral									
not									
nettable									
on									
the		(5,137)				(8,925)			
Consolidated									
balance									
sheets	(c)(d)(e)								
Net			\$ 34,309			\$ 40,306			
amounts									

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

Net derivatives receivable included cash collateral netted of \$57.6 billion and \$71.9 billion at September 30, 2017, and December 31, 2016, respectively. Net derivatives payable included cash collateral netted of \$43.5 billion and \$57.3 billion related to OTC and OTC-cleared derivatives at September 30, 2017, and December 31, 2016, respectively.

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

(c)

(d)

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.

- (e) Derivative payables collateral relates only to OTC and OTC-cleared derivative instruments. Amounts exclude collateral transferred related to exchange-traded derivative instruments.

Liquidity risk and credit-related contingent features

For a more detailed discussion of liquidity risk and credit-related contingent features related to the Firm's derivative contracts, see Note 6 of JPMorgan Chase's 2016 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 September 30, 2017, and December 31, 2016.

OTC and OTC-cleared derivative payables containing downgrade triggers		
(in millions)	September 30, December 31,	
	2017	2016
Aggregate fair value of net derivative payables	\$ 12,228	\$ 21,550
Collateral posted	10,117	19,383

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 September 30, 2017, and December 31, 2016, 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

(in millions)	September 30, 2017		December 31, 2016	
	Single-notch downgrade	Two-notch downgrade	Single-notch downgrade	Two-notch downgrade
Amount of additional collateral to be posted upon downgrade ^(a)	\$ 90	\$ 2,041	\$ 560	\$ 2,497
Amount required to settle contracts with termination triggers upon downgrade ^(b)	239	547	606	1,049

(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. There were no such transfers accounted for as a sale where the associated derivative was outstanding at September 30, 2017, and such transfers at December 31, 2016 were not material.

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 nine months ended September 30, 2017 and 2016, respectively. The Firm includes gains/(losses) on the hedging derivative and the related hedged item in the same line item in the Consolidated statements of income.

	Gains/(losses) recorded in income			Income statement impact due to:	
Three months ended September 30, 2017 (in millions)	Derivatives	Hedged items	Total income statement impact	Hedge ineffective components ^(e)	Excluded components ^(f)
Contract type					
Interest rate ^{(a)(b)}	\$22	\$182	\$ 204	\$ (2)	\$ 206
Foreign exchange ^(c)	(982)	1,002	20	—	20
Commodity ^(d)	(457)	461	4	4	—
Total	\$(1,417)	\$1,645	\$ 228	\$ 2	\$ 226

	Gains/(losses) recorded in income			Income statement impact due to:	
Three months ended September 30, 2016 (in millions)	Derivatives	Hedged items	Total income statement impact	Hedge ineffective components ^(e)	Excluded components ^(f)
Contract type					
Interest rate ^{(a)(b)}	\$(232)	\$430	\$ 198	\$ 7	\$ 191
Foreign exchange ^(c)	(143)	194	51	—	51
Commodity ^(d)	(203)	229	26	1	25
Total	\$(578)	\$853	\$ 275	\$ 8	\$ 267

	Gains/(losses) recorded in income		Total income statement impact	Income statement impact due to:	
Nine months ended September 30, 2017 (in millions)	Derivatives	Hedged items		Hedge ineffective components ^(e)	Excluded components ^(f)
Contract type					
Interest rate ^{(a)(b)}	\$(131)	\$759	\$ 628	\$ (16)	\$ 644
Foreign exchange ^(c)	(3,254)	3,235	(19)	—	(19)
Commodity ^(d)	(823)	861	38	23	15
Total	\$(4,208)	\$4,855	\$ 647	\$ 7	\$ 640

	Gains/(losses) recorded in income			Income statement impact due to:	
	Derivatives	Hedged items	Total income statement impact	Hedge ineffective components ^(e)	Excluded components ^(f)
Nine months ended September 30, 2016 (in millions)					

Contract type					
Interest rate ^{(a)(b)}	\$2,049	\$(1,478)	\$ 571	\$ 36	\$ 535
Foreign exchange ^(c)	46	104	150	—	150
Commodity ^(d)	(276	)307	31	(11	) 42
Total	\$1,819	\$(1,067)	\$ 752	\$ 25	\$ 727

(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.

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

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

Consists of overall fair value hedges of physical commodities inventories that are generally carried at the lower of (d) 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 and time values.

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 nine months ended September 30, 2017 and 2016, respectively. The Firm includes the gain/(loss) on the hedging derivative and the change in cash flows on the hedged item in the same line item in the Consolidated statements of income.

Three months ended September 30, 2017 (in millions)	Gains/(losses) recorded in income and other comprehensive income/(loss)					
	Derivatives					
	– effective portion of hedge reclassified from AOCI to income		Derivatives – ineffective portion recorded directly in income ^(c)		Total income statement impact	
	Contract type					
Interest rate ^(a)	\$ 1	\$	—	\$ 1	\$ (1)	\$(2)
Foreign exchange ^(b)	(11)	—	(11)	30		41
Total	\$(10)	\$	—	\$(10)	\$ 29	\$ 39

Three months ended September 30, 2016 (in millions)	Gains/(losses) recorded in income and other comprehensive income/(loss)				
	Derivatives		Total income statement impact	DerivativesTotal	
	– effective portion	Hedge ineffectiveness recorded directly in income ^(c)		– effective portion recorded in OCI	change in OCI for period
	reclassified from AOCI to income				
Contract type					
Interest rate ^(a)	\$(18)	\$—	—\$(18)	\$ 22	\$ 40
Foreign exchange ^(b)	(104)	—	(104)	(86)	18
Total	\$(122)	\$—	—\$(122)	\$ (64)	\$ 58

Nine months ended September 30, 2017 (in millions)	Gains/(losses) recorded in income and other comprehensive income/(loss)				
	Derivatives			DerivativesTotal	
	– effective portion of hedge reclassified from AOCI to income	Hedge ineffectiveness recorded directly in income ^(c)	Total income statement impact	– effective portion recorded in OCI	change in OCI for period
Contract type					
Interest rate ^(a)	\$(16)	\$	—\$ (16)	\$ 11	\$27
Foreign exchange ^(b)	(144)	—	(144)	100	244
Total	\$(160)	\$	—\$ (160)	\$ 111	\$271

Nine months ended September 30, 2016 (in millions)	Gains/(losses) recorded in income and other comprehensive income/(loss)			
	Derivatives – effective portion of reclassified from AOCI to income	Hedge ineffectiveness recorded directly in income ^(c)	Total income statement impact	DerivativesTotal – effective change portion in OCI recorded in for OCI period
Contract type				
Interest rate ^(a)	\$ (58)	\$ —	\$ (58)	\$ (78) \$ (20)
Foreign exchange ^(b)	(167)	—	(167)	(340) (173)
Total	\$ (225)	\$ —	\$ (225)	\$ (418) \$ (193)

(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.

Primarily consists of hedges of the foreign currency risk of non-U.S. dollar-denominated revenue and expense. The (b) income statement classification of gains and losses follows the hedged item – primarily noninterest revenue and compensation expense.

Hedge ineffectiveness is the amount by which the cumulative gain or loss on the designated derivative instrument (c) 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 experience any forecasted transactions that failed to occur for the three and nine months ended September 30, 2017 and 2016.

Over the next 12 months, the Firm expects that approximately \$58 million (after-tax) of net gains recorded in AOCI at September 30, 2017, 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 6 years.

For open cash flow hedges, the maximum length of time over which forecasted transactions are hedged is approximately 2 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 nine months ended September 30, 2017 and 2016.

	Gains/(losses) recorded in income and other comprehensive income/(loss)			
	2017		2016	
Three months ended September 30, (in millions)	Excluded component		Excluded component	
	Effectively recorded directly in income ^(a)	Effective portion recorded in OCI	Effectively recorded directly in income ^(a)	Effective portion recorded in OCI
Foreign exchange derivatives	\$(39)	\$(286)	\$(69)	\$(30)

	Gains/(losses) recorded in income and other comprehensive income/(loss)			
	2017		2016	
Nine months ended September 30, (in millions)	Excluded component		Excluded component	
	Effectively recorded directly in income ^(a)	Effective portion recorded in OCI	Effectively recorded directly in income ^(a)	Effective portion recorded in OCI
Foreign exchange derivatives	\$(150)	\$(1,161)	\$(219)	\$(603)

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. Amounts related to excluded components are recorded in other income. The Firm measures the ineffectiveness of net investment hedge accounting relationships based on changes in spot foreign currency rates, and, therefore, there was no significant ineffectiveness for net investment hedge accounting relationships during the three and nine months ended September 30, 2017 and 2016.

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, foreign currency-denominated assets and liabilities, and commodities-related contracts and investments.

	Derivatives gains/(losses) recorded in income			
	Three months ended September 30,		Nine months ended September 30,	
(in millions)	2017	2016	2017	2016
Contract type				
Interest rate ^(a)	\$97	\$312	\$318	\$1,956
Credit ^(b)	(18)	(84)	(70)	(244)
Foreign exchange ^(c)	(18)	(2)	(52)	(2)

Total \$61 \$226 \$196 \$1,710

Primarily represents interest rate derivatives used to hedge the interest rate risk inherent in the mortgage pipeline, (a) warehouse loans and MSR, as well as written commitments to originate warehouse loans. Gains and losses were recorded predominantly in mortgage fees and related income.

Relates to credit derivatives used to mitigate credit risk associated with lending exposures in the Firm's wholesale (b) 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.

Primarily relates to derivatives used to mitigate foreign exchange risk of specified foreign (c) 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. See Note 5 for information on principal transactions revenue.

Credit derivatives

For a more detailed discussion of credit derivatives, see Note 6 of JPMorgan Chase's 2016 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

September 30, 2017 (in millions)	Maximum payout/Notional amount			
	Protection sold	Protection purchased with identical underlyings ^(b)	Net protection (sold)/purchased ^(c)	Other protection purchased ^(d)
Credit derivatives				
Credit default swaps	\$(848,527)	\$ 853,147	\$ 4,620	\$ 11,164
Other credit derivatives ^(a)	(61,205)	57,534	(3,671)	19,467
Total credit derivatives	(909,732)	910,681	949	30,631
Credit-related notes	(53)	—	(53)	6,370
Total	\$(909,785)	\$ 910,681	\$ 896	\$ 37,001

December 31, 2016 (in millions)	Maximum payout/Notional amount			
	Protection sold	Protection purchased with identical underlyings ^(b)	Net protection (sold)/purchased ^(c)	Other protection purchased ^(d)
Credit derivatives				
Credit default swaps	\$(961,003)	\$ 974,252	\$ 13,249	\$ 7,935
Other credit derivatives ^(a)	(36,829)	31,859	(4,970)	19,991
Total credit derivatives	(997,832)	1,006,111	8,279	27,926
Credit-related notes	(41)	—	(41)	4,505
Total	\$(997,873)	\$ 1,006,111	\$ 8,238	\$ 32,431

(a) Other credit derivatives largely consists of credit swap options.

Represents the total notional amount of protection purchased where the underlying reference instrument is identical

(b) 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 September 30, 2017, and December 31, 2016, 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

September 30, 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
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Risk rating of reference entity

Investment-grade	\$(222,740)	\$(306,362)	\$(71,992)	\$(601,094)	\$ 8,914	\$ (1,447)	\$7,467
Noninvestment-grade	(100,298)	(170,219)	(38,174)	(308,691)	8,884	(5,764)	3,120
Total	\$(323,038)	\$(476,581)	\$(110,166)	\$(909,785)	\$ 17,798	\$ (7,211)	\$10,587

December 31, 2016 (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
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Risk rating of reference entity

Investment-grade	\$(273,688)	\$(383,586)	\$(39,281)	\$(696,555)	\$ 7,841	\$ (3,055)	\$4,786
Noninvestment-grade	(107,955)	(170,046)	(23,317)	(301,318)	8,184	(8,570)	(386)
Total	\$(381,643)	\$(553,632)	\$(62,598)	\$(997,873)	\$ 16,025	\$ (11,625)	\$4,400

(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, see Note 7 of JPMorgan Chase's 2016 Annual Report.

Investment banking fees

The following table presents the components of investment banking fees.

	Three months ended		Nine months ended	
	September 30,		September 30,	
(in millions)	2017	2016	2017	2016
Underwriting				
Equity	\$295	\$369	\$1,052	\$854
Debt	927	958	2,802	2,404
Total underwriting	1,222	1,327	3,854	3,258
Advisory	621	539	1,616	1,585
Total investment banking fees	\$1,843	\$1,866	\$5,470	\$4,843

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. See 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.

	Three months ended		Nine months ended	
	September 30,		September 30,	
(in millions)	2017	2016	2017	2016
Trading revenue by instrument type				
Interest rate	\$649	\$825	\$2,032	\$1,843
Credit	330	549	1,288	1,652
Foreign exchange	681	818	2,363	2,101
Equity	915	893	3,153	2,584
Commodity	156	245	461	695
Total trading revenue	2,731	3,330	9,297	8,875
Private equity gains/(losses)	(10)	121	143	231
Principal transactions	\$2,721	\$3,451	\$9,440	\$9,106

Lending- and deposit-related fees

The following table presents the components of lending- and deposit-related fees.

	Three months ended		Nine months ended	
	September 30,		September 30,	
(in millions)	2017	2016	2017	2016
Lending-related fees	\$280	\$282	\$824	\$829
Deposit-related fees	1,217	1,202	3,603	3,461
Total lending- and deposit-related fees	\$1,497	\$1,484	\$4,427	\$4,290

Asset management, administration and commissions

The following table presents the components of Firmwide asset management, administration and commissions.

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	Three months ended September 30,		Nine months ended September 30,	
(in millions)	2017	2016	2017	2016
Asset management fees				
Investment management fees ^(a)	\$2,410	\$2,203	\$6,955	\$6,541
All other asset management fees ^(b)	63	90	225	277
Total asset management fees	2,473	2,293	7,180	6,818
Total administration fees ^(c)	514	478	1,500	1,444
Commission and other fees				
Brokerage commissions	546	505	1,691	1,628
All other commissions and fees	313	321	976	1,012
Total commissions and fees	859	826	2,667	2,640
Total asset management, administration and commissions	\$3,846	\$3,597	\$11,347	\$10,902

(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.

Other income

Other income on the Firm's Consolidated statements of income included the following:

	Three months ended September 30,		Nine months ended September 30,	
(in millions)	2017	2016	2017	2016

Operating lease income \$928 \$708 \$2,625 \$1,974

Other income also included a legal benefit of \$645 million recorded in Corporate in the second quarter of 2017 related to a settlement with the FDIC receivership for Washington Mutual and with Deutsche Bank as trustee to certain Washington Mutual trusts.

Noninterest expense

Other expense

Other expense on the Firm's Consolidated statements of income included the following:

	Three months ended September 30,		Nine months ended September 30,	
(in millions)	2017	2016	2017	2016
Legal expense/(benefit)	\$(107)	\$(71)	\$172	\$(547)
FDIC-related expense	353	360	1,110	912

Note 6 – Interest income and Interest expense

For a description of JPMorgan Chase's accounting policies regarding interest income and interest expense, see Note 8 of JPMorgan Chase's 2016 Annual Report.

The following table presents the components of interest income and interest expense.

(in millions)	Three months ended		Nine months ended	
	September 30,		September 30,	
	2017	2016	2017	2016
Interest income				
Loans ^(a)	\$10,519	\$9,237	\$30,265	\$27,065
Taxable securities	1,362	1,365	4,202	4,187
Nontaxable securities ^(b)	456	436	1,393	1,321
Total securities	1,818	1,801	5,595	5,508
Trading assets	1,947	1,890	5,611	5,448
Federal funds sold and securities purchased under resale agreements	622	566	1,676	1,696
Securities borrowed ^(c)	—	(91)	(65)	(279)
Deposits with banks	1,256	448	2,986	1,374
Other assets ^(d)	525	219	1,311	623
Total interest income	16,687	14,070	47,379	41,435
Interest expense				
Interest-bearing deposits	837	340	1,949	981
Federal funds purchased and securities loaned or sold under repurchase agreements	451	286	1,131	828
Commercial paper	83	34	186	105
Trading liabilities – debt, short-term and other liabilities ^(e)	636	285	1,622	826
Beneficial interests issued by consolidated VIEs	123	135	386	366
Long-term debt	1,759	1,387	5,035	3,999
Total interest expense	3,889	2,467	10,309	7,105
Net interest income	12,798	11,603	37,070	34,330
Provision for credit losses	1,452	1,271	3,982	4,497
Net interest income after provision for credit losses	\$11,346	\$10,332	\$33,088	\$29,833

(a) Includes the amortization of purchase price discounts or premiums, as well as net deferred loan fees or costs.

(b) Represents securities which are tax-exempt for U.S. federal income tax purposes.

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) Largely margin loans.

(e) Includes largely brokerage customer payables, and to a lesser extent, other borrowed funds.

Note 7 – Pension and other postretirement employee benefit plans

For a discussion of JPMorgan Chase's pension and OPEB plans, see Note 9 of JPMorgan Chase's 2016 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.

	Pension plans				OPEB plans	
	U.S.		Non-U.S.			
	2017	2016	2017	2016	2017	2016
Three months ended September 30, (in millions)						
Components of net periodic benefit cost						
Benefits earned during the period	\$75	\$74	\$8	\$9	\$—	\$—
Interest cost on benefit obligations	130	133	18	21	7	7
Expected return on plan assets	(208)	(223)	(34)	(32)	(24)	(26)
Amortization:						
Net (gain)/loss	55	59	8	6	—	—
Prior service cost/(credit)	(9)	(9)	—	—	—	—
Net periodic defined benefit cost	43	34	—	4	(17)	(19)
Other defined benefit pension plans ^(a)	3	3	3	3	NA	NA
Total defined benefit plans	46	37	3	7	(17)	(19)
Total defined contribution plans	136	123	85	80	NA	NA
Total pension and OPEB cost included in compensation expense	\$182	\$160	\$88	\$87	\$(17)	\$(19)

	Pension plans				OPEB plans	
	U.S.		Non-U.S.			
	2017	2016	2017	2016	2017	2016
Nine months ended September 30, (in millions)						
Components of net periodic benefit cost						
Benefits earned during the period	\$224	\$221	\$23	\$27	\$—	\$—
Interest cost on benefit obligations	390	399	57	71	21	22
Expected return on plan assets	(624)	(668)	(101)	(102)	(72)	(78)
Amortization:						
Net (gain)/loss	165	176	22	17	—	—
Prior service cost/(credit)	(26)	(26)	(1)	(1)	—	—
Settlement (gain)/loss	—	—	(3)	—	—	—
Net periodic defined benefit cost	129	102	(3)	12	(51)	(56)
Other defined benefit pension plans ^(a)	9	10	7	8	NA	NA
Total defined benefit plans	138	112	4	20	(51)	(56)
Total defined contribution plans	363	345	254	249	NA	NA
Total pension and OPEB cost included in compensation expense	\$501	\$457	\$258	\$269	\$(51)	\$(56)

(a) Includes various defined benefit pension plans which are individually immaterial.

