

Quarterly Trends for Consolidated U.S. Banking Organizations

Fourth quarter 2016

Federal Reserve Bank of New York

Research and Statistics Group

This report presents consolidated financial statistics for the U.S. commercial banking industry, including both bank holding companies (BHCs) and banks. Statistics are based on quarterly regulatory filings and are inclusive of BHCs' nonbank subsidiaries¹. Separate statistics are reported on a merger-adjusted basis for the subset of BHCs with >\$500bn in total assets as of the current quarter², for BHCs with \$50bn-500bn in total assets, and for the remainder of the industry.

Highlights

- This edition of the Quarterly Trends report introduces new charts plotting industry loan balances and loan performance for subcategories for residential real estate loans, commercial real estate loans, consumer loans and other loans (see sections 1 and 4). Among other trends, these charts highlight the widespread improvement in bank loan performance in recent years, and document that construction loans, credit cards, and home equity loans experienced the highest credit loss rates (as measured by net charge-off ratios) in the time period around the 2007-09 recession.
- Industry capitalization, measured as common equity tier 1 (CET1) as a percentage of risk-weighted assets (RWA), increased to 12.60% in 2016:Q4 from 12.52% in 2016:Q3.
- Industry profitability, as measured by annualized return on assets, declined to 0.82% in 2016:Q4 from 0.90% in 2016:Q3, reflecting higher noninterest expense evidenced by an increase in the efficiency ratio. Return on equity declined to 7.4%, from 8.0% over the same period.
- Non-performing loans as a percentage of total loans decreased to 1.46% in 2016:Q4 from 1.48% in 2016:Q3. Net charge-offs as a percent of total loans increased slightly, to 0.55% from 0.52%, but remains significantly below its historical average.
- Industry four quarter ended asset growth and loan growth were 8.5% and 6.1%, respectively.

Note: Statistics for this edition of the Quarterly Trends report are affected by the addition to the data sample of a number of intermediate holding companies (IHCs) of systemically important foreign banking organizations. The effect of this sample change is concentrated in 2016:Q3, causing a rise in industry assets of approximately 4% in that quarter. See “Notes and Caveats” for more details.

¹ Industry statistics are calculated by summing consolidated financial data across all reporting U.S. parent BHCs and intermediate holding companies (IHCs) (from the FR Y-9C report), plus values for “standalone” banks not controlled by a BHC, or whose parent BHC does not report on a consolidated basis (from the FFIEC 031/041 reports). The data exclude savings bank holding companies, branches and agencies of foreign banks, or nonbanks not held by a U.S. BHC or IHC.

² Six BHCs exceed this \$500bn size threshold: J.P. Morgan Chase, Bank of America, Citigroup, Wells Fargo, Goldman Sachs, and Morgan Stanley.