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)	September 30, December 31,	
	2017	2016
Fair value of plan assets		
U.S. defined benefit pension and OPEB plans	\$ 17.4	\$ 16.2
Material non-U.S. defined benefit pension plans	3.8	3.4
There are no expected contributions to the U.S. defined benefit pension plan for 2017.		

Note 8 – Employee stock-based incentives

For a discussion of the accounting policies and other information relating to employee stock-based incentives, see Note 10 of JPMorgan Chase’s 2016 Annual Report.

The Firm recognized the following noncash compensation expense related to its various employee stock-based incentive plans in its Consolidated statements of income.

	Three months ended September 30,		Nine months ended September 30,	
(in millions)	2017	2016	2017	2016
Cost of prior grants of RSUs, stock appreciation rights (“SARs”) and performance share units (“PSUs”) that are amortized over their applicable vesting periods	\$267	\$257	\$867	\$808
Accrual of estimated costs of stock-based awards to be granted in future periods including those to full-career eligible employees	224	230	750	752
Total noncash compensation expense related to employee stock-based incentive plans	\$491	\$487	\$1,617	\$1,560

In the first quarter of 2017, in connection with its annual incentive grant for the 2016 performance year, the Firm granted 23 million RSUs and 675 thousand PSUs, all with a weighted-average grant date fair value of \$84.25.

Note 9 – Securities

Securities are classified as trading, AFS or HTM. 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 within the investment securities portfolio in connection with the Firm's asset-liability management objectives. At September 30, 2017, 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, see Note 12 of JPMorgan Chase's 2016 Annual Report. The amortized costs and estimated fair values of the investment securities portfolio were as follows for the dates indicated.

(in millions)	September 30, 2017				December 31, 2016			
	Amortized cost	Gross unrealized gains	Gross unrealized losses	Fair value	Amortized cost	Gross unrealized gains	Gross unrealized losses	Fair value
Available-for-sale debt securities								
Mortgage-backed securities:								
U.S. government agencies ^(a)	\$70,554	\$ 1,061	\$ 260	\$71,355	\$63,367	\$ 1,112	\$ 474	\$64,005
Residential:								
U.S. ^(b)	8,771	205	11	8,965	8,171	100	28	8,243
Non-U.S.	3,974	139	2	4,111	6,049	158	7	6,200
Commercial	6,024	102	8	6,118	9,002	122	20	9,104
Total mortgage-backed securities	89,323	1,507	281	90,549	86,589	1,492	529	87,552
U.S. Treasury and government agencies ^(a)	26,225	180	196	26,209	44,822	75	796	44,101
Obligations of U.S. states and municipalities	30,262	1,894	64	32,092	30,284	1,492	184	31,592
Certificates of deposit	58	—	—	58	106	—	—	106
Non-U.S. government debt securities	30,738	580	31	31,287	34,497	836	45	35,288
Corporate debt securities	3,660	101	2	3,759	4,916	64	22	4,958
Asset-backed securities:								
Collateralized loan obligations	22,451	54	2	22,503	27,352	75	26	27,401
Other	9,136	80	16	9,200	6,950	62	45	6,967
Total available-for-sale debt securities	211,853	4,396	592	215,657	235,516	4,096	1,647	237,965
Available-for-sale equity securities	552	—	—	552	914	12	—	926
Total available-for-sale securities	212,405	4,396	592	216,209	236,430	4,108	1,647	238,891
Held-to-maturity debt securities								
Mortgage-backed securities:								
U.S. government agencies ^(c)	26,899	715	24	27,590	29,910	638	37	30,511
Commercial	5,793	2	67	5,728	5,783	—	129	5,654
Total mortgage-backed securities	32,692	717	91	33,318	35,693	638	166	36,165
Obligations of U.S. states and municipalities	14,387	583	65	14,905	14,475	374	125	14,724
Total held-to-maturity debt securities	47,079	1,300	156	48,223	50,168	1,012	291	50,889
Total securities	\$259,484	\$ 5,696	\$ 748	\$264,432	\$286,598	\$ 5,120	\$ 1,938	\$289,780

^(a) Included total U.S. government-sponsored enterprise obligations with fair values of \$51.8 billion and \$45.8 billion at September 30, 2017, and December 31, 2016, respectively, which were predominantly mortgage-related.

^(b) Prior period amounts have been revised to conform with current period presentation.

^(c)

Included total U.S. government-sponsored enterprise obligations with amortized cost of \$22.9 billion and \$25.6 billion at September 30, 2017, and December 31, 2016, respectively, which were mortgage-related.

Securities impairment

The following tables present the fair value and gross unrealized losses for investment securities by aging category at September 30, 2017, and December 31, 2016.

	Securities with gross unrealized losses					
	Less than 12 months		12 months or more			
September 30, 2017 (in millions)	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses	Total fair value	Total gross unrealized losses
Available-for-sale debt securities						
Mortgage-backed securities:						
U.S. government agencies	\$21,380	\$ 156	\$3,698	\$ 104	\$25,078	\$ 260
Residential:						
U.S.	464	1	749	10	1,213	11
Non-U.S.	634	1	430	1	1,064	2
Commercial	1,055	4	789	4	1,844	8
Total mortgage-backed securities	23,533	162	5,666	119	29,199	281
U.S. Treasury and government agencies	695	2	5,803	194	6,498	196
Obligations of U.S. states and municipalities	3,495	32	910	32	4,405	64
Certificates of deposit	—	—	—	—	—	—
Non-U.S. government debt securities	4,514	10	797	21	5,311	31
Corporate debt securities	—	—	406	2	406	2
Asset-backed securities:						
Collateralized loan obligations	—	—	545	2	545	2
Other	3,132	8	1,290	8	4,422	16
Total available-for-sale debt securities	35,369	214	15,417	378	50,786	592
Available-for-sale equity securities	—	—	—	—	—	—
Held-to-maturity securities						
Mortgage-backed securities						
U.S. government agencies	2,706	24	—	—	2,706	24
Commercial	5,253	61	274	6	5,527	67
Total mortgage-backed securities	7,959	85	274	6	8,233	91
Obligations of U.S. states and municipalities	1,137	11	1,803	54	2,940	65
Total held-to-maturity securities	9,096	96	2,077	60	11,173	156
Total securities with gross unrealized losses	\$44,465	\$ 310	\$17,494	\$ 438	\$61,959	\$ 748

December 31, 2016 (in millions)	Securities with gross unrealized losses					
	Less than 12 months		12 months or more			
	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses	Total fair value	Total gross unrealized losses
Available-for-sale debt securities						
Mortgage-backed securities:						
U.S. government agencies	\$29,856	\$ 463	\$506	\$ 11	\$30,362	\$ 474
Residential:						
U.S. ^(a)	1,373	6	1,073	22	\$2,446	28
Non-U.S.	—	—	886	7	886	7
Commercial	2,328	17	1,078	3	3,406	20
Total mortgage-backed securities	33,557	486	3,543	43	37,100	529
U.S. Treasury and government agencies	23,543	796	—	—	23,543	796
Obligations of U.S. states and municipalities	7,215	181	55	3	7,270	184
Certificates of deposit	—	—	—	—	—	—
Non-U.S. government debt securities	4,436	36	421	9	4,857	45
Corporate debt securities	797	2	829	20	1,626	22
Asset-backed securities:						
Collateralized loan obligations	766	2	5,263	24	6,029	26
Other	739	6	1,992	39	2,731	45
Total available-for-sale debt securities	71,053	1,509	12,103	138	83,156	1,647
Available-for-sale equity securities	—	—	—	—	—	—
Held-to-maturity debt securities						
Mortgage-backed securities						
U.S. government agencies	3,129	37	—	—	3,129	37
Commercial	5,163	114	441	15	5,604	129
Total mortgage-backed securities	8,292	151	441	15	8,733	166
Obligations of U.S. states and municipalities	4,702	125	—	—	4,702	125
Total Held-to-maturity securities	12,994	276	441	15	13,435	291
Total securities with gross unrealized losses	\$84,047	\$ 1,785	\$12,544	\$ 153	\$96,591	\$ 1,938

(a) Prior period amounts have been revised to conform with current period presentation.

Gross unrealized losses

The Firm has recognized unrealized losses on securities it intends to sell as OTTI. The Firm does not intend to sell any of the remaining securities with an unrealized loss in AOCI as of September 30, 2017, 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 securities with an unrealized loss in AOCI as of September 30, 2017, are not other-than-temporarily impaired. For additional information on other-than-temporary impairment, see Note 12 of the JPMorgan Chase's 2016 Annual Report.

Securities gains and losses

The following table presents realized gains and losses and OTTI losses from AFS securities that were recognized in income.

Three months ended September 30,	Nine months ended September 30,
----------------------------------	---------------------------------

(in millions)	2017	2016	2017	2016
Realized gains	\$122	\$95	\$664	\$284
Realized losses	(123)	(22)	(696)	(110)
OTTI losses ^(a)	—	(9)	(6)	(38)
Net securities gains/(losses)	\$(1)	\$64	\$(38)	\$136

OTTI losses

Credit-related losses recognized in income \$— \$— \$— \$(1)

Securities the Firm intends to sell^(a) — (9) (6) (37)

Total OTTI losses recognized in income \$— \$(9) \$(6) \$(38)

Excludes realized losses on securities sold of \$6 million and \$14 million for the nine months ended September 30, (a)2017 and 2016, respectively, 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 debt securities that the Firm does not intend to sell was not material as of and during the three and nine month periods ended September 30, 2017 and 2016.

Contractual maturities and yields

The following table presents the amortized cost and estimated fair value at September 30, 2017, of JPMorgan Chase's investment securities portfolio by contractual maturity.

By remaining maturity September 30, 2017 (in millions)	Due in one year or less	Due after one year through five years	Due after five years through 10 years	Due after 10 years ^(c)	Total	
Available-for-sale debt securities						
Mortgage-backed securities ^(a)						
Amortized cost	982	1,564	6,160	80,617	\$89,323	
Fair value	984	1,591	6,342	81,632	\$90,549	
Average yield ^(b)	1.66	% 2.12	% 3.14	% 3.33	% 3.28	%
U.S. Treasury and government agencies						
Amortized cost	99	—	22,004	4,122	\$26,225	
Fair value	100	—	21,968	4,141	\$26,209	
Average yield ^(b)	0.93	% —	% 1.52	% 1.64	% 1.54	%
Obligations of U.S. states and municipalities						
Amortized cost	44	797	1,174	28,247	\$30,262	
Fair value	44	820	1,241	29,987	\$32,092	
Average yield ^(b)	2.07	% 3.70	% 6.53	% 6.60	% 6.51	%
Certificates of deposit						
Amortized cost	58	—	—	—	\$58	
Fair value	58	—	—	—	\$58	
Average yield ^(b)	0.50	% —	% —	% —	% 0.50	%
Non-U.S. government debt securities						
Amortized cost	4,683	14,216	11,785	54	\$30,738	
Fair value	4,689	14,441	12,105	52	\$31,287	
Average yield ^(b)	2.95	% 1.56	% 1.10	% 0.79	% 1.59	%
Corporate debt securities						
Amortized cost	971	1,128	1,415	146	\$3,660	
Fair value	972	1,164	1,470	153	\$3,759	
Average yield ^(b)	2.02	% 3.39	% 3.48	% 3.19	% 3.05	%
Asset-backed securities						
Amortized cost	—	3,604	17,060	10,923	\$31,587	
Fair value	—	3,597	17,099	11,007	\$31,703	
Average yield ^(b)	—	% 2.18	% 2.59	% 2.31	% 2.45	%
Total available-for-sale debt securities						
Amortized cost	\$6,837	\$21,309	\$59,598	\$124,109	\$211,853	
Fair value	\$6,847	\$21,613	\$60,225	\$126,972	\$215,657	
Average yield ^(b)	2.58	% 1.88	% 2.06	% 3.93	% 3.15	%
Available-for-sale equity securities						
Amortized cost	—	—	—	552	552	
Fair value	—	—	—	552	552	
Average yield ^(b)	—	% —	% —	% 0.63	% 0.63	%
Total available-for-sale securities						
Amortized cost	\$6,837	\$21,309	\$59,598	\$124,661	\$212,405	
Fair value	\$6,847	\$21,613	\$60,225	\$127,524	\$216,209	
Average yield ^(b)	2.58	% 1.88	% 2.06	% 3.91	% 3.14	%
Held-to-maturity debt securities						
Mortgage-backed securities ^(a)						

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Amortized cost	—	—	—	32,692	\$32,692	
Fair value	—	—	—	33,318	\$33,318	
Average yield ^(b)	—	%—	%—	%3.28	% 3.28	%
Obligations of U.S. states and municipalities						
Amortized cost	—	56	1,974	12,357	\$14,387	
Fair value	—	55	2,047	12,803	\$14,905	
Average yield ^(b)	—	%6.25	%5.18	%5.68	% 5.61	%
Total held-to-maturity securities						
Amortized cost	\$—	\$56	\$1,974	\$45,049	\$47,079	
Fair value	\$—	\$55	\$2,047	\$46,121	\$48,223	
Average yield ^(b)	—	%6.25	%5.18	%3.94	% 3.99	%

As of September 30, 2017, mortgage-backed securities issued by Fannie Mae exceeded 10% of JPMorgan Chase's (a) total stockholders' equity; the amortized cost and fair value of such securities was \$59.7 billion and \$61.0 billion, respectively.

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.

Includes 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 6 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, see Note 13 of JPMorgan Chase's 2016 Annual Report. For further information regarding securities borrowed and securities lending agreements for which the fair value option has been elected, see Note 3. For further information regarding assets pledged and collateral received in securities financing agreements, see Note 20.

The table below summarizes the gross and net amounts of the Firm's securities financing agreements as of September 30, 2017 and December 31, 2016. 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, in the Firm's view, 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.

September 30, 2017

(in millions)	Gross amounts	Amounts netted on the Consolidated balance sheets	Amounts presented on the Consolidated balance sheets ^(b)	Amounts not nettable on the Consolidated balance sheets ^(c)	Net amounts ^(d)
Assets					
Securities purchased under resale agreements	\$454,541	\$(269,164)	) \$ 185,377	\$(175,359)	) \$ 10,018
Securities borrowed	105,338	(3,658)	) 101,680	(75,372)	) 26,308
Liabilities					
Securities sold under repurchase agreements	\$425,670	\$(269,164)	) \$ 156,506	\$(140,740)	) \$ 15,766
Securities loaned and other ^(a)	27,373	(3,658)	) 23,715	(23,414)	) 301

December 31, 2016

(in millions)	Gross amounts	Amounts netted on the Consolidated balance sheets	Amounts presented on the Consolidated balance sheets ^(b)	Amounts not nettable on the Consolidated balance sheets ^(c)	Net amounts ^(d)
Assets					
Securities purchased under resale agreements	\$480,735	\$(250,832)	) \$ 229,903	\$(222,413)	) \$ 7,490
Securities borrowed	96,409	—	) 96,409	(66,822)	) 29,587

Liabilities

Securities sold under repurchase agreements	\$402,465	\$ (250,832)	\$ 151,633	\$ (133,300)	\$ 18,333
Securities loaned and other ^(a)	22,451	—	22,451	(22,177)	274

Includes securities-for-securities lending transactions of \$12.5 billion and \$9.1 billion at September 30, 2017 and (a) December 31, 2016, 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.

Includes securities financing agreements accounted for at fair value. At September 30, 2017 and December 31, 2016, included securities purchased under resale agreements of \$16.5 billion and \$21.5 billion, respectively and (b) securities sold under agreements to repurchase of \$714 million and \$687 million, respectively. There were \$3.1 billion of securities borrowed at September 30, 2017 and there were no securities borrowed at December 31, 2016. There were no securities loaned accounted for at fair value in either period.

In some cases, collateral exchanged with a counterparty exceeds the net asset or liability balance with that (c) counterparty. In such cases, the amounts reported in this column are limited to the related asset or liability with that counterparty.

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 September 30, 2017 and (d) December 31, 2016, included \$7.2 billion and \$4.8 billion, respectively, of securities purchased under resale agreements; \$23.8 billion and \$27.1 billion, respectively, of securities borrowed; \$12.7 billion and \$15.9 billion, respectively, of securities sold under agreements to repurchase; and \$200 million and \$90 million, respectively, of securities loaned and other.

The tables below present as of September 30, 2017, and December 31, 2016 the types of financial assets pledged in securities financing agreements and the remaining contractual maturity of the securities financing agreements.

(in millions)	Gross liability balance			
	September 30, 2017		December 31, 2016	
	Securities sold under repurchase agreements	Securities loaned and other ^(a)	Securities sold under repurchase agreements	Securities loaned and other ^(a)
Mortgage-backed securities	\$7,903	\$—	\$10,546	\$—
U.S. Treasury and government agencies	206,803	—	199,030	—
Obligations of U.S. states and municipalities	1,282	—	2,491	—
Non-U.S. government debt	175,554	3,234	149,008	1,279
Corporate debt securities	16,562	174	18,140	108
Asset-backed securities	3,290	—	7,721	—
Equity securities	14,276	23,965	15,529	21,064
Total	\$425,670	\$27,373	\$402,465	\$22,451
Remaining contractual maturity of the agreements				
September 30, 2017 (in millions)	Overnight and continuous	Up to 30 days	30 – 90 days	Greater than 90 days
				Total
Total securities sold under repurchase agreements	\$181,071	\$141,831	\$57,732	\$45,036
Total securities loaned and other ^(a)	20,992	1,107	1,676	3,598
Total				
\$425,670				
Remaining contractual maturity of the agreements				
December 31, 2016 (in millions)	Overnight and continuous	Up to 30 days	30 – 90 days	Greater than 90 days
				Total
Total securities sold under repurchase agreements	\$140,318	\$157,860	\$55,621	\$48,666
Total securities loaned and other ^(a)	13,586	1,371	2,877	4,617
Total				
\$402,465				

Includes securities-for-securities lending transactions of \$12.5 billion and \$9.1 billion at September 30, 2017 and (a) December 31, 2016, 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 September 30, 2017, and December 31, 2016, the Firm held \$4.1 billion and \$5.9 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 other borrowed funds 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 credit-impaired 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, see Note 14 of JPMorgan Chase’s 2016 Annual Report. See Note 3 of this Form 10-Q for further information on the Firm’s elections of fair value accounting under the fair value option. See 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)

Credit card

Wholesale^(f)

Residential real estate – excluding PCI

• Home equity^(b)

• Residential mortgage^(c)

Other consumer loans

• Auto^(d)

• Consumer & Business Banking^{(d)(e)}

• Student

• Credit card loans

• Commercial and industrial

• Real estate

• Financial institutions

• Government agencies

• Other^(g)

Residential real estate – PCI

• Home equity

• Prime mortgage

• Subprime mortgage

• Option ARMs

(a) Includes loans held in CCB, prime mortgage and home equity loans held in AWM and prime mortgage loans held in Corporate.

(b) Includes senior and junior lien home equity loans.

(c) Predominantly includes prime (including option ARMs) and subprime loans.

Includes certain business banking and auto dealer risk-rated loans that apply the wholesale methodology for

(d) 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.

Includes loans held in CIB, CB, AWM and Corporate. Excludes prime mortgage and home equity loans held in

(f) AWM and prime mortgage loans held in Corporate. Classes are internally defined and may not align with regulatory definitions.

(g) Includes loans to: individuals; SPEs; and private education and civic organizations. For more information on SPEs, see Note 16 of JPMorgan Chase’s 2016 Annual Report.

The following tables summarize the Firm’s loan balances by portfolio segment.

September 30, 2017	Consumer,	Credit	Wholesale	Total
(in millions)	excluding	card ^(a)		
	credit card			

Retained	\$ 369,413	\$ 141,200	\$ 398,569	\$ 909,182 ^(b)
Held-for-sale	188	113	2,532	2,833
At fair value	—	—	1,746	1,746
Total	\$ 369,601	\$ 141,313	\$ 402,847	\$ 913,761

December 31, 2016 (in millions)	Consumer, excluding credit card	Credit card ^(a)	Wholesale	Total
Retained	\$ 364,406	\$ 141,711	\$ 383,790	\$ 889,907 ^(b)
Held-for-sale	238	105	2,285	2,628
At fair value	—	—	2,230	2,230
Total	\$ 364,644	\$ 141,816	\$ 388,305	\$ 894,765

(a) Includes accrued interest and fees net of an allowance for the uncollectible portion of accrued interest and fee income.

Loans (other than PCI loans and loans for which the fair value option has been elected) are presented net of (b) unearned income, unamortized discounts and premiums, and net deferred loan costs. These amounts were not material as of September 30, 2017, and December 31, 2016.

The following table provides information about the carrying value of retained loans purchased, sold and reclassified to held-for-sale during the periods indicated. This table excludes loans recorded at fair value. The Firm manages its exposure to credit risk on an ongoing basis. Selling loans is one way that the Firm reduces its credit exposures.

Three months ended September 30, (in millions)	2017				2016					
	Consumer, excluding credit card	(a)(b)	Credit card	WholesaleTotal	Consumer, excluding credit card	(a)(b)	Credit card	WholesaleTotal		
Purchases	\$711	(a)(b)	\$ —	\$ 479	\$1,190	\$959	(a)(b)	\$ —	\$ 282	\$1,241
Sales	672	—	3,342	4,014	577	—	2,637	3,214		
Retained loans reclassified to held-for-sale	—	—	367	367	176	—	777	953		

Nine months ended September 30, (in millions)	2017				2016			
	Consumer, excluding credit card	Credit card	Wholesale	Total	Consumer, excluding credit card	Credit card	Wholesale	Total
Purchases	\$2,277 ^{(a)(b)}	\$ —	\$ 1,357	\$3,634	\$3,048 ^{(a)(b)}	\$ —	\$ 975	\$4,023
Sales	2,025	—	8,166	10,191	2,242	—	6,383	8,625
Retained loans reclassified to held-for-sale	6,340 ^(c)	—	961	7,301	259	—	1,393	1,652

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.

Excludes purchases of retained loans sourced through the correspondent origination channel and underwritten in accordance with the Firm's standards. Such purchases were \$6.9 billion and \$6.7 billion for the three months ended September 30, 2017 and 2016, respectively, and \$18.2 billion and \$23.8 billion for the nine months ended September 30, 2017 and 2016, respectively.

Includes the Firm's student loan portfolio, which was transferred to held-for-sale in the first quarter of 2017. For additional information see Note 23.

The following table provides information about gains and losses on loan sales, including lower of cost or fair value adjustments, by portfolio segment.

(in millions)	Three months ended September 30,		Nine months ended September 30,	
	2017	2016	2017	2016
Net gains/(losses) on sales of loans (including lower of cost or fair value adjustments) ^(a)	\$37	\$51	\$(177)	\$168
Consumer, excluding credit card ^(b)	(2)	(2)	(4)	(6)
Credit card	11	17	33	15
Wholesale	\$46	\$66	\$(148)	\$177
Total net gains on sales of loans (including lower of cost or fair value adjustments)				

(a) Excludes sales related to loans accounted for at fair value.

Includes the Firm's student loan portfolio, which was transferred to held-for-sale in the first quarter of 2017. For additional information see Note 23.

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, consumer and business banking loans, and student 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 table below provides information about retained consumer loans, excluding credit card, by class. In the first quarter of 2017, the Firm transferred the student loan portfolio to held-for-sale. For additional information see Note 23.

(in millions)	September 30, 2017	December 31, 2016
Residential real estate – excluding PCI		
Home equity	\$ 34,657	\$ 39,063
Residential mortgage ^(a)	212,558	192,486
Other consumer loans		
Auto	65,102	65,814
Consumer & Business Banking ^(a)	25,275	24,307
Student ^(a)	—	7,057
Residential real estate – PCI		
Home equity	11,321	12,902
Prime mortgage	6,747	7,602
Subprime mortgage	2,691	2,941
Option ARMs	11,062	12,234
Total retained loans	\$ 369,413	\$ 364,406

^(a) Certain loan portfolios have been reclassified. The prior period amounts have been revised to conform with the current period presentation.

For further information on consumer credit quality indicators, see Note 14 of JPMorgan Chase's 2016 Annual Report.

Residential real estate – excluding PCI loans

The following table provides information by class for residential real estate – excluding retained PCI loans in the consumer, excluding credit card, portfolio segment.

Residential real estate – excluding PCI loans

(in millions, except ratios)	Home equity		Residential mortgage ^(g)		Total residential real estate – excluding PCI	
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Loan delinquency ^(a)						
Current	\$33,675	\$37,941	\$205,496	\$184,133	\$239,171	\$222,074
30–149 days past due	586	646	3,460	3,828	4,046	4,474
150 or more days past due	396	476	3,602	4,525	3,998	5,001
Total retained loans	\$34,657	\$39,063	\$212,558	\$192,486	\$247,215	\$231,549
% of 30+ days past due to total retained loans ^(b)	2.83	% 2.87	% 0.61	% 0.75	% 0.92	% 1.11
90 or more days past due and government guaranteed ^(c)	\$—	\$—	\$3,877	\$4,858	\$3,877	\$4,858
Nonaccrual loans	1,601	1,845	2,095	2,256	3,696	4,101
Current estimated LTV ratios ^{(d)(e)}						
Greater than 125% and refreshed FICO scores:						
Equal to or greater than 660	\$12	\$70	\$12	\$30	\$24	\$100
Less than 660	4	15	31	48	35	63
101% to 125% and refreshed FICO scores:						
Equal to or greater than 660	360	668	47	135	407	803
Less than 660	117	221	119	177	236	398
80% to 100% and refreshed FICO scores:						
Equal to or greater than 660	1,959	2,961	4,357	4,026	6,316	6,987
Less than 660	635	945	550	718	1,185	1,663
Less than 80% and refreshed FICO scores:						
Equal to or greater than 660	25,756	27,317	190,749	169,579	216,505	196,896
Less than 660	3,896	4,380	6,974	6,759	10,870	11,139
No FICO/LTV available	1,918	2,486	1,444	1,650	3,362	4,136
U.S. government-guaranteed	—	—	8,275	9,364	8,275	9,364
Total retained loans	\$34,657	\$39,063	\$212,558	\$192,486	\$247,215	\$231,549
Geographic region						
California	\$6,771	\$7,644	\$67,329	\$59,802	\$74,100	\$67,446
New York	7,148	7,978	27,198	24,916	34,346	32,894
Illinois	2,615	2,947	14,343	13,126	16,958	16,073
Texas	2,072	2,225	12,209	10,772	14,281	12,997
Florida	1,899	2,133	9,407	8,395	11,306	10,528
New Jersey	2,010	2,253	7,073	6,374	9,083	8,627
Colorado	603	677	7,168	6,306	7,771	6,983
Washington	1,079	1,229	6,668	5,451	7,747	6,680
Massachusetts	316	371	6,265	5,834	6,581	6,205
Arizona	1,516	1,772	4,039	3,595	5,555	5,367
All other ^(f)	8,628	9,834	50,859	47,915	59,487	57,749
Total retained loans	\$34,657	\$39,063	\$212,558	\$192,486	\$247,215	\$231,549

(a) Individual delinquency classifications include mortgage loans insured by U.S. government agencies as follows:

current included \$2.5 billion and \$2.5 billion; 30–149 days past due included \$2.8 billion and \$3.1 billion; and 150

or more days past due included \$3.0 billion and \$3.8 billion at September 30, 2017, and December 31, 2016, respectively.

- (b) U.S. government agencies of \$5.8 billion and \$6.9 billion, respectively, that are 30 or more days past due. These amounts have been excluded based upon the government guarantee.

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

- (c) September 30, 2017, and December 31, 2016, these balances included \$1.6 billion and \$2.2 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 September 30, 2017, and December 31, 2016.

Represents the aggregate unpaid principal balance of loans divided by the estimated current property value.

- (d) 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 September 30, 2017, and December 31, 2016, included mortgage loans insured by U.S. government agencies of \$8.3 billion and \$9.4 billion, respectively.

- (g) Certain loan portfolios have been reclassified. The prior period amounts have been revised to conform with the current period presentation.

The following table represents the Firm's delinquency statistics for junior lien home equity loans and lines as of September 30, 2017, and December 31, 2016.

(in millions, except ratios)	Total loans		Total 30+ day delinquency rate		
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	
HELOCs: ^(a)					
Within the revolving period ^(b)	\$7,058	\$10,304	0.62	% 1.27	%
Beyond the revolving period	13,613	13,272	3.11	3.05	
HELOANs	1,477	1,861	2.91	2.85	
Total	\$22,148	\$25,437	2.30	% 2.32	%

- (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 15 of JPMorgan Chase's 2016 Annual Report.

(in millions)	Home equity		Residential mortgage		Total residential real estate – excluding PCI	
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Impaired loans						
With an allowance	\$1,224	\$1,266	\$4,418	\$4,689	\$5,642	\$5,955
Without an allowance ^(a)	910	998	1,249	1,343	2,159	2,341
Total impaired loans ^{(b)(c)}	\$2,134	\$2,264	\$5,667	\$6,032	\$7,801	\$8,296
Allowance for loan losses related to impaired loans	\$110	\$121	\$66	\$68	\$176	\$189
Unpaid principal balance of impaired loans ^(d)	3,754	3,847	7,842	8,285	11,596	12,132
Impaired loans on nonaccrual status ^(e)	1,021	1,116	1,656	1,755	2,677	2,871

- (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 September 30, 2017, Chapter 7 residential real estate loans included approximately 12% of home equity and 14% of residential mortgages that were 30 days or more past due.

- (b) At September 30, 2017, and December 31, 2016, \$3.7 billion and \$3.4 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.

Represents the contractual amount of principal owed at September 30, 2017, and December 31, 2016. The

(d) 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.

As of September 30, 2017 and December 31, 2016, nonaccrual loans included \$2.2 billion and \$2.3 billion,

(e) respectively, 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 14 of JPMorgan Chase's 2016 Annual Report.

The following tables present average impaired loans and the related interest income reported by the Firm.

Three months ended September 30, (in millions)	Average impaired loans		Interest income on impaired loans ^(a)		Interest income on impaired loans on a cash basis ^(a)	
	2017	2016	2017	2016	2017	2016
Home equity	\$2,150	\$2,276	\$32	\$31	\$20	\$20
Residential mortgage	5,743	6,305	71	76	19	19
Total residential real estate – excluding PCI	\$7,893	\$8,581	\$103	\$107	\$39	\$39

Nine months ended September 30, (in millions)	Average impaired loans		Interest income on impaired loans ^(a)		Interest income on impaired loans on a cash basis ^(a)	
	2017	2016	2017	2016	2017	2016
Home equity	\$2,213	\$2,325	\$95	\$94	\$60	\$61
Residential mortgage	5,861	6,457	217	231	57	58
Total residential real estate – excluding PCI	\$8,074	\$8,782	\$312	\$325	\$117	\$119

(a) Generally, interest income on loans modified in TDRs is recognized on a cash basis until such time as 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.

(in millions)	Three months ended September 30,		Nine months ended September 30,	
	2017	2016	2017	2016
	2017	2016	2017	2016
Home equity	\$82	\$62	\$232	\$258
Residential mortgage	57	72	225	194
Total residential real estate – excluding PCI	\$139	\$134	\$457	\$452

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.

Three months ended September 30,	Home equity		Residential mortgage		Total residential real estate – excluding PCI		
	2017	2016	2017	2016	2017	2016	
Number of loans approved for a trial modification	536	351	206	386	742	737	
Number of loans permanently modified	1,228	1,163	510	849	1,738	2,012	
Concession granted: ^(a)							
Interest rate reduction	60	%83	% 64	%81	% 61	%82	%
Term or payment extension	66	76	80	86	70	81	
Principal and/or interest deferred	8	21	22	15	12	18	
Principal forgiveness	19	6	17	25	19	14	
Other ^(b)	32	6	15	27	27	15	

Nine months ended September 30,	Home equity		Residential mortgage		Total residential real estate – excluding PCI		
	2017	2016	2017	2016	2017	2016	
Number of loans approved for a trial modification	1,844	2,088	1,052	1,521	2,896	3,609	
Number of loans permanently modified	4,028	3,804	1,952	2,560	5,980	6,364	
Concession granted: ^(a)							
Interest rate reduction	68	%74	% 73	%75	% 69	%75	%
Term or payment extension	78	84	84	89	80	86	
Principal and/or interest deferred	12	12	16	18	13	18	
Principal forgiveness	12	9	18	27	14	16	
Other ^(b)	19	1	24	14	21	11	

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. A significant portion of trial modifications include interest rate reductions and/or term or payment extensions.

(b) Predominantly represents variable interest rate to fixed interest rate modifications.

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, under the loss mitigation programs described above and about redefaults of certain loans modified in TDRs for the periods presented. Because the specific types and amounts of concessions offered to borrowers frequently change between the trial modification and the permanent modification, the following tables present only the financial effects of permanent modifications. These tables also exclude Chapter 7 loans where the sole concession granted is the discharge of debt.

Three months ended September 30, (in millions, except weighted-average data)	Home equity		Residential mortgage		Total residential real estate – excluding PCI	
	2017	2016	2017	2016	2017	2016
Weighted-average interest rate of loans with interest rate reductions – before TDR	5.26%	4.99%	4.92%	5.76%	5.06 %	5.47 %
Weighted-average interest rate of loans with interest rate reductions – after TDR	2.96	2.28	2.89	2.99	2.92	2.73
Weighted-average remaining contractual term (in years) of loans with term or payment extensions – before TDR	18	19	24	24	22	22
Weighted-average remaining contractual term (in years) of loans with term or payment extensions – after TDR	38	38	38	38	38	38
Charge-offs recognized upon permanent modification	\$—	\$	\$	\$1	\$	\$1
Principal deferred	1	6	3	7	4	13
Principal forgiven	4	1	5	12	9	13
Balance of loans that redefaulted within one year of permanent modification ^(a)	\$17	\$13	\$32	\$29	\$49	\$42

Nine months ended September 30, (in millions, except weighted-average)	Home equity		Residential mortgage		Total residential real estate – excluding PCI	
	2017	2016	2017	2016	2017	2016
Weighted-average interest rate of loans with interest rate reductions – before TDR	4.92%	5.08%	5.16%	5.66%	5.06 %	5.43 %
Weighted-average interest rate of loans with interest rate reductions – after TDR	2.55	2.40	2.97	2.94	2.79	2.73
Weighted-average remaining contractual term (in years) of loans with term or payment extensions – before TDR	22	18	24	25	23	22
Weighted-average remaining contractual term (in years) of loans with term or payment extensions – after TDR	39	38	38	38	38	38
Charge-offs recognized upon permanent modification	\$1	\$1	\$1	\$3	\$2	\$4
Principal deferred	8	18	10	26	18	44
Principal forgiven	9	5	16	37	25	42
Balance of loans that redefaulted within one year of permanent modification ^(a)	\$36	\$31	\$86	\$72	\$122	\$103

(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 September 30, 2017, the weighted-average estimated remaining lives of residential real estate loans, excluding PCI loans, permanently modified in TDRs were 10 years for home equity and 14 years for residential mortgage. 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 September 30, 2017, and December 31, 2016, the Firm had non-PCI residential real estate loans, excluding those insured by U.S. government agencies, with a carrying value of \$836 million and \$932 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. This table excludes student loans as a result of the transfer of the student loan portfolio to held-for-sale in the first quarter of 2017 and its subsequent sale in the second quarter of 2017.

(in millions, except ratios)	Auto		Consumer & Business Banking ^(c)	
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Loan delinquency				
Current	\$64,496	\$65,029	\$24,934	\$23,920
30–119 days past due	606	773	204	247
120 or more days past due	—	12	137	140
Total retained loans	\$65,102	\$65,814	\$25,275	\$24,307
% of 30+ days past due to total retained loans	0.93 %	1.19 %	1.35 %	1.59 %
Nonaccrual loans ^(a)	188	214	274	287
Geographic region				
California	\$8,355	\$7,975	\$4,829	\$4,426
Texas	6,754	7,041	2,873	2,954
New York	3,919	4,078	4,115	3,979
Illinois	3,945	3,984	1,865	1,758
Florida	3,319	3,374	1,355	1,195
Ohio	2,077	2,194	1,410	1,402
Arizona	2,129	2,209	1,333	1,307
Michigan	1,411	1,567	1,349	1,343
New Jersey	2,037	2,031	704	623
Louisiana	1,672	1,814	872	979
All other	29,484	29,547	4,570	4,341
Total retained loans	\$65,102	\$65,814	\$25,275	\$24,307
Loans by risk ratings ^(b)				
Noncriticized	\$14,136	\$13,899	\$17,640	\$16,858
Criticized performing	125	201	803	816
Criticized nonaccrual	48	94	207	217

(a) There were no loans that were 90 or more days past due and still accruing interest at September 30, 2017, and December 31, 2016.

(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.

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

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)	September 30, 2017	December 31, 2016
Impaired loans		
With an allowance	\$ 317	\$ 614
Without an allowance ^(a)	29	30
Total impaired loans ^{(b)(c)}	\$ 346	\$ 644
Allowance for loan losses related to impaired loans	\$ 95	\$ 119
Unpaid principal balance of impaired loans ^(d)	439	753
Impaired loans on nonaccrual status	311	508

When discounted cash flows, collateral value or market price equals or exceeds the recorded investment in the (a) 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.

Other consumer average impaired loans were \$366 million and \$683 million for the three months ended September 30, 2017 and 2016, respectively, and \$459 million and \$626 million for the nine months ended (c) September 30, 2017 and 2016, respectively. The related interest income on impaired loans, including those on a cash basis, was not material for the three and nine months ended September 30, 2017 and 2016.

Represents the contractual amount of principal owed at September 30, 2017, and December 31, 2016. The unpaid (d) 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 in the table above. See Note 14 of JPMorgan Chase's 2016 Annual Report for further information on other consumer loans modified in TDRs.