Table of Contents

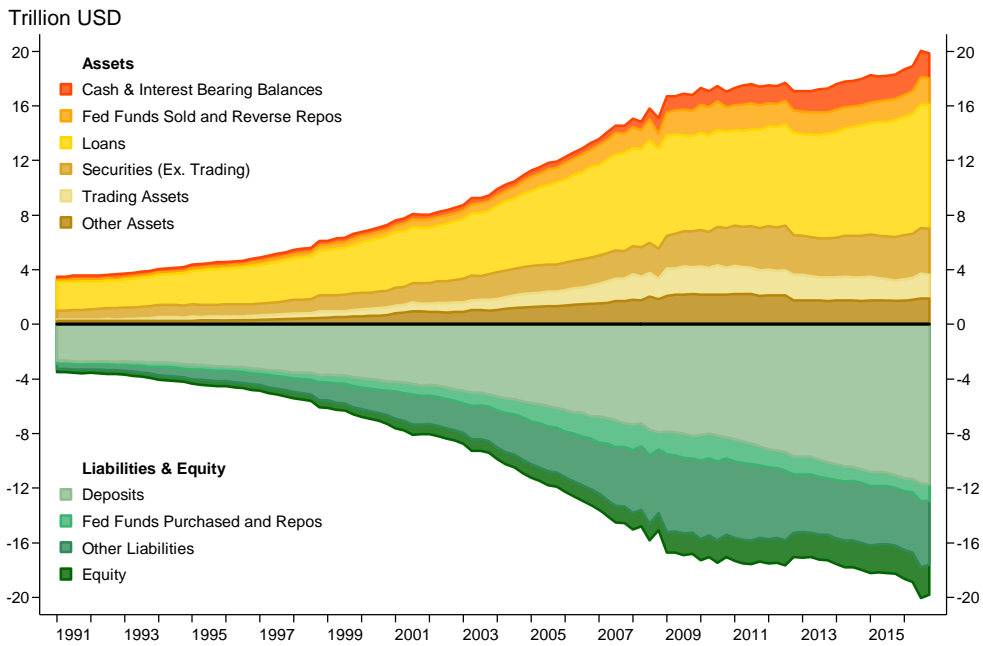
Charts and Tables

1. Composition of Banking Industry Assets and Liabilities	
Balance Sheet Composition (\$)	4
Balance Sheet Composition, Percent of Assets, Current Quarter (%)	4
Balance Sheet Composition, Percent of Assets (%)	5
Federal Funds Sold and Purchased	6
Repurchase Agreements	6
Loans	7
Residential Real Estate Loans	8
Commercial Real Estate Loans	8
Consumer Loans	9
Other Loans	9
Trading Assets and Liabilities	10
Securities Portfolios	10
Available-for-Sale Securities	11
Held-to-Maturity Securities	11
2. Earnings and Pre-Provision Net Revenue	
Return on Assets	12
Return on Equity	12
Net Interest Margin	13
Noninterest Income Share	13
Return on Trading Assets	14
Non-Trading Non-Interest Income Ratio	14
Efficiency Ratio	15
3. Loan Performance	
Non-performing Loans	16
Non-performing Residential Real Estate Loans	16
Non-performing Commercial Real Estate Loans	17
Non-performing Commercial and Industrial (C&I) Loans	17
Non-performing Consumer Loans	18
Non-performing Other Loans	18
Net Charge-offs	19
Net Charge-offs on Residential Real Estate Loans	19
Net Charge-offs on Commercial Real Estate Loans	20
Net Charge-offs on Commercial and Industrial (C&I) Loans	20
Net Charge-offs on Consumer Loans	21
Net Charge-offs on Other Loans	21
Loan Loss Provisions	22
Loan Loss Reserves	22
Loan Loss Reserves, Percent of Non-performing Loans	23
4. Loan Performance: Detail	
Non-performing Residential Real Estate Loans, Detail	24
Net Charge-offs on Residential Real Estate Loans, Detail	24
Non-performing Construction Loans, Detail	25
Net Charge-offs on Construction Loans, Detail	25
Non-performing Non-Farm, Other Domestic Real Estate Loans, Detail	26
Net Charge-offs on Non-Farm, Other Domestic Real Estate Loans, Detail	26
Non-performing Consumer Loans, Detail	27
Net Charge-offs on Consumer Loans, Detail	27
Non-performing Other Real Estate Loans, Detail	28
Net Charge-offs on Other Real Estate Loans, Detail	28
Non-performing Loans to Foreign Institutions, Detail	29
Net Charge-offs on Loans to Foreign Institutions, Detail	29
Non-performing Other Loans, Detail	30