The following table provides information about the Firm's other consumer loans modified in TDRs. New TDRs were not material for the three and nine months ended September 30, 2017 and 2016.

(in millions)	September 30, 2017	December 31, 2016
Loans modified in TDRs ^{(a)(b)}	\$ 115	\$ 362
TDRs on nonaccrual status	80	226

The impact of these modifications were not material to the Firm for the three and nine months ended September 30, (a) 2017 and 2016.

(b) Additional commitments to lend to borrowers whose loans have been modified in TDRs as of September 30, 2017, and December 31, 2016, were immaterial.

Purchased credit-impaired loans

For a detailed discussion of PCI loans, including the related accounting policies, see Note 14 of JPMorgan Chase's 2016 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 mortgage		Subprime mortgage		Option ARMs		Total PCI	
(in millions, except ratios)	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Carrying value ^(a)	\$ 11,321	\$ 12,902	\$ 6,747	\$ 7,602	\$ 2,691	\$ 2,941	\$ 11,062	\$ 12,234	\$ 31,821	\$ 35,679
Related allowance for loan losses ^(b)	1,133	1,433	883	829	150	—	79	49	2,245	2,311
Loan delinquency (based on unpaid principal balance)										
Current	\$ 10,860	\$ 12,423	\$ 6,111	\$ 6,840	\$ 2,798	\$ 3,005	\$ 10,086	\$ 11,074	\$ 29,855	\$ 33,342
30–149 days past due	289	291	311	336	316	361	468	555	1,384	1,543
150 or more days past due	408	478	349	451	182	240	739	917	1,678	2,086
Total loans	\$ 11,557	\$ 13,192	\$ 6,771	\$ 7,627	\$ 3,296	\$ 3,606	\$ 11,293	\$ 12,546	\$ 32,917	\$ 36,971
% of 30+ days past due to total loans	6.03	% 5.83	% 9.75	% 10.32	% 15.11	% 16.67	% 10.69	% 11.73	% 9.30	% 9.82
Current estimated LTV ratios (based on unpaid principal balance) ^{(c)(d)}										
Greater than 125% and refreshed FICO scores:										
Equal to or greater than 660	\$ 38	\$ 69	\$ 4	\$ 6	\$ 5	\$ 7	\$ 6	\$ 12	\$ 53	\$ 94
Less than 660	22	39	17	17	23	31	12	18	74	105
101% to 125% and refreshed FICO scores:										
Equal to or greater than 660	331	555	25	52	24	39	53	83	433	729
Less than 660	163	256	55	84	88	135	90	144	396	619
80% to 100% and refreshed FICO scores:										
Equal to or greater than 660	1,373	1,860	276	442	140	214	361	558	2,150	3,074
Less than 660	618	804	267	381	341	439	445	609	1,671	2,233

Lower than 80% and refreshed FICO scores:											
Equal to or greater than 660	6,305	6,676	3,624	3,967	910	919	6,253	6,754	17,092	18,316	
Less than 660	2,086	2,183	2,153	2,287	1,609	1,645	3,553	3,783	9,401	9,898	
No FICO/LTV available	621	750	350	391	156	177	520	585	1,647	1,903	
Total unpaid principal balance	\$11,557	\$13,192	\$6,771	\$7,627	\$3,296	\$3,606	\$11,293	\$12,546	\$32,917	\$36,971	
Geographic region (based on unpaid principal balance)											
California	\$6,890	\$7,899	\$3,860	\$4,396	\$821	\$899	\$6,402	\$7,128	\$17,973	\$20,322	
Florida	1,178	1,306	447	501	305	332	939	1,026	2,869	3,165	
New York	630	697	474	515	337	363	642	711	2,083	2,286	
Washington	565	673	141	167	62	68	248	290	1,016	1,198	
New Jersey	251	280	190	210	115	125	363	401	919	1,016	
Illinois	282	314	208	226	165	178	263	282	918	1,000	
Massachusetts	82	94	155	173	101	110	312	346	650	723	
Maryland	59	64	134	144	135	145	239	267	567	620	
Arizona	213	241	110	124	61	68	160	181	544	614	
Virginia	68	77	127	142	52	56	288	314	535	589	
All other	1,339	1,547	925	1,029	1,142	1,262	1,437	1,600	4,843	5,438	
Total unpaid principal balance	\$11,557	\$13,192	\$6,771	\$7,627	\$3,296	\$3,606	\$11,293	\$12,546	\$32,917	\$36,971	

(a) Carrying value includes the effect of fair value adjustments that were applied to the consumer PCI portfolio at the date of acquisition.

(b) Management concluded as part of the Firm's regular assessment of the PCI loan pools that it was probable that higher expected credit losses would result in a decrease in expected cash flows. As a result, an allowance for loan losses for impairment of these pools has been recognized.

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.

(d) 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 sets forth delinquency statistics for PCI junior lien home equity loans and lines of credit based on the unpaid principal balance as of September 30, 2017, and December 31, 2016.

(in millions, except ratios)	Total loans		Total 30+ day delinquency rate	
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
HELOCs: ^(a)				
Within the revolving period ^(b)	\$283	\$2,126	2.83	%3.67
Beyond the revolving period ^(c)	8,051	7,452	4.10	4.03
HELOANs	384	465	4.69	5.38
Total	\$8,718	\$10,043	4.08	%4.01

(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 nine months ended September 30, 2017 and 2016, 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.

(in millions, except ratios)	Total PCI			
	Three months ended		Nine months ended	
	September 30, 2017	September 30, 2016	September 30, 2017	September 30, 2016
Beginning balance	\$12,639	\$12,301	\$11,768	\$13,491
Accretion into interest income	(345)	(382)	(1,061)	(1,184)
Changes in interest rates on variable-rate loans	51	42	218	143
Other changes in expected cash flows ^(a)	(1,333)	291	87	(198)
Balance at September 30	\$11,012	\$12,252	\$11,012	\$12,252
Accretable yield percentage	4.54	%4.33	%4.48	%4.35

Other changes in expected cash flows may vary from period to period as the Firm continues to refine its cash flow (a) 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 September 30, 2017, and December 31, 2016, the Firm had PCI residential real estate loans with an unpaid principal balance of \$1.4 billion and \$1.7 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, see Note 14 of JPMorgan Chase's 2016 Annual Report.

The table below sets forth information about the Firm's credit card loans.

(in millions, except ratios)	September 30, 2017	December 31, 2016
Loan delinquency		
Current and less than 30 days past due and still accruing	\$ 138,716	\$ 139,434

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30–89 days past due and still accruing	1,269	1,134	
90 or more days past due and still accruing	1,215	1,143	
Total retained credit card loans	\$ 141,200	\$ 141,711	
Loan delinquency ratios			
% of 30+ days past due to total retained loans	1.76	% 1.61	%
% of 90+ days past due to total retained loans	0.86	0.81	
Credit card loans by geographic region			
California	\$ 20,839	\$ 20,571	
Texas	13,376	13,220	
New York	12,468	12,249	
Florida	8,589	8,585	
Illinois	8,155	8,189	
New Jersey	6,185	6,271	
Ohio	4,732	4,906	
Pennsylvania	4,612	4,787	
Colorado	3,792	3,699	
Michigan	3,648	3,741	
All other	54,804	55,493	
Total retained credit card loans	\$ 141,200	\$ 141,711	
Percentage of portfolio based on carrying value with estimated refreshed FICO scores			
Equal to or greater than 660	84.1	% 84.4	%
Less than 660	15.0	14.2	
No FICO available	0.9	1.4	

Credit card impaired loans and loan modifications

For a detailed discussion of impaired credit card loans, including credit card loan modifications, see Note 14 of JPMorgan Chase's 2016 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)	September 30, December 31, 2017 2016	
Impaired credit card loans with an allowance ^{(a)(b)}		
Credit card loans with modified payment terms ^(c)	\$ 1,080	\$ 1,098
Modified credit card loans that have reverted to pre-modification payment terms ^(d)	126	142
Total impaired credit card loans ^(e)	\$ 1,206	\$ 1,240
Allowance for loan losses related to impaired credit card loans	\$ 376	\$ 358

(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 September 30, 2017, and December 31, 2016, \$87 million and \$94 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 \$39 million and \$48 million at September 30, 2017, and December 31, 2016, 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.

(in millions)	Three months ended		Nine months ended	
	September 30,		September 30,	
	2017	2016	2017	2016
Average impaired credit card loans	\$1,205	\$1,283	\$1,215	\$1,349
Interest income on impaired credit card loans	15	15	44	48

Loan modifications

The Firm may modify loans to credit card borrowers who are experiencing financial difficulty. Most of these loans have been modified under programs that involve placing the customer on a fixed payment plan with a reduced interest rate, generally for 60 months. All of these credit card loan modifications are considered to be TDRs. New enrollments in these loan modification programs were \$191 million and \$162 million for the three months ended September 30, 2017 and 2016, respectively, and \$552 million and \$462 million for the nine months ended September 30, 2017 and 2016, respectively. For additional information about credit card loan modifications, see Note 14 of JPMorgan Chase's 2016 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 weighted-average data)	Three months ended		Nine months ended	
	September 30,		September 30,	
	2017	2016	2017	2016
Weighted-average interest rate of loans – before TDR	16.8%	15.60%	16.5%	15.56%

Weighted-average interest rate of loans – after TDR	4.95	4.66	4.84	4.76
Loans that redefaulted within one year of modification ^(a)	\$27	\$ 20	\$72	\$ 57

Represents loans modified in TDRs that experienced a payment default in the periods presented, and for which the (a) 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 loans become two payments past due. A substantial portion of these loans is 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 31.23% and 28.87% as of September 30, 2017, and December 31, 2016, respectively.

Wholesale loan portfolio

Wholesale loans include loans made to a variety of customers, 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, see Note 14 and Note 15 of JPMorgan Chase's 2016 Annual Report.

The table below provides information by class of receivable for the retained loans in the Wholesale portfolio segment. Effective in the first quarter of 2017, the Firm revised its methodology for the assignment of industry classifications, to better monitor and manage concentrations. This largely resulted in the re-assignment of holding companies from Other to the industry of risk category based on the primary business activity of the holding company's underlying entities. In the tables below, the prior period amounts have been revised to conform with the current period presentation.

	Commercial and industrial		Real estate		Financial institutions		Government agencies		Other ^(d)
(in millions, except ratios)	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017
Loans by risk ratings									
Investment-grade	\$67,484	\$65,687	\$96,289	\$88,649	\$25,342	\$24,294	\$15,583	\$15,935	\$102,496
Noninvestment-grade:									
Noncriticized	47,344	47,531	14,560	16,155	11,880	11,075	399	439	9,901
Criticized performing	4,594	6,186	695	798	252	200	1	6	279
Criticized nonaccrual	1,080	1,491	159	200	3	9	—	—	228
Total noninvestment-grade	53,018	55,208	15,414	17,153	12,135	11,284	400	445	10,408
Total retained loans	\$120,502	\$120,895	\$111,703	\$105,802	\$37,477	\$35,578	\$15,983	\$16,380	\$112,904
% of total criticized exposure to total retained loans	4.71	%6.35	% 0.76	%0.94	% 0.68	%0.59	%0.01	%0.04	% 0.45
% of criticized nonaccrual to total retained loans	0.90	1.23	0.14	0.19	0.01	0.03	—	—	0.20
Loans by geographic distribution ^(a)									
Total non-U.S.	\$28,090	\$30,563	\$2,803	\$3,302	\$15,366	\$15,147	\$3,365	\$3,726	\$43,879
Total U.S.	92,412	90,332	108,900	102,500	22,111	20,431	12,618	12,654	69,025
Total retained loans	\$120,502	\$120,895	\$111,703	\$105,802	\$37,477	\$35,578	\$15,983	\$16,380	\$112,904
Loan delinquency ^(b)									
Current and less than 30 days past due and still accruing	\$119,192	\$119,050	\$111,440	\$105,396	\$37,396	\$35,523	\$15,919	\$16,269	\$111,822
30–89 days past due and still accruing	93	268	50	204	71	25	62	107	850
90 or more days past due and still accruing ^(c)	137	86	54	2	7	21	2	4	4
Criticized nonaccrual	1,080	1,491	159	200	3	9	—	—	228
Total retained loans	\$120,502	\$120,895	\$111,703	\$105,802	\$37,477	\$35,578	\$15,983	\$16,380	\$112,904

- (a) The U.S. and non-U.S. distribution is determined based predominantly on the domicile of the borrower.
The credit quality of wholesale loans is assessed primarily through ongoing review and monitoring of an obligor's
- (b) ability to meet contractual obligations rather than relying on the past due status, which is generally a lagging indicator of credit quality. For further discussion, see Note 14 of JPMorgan Chase's 2016 Annual Report.
- (c) Represents loans that are considered well-collateralized and therefore still accruing interest.
- (d) Includes loans to: individuals; SPEs; and private education and civic organizations. For more information on SPEs, see Note 16 of JPMorgan Chase's 2016 Annual Report.

The following table presents additional information on the real estate class of loans within the Wholesale portfolio segment for the periods indicated. For further information on real estate loans, see Note 14 of JPMorgan Chase's 2016 Annual Report.

	Multifamily		Other commercial		Total real estate loans		
(in millions, except ratios)	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	
Real estate retained loans	\$76,418	\$72,143	\$35,285	\$33,659	\$111,703	\$105,802	
Criticized exposure	447	539	407	459	854	998	
% of total criticized exposure to total real estate retained loans	0.58	%0.75	% 1.15	% 1.36	% 0.76	%0.94	%
Criticized nonaccrual	\$70	\$57	\$89	\$143	\$159	\$200	
% of criticized nonaccrual loans to total real estate retained loans	0.09	%0.08	% 0.25	%0.42	% 0.14	%0.19	%

Wholesale impaired loans and loan modifications

Wholesale impaired 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 15 of JPMorgan Chase's 2016 Annual Report.

The table below sets forth information about the Firm's wholesale impaired loans.

(in millions)	Commercial and industrial		Real estate		Financial institutions		Government agencies		Other		Total retained loans	
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Impaired loans												
With an allowance	\$891	\$1,127	\$100	\$124	\$95	\$9	\$—	\$—	\$161	\$180	\$1,247	\$1,440
Without an allowance ^(a)	263	414	61	87	—	—	—	—	67	76	391	577
Total impaired loans	\$1,154	\$1,541	\$161	\$211	\$95	\$9	\$—	\$—	\$228	\$256	\$1,638 ^(c)	\$2,017 ^(c)
Allowance for loan losses related to impaired loans	\$292	\$260	\$11	\$18	\$7	\$3	\$—	\$—	\$53	\$61	\$363	\$342
Unpaid principal balance of impaired loans ^(b)	1,428	1,754	234	295	96	12	—	—	205	284	1,963	2,345

When the discounted cash flows, collateral value or market price equals or exceeds the recorded investment in the (a) 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.

Represents the contractual amount of principal owed at September 30, 2017, and December 31, 2016. 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.

The following table presents the Firm's average impaired loans for the periods indicated.

(in millions)	Three months ended		Nine months ended	
	September 30, 2017	September 30, 2016	September 30, 2017	September 30, 2016
Commercial and industrial	\$1,042	\$1,489	\$1,002	\$1,437
Real estate	184	210	168	227
Financial institutions	19	16	9	13
Government agencies	—	—	—	—
Other	200	213	204	197
Total ^(a)	\$1,445	\$1,928	\$1,383	\$1,874

- (a) The related interest income on accruing impaired loans and interest income recognized on a cash basis were not material for the three and nine months ended September 30, 2017 and 2016.

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 \$699 million and \$733 million as of September 30, 2017, and December 31, 2016, respectively.

Note 12 – Allowance for credit losses

For detailed discussion of the allowance for credit losses and the related accounting policies, see Note 15 of JPMorgan Chase's 2016 Annual Report. During the second quarter of 2017, the Firm refined its loss estimates relating to the wholesale portfolio by incorporating the use of internal historical data versus external credit rating agency default statistics to estimate PD. In addition, an adjustment to the modeled loss estimates for wholesale lending-related commitments was incorporated similar to the adjustment applied for wholesale loans. The impacts of these refinements were not material to the allowance for credit losses.

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.

Nine months ended September 30, (in millions)	2017				2016			
	Consumer, excluding credit card	Credit card	Wholesale Total		Consumer, excluding credit card	Credit card	Wholesale Total	
Allowance for loan losses								
Beginning balance at January 1,	\$5,198	\$4,034	\$4,544	\$13,776	5,806	\$3,434	\$4,315	\$13,555
Gross charge-offs	1,479	3,344	154	4,977	1,071	2,803	291	4,165
Gross recoveries	(478)	(295)	(81)	(854)	(448)	(275)	(30)	(753)
Net charge-offs	1,001	3,049	73	4,123	623	2,528	261	3,412
Write-offs of PCI loans ^(a)	66	—	—	66	124	—	—	124
Provision for loan losses	653	3,699	(401)	3,951	578	2,978	628	4,184
Other	(2)	—	3	1	—	—	1	1
Ending balance at September 30,	\$4,782	\$4,684	\$4,073	\$13,539	\$5,637	\$3,884	\$4,683	\$14,204
Allowance for loan losses by impairment methodology								
Asset-specific ^(b)	\$271	\$376	^(d) \$363	\$1,010	\$352	\$363	^(c) \$490	\$1,205
Formula-based	2,266	4,308	3,710	10,284	2,667	3,521	4,193	10,381
PCI	2,245	—	—	2,245	2,618	—	—	2,618
Total allowance for loan losses	\$4,782	\$4,684	\$4,073	\$13,539	\$5,637	\$3,884	\$4,683	\$14,204
Loans by impairment methodology								
Asset-specific	\$8,147	\$1,206	\$1,638	\$10,991	\$9,145	\$1,264	\$2,233	\$12,642
Formula-based	329,445	139,994	396,928	866,367	317,208	132,082	384,213	833,503
PCI	31,821	—	3	31,824	37,045	—	3	37,048
Total retained loans	\$369,413	\$141,200	\$398,569	\$909,182	\$363,398	\$133,346	\$386,449	\$883,193
Impaired collateral-dependent loans								
Net charge-offs	\$47	\$—	\$30	\$77	\$63	\$—	\$7	\$70
	2,198	—	250	2,448	2,371	—	346	2,717

Loans measured at
fair value of collateral
less cost to sell

Allowance for
lending-related
commitments

Beginning balance at January 1,	\$26	\$—	\$1,052	\$1,078	\$14	\$—	\$772	\$786
Provision for lending-related commitments	7	—	24	31	—	—	313	313
Other	—	—	—	—	—	—	1	1
Ending balance at September 30,	\$33	\$—	\$1,076	\$1,109	\$14	\$—	\$1,086	\$1,100

Allowance for
lending-related
commitments by
impairment
methodology

Asset-specific	\$—	\$—	\$220	\$220	\$—	\$—	\$162	\$162
Formula-based	33	—	856	889	14	—	924	938
Total allowance for lending-related commitments	\$33	\$—	\$1,076	\$1,109	\$14	\$—	\$1,086	\$1,100

Lending-related
commitments by
impairment
methodology

Asset-specific	\$—	\$—	\$764	\$764	\$—	\$—	\$503	\$503
Formula-based	55,071	574,641	371,616	1,001,328	59,990	549,634	368,484	978,108
Total lending-related commitments	\$55,071	\$574,641	\$372,380	\$1,002,092	\$59,990	\$549,634	\$368,987	\$978,611

Note: In the first quarter of 2017, the Firm transferred the student loan portfolio to held-for-sale. For additional information see Note 23.

Write-offs of PCI loans are recorded against the allowance for loan losses when actual losses for a pool exceed (a) 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 (e.g., upon liquidation).

(b) 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 is related to loans that have been modified in a TDR; such (c) allowance is calculated based on the loans' original contractual interest rates and does not consider any incremental penalty rates.

Note 13 – Variable interest entities

For a further description of JPMorgan Chase’s accounting policies regarding consolidation of VIEs, see Note 1 of JPMorgan Chase’s 2016 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
CCB	Credit card securitization trusts	Securitization of both originated and purchased credit card receivables	139
	Mortgage securitization trusts	Servicing and securitization of both originated and purchased residential mortgages	139–141
CIB	Mortgage and other securitization trusts	Securitization of both originated and purchased residential and commercial mortgages, and student loans	139–141
	Multi-seller conduits	Assist clients in accessing the financial markets in a cost-efficient manner and structures transactions to meet investor needs	141

The Firm also invests in and provides financing and other services to VIEs sponsored by third parties, as described on page 141 of this Note.

Significant Firm-sponsored VIEs

Credit card securitizations

For a more detailed discussion of JPMorgan Chase’s involvement with credit card securitizations, see Note 16 of JPMorgan Chase’s 2016 Annual Report.

As a result of the Firm’s continuing involvement, the Firm is considered to be the primary beneficiary of its Firm-sponsored credit card securitization trusts, including its primary vehicle, the Chase Issuance Trust. See the table on page 142 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 (including student 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, see Note 16 of JPMorgan Chase’s 2016 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, recourse or guarantee arrangements, and derivative transactions. In certain instances, the Firm's only continuing involvement is servicing the loans. See Securitization activity on page 142 of this Note for further information regarding the Firm's cash flows with and interests retained in nonconsolidated VIEs, and page 143 of this Note for information on the Firm's loan sales to U.S. government agencies.

September 30, 2017 (in millions)	Principal amount outstanding			JPMorgan Chase interest in securitized assets in nonconsolidated VIEs ^{(c)(d)(e)}		
	Total assets held by securitization VIEs	Assets held in consolidated securitization VIEs	Assets held in nonconsolidated securitization VIEs with continuing involvement	Trading assets	AFS securities	Total interests held by JPMorgan Chase
Securitization-related ^(a)						
Residential mortgage:						
Prime/Alt-A and option ARMs	\$69,534	\$ 3,795	\$ 51,666	\$348	\$ 1,021	\$ 1,369
Subprime	19,592	—	18,164	94	—	94
Commercial and other ^(b)	92,078	140	65,043	583	1,309	1,892
Total	\$181,204	\$ 3,935	\$ 134,873	\$1,025	\$ 2,330	\$ 3,355
December 31, 2016 (in millions)	Principal amount outstanding			JPMorgan Chase interest in securitized assets in nonconsolidated VIEs ^{(c)(d)(e)}		
	Total assets held by securitization VIEs	Assets held in consolidated securitization VIEs	Assets held in nonconsolidated securitization VIEs with continuing involvement	Trading assets	AFS securities	Total interests held by JPMorgan Chase
Securitization-related ^(a)						
Residential mortgage:						
Prime/Alt-A and option ARMs	\$76,789	\$ 4,209	\$ 57,543	\$226	\$ 1,334	\$ 1,560
Subprime	21,542	—	19,903	76	—	76
Commercial and other ^(b)	101,265	107	71,464	509	2,064	2,573
Total	\$199,596	\$ 4,316	\$ 148,910	\$811	\$ 3,398	\$ 4,209

(a) Excludes U.S. government agency securitizations and re-securitizations, which are not Firm-sponsored. See page 143 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 (see 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 (See Note 4 for further information on derivatives); senior and subordinated securities of \$198 million and \$23 million, respectively, at September 30, 2017, and \$180 million and \$49 million, respectively, at December 31, 2016, which the Firm purchased in connection with CIB's secondary market-making activities.

(d) Includes interests held in re-securitization transactions.

(e)

As of September 30, 2017, and December 31, 2016, 63% and 61%, respectively, of the Firm's retained securitization interests, which are 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 \$1.3 billion and \$1.5 billion of investment-grade and \$94 million and \$77 million of noninvestment-grade retained interests at September 30, 2017, and December 31, 2016, respectively. The retained interests in commercial and other securitization trusts consisted of \$1.7 billion and \$2.4 billion of investment-grade and \$235 million and \$210 million of noninvestment-grade retained interests at September 30, 2017, and December 31, 2016, 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, see Note 16 of JPMorgan Chase's 2016 Annual Report. See the table on page 142 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, see Note 16 of JPMorgan Chase's 2016 Annual Report. See the table on page 142 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, see Note 16 of JPMorgan Chase's 2016 Annual Report.

The following table represents the transfers of securities to re-securitization VIEs.

	Three months ended		Nine months ended	
	September 30,		September 30,	
(in millions)	2017	2016	2017	2016
Transfers of securities to VIEs				
Firm-sponsored private-label	\$—	\$503	\$—	\$647
Agency	\$1,477	\$1,237	\$6,163	\$7,587

The following table represents information on nonconsolidated re-securitization VIEs.

	Nonconsolidated re-securitization VIEs	
	September 30, 2017	December 31, 2016
(in millions)		
Firm-sponsored private-label		
Assets held in VIEs with continuing involvement ^(a)	\$ 860	\$ 875
Interest in VIEs	26	43
Agency		
Interest in VIEs	1,593	1,986

^(a)Includes the notional amount of interest-only securities.

As of September 30, 2017, and December 31, 2016, the Firm did not consolidate any Firm-sponsored private-label re-securitizations and agency re-securitizations.

Multi-seller conduits

For a more detailed description of JPMorgan Chase's principal involvement with Firm-administered multi-seller conduits, see Note 16 of JPMorgan Chase's 2016 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 \$21.8 billion and \$21.2 billion of the commercial paper issued by the Firm-administered multi-seller conduits at September 30, 2017, and December 31, 2016 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 \$7.3 billion and \$7.4 billion at September 30, 2017, and December 31, 2016, respectively, and are reported as off-balance sheet lending-related commitments. For more information on off-balance sheet lending-related commitments, see Note 19.

VIEs associated with investor intermediation activities

Municipal bond vehicles

For a more detailed description of JPMorgan Chase's investor intermediation activities, see Note 16 of JPMorgan Chase's 2016 Annual Report.

The Firm's maximum exposure as a liquidity provider to nonconsolidated Firm-sponsored municipal bond VIEs at September 30, 2017 and December 31, 2016, was zero and \$662 million, respectively.

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 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.

Consolidated VIE assets and liabilities

The following table presents information on assets and liabilities related to VIEs consolidated by the Firm as of September 30, 2017, and December 31, 2016.

September 30, 2017 (in millions)	Assets			Total assets ^(e)	Liabilities		
	Trading assets	Loans	Other ^(d)		Beneficial interests in VIE assets ^(f)	Other ^(g)	Total liabilities
VIE program type ^(a)							
Firm-sponsored credit card trusts	\$—	\$40,706	\$ 666	\$41,372	\$23,473	\$ 16	\$ 23,489
Firm-administered multi-seller conduits	1	24,504	44	24,549	2,923	25	2,948
Municipal bond vehicles	1,374	—	6	1,380	1,452	2	1,454
Mortgage securitization entities ^(b)	151	3,842	53	4,046	441	260	701
Student loan securitization entities ^(c)	—	—	—	—	—	—	—
Other	69	—	1,929	1,998	135	109	244
Total	\$1,595	\$69,052	\$ 2,698	\$73,345	\$28,424	\$ 412	\$ 28,836

December 31, 2016 (in millions)	Assets			Total assets ^(e)	Liabilities		
	Trading assets	Loans	Other ^(d)		Beneficial interests in VIE assets ^(f)	Other ^(g)	Total liabilities
VIE program type ^(a)							
Firm-sponsored credit card trusts	\$—	\$45,919	\$ 790	\$46,709	\$31,181	\$ 18	\$ 31,199
Firm-administered multi-seller conduits	—	23,760	43	23,803	2,719	33	2,752
Municipal bond vehicles	2,897	—	8	2,905	2,969	2	2,971
Mortgage securitization entities ^(b)	143	4,246	103	4,492	468	313	781
Student loan securitization entities ^(c)	—	1,689	59	1,748	1,527	4	1,531
Other	145	—	2,318	2,463	183	120	303
Total	\$3,185	\$75,614	\$ 3,321	\$82,120	\$39,047	\$ 490	\$ 39,537

(a)Excludes intercompany transactions which are eliminated in consolidation.

(b)Includes residential and commercial mortgage securitizations.

The Firm deconsolidated the student loan securitization entities in the second quarter of 2017 as it no longer had a

(c)controlling financial interest in these entities as a result of the sale of the student loan portfolio. For additional information see Note 23.

(d)Includes assets classified as cash and other assets on the Consolidated balance sheets.

The assets of the consolidated VIEs included in the program types above are used to settle the liabilities of those (e)entities. The difference between total assets and total liabilities recognized for consolidated VIEs represents the Firm's interest in the consolidated VIEs for each program type.

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 VIEs." The holders of these beneficial interests do not have recourse to the general credit of JPMorgan Chase. Included in beneficial interests in VIE (f)assets are long-term beneficial interests of \$24.0 billion and \$33.4 billion at September 30, 2017, and December 31, 2016, respectively. The maturities of the long-term beneficial interests as of September 30, 2017, were as follows:

\$10.7 billion under one year, \$13.0 billion between one and five years, and \$0.3 billion over five years.

(g)Includes liabilities classified as accounts payable and other liabilities on the Consolidated balance sheets.

Loan securitizations

The Firm has securitized and sold a variety of loans, including residential mortgage, credit card, student and commercial (primarily related to real estate) loans. For a further description of the Firm's accounting policies regarding securitizations, see Note 16 of JPMorgan Chase's 2016 Annual Report.

Securitization activity

The following table provides information related to the Firm's securitization activities for the three and nine months ended September 30, 2017 and 2016, related to assets held in Firm-sponsored securitization entities that were not consolidated by the Firm, and where sale accounting was achieved based on the accounting rules in effect at the time of the securitization.

(in millions)	Three months ended September 30,				Nine months ended September 30,			
	2017		2016		2017		2016	
	Residential mortgage	Commercial and other ^(d)	Residential mortgage	Commercial and other ^(c)	Residential mortgage	Commercial and other ^(d)	Residential mortgage	Commercial and other ^(d)
Principal securitized	\$1,017	\$4,411	\$698	\$3,428	\$3,066	\$7,723	\$1,111	\$5,786
All cash flows during the period ^(a) :								
Proceeds from loan sales as securities								
Level 2	\$1,049	\$4,419	\$709	\$3,551	\$3,132	\$7,796	\$1,122	\$5,924
Level 3	4	—	—	—	4	—	—	2
Total proceeds received from loan sales	\$1,053	\$4,419	\$709	\$3,551	\$3,136	\$7,796	\$1,122	\$5,926
Servicing fees collected	128	1	111	1	395	3	334	2
Purchases of previously transferred financial assets (or the underlying collateral) ^(b)	—	—	—	—	1	—	37	—
Cash flows received on interests	125	287	121	535	384	828	326	1,115

(a) Excludes re-securitization transactions.

(b) 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.

(c) Includes prime, Alt-A, subprime, and option ARMs. Excludes certain loan securitization transactions entered into with Ginnie Mae, Fannie Mae and Freddie Mac.

(d) Includes commercial mortgage and student loan securitizations.

Loans and excess MSR 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 MSR on a nonrecourse basis, predominantly to U.S. government-sponsored enterprises ("U.S. GSEs"). These loans and excess MSR 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. See Note 19 of this Form 10-Q, and Note 29 of JPMorgan Chase's 2016 Annual Report for additional information about the Firm's loan sales- and securitization-related indemnifications. See Note 14 for additional information about the impact of the Firm's sale of certain excess MSR. 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.

(in millions)	Three months ended		Nine months ended	
	September 30, 2017	September 30, 2016	September 30, 2017	September 30, 2016
Carrying value of loans sold	\$15,402	\$14,811	\$44,282	\$32,647
Proceeds received from loan sales as cash	104	68	117	306

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Proceeds received from loan sales as securities ^(a)	15,093	14,610	43,682	32,113
Total proceeds received from loan sales ^(b)	\$15,197	\$14,678	\$43,799	\$32,419
Gains on loan sales ^{(c)(d)}	\$41	\$50	\$114	\$164

(a) Predominantly includes securities from U.S. GSEs and Ginnie Mae that are generally sold shortly after receipt.

(b) Excludes the value of MSR retained upon the sale of loans.

(c) Gains on loan sales include the value of MSR.

(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 19, 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 of this Form 10-Q and Note 14 of JPMorgan Chase's 2016 Annual Report.

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 September 30, 2017 and December 31, 2016. Substantially all of these loans and real estate are insured or guaranteed by U.S. government agencies.

	Sept 30, 2017	Dec 31, 2016
(in millions)		
Loans repurchased or option to repurchase ^(a)	\$8,424	\$9,556
Real estate owned	99	142
Foreclosed government-guaranteed residential mortgage loans ^(b)	625	1,007

(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 September 30, 2017, and December 31, 2016.

	Securitized assets		90 days past due		Liquidation losses			
					Three months ended	Nine months ended		
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016	September 30, 2017	September 30, 2017	September 30, 2017	September 30, 2016
(in millions)								
Securitized loans								
Residential mortgage:								
Prime / Alt-A & option ARMs	\$51,666	\$57,543	\$5,039	\$6,169	\$184	\$275	\$622	\$933
Subprime	18,164	19,903	3,435	4,186	153	280	529	898
Commercial and other	65,043	71,464	1,027	1,755	2	78	59	564
Total loans securitized	\$134,873	\$148,910	\$9,501	\$12,110	\$339	\$633	\$1,210	\$2,395

Note 14 – Goodwill and Mortgage servicing rights

For a discussion of the accounting policies related to goodwill and mortgage servicing rights, see Note 17 of JPMorgan Chase's 2016 Annual Report.

Goodwill

The following table presents goodwill attributed to the business segments.

(in millions)	September 30, December 31,	
	2017	2016
Consumer & Community Banking	\$ 30,815	\$ 30,797
Corporate & Investment Bank	6,776	6,772
Commercial Banking	2,860	2,861
Asset & Wealth Management	6,858	6,858
Total goodwill	\$ 47,309	\$ 47,288

The following table presents changes in the carrying amount of goodwill.

(in millions)	Three months ended September 30,		Nine months ended September 30,	
	2017	2016	2017	2016
Balance at beginning of period	\$47,300	\$47,303	\$47,288	\$47,325
Changes during the period from:				
Dispositions ^(a)	—	—	—	(71)
Other ^(b)	9	(1)	21	48
Balance at September 30,	\$47,309	\$47,302	\$47,309	\$47,302

(a) During the nine months ended September 30, 2016, represents AWM goodwill, which was disposed of as part of AWM sales completed in March 2016.

(b) Includes foreign currency translation adjustments and other tax-related adjustments.

Goodwill Impairment testing

For 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, see Impairment testing on pages 240–241 of JPMorgan Chase's 2016 Annual Report.

Goodwill was not impaired at September 30, 2017, or December 31, 2016, nor was goodwill written off due to impairment during the nine months ended September 30, 2017 or 2016.

Declines in business performance, increases in credit losses, increases in equity capital requirements, as well as deterioration in economic or market conditions, estimates of 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, see Note 17 of JPMorgan Chase's 2016 Annual Report and Note 2 of this Form 10-Q.

The following table summarizes MSR activity for the three and nine months ended September 30, 2017 and 2016.

	As of or for the three months ended September 30,		As of or for the nine months ended September 30,	
(in millions, except where otherwise noted)	2017	2016	2017	2016
Fair value at beginning of period	\$5,753	\$5,072	\$6,096	\$6,608
MSR activity:				
Originations of MSRs	253	190	624	410
Purchase of MSRs	—	—	—	—
Disposition of MSRs ^(a)	(2)	(5)	(140)	(72)
Net additions	251	185	484	338
Changes due to collection/realization of expected cash flows	(200)	(233)	(619)	(713)
Changes in valuation due to inputs and assumptions:				
Changes due to market interest rates and other ^(b)	(67)	(35)	(188)	(1,230)
Changes in valuation due to other inputs and assumptions:				
Projected cash flows (e.g., cost to service)	(116)	(21)	(102)	(28)
Discount rates	—	—	(19)	7
Prepayment model changes and other ^(c)	117	(31)	86	(45)
Total changes in valuation due to other inputs and assumptions	1	(52)	(35)	(66)
Total changes in valuation due to inputs and assumptions	(66)	(87)	(223)	(1,296)
Fair value at September 30,	\$5,738	\$4,937	\$5,738	\$4,937
Change in unrealized gains/(losses) included in income related to MSRs held at September 30,	\$(66)	\$(87)	\$(223)	\$(1,296)
Contractual service fees, late fees and other ancillary fees included in income	463	523	1,427	1,629
Third-party mortgage loans serviced at September 30, (in billions)	558	611	558	611
Net servicer advances at September 30, (in billions) ^(d)	3.9	5.0	3.9	5.0

Includes excess MSRs transferred to agency-sponsored trusts in exchange for stripped mortgage backed securities (a) ("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.

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The following table presents the components of mortgage fees and related income (including the impact of MSR risk management activities) for the three and nine months ended September 30, 2017 and 2016.

(in millions)	Three months ended September 30,		Nine months ended September 30,	
	2017	2016	2017	2016
CCB mortgage fees and related income				
Net production revenue	\$158	\$247	\$451	\$670
Net mortgage servicing revenue:				
Operating revenue:				
Loan servicing revenue	493	571	1,533	1,780
Changes in MSR asset fair value due to collection/realization of expected cash flows	(200)	(232)	(617)	(710)
Total operating revenue	293	339	916	1,070
Risk management:				
Changes in MSR asset fair value due to market interest rates and other ^(a)	(67)	(35)	(188)	(1,230)
Other changes in MSR asset fair value due to other inputs and assumptions in model ^(b)	1	(52)	(35)	(66)
Change in derivative fair value and other	43	125	91	1,536
Total risk management	(23)	38	(132)	240
Total net mortgage servicing revenue	270	377	784	1,310
Total CCB mortgage fees and related income	428	624	1,235	1,980
All other	1	—	4	—
Mortgage fees and related income	\$429	\$624	\$1,239	\$1,980

(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.

Represents the aggregate impact of changes in model inputs and assumptions such as projected cash flows (e.g., (b)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).

The table below outlines the key economic assumptions used to determine the fair value of the Firm's MSRs at September 30, 2017, and December 31, 2016, and outlines hypothetical sensitivities of those fair values to immediate adverse changes in those assumptions, as defined below.

(in millions, Dec 31, 2016)
 Weighted-average prepayment assumption ("CPR")
 9.60 % 9.41 %
 Impact on fair value of

10%
adverse
change
Impact
on
fair
value
(424) (445)
of
20%
adverse
change
Weighted-average
option
9.17 % 8.55 %
adjusted
spread
Impact
on
fair
value
of
\$ (239) \$ (248)
100
basis
point
adverse
change
Impact
on
fair
value
of
(460) (477)
200
basis
point
adverse
change
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 could either magnify or counteract the impact of the initial change.

Note 15 – Deposits

For further discussion on deposits, see Note 19 of JPMorgan Chase’s 2016 Annual Report.

At September 30, 2017, and December 31, 2016, noninterest-bearing and interest-bearing deposits were as follows.

(in millions)	September 30, 2017	December 31, 2016
U.S. offices		
Noninterest-bearing	\$ 390,863	\$ 400,831
Interest-bearing (included \$14,601 and \$12,245 at fair value) ^(a)	783,233	737,949
Total deposits in U.S. offices	1,174,096	1,138,780
Non-U.S. offices		
Noninterest-bearing	17,907	14,764
Interest-bearing (included \$6,556 and \$1,667 at fair value) ^(a)	247,024	221,635
Total deposits in non-U.S. offices	264,931	236,399
Total deposits	\$ 1,439,027	\$ 1,375,179

(a) Includes structured notes classified as deposits for which the fair value option has been elected. For further discussion, see Note 3 of JPMorgan Chase’s 2016 Annual Report.

Note 16 – Earnings per share

For a discussion of the computation of basic and diluted earnings per share (“EPS”), see Note 24 of JPMorgan Chase’s 2016 Annual Report. The following table presents the calculation of basic and diluted EPS for the three and nine months ended September 30, 2017 and 2016.

(in millions, except per share amounts)	Three months ended September 30, 2017		Nine months ended September 30, 2016	
Basic earnings per share				
Net income	\$6,732	\$6,286	\$20,209	\$18,006
Less: Preferred stock dividends	412	412	1,235	1,235
Net income applicable to common equity	6,320	5,874	18,974	16,771
Less: Dividends and undistributed earnings allocated to participating securities ^(a)	58	62	188	187
Net income applicable to common stockholders ^(a)	\$6,262	\$5,812	\$18,786	\$16,584
Total weighted-average basic shares outstanding ^(a)	3,534.73	3,637.7	3,570.9	3,674.6
Net income per share	\$1.77	\$1.60	\$5.26	\$4.51
Diluted earnings per share				
Net income applicable to common stockholders ^(a)	\$6,262	\$5,812	\$18,786	\$16,584
Total weighted-average basic shares outstanding ^(a)	3,534.73	3,637.7	3,570.9	3,674.6
Add: Employee stock options, SARs, warrants and unvested PSUs	24.9	32.1	26.1	29.9
Total weighted-average diluted shares outstanding ^(a)	3,559.63	3,669.8	3,597.0	3,704.5
Net income per share	\$1.76	\$1.58	\$5.22	\$4.48

(a) The prior period amounts have been revised to conform with the current period presentation. The revision had no impact on the Firm’s reported earnings per share.

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), 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 September 30, 2017 (in millions)	Unrealized gains/(losses) on investment securities ^(b)	Translation adjustments, net of hedges	Cash flow hedges	Defined benefit pension and OPEB plans	DVA on fair value option elected liabilities	Accumulated other comprehensive income/(loss)
Balance at July 1, 2017	\$ 2,219	\$ (157)	\$ 44	\$(2,255)	\$(243)	\$(392)
Net change	147	—	26	22	(112)	83
Balance at September 30, 2017	\$ 2,366	\$ (157)	\$ 70	\$(2,233)	\$(355)	\$(309)
As of or for the three months ended September 30, 2016 (in millions)	Unrealized gains/(losses) on investment securities ^(b)	Translation adjustments, net of hedges	Cash flow hedges	Defined benefit pension and OPEB plans	DVA on fair value option elected liabilities	Accumulated other comprehensive income/(loss)
Balance at July 1, 2016	\$ 3,921	\$ (161)	\$(201)	\$(2,150)	\$ 209	\$ 1,618
Net change	(160)	4	36	42	(66)	(144)
Balance at September 30, 2016	\$ 3,761	\$ (157)	\$(165)	\$(2,108)	\$ 143	\$ 1,474
As of or for the nine months ended September 30, 2017 (in millions)	Unrealized gains/(losses) on investment securities ^(b)	Translation adjustments, net of 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)	\$(100)	\$(2,259)	\$(176)	\$(1,175)
Net change	842	7	170	26	(179)	866
Balance at September 30, 2017	\$ 2,366	\$ (157)	\$ 70	\$(2,233)	\$(355)	\$(309)
As of or for the nine months ended September 30, 2016 (in millions)	Unrealized gains/(losses) on investment securities ^(b)	Translation adjustments, net of 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, 2016	\$ 2,629	\$ (162)	\$(44)	\$(2,231)	NA	\$ 192
Cumulative effect of change in accounting principle ^(a)	—	—	—	—	154	154
Net change	1,132	5	(121)	123	(11)	1,128
Balance at September 30, 2016	\$ 3,761	\$ (157)	\$(165)	\$(2,108)	\$ 143	\$ 1,474

Effective January 1, 2016, the Firm adopted new accounting guidance related to the recognition and measurement of financial liabilities where the fair value option has been elected. This guidance requires the portion of the total change in fair value caused by changes in the Firm's own credit risk (DVA) to be presented separately in OCI; previously these amounts were recognized in net income.

(a)

(b)

Represents the after-tax difference between the fair value and amortized cost of securities accounted for as AFS, including net unamortized unrealized gains and losses related to AFS securities transferred to HTM.

The following table presents the pre-tax and after-tax changes in the components of OCI.

Three months ended September 30, (in millions)	2017			2016		
	Pre-tax	Tax effect	After-tax	Pre-tax	Tax effect	After-tax
Unrealized gains/(losses) on investment securities:						
Net unrealized gains/(losses) arising during the period	\$232	\$(86)	\$ 146	\$(192)	\$72	\$(120)
Reclassification adjustment for realized (gains)/losses included in net income ^(a)	1	—	1	(64)	24	(40)
Net change	233	(86)	147	(256)	96	(160)
Translation adjustments ^(b) :						
Translation	286	(106)	180	34	(12)	22
Hedges	(286)	106	(180)	(30)	12	(18)
Net change	—	—	—	4	—	4
Cash flow hedges:						
Net unrealized gains/(losses) arising during the period	29	(11)	18	(64)	23	(41)
Reclassification adjustment for realized (gains)/losses included in net income ^(c)	10	(2)	8	122	(45)	77
Net change	39	(13)	26	58	(22)	36
Defined benefit pension and OPEB plans:						
Net gains/(losses) arising during the period	—	—	—	—	—	—
Reclassification adjustments included in net income ^(d) :						
Amortization of net loss	63	(23)	40	65	(24)	41
Prior service costs/(credits)	(9)	3	(6)	(9)	3	(6)
Foreign exchange and other	(19)	7	(12)	12	(5)	7
Net change	35	(13)	22	68	(26)	42
DVA on fair value option elected liabilities, net change:	\$(178)	\$66	\$(112)	\$(106)	\$40	\$(66)
Total other comprehensive income/(loss)	\$129	\$(46)	\$ 83	\$(232)	\$88	\$(144)

Nine months ended September 30, (in millions)	2017			2016		
	Pre-tax	Tax effect	After-tax	Pre-tax	Tax effect	After-tax
Unrealized gains/(losses) on investment securities:						
Net unrealized gains/(losses) arising during the period	\$1,294	\$(476)	\$ 818	\$1,948	\$(731)	\$1,217
Reclassification adjustment for realized (gains)/losses included in net income ^(a)	38	(14)	24	(136)	51	(85)
Net change	1,332	(490)	842	1,812	(680)	1,132
Translation adjustments ^(b) :						
Translation	1,185	(448)	737	613	(228)	385
Hedges	(1,161)	431	(730)	(603)	223	(380)
Net change	24	(17)	7	10	(5)	5
Cash flow hedges:						
Net unrealized gains/(losses) arising during the period	111	(42)	69	(418)	156	(262)
Reclassification adjustment for realized (gains)/losses included in net income ^(c)	160	(59)	101	225	(84)	141
Net change	271	(101)	170	(193)	72	(121)
Defined benefit pension and OPEB plans:						

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Net gains/(losses) arising during the period	(52)	19	(33)	(15)	6	(9)		
Reclassification adjustments included in net income ^(d) :												
Amortization of net loss	187		(69)	118		193		(73)	120	
Prior service costs/(credits)	(27	)	10	(17	)	(27	)	10	(17)	
Settlement (gain)/loss	(3	)	1	(2)	—		—		—	
Foreign exchange and other	(51	)	11	(40	)	46		(17	)	29
Net change	54		(28)	26		197		(74)	123	
DVA on fair value option elected liabilities, net change:	\$(283)	\$104		\$(179)	\$(18)	\$7		\$(11)
Total other comprehensive income/(loss)	\$1,398		\$(532)		\$866		\$1,808		\$(680)		\$1,128	

(a) The pre-tax amount is reported in securities gains/(losses) in the Consolidated statements of income.

Reclassifications of pre-tax realized gains/(losses) on translation adjustments and related hedges are reported in (b) other income/expense in the Consolidated statements of income. The amounts were not material for the periods presented.

(c) The pre-tax amounts are predominantly recorded in net interest income in the Consolidated statements of income.

(d) The pre-tax amount is reported in compensation expense in the Consolidated statements of income.

Note 18 – Regulatory capital

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.

Capital rules under Basel III establish minimum capital ratios and overall capital adequacy standards for large and internationally active U.S. bank holding companies and banks, including the Firm and its IDI subsidiaries. Basel III sets forth two comprehensive approaches for calculating RWA: a standardized approach (“Basel III Standardized”), and an advanced approach (“Basel III Advanced”). Certain of the requirements of Basel III are subject to phase-in periods that began on January 1, 2014 and continue through the end of 2018 (“transitional period”).

The three categories of risk-based capital and their predominant components under the Basel III Transitional rules are illustrated below:

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 Transitional and Basel III Advanced Transitional approaches at September 30, 2017, and December 31, 2016.

JPMorgan Chase & Co.				
	Basel III Standardized Transitional		Basel III Advanced Transitional	
(in millions, except ratios)	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Regulatory capital				
CET1 capital	\$187,061	\$182,967	\$187,061	\$182,967
Tier 1 capital ^(a)	212,297	208,112	212,297	208,112
Total capital	242,949	239,553	232,794	228,592
Assets				
Risk-weighted	1,482,267	1,464,981	1,443,019	1,476,915
Adjusted average ^(b)	2,521,889	2,484,631	2,521,889	2,484,631
Capital ratios ^(c)				
CET1	12.6	% 12.5	% 13.0	% 12.4
Tier 1 ^(a)	14.3	14.2	14.7	14.1
Total	16.4	16.4	16.1	15.5
Tier 1 leverage ^(d)	8.4	8.4	8.4	8.4

JPMorgan Chase Bank, N.A.				
	Basel III Standardized Transitional		Basel III Advanced Transitional	
(in millions, except ratios)	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Regulatory capital				
CET1 capital	\$186,440	\$179,319	\$186,440	\$179,319
Tier 1 capital ^(a)	186,440	179,341	186,440	179,341
Total capital	197,962	191,662	191,503	184,637

Assets				
Risk-weighted	1,312,292	1,293,203	1,240,585	1,262,613

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Adjusted average ^(b)	2,123,214	2,088,851	2,123,214	2,088,851
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Capital ratios^(c)

CET1	14.2	%	13.9	%	15.0	%	14.2	%
Tier 1 ^(a)	14.2		13.9		15.0		14.2	
Total	15.1		14.8		15.4		14.6	
Tier 1 leverage ^(d)	8.8		8.6		8.8		8.6	

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Chase Bank USA, N.A.				
(in millions, except ratios)	Basel III Standardized Transitional		Basel III Advanced Transitional	
	Sep 30, 2017	Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
Regulatory capital				
CET1 capital	\$20,114	\$16,784	\$20,114	\$16,784
Tier 1 capital ^(a)	20,114	16,784	20,114	16,784
Total capital	26,152	22,862	24,764	21,434

Assets				
Risk-weighted	108,901	112,297	192,734	186,378
Adjusted average ^(b)	124,082	120,304	124,082	120,304

Capital ratios ^(c)						
CET1	18.5	%	14.9	%	10.4	% 9.0 %
Tier 1 ^(a)	18.5		14.9		10.4	9.0
Total	24.0		20.4		12.8	11.5
Tier 1 leverage ^(d)	16.2		14.0		16.2	14.0

Includes the deduction associated with the permissible holdings of covered funds (as defined by the Volcker Rule)

(a) acquired after December 31, 2013. The deduction was not material as of September 30, 2017 and December 31, 2016.

Adjusted average assets, for purposes of calculating the Tier 1 leverage ratio, includes total quarterly average assets

(b) adjusted for unrealized gains/(losses) on AFS securities, less deductions for goodwill and other intangible assets, defined benefit pension plan assets, and deferred tax assets related to NOL and tax credit carryforwards.

For each of the risk-based capital ratios, the capital adequacy of the Firm and its IDI subsidiaries is evaluated

(c) 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").

(d) The Tier 1 leverage ratio is not a risk-based measure of capital. This ratio is calculated by dividing Tier 1 capital by adjusted average assets.

Under the risk-based capital guidelines of the Federal Reserve, JPMorgan Chase is required to maintain minimum ratios of CET1, Tier 1 and Total capital to RWA, as well as a minimum leverage ratio (which is defined as Tier 1 capital divided by adjusted quarterly average assets). Failure to meet these minimum requirements could cause the Federal Reserve to take action. IDI subsidiaries also are subject to these capital requirements by their respective primary regulators. The following table presents the minimum ratios to which the Firm and its IDI subsidiaries are subject as of September 30, 2017.

Capital ratios	Minimum capital ratios		Well-capitalized ratios	
	BHC ^{(a)(e)}	IDI ^{(b)(e)}	BHC ^(c)	IDI ^(d)
CET1	7.50	%5.75	% —	%6.50 %
Tier 1	9.00	7.25	6.00	8.00
Total	11.00	9.25	10.00	10.00
Tier 1 leverage	4.00	4.00	—	5.00

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 September 30, 2017. At September 30, 2017, the CET1 minimum capital ratio includes 1.25% resulting from the phase in of the Firm's 2.5% capital conservation buffer and 1.75%, resulting from the phase in of the Firm's 3.5% GSIB surcharge.

- Represents requirements for JPMorgan Chase's IDI subsidiaries. The CET1 minimum capital ratio includes 1.25% (b) 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.
- For the period ended December 31, 2016 the CET1, Tier 1, Total and Tier 1 leverage minimum capital ratios applicable to the Firm were 6.25%, 7.75%, 9.75% and 4.0% and the CET1, Tier 1, Total and Tier 1 leverage (e) minimum capital ratios applicable to the Firm's IDI subsidiaries were 5.125%, 6.625%, 8.625% and 4.0% respectively.

As of September 30, 2017, and December 31, 2016, JPMorgan Chase and all of its IDI subsidiaries were well-capitalized and met all capital requirements to which each was subject.

Note 19 – Off-balance sheet lending-related financial instruments, guarantees, and other commitments

JPMorgan Chase provides lending-related financial instruments (e.g., commitments and guarantees) to meet the financing needs of its customers. The contractual amount of these financial instruments represents the maximum possible credit risk to the Firm should the counterparty draw upon the commitment or the Firm be required to fulfill its obligation under the guarantee, and should the counterparty 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 upon 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 further discussion of lending-related commitments and guarantees, and the Firm's related accounting policies, see Note 29 of JPMorgan Chase's 2016 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. See 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 September 30, 2017, and December 31, 2016. 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 has been a demonstrable decline in the creditworthiness of the borrower.

Off-balance sheet lending-related financial instruments, guarantees and other commitments

By remaining maturity (in millions)	Contractual amount					Carrying value ^(h)		
	September 30, 2017					Dec 31, 2016	Sep 30, 2017	Dec 31, 2016
	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		
Lending-related								
Consumer, excluding credit card:								
Home equity	\$3,052	\$1,519	\$1,311	\$14,593	\$20,475	\$21,714	\$12	\$12
Residential mortgage ^{(a)(b)}	11,152	—	—	11	11,163	11,882	—	—
Auto	8,604	951	333	82	9,970	8,468	2	2
Consumer & Business Banking ^(b)	11,911	899	113	540	13,463	12,733	19	12
Total consumer, excluding credit card	34,719	3,369	1,757	15,226	55,071	54,797	33	26
Credit card	574,641	—	—	—	574,641	553,891	—	—
Total consumer ^(c)	609,360	3,369	1,757	15,226	629,712	608,688	33	26
Wholesale:								
Other unfunded commitments to extend credit ^(d)	73,709	117,020	132,228	10,633	333,590	328,497	881	905
Standby letters of credit and other financial guarantees ^(d)	16,698	8,317	7,945	2,179	35,139	35,947	575	586
Other letters of credit ^(d)	3,330	206	114	1	3,651	3,570	4	2
Total wholesale ^(e)	93,737	125,543	140,287	12,813	372,380	368,014	1,460	1,493
Total lending-related	\$703,097	\$128,912	\$142,044	\$28,039	\$1,002,092	\$976,702	\$1,493	\$1,519
Other guarantees and commitments								
Securities lending indemnification agreements and guarantees ^(f)	\$177,835	\$—	\$—	\$—	\$177,835	\$137,209	\$—	\$—
Derivatives qualifying as guarantees	3,002	268	10,494	39,918	53,682	51,966	382	80
Unsettled reverse repurchase and securities borrowing agreements	89,327	—	—	—	89,327	50,722	—	—
Unsettled repurchase and securities lending agreements	84,687	—	—	—	84,687	26,948	—	—
Loan sale and securitization-related indemnifications:								
Mortgage repurchase liability	NA	NA	NA	NA	NA	NA	124	133
Loans sold with recourse	NA	NA	NA	NA	1,708	2,730	41	64
Other guarantees and commitments ^(g)	1,801	2,058	130	1,452	5,441	5,715	(90)	(118)

(a) Includes certain commitments to purchase loans from correspondents.

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

(c) Predominantly all consumer lending-related commitments are in the U.S.

At September 30, 2017, and December 31, 2016, reflected the contractual amount net of risk participations totaling \$375 million and \$328 million, respectively, for other unfunded commitments to extend credit; \$10.5 billion and

(d) \$11.1 billion, respectively, for standby letters of credit and other financial guarantees; and \$372 million and \$265 million, respectively, for other letters of credit. In regulatory filings with the Federal Reserve these commitments are shown gross of risk participations.

(e)

At September 30, 2017, and December 31, 2016, the U.S. portion of the contractual amount of total wholesale lending-related commitments was 78% and 79%, respectively.

(f) At September 30, 2017, and December 31, 2016, collateral held by the Firm in support of securities lending indemnification agreements was \$187.0 billion and \$143.2 billion, respectively. Securities lending collateral primarily consists of cash and securities issued by governments that are members of the Organisation for Economic Co-operation and Development and U.S. government agencies.

(g) Included unfunded commitments of \$41 million and \$48 million at September 30, 2017, and December 31, 2016, respectively to third-party private equity funds; and \$830 million and \$1.0 billion, at September 30, 2017, and December 31, 2016, respectively, to other equity investments. These commitments included \$29 million and \$34 million, respectively, related to investments that are generally fair valued at net asset value as discussed in Note 2.

In addition, included letters of credit hedged by derivative transactions and managed on a market risk basis of \$4.5 billion and \$4.6 billion at September 30, 2017, and December 31, 2016, respectively.

(h) 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 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 extends 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 September 30, 2017, and December 31, 2016, the maximum outstanding commitment under the secured clearance advance facility was \$1.6 billion and \$2.4 billion, respectively.

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 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 September 30, 2017, and December 31, 2016.

Standby letters of credit, other financial guarantees and other letters of credit

(in millions)	September 30, 2017		December 31, 2016	
	Standby letters of credit and other financial guarantees	Other letters of credit	Standby letters of credit and other financial guarantees	Other letters of credit
Investment-grade ^(a)	\$28,160	\$2,646	\$28,245	\$2,781
Noninvestment-grade ^(a)	6,979	1,005	7,702	789
Total contractual amount	\$35,139	\$3,651	\$35,947	\$3,570
Allowance for lending-related commitments	\$191	\$4	\$145	\$2
Guarantee liability	384	—	441	—
Total carrying value	\$575	\$4	\$586	\$2

Commitments with collateral \$17,956 \$889 \$19,346 \$940

^(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, see Note 29 of JPMorgan Chase's 2016 Annual Report.

The following table summarizes the derivatives qualifying as guarantees as of September 30, 2017, and December 31, 2016.

(in millions)	September 30, 2017	December 31, 2016
Total notional value of derivatives ^(a)	53,682	51,966

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Notional amount of stable value contracts ^(b)	28,995	28,665
Maximum exposure to loss on stable value contracts	3,042	3,012

Fair value^(c)

Derivative payables	382	96
Derivative receivables	—	16

(a) The notional amount generally represents the Firm's maximum exposure to derivatives qualifying as guarantees.

(b) Exposure to certain stable value contracts is contractually limited to a substantially lower percentage of the notional amount.

(c) The fair value of the contracts reflect the probability, in the Firm's view, of whether the Firm will be required to perform under the contract.

The Firm reduces exposures to these contracts by entering into offsetting transactions, or by entering into contracts that hedge the market risk related to the derivative guarantees.

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, see 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 the mortgage loans and/or indemnify the loan purchaser if such representations and warranties are breached by the Firm. In addition, 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, see Note 29 of JPMorgan Chase's 2016 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, see Note 21 of this Form 10-Q and Note 31 of JPMorgan Chase's 2016 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 20 – Pledged assets and collateral

For a discussion of the Firm's pledged assets and collateral, see Note 30 of JPMorgan Chase's 2016 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 identified as financial instruments owned (pledged to various parties) on the Consolidated balance sheets.

The following table presents the Firm's pledged assets.

	September 30, 2017	December 31, 2016
(in billions)		

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Assets that may be sold or repledged or otherwise used by secured parties	\$ 143.1	\$ 133.6
Assets that may not be sold or repledged or otherwise used by secured parties	75.4	53.5
Assets pledged at Federal Reserve banks and FHLBs	487.8	441.9
Total assets pledged	\$ 706.3	\$ 629.0

Total assets pledged do not include assets of consolidated VIEs; these assets are used to settle the liabilities of those entities. See Note 13 for additional information on assets and liabilities of consolidated VIEs. For additional information on the Firm's securities financing activities, see Note 10. For additional information on the Firm's long-term debt, see Note 21 of JPMorgan Chase's 2016 Annual Report.

Collateral

The Firm had accepted financial assets as collateral that it could sell or repledge, deliver or otherwise use. This collateral was generally obtained under resale agreements, securities borrowing agreements, customer margin loans and derivative agreements. Collateral was 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)	September 30, 2017	December 31, 2016
Collateral that could be sold or repledged, delivered, or otherwise used	\$ 957.2	\$ 914.1
Collateral sold, repledged, delivered or otherwise used	785.0	746.6

Note 21 – Litigation Contingencies

As of September 30, 2017, 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 \$1.8 billion at September 30, 2017. 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 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.

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. FX-related investigations and inquiries by government authorities, including competition authorities, are ongoing, and the Firm is cooperating with 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. The Department of Labor granted the Firm a temporary one-year waiver of disqualification, effective upon entry of judgment, 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"). The Firm's application for a lengthier exemption is pending. 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 has initiated civil proceedings.

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, and that agreement has been preliminarily approved by the Court. The District Court has dismissed one of the ERISA actions, and the plaintiffs have filed an appeal. The consumer action, a second ERISA action and the indirect purchaser 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. The parties have agreed to engage in mediation concerning the value of the remaining additional collateral in light of the Bankruptcy Court’s ruling regarding the representative assets, as well as other issues. 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 cross-claims are also expected to be addressed at the mediation.

Hopper Estate Litigation. The Firm is a defendant in an action in connection with its role as an independent administrator of an estate. The plaintiffs sought in excess of

\$7 million in compensatory damages, primarily relating to attorneys’ fees incurred by the plaintiffs. After a trial in probate court in Dallas, Texas that ended in September 2017, the jury returned a verdict against the Firm, awarding plaintiffs their full compensatory damages and multiple billions in punitive damages. Notwithstanding the jury verdict, in light of legal limitations on the availability of damages, certain of the plaintiffs moved for entry of judgment in the total amount of approximately \$71 million, including punitive damages, while another plaintiff has not yet moved for judgment. The court has not yet entered a judgment in this matter. The parties are engaged in post-trial briefing.

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 entered into an agreement to settle the cases for a cash payment of \$6.1 billion to the class plaintiffs (of which the Firm’s share is approximately 20%) and an amount equal to ten basis points of credit card interchange for a period of eight months to be measured from a date within 60 days of the end of the opt-out period. The agreement also provided for modifications to each credit card network’s rules, including those that prohibit surcharging credit card transactions. In December 2013, the District Court granted final approval of the settlement.

A number of merchants appealed 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. Both the plaintiffs and the defendants filed petitions seeking review by the U.S. Supreme Court of the Second Circuit’s decision, and those petitions were denied in March 2017. The case has been remanded to the District Court for further proceedings consistent with the appellate decision.

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. Department of Justice (“DOJ”), the U.S. Commodity Futures Trading Commission (“CFTC”), the U.S. Securities and Exchange Commission (“SEC”) and various state attorneys general, as well as the European Commission (“EC”), the U.K. Financial Conduct Authority (“FCA”), the Canadian Competition Bureau, 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 ongoing investigations, and is currently engaged in discussions with the CFTC about resolving its U.S. dollar ISDAFIX-related investigation with

respect to the Firm. There is no assurance that such discussions will result in a settlement. 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 with the European General Court. In June 2016, the DOJ informed the Firm that the DOJ had closed its inquiry into LIBOR and other benchmark rates with respect to the Firm without taking action. Certain other inquiries have been discontinued without any action against JPMorgan Chase, including by the SEC, FCA and the Canadian Competition Bureau.

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 the U.S. dollar LIBOR, Yen LIBOR, Swiss franc LIBOR, Euroyen TIBOR, EURIBOR, Singapore Interbank Offered Rate (“SIBOR”), Singapore Swap Offer Rate (“SOR”) and/or the Bank Bill Swap Reference Rate (“BBSW”) 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 U.S. dollar LIBOR, Yen LIBOR, Swiss franc LIBOR, Euroyen TIBOR, EURIBOR, SIBOR, SOR or BBSW 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 the putative class actions related to Yen LIBOR, Euroyen TIBOR and Swiss franc LIBOR. Those settlements are subject to approval by the Court.

In the EURIBOR action, 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 the U.S. dollar LIBOR-related actions, 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 May 2017, plaintiffs in three putative class actions moved in the District Court for class certification, and the Firm and other defendants have opposed that motion.

In the action related to SIBOR and SOR, 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. Plaintiffs primarily assert claims under the federal antitrust laws and Commodity Exchange Act. In April 2016, the Firm settled the ISDAFIX litigation, along with certain other banks. Those settlements have been preliminarily approved by the Court.

Madoff Litigation. Investors in the Ponzi scheme perpetrated by Bernard L. Madoff Investment Securities LLC (“Madoff”) who were “net winners” (i.e., Madoff customers who took more money out of their accounts than they invested) filed

a lawsuit in the United States District Court for the Middle District of Florida against the Firm and affiliates alleging violations of federal securities law and state law, including claims that the Firm aided and abetted Madoff’s fraud. The District Court granted the Firm’s motion to dismiss the federal claims and declined to exercise jurisdiction over the state law claims. The United States Court of Appeals for the Eleventh Circuit affirmed the dismissal of the federal claims, and the United States Supreme Court denied plaintiffs’ petition for writ of certiorari. The same plaintiffs have re-filed their state claims in Florida state court. In October 2017, the Firm filed a motion to dismiss the Florida state court action.

Mortgage-Backed Securities and Repurchase Litigation and Related Regulatory Investigations. The Firm and affiliates (together, “JPMC”), Bear Stearns and affiliates (together, “Bear Stearns”) and certain Washington Mutual affiliates (together, “Washington Mutual”) have been named as defendants in a number of cases in their various roles in offerings of MBS. The remaining civil cases include one investor action and actions for repurchase of mortgage loans. The Firm and certain of its current and former officers and Board members have also been sued in a shareholder derivative action relating to the Firm’s MBS activities, which remains pending.

Issuer Litigation – Individual Purchaser Actions. With the exception of one remaining action, the Firm has resolved all of the individual actions brought against JPMC, Bear Stearns and Washington Mutual as MBS issuers (and, in some cases, also as underwriters of their own MBS offerings).

Repurchase Litigation. The Firm is defending a few actions brought by trustees, securities administrators and/or master servicers of various MBS trusts on behalf of purchasers of securities issued by those trusts. These cases

generally allege breaches of various representations and warranties regarding securitized loans and seek repurchase of those loans or equivalent monetary relief, as well as indemnification of attorneys' fees and costs and other remedies. These repurchase actions, each specific to one or more MBS transactions issued by JPMC, are in various stages of litigation.

In addition, the Firm and a group of 21 institutional MBS investors made a binding offer to the trustees of MBS issued by JPMC and Bear Stearns providing for the payment of \$4.5 billion and the implementation of certain servicing changes by JPMC, to resolve all repurchase and servicing claims that have been asserted or could have been asserted with respect to 330 MBS trusts created between 2005 and 2008. The offer does not resolve claims relating to Washington Mutual MBS. The trustees (or separate and successor trustees) for this group of 330 trusts have accepted the settlement for 319 trusts in whole or in part and excluded from the settlement 16 trusts in whole or in part. The trustees' acceptance has received final approval from the court and the trustees have secured the necessary rulings from the Internal Revenue Service triggering their obligation to allocate the settlement funds among the

settling trusts. The trustees are currently in the process of determining allocation amounts for each trust. The Firm expects to make payments pursuant to this settlement by January 2018.

Additional actions have been filed against third-party trustees that relate to loan repurchase and servicing claims involving trusts sponsored by JPMC, Bear Stearns and Washington Mutual.

In actions against the Firm involving offerings of MBS issued by the Firm, the Firm has contractual rights to indemnification from sellers of mortgage loans that were securitized in such offerings. However, certain of those indemnity rights may prove effectively unenforceable in various situations, such as where the loan sellers are now defunct.

The Firm has entered into agreements with a number of MBS trustees or entities that purchased MBS that toll applicable statute of limitations periods with respect to their claims, and has settled, and in the future may settle, tolled claims. There is no assurance that the Firm will not be named as a defendant in additional MBS-related litigation.

Derivative Action. A shareholder derivative action against the Firm, as nominal defendant, and certain of its current and former officers and members of its Board of Directors relating to the Firm's MBS activities is pending in California federal court. In June 2017, the court granted defendants' motion to dismiss the cause of action that alleged material misrepresentations and omissions in the Firm's proxy statement, found that the court did not have personal jurisdiction over the individual defendants with respect to the remaining causes of action, and transferred that remaining portion of the case to the United States District Court for the Southern District of New York without ruling on the merits.

Government Enforcement Investigations and Litigation. The Firm is responding to an ongoing investigation being conducted by the DOJ's Criminal Division and two United States Attorney's Offices relating to MBS offerings securitized and sold by the Firm and its subsidiaries.

Mortgage-Related Investigations and Litigation. In January 2017, a Consent Order was entered by the United States District Court for the Southern District of New York resolving allegations by the Civil Division of the United States Attorney's Office for the Southern District of New York that the Firm violated the Fair Housing Act and Equal Credit Opportunity Act by giving pricing discretion to independent mortgage brokers in its wholesale lending origination channel which, according to the government's model, may have charged higher fees and interest rates to African-American and Hispanic borrowers than non-Hispanic White borrowers during the period between 2006 and 2009. The Firm denied liability, but agreed to pay a total of approximately \$55 million to resolve this matter. In addition, three municipalities have commenced litigation against the Firm alleging violations of an unfair competition law or the Fair Housing Act. The municipalities seek, among

other things, civil penalties for the unfair competition claim, and, for the Fair Housing Act claims, damages resulting from lost tax revenue and increased municipal costs associated with foreclosed properties. Two of the municipal actions were stayed pending an appeal to the United States Supreme Court. In May 2017, the Supreme Court held that the City of Miami has standing to bring claims under the Fair Housing Act, and remanded the case to the lower court to determine whether the City sufficiently alleged that the defendant's conduct proximately caused the alleged damages. In the two stayed municipal actions against the Firm, one remains stayed pending the resolution of the City of Miami case on remand, and in the other, the municipality has moved to reopen the case, which the Firm has opposed. The third municipal action against the Firm was stayed pending an appeal by the City of Los Angeles to the United States Court of Appeals for the Ninth Circuit in a related action. In May 2017, the Court of Appeals affirmed judgments against the City of Los Angeles and in favor of the defendants, and following that decision, the court has lifted the stay in the action against the Firm.

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 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 in principle to settle the litigation brought by the Petters bankruptcy trustees, or their successors, and the receiver for Thomas J. Petters. The settlement is subject to final documentation and Court approval.

Proprietary Products Investigations and Litigation. In December 2015, JPMorgan Chase Bank, N.A. and J.P. Morgan Securities LLC agreed to a settlement with the SEC, and JPMorgan Chase Bank, N.A. agreed to a settlement with the CFTC, regarding disclosures to clients concerning conflicts associated with the Firm's sale and use of proprietary products, such as J.P. Morgan mutual funds, in the Firm's CCB and AWM wealth management businesses, and the U.S. Private Bank's disclosures concerning the use of hedge funds that pay placement agent fees to JPMorgan Chase broker-dealer affiliates. The Firm settled with an additional government authority in July 2016, and continues to cooperate with inquiries from other government authorities concerning disclosure of conflicts associated with the Firm's sale and use of proprietary products. A putative class action, which was filed in the United States District Court for the Northern District of Illinois on behalf of financial advisory clients from 2007 to the present whose funds were invested in proprietary funds and who were charged investment management fees, was dismissed by the Court. The dismissal was affirmed on appeal, and the United States Supreme Court has denied plaintiffs' petition for writ of certiorari.

Referral Hiring Practices Investigations. In November 2016, the Firm entered into settlements with DOJ, the SEC and the Board of Governors of the Federal Reserve System (the "Federal Reserve") to resolve those agencies' respective investigations relating to a former hiring program for candidates referred by clients, potential clients and government officials in the Asia Pacific region. Other related investigations are ongoing, and the Firm continues to cooperate with these investigations.

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, which have been referred back to and remain pending before the Paris Court of Appeal. In addition, civil proceedings have been commenced against JPMorgan Chase Bank, N.A. by a number of the managers. 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 was a benefit of \$(107) million and \$(71) million for the three months ended September 30, 2017 and 2016, respectively, and an expense of \$172 million and a benefit of \$(547) million for the nine months ended September 30, 2017 and 2016, 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, after consultation with counsel and after taking into account its current litigation reserves, that the 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 22 – 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, see Segment results below, and Note 33 of JPMorgan Chase's 2016 Annual Report.

Segment results

The following table provides a summary of the Firm's segment results as of or for the three and nine months ended September 30, 2017 and 2016, 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 a 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.

Effective January 1, 2017, the Firm's methodology used to allocate capital to the business segments was updated. Under the new methodology, capital is no longer allocated to each line of business for goodwill and other intangibles associated with acquisitions effected by the line of business. In addition, the new methodology incorporates Basel III Standardized Fully Phased-In RWA (as well as Basel III Advanced Fully Phased-In RWA), leverage, the global systemically important banks ("GSIB") surcharge, and a simulation of capital in a severe stress environment. The methodology will continue to be weighted towards Basel III Advanced Fully Phased-In RWA because the Firm believes it to be the best proxy for economic risk.

Segment results and reconciliation^(a)

As of or for the three months ended September 30, (in millions, except ratios)	Consumer & Community Banking		Corporate & Investment Bank		Commercial Banking		Asset & Wealth Management	
	2017	2016	2017	2016	2017	2016	2017	2016
Noninterest revenue	\$3,898	\$3,868	\$6,094	\$6,690	\$592	\$578	\$2,390	\$2,277
Net interest income	8,135	7,460	2,496	2,765	1,554	1,292	855	770
Total net revenue	12,033	11,328	8,590	9,455	2,146	1,870	3,245	3,047
Provision for credit losses	1,517	1,294	(26)	67	(47)	(121)	8	32
Noninterest expense	6,495	6,510	4,768	4,934	800	746	2,181	2,130
Income before income tax expense	4,021	3,524	3,848	4,454	1,393	1,245	1,056	885
Income tax expense	1,468	1,320	1,302	1,542	512	467	382	328
Net income	\$2,553	\$2,204	\$2,546	\$2,912	\$881	\$778	\$674	\$557
Average equity	\$51,000	\$51,000	\$70,000	\$64,000	\$20,000	\$16,000	\$9,000	\$9,000
Total assets	537,459	521,276	851,808	825,933	220,064	212,189	149,170	137,295
Return on equity	19	% 16	% 13	% 17	% 17	% 18	% 29	% 24
Overhead ratio	54	57	56	52	37	40	67	70
As of or for the three months ended September 30, (in millions, except ratios)	Corporate		Reconciling Items ^(a)		Total			
	2017	2016	2017	2016	2017	2016		
Noninterest revenue	\$109	\$197	\$(555)	\$(540)	\$12,528	\$13,070		
Net interest income	77	(385)	(319)	\$(299)	12,798	11,603		
Total net revenue	186	(188)	(874)	\$(839)	25,326	24,673		
Provision for credit losses	—	(1)	—	—	1,452	1,271		

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Noninterest expense	74	143	—	—	14,318	14,463
Income/(loss) before income tax expense/(benefit)	112	(330)	(874)	(839)	9,556	8,939
Income tax expense/(benefit)	34	(165)	(874)	(839)	2,824	2,653
Net income/(loss)	\$78	\$(165)	\$—	\$—	\$6,732	\$6,286
Average equity	\$81,861	\$86,089	\$—	\$—	\$231,861	\$226,089
Total assets	804,573	824,336	NA	NA	2,563,074	2,521,029
Return on equity	NM	NM	NM	NM	11	% 10 %
Overhead ratio	NM	NM	NM	NM	57	59

Segment managed results reflect revenue on a FTE basis with the corresponding income tax impact recorded within (a) 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 nine months ended September 30, (in millions, except ratios)	Consumer & Community Banking		Corporate & Investment Bank		Commercial Banking		Asset & Wealth Management	
	2017	2016	2017	2016	2017	2016	2017	2016
Noninterest revenue	\$10,899	\$11,812	\$19,474	\$18,699	\$1,774	\$1,720	\$7,024	\$6,714
Net interest income	23,516	22,084	7,541	8,056	4,478	3,770	2,520	2,244
Total net revenue	34,415	33,896	27,015	26,755	6,252	5,490	9,544	8,958
Provision for credit losses	4,341	3,545	(175)	761	(214)	158	30	37
Noninterest expense	19,390	18,602	14,730	14,820	2,415	2,190	6,953	6,303
Income before income tax expense	10,684	11,749	12,460	11,174	4,051	3,142	2,561	2,618
Income tax expense	3,920	4,399	3,963	3,790	1,469	1,172	878	953
Net income	\$6,764	\$7,350	\$8,497	\$7,384	\$2,582	\$1,970	\$1,683	\$1,665
Average equity	\$51,000	\$51,000	\$70,000	\$64,000	\$20,000	\$16,000	\$9,000	\$9,000
Total assets	537,459	521,276	851,808	825,933	220,064	212,189	149,170	137,295
Return on equity	17	% 18	% 15	% 14	% 16	% 15	% 24	% 24
Overhead ratio	56	55	55	55	39	40	73	70
As of or for the nine months ended September 30, (in millions, except ratios)	Corporate		Reconciling Items ^(a)		Total			
	2017	2016	2017	2016	2017	2016		
Noninterest revenue	\$963	\$637	\$(1,733)	\$(1,620)	\$38,401	\$37,962		
Net interest income	2	(927)	(987)	(897)	37,070	34,330		
Total net revenue	965	(290)	(2,720)	(2,517)	75,471	72,292		
Provision for credit losses	—	(4)	—	—	3,982	4,497		
Noninterest expense	355	23	—	—	43,843	41,938		
Income/(loss) before income tax expense/(benefit)	610	(309)	(2,720)	(2,517)	27,646	25,857		
Income tax expense/(benefit)	(73)	54	(2,720)	(2,517)	7,437	7,851		
Net income/(loss)	\$683	\$(363)	\$—	\$—	\$20,209	\$18,006		
Average equity	\$79,937	\$84,034	\$—	\$—	\$229,937	\$224,034		
Total assets	804,573	824,336	NA	NA	2,563,074	2,521,029		
Return on equity	NM	NM	NM	NM	11	% 10		
Overhead ratio	NM	NM	NM	NM	58	58		

Segment managed results reflect revenue on a FTE basis with the corresponding income tax impact recorded within (a) income tax expense/(benefit). These FTE adjustments are eliminated in reconciling items to arrive at the Firm's reported U.S. GAAP results.

Note 23 – Business changes and developments

Student loan portfolio transfer and sale

The Firm transferred the student loan portfolio to held-for-sale in the first quarter of 2017. The transfer resulted in a write-down of the portfolio to the estimated fair value at the time of the transfer. This write-down was recognized predominantly as a \$467 million charge-off, resulting in a \$218 million increase in the provision for credit losses after utilization of the allowance for loan losses of \$249 million in the first quarter of 2017. The Firm sold substantially all of the portfolio in the second quarter of 2017, and such sale did not have a material impact on the Firm's Consolidated Financial Statements.

Preferred stock issuance and redemption

On October 20, 2017, the Firm issued \$1.3 billion of fixed-to-floating rate non-cumulative preferred stock, Series CC, with an initial dividend rate of 4.625%. On October 31, 2017, the Firm announced that it will redeem all \$1.3 billion of its outstanding 5.50% non-cumulative preferred stock, Series O, on December 1, 2017. For additional information on the Firm's preferred stock, see Note 22 of JPMorgan Chase's 2016 Annual Report.

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of JPMorgan Chase & Co.:

We have reviewed the accompanying consolidated balance sheet of JPMorgan Chase & Co. and its subsidiaries (the “Firm”) as of September 30, 2017, and the related consolidated statements of income and comprehensive income for the three-month and nine-month periods ended September 30, 2017 and 2016 and changes in stockholders’ equity, and cash flows for the nine-month periods ended September 30, 2017 and 2016. These interim financial statements are the responsibility of the Firm’s management.

We conducted our review in accordance with the standards of the Public Company Accounting Oversight Board (United States). 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 Public Company Accounting Oversight Board (United States), 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.

Based on our review, we are not aware of any material modifications that should be made to the accompanying consolidated interim financial statements for them to be in conformity with accounting principles generally accepted in the United States of America.

We previously audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheet as of December 31, 2016, 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 28, 2017, 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, 2016, is fairly stated in all material respects in relation to the consolidated balance sheet from which it has been derived.

November 1, 2017

PricewaterhouseCoopers LLP, 300 Madison Avenue, New York, NY 10017

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JPMorgan Chase & Co.

Consolidated average balance sheets, interest and rates

(Taxable-equivalent interest and rates; in millions, except rates)

	Three months ended September 30, 2017			Three months ended September 30, 2016		
	Average balance	Interest ^(e)	Rate (annualized)	Average balance	Interest ^(e)	Rate (annualized)
Assets						
Deposits with banks	\$455,255	\$ 1,256	1.09 %	\$409,176	\$ 448	0.44 %
Federal funds sold and securities purchased under resale agreements	188,594	622	1.31	196,657	566	1.14
Securities borrowed	95,597	—	—	102,790	(91)	^(g) (0.35)
Trading assets – debt instruments	240,876	1,974	3.25	219,816	1,911	3.46
Taxable securities	216,011	1,362	2.50	228,719	1,365	2.37
Nontaxable securities ^(a)	45,106	676	5.95	44,274	657	5.91
Total securities	261,117	2,038	3.10 ^(f)	272,993	2,022	2.95 ^(f)
Loans	909,580	10,591	4.62	874,396	9,294	4.23
Other assets ^(b)	43,155	525	4.83	40,665	219	2.14
Total interest-earning assets	2,194,174	17,006	3.07	2,116,493	14,369	2.70
Allowance for loan losses	(13,290)			(14,046)		
Cash and due from banks	20,222			18,614		
Trading assets – equity instruments	119,463			98,714		
Trading assets – derivative receivables	59,839			72,520		
Goodwill	47,309			47,302		
Mortgage servicing rights	5,662			4,991		
Other intangible assets	818			903		
Other assets	135,034			131,471		
Total assets	\$2,569,231			\$2,476,962		
Liabilities						
Interest-bearing deposits	\$1,029,534	\$ 837	0.32 %	\$932,738	\$ 340	0.15 %
Federal funds purchased and securities loaned or sold under repurchase agreements	181,851	451	0.98	180,098	286	0.63
Commercial paper	23,022	83	1.43	13,798	34	0.97
Trading liabilities – debt, short-term and other liabilities ^{(c)(d)}	198,674	636	1.27	196,247	285	0.58
Beneficial interests issued by consolidated VIEs	29,832	123	1.62	42,462	135	1.26
Long-term debt	294,626	1,759	2.37	300,295	1,387	1.84
Total interest-bearing liabilities	1,757,539	3,889	0.88	1,665,638	2,467	0.59
Noninterest-bearing deposits	401,489			405,237		
Trading liabilities – equity instruments ^(d)	20,905			22,262		
Trading liabilities – derivative payables	44,627			54,552		
All other liabilities, including the allowance for lending-related commitments	86,742			77,116		
Total liabilities	2,311,302			2,224,805		
Stockholders' equity						
Preferred stock	26,068			26,068		
Common stockholders' equity	231,861			226,089		
Total stockholders' equity	257,929			252,157		

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Total liabilities and stockholders' equity	\$2,569,231		\$2,476,962	
Interest rate spread		2.19 %		2.11 %
Net interest income and net yield on interest-earning assets	\$ 13,117	2.37	\$ 11,902	2.24

(a) Represents securities which are tax exempt for U.S. federal income tax purposes.

(b) Includes margin loans.

(c) Includes largely brokerage customer payables, and to a lesser extent, other borrowed funds.

(d) Included trading liabilities – debt and equity instruments of \$89.4 billion and \$94.7 billion for the three months ended September 30, 2017 and 2016, respectively.

(e) Interest includes the effect of certain related hedging derivatives. Taxable-equivalent amounts are used where applicable.

(f) For the three months ended September 30, 2017 and 2016, the annualized rates for securities, based on amortized cost, were 3.14% and 3.02%, respectively; this does not give effect to changes in fair value that are reflected in accumulated other comprehensive income/(loss).

(g) 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, short-term and other liabilities.

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JPMorgan Chase & Co.

Consolidated average balance sheets, interest and rates

(Taxable-equivalent interest and rates; in millions, except rates)

	Nine months ended September 30, 2017				Nine months ended September 30, 2016			
	Average balance	Interest ^(e)	Rate (annualized)		Average balance	Interest ^(e)	Rate (annualized)	
Assets								
Deposits with banks	\$438,475	\$2,986	0.91 %		\$384,217	\$1,374	0.48 %	
Federal funds sold and securities purchased under resale agreements	192,922	1,676	1.16		201,157	1,696	1.13	
Securities borrowed	93,708	(65) ^(f)	(0.09)		102,640	(279) ^(f)	(0.36)	
Trading assets – debt instruments	233,884	5,691	3.25		214,656	5,505	3.43	
Taxable securities	228,580	4,202	2.46		234,889	4,187	2.38	
Nontaxable securities ^(a)	45,123	2,086	6.18		44,263	1,993	6.01	
Total securities	273,703	6,288	3.07 ^(g)		279,152	6,180	2.96 ^(g)	
Loans	902,216	30,479	4.52		858,275	27,233	4.24	
Other assets ^(b)	42,612	1,311	4.11		40,036	623	2.08	
Total interest-earning assets	2,177,520	48,366	2.97		2,080,133	42,332	2.72	
Allowance for loan losses	(13,453)				(13,889)			
Cash and due from banks	19,942				18,505			
Trading assets – equity instruments	120,307				94,555			
Trading assets – derivative receivables	59,824				71,004			
Goodwill	47,297				47,314			
Mortgage servicing rights	5,845				5,472			
Other intangible assets	836				938			
Other assets	135,891				133,802			
Total assets	\$2,554,009				\$2,437,834			
Liabilities								
Interest-bearing deposits	\$1,007,345	\$1,949	0.26 %		\$913,682	\$981	0.14 %	
Federal funds purchased and securities loaned or sold under repurchase agreements	189,236	1,131	0.80		176,081	828	0.63	
Commercial paper	18,653	186	1.33		16,257	105	0.86	
Trading liabilities – debt, short-term and other liabilities ^{(c)(d)}	198,569	1,622	1.09		197,537	826	0.56	
Beneficial interests issued by consolidated VIEs	34,197	386	1.51		40,245	366	1.22	
Long-term debt	294,248	5,035	2.29		293,418	3,999	1.82	
Total interest-bearing liabilities	1,742,248	10,309	0.79		1,637,220	7,105	0.58	
Noninterest-bearing deposits	403,704				398,814			
Trading liabilities – equity instruments ^(d)	20,441				20,511			
Trading liabilities – derivative payables	45,900				56,390			
All other liabilities, including the allowance for lending-related commitments	85,711				74,797			
Total liabilities	2,298,004				2,187,732			
Stockholders' equity								
Preferred stock	26,068				26,068			

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Common stockholders' equity	229,937		224,034	
Total stockholders' equity	256,005		250,102	
Total liabilities and stockholders' equity	\$2,554,009		\$2,437,834	
Interest rate spread		2.18 %		2.14 %
Net interest income and net yield on interest-earning assets	\$38,057	2.34	\$35,227	2.26

(a) Represents securities which are tax exempt for U.S. federal income tax purposes.

(b) Includes margin loans.

(c) Includes largely brokerage customer payables, and to a lesser extent, other borrowed funds.

(d) Included trading liabilities - debt and equity instruments of \$91.3 billion and \$92.5 billion for the nine months ended September 30, 2017 and 2016, respectively.

(e) Interest includes the effect of certain related hedging derivatives. Taxable-equivalent amounts are used where applicable.

(f) 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, short-term and other liabilities.

(g) For the nine months ended September 30, 2017 and 2016, the annualized rates for securities, based on amortized cost, were 3.11% and 3.02% respectively; this does not give effect to changes in fair value that are reflected in accumulated other comprehensive income/(loss).

GLOSSARY
OF TERMS

AND

ACRONYMS

2016 Annual Report or 2016 Form 10-K: Annual report on Form 10-K for year ended December 31, 2016, 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 period-end 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

E&P: Exploration & Production

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 Firms 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: Globally 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

Interchange income: A fee paid to a credit card issuer in the clearing and settlement of a sales or cash advance transaction.

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

JPMorgan 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 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: An agreement between two counterparties who have multiple contracts with each other that provides for the net settlement of all contracts, as well as cash collateral, through a single payment, in a single currency, in the event of default on or termination of any one contract.

MBS: Mortgage-backed securities

MD&A: Management’s discussion and analysis

MMDA: Money Market Deposit Accounts

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 adjustable-rate 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 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.

NOW: Negotiable Order of Withdrawal

NSFR: Net stable funding ratio

OAS: Option-adjusted spread

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 stock-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 stock-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 loans that were acquired in the Washington Mutual transaction 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 market-making 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

risk-management 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, foreign exchange risk and commodity 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 methodologies 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

SEC: 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.

Short sale: is a sale of real estate in which proceeds from selling the underlying property are less than the amount owed the Firm under the terms of the related mortgage and the related lien is released upon receipt of such proceeds.

Single-name: Single reference-entities

SLR: Supplementary leverage ratio

SMBS: Stripped mortgage-backed securities

SOA: Society of Actuaries

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.

LINE OF
BUSINESS
METRICS

CONSUMER & COMMUNITY BANKING (“CCB”)

Households: A household is a collection of individuals or entities aggregated together by name, address, tax identifier and phone. Reported on a one-month lag.

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.

Mortgage Production and Mortgage 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 Mortgage 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 Mortgage 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 Commerce Solutions businesses.

Card: is a business that primarily issues credit cards to consumers and small businesses.

Commerce Solutions: 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 Services.

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.

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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. Includes “Committed capital not Called.”

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-net-worth 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 ten-year (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.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

For a discussion of the quantitative and qualitative disclosures about market risk, see the Market Risk Management section of Management's discussion and analysis on pages 73–77 of this Form 10-Q and pages 116–123 of JPMorgan Chase's 2016 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. See 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, see "Management's report on internal control over financial reporting" on page 139 of JPMorgan Chase's 2016 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 September 30, 2017, 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 2016 Annual Report on Form 10-K, see the discussion of the Firm's material legal proceedings in Note 21 of this Form 10-Q.

Item 1A. Risk Factors.

For a discussion of certain risk factors affecting the Firm, see Part I, Item 1A: Risk Factors on pages 8–21 of JPMorgan Chase's 2016 Annual Report on Form 10-K and Forward-Looking Statements on page 82 of this Form 10-Q.

Supervision and regulation

For information on Supervision and Regulation, see the Supervision and regulation section on pages 1–8 of JPMorgan Chase's 2016 Form 10-K.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

During the three months ended September 30, 2017, no shares of common stock of JPMorgan Chase & Co. were issued in transactions exempt from registration under the Securities Act of 1933, pursuant to Section 4(2) thereof.

Repurchases under the common equity repurchase program

Following receipt in June 2017 of the Federal Reserve's non-objection to the Firm's 2017 capital plan, the Firm's Board of Directors authorized the repurchase of up to \$19.4 billion of common equity (common stock and warrants) between July 1, 2017 and June 30, 2018. 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 nine months ended September 30, 2017 and 2016. There were no warrants repurchased during the nine months ended September 30, 2017 and 2016.

	Three months ended		Nine months ended	
	September 30,		September 30,	
(in millions)	2017	2016	2017	2016
Total shares of common stock repurchased	51.7	35.6	118.8	110.6
Aggregate common stock repurchases	\$4,763	\$2,295	\$10,602	\$6,831

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; may be 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 nine months ended September 30, 2017, were as follows.

Nine months ended September 30, 2017	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 remaining authorized repurchase (in millions) ^(a)	
First quarter	32,132,964	\$ 88.14	\$ 2,832	\$ 3,221	(b)
Second quarter	34,940,127	86.05	3,007	214	(c)
July	14,353,325	92.05	1,321	18,079	
August	20,326,765	92.25	1,875	16,204	
September	17,076,802	91.72	1,567	14,637	
Third quarter	51,756,892	92.02	4,763	14,637	
Year-to-date	118,829,983	\$ 89.22	\$ 10,602	\$ 14,637	

(a) Excludes commissions cost.

(b) Represents the amount remaining under the \$10.6 billion repurchase program that was authorized by the Board of Directors on June 29, 2016.

(c) The \$214 million unused portion under the prior Board authorization was canceled when the \$19.4 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	<u>Letter re: Unaudited Interim Financial Information.(a)</u>
31.1	<u>Certification.(a)</u>
31.2	<u>Certification.(a)</u>
32	<u>Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.(b)</u>
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.

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.

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 September 30, 2017, formatted in XBRL (eXtensible Business Reporting Language) interactive data files: (i) the Consolidated statements of income (unaudited) for the three and nine months ended September 30, 2017 and 2016, (ii) the Consolidated statements of comprehensive income (unaudited) for the three and nine months ended September 30, 2017 and 2016, (iii) the Consolidated balance sheets (unaudited) as of September 30, 2017, and December 31, 2016, (iv) the Consolidated statements of changes in stockholders’ equity (unaudited) for the nine months ended September 30, 2017 and 2016, (v) the Consolidated statements of cash flows (unaudited) for the nine months ended September 30, 2017 and 2016, 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)

By: /s/ Nicole Giles

Nicole Giles

Managing Director and Corporate Controller

(Principal Accounting Officer)

Date: November 1, 2017

INDEX TO EXHIBITS

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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.