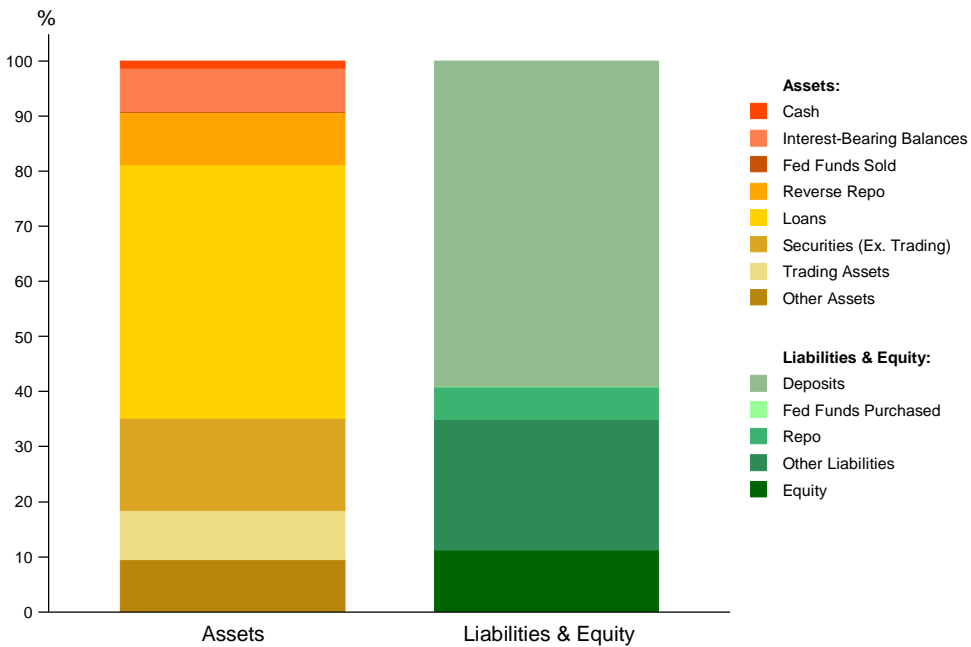
Net Charge-offs on Other Loans, Detail	30
5. Capital Adequacy and Asset Growth	
CET1 and Tier 1 Common Equity Ratio	31
Tier 1 Capital Ratio	31
Total Capital Ratio	32
Leverage Ratio	32
Asset Growth Rate	33
Loan Growth Rate	33
Domestic Deposit Growth Rate	34
Risk-Weighted Assets Ratio	34
Industry Concentration	35
6. Consolidated Financial Statistics for the Fifty Largest BHCs	36
Notes and Caveats	
Methodology	37
Caveats and Limitations	38
Data Notes	39

1. Composition of Banking Industry Assets and Liabilities

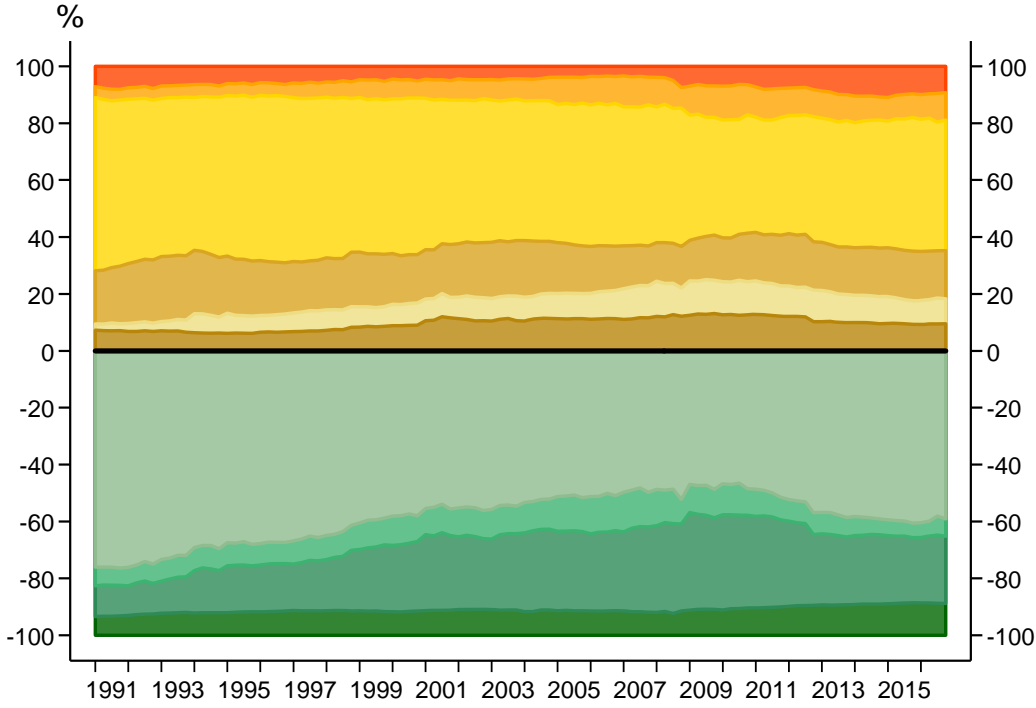
Balance Sheet Composition



Balance Sheet Composition, Percent of Assets, Current Quarter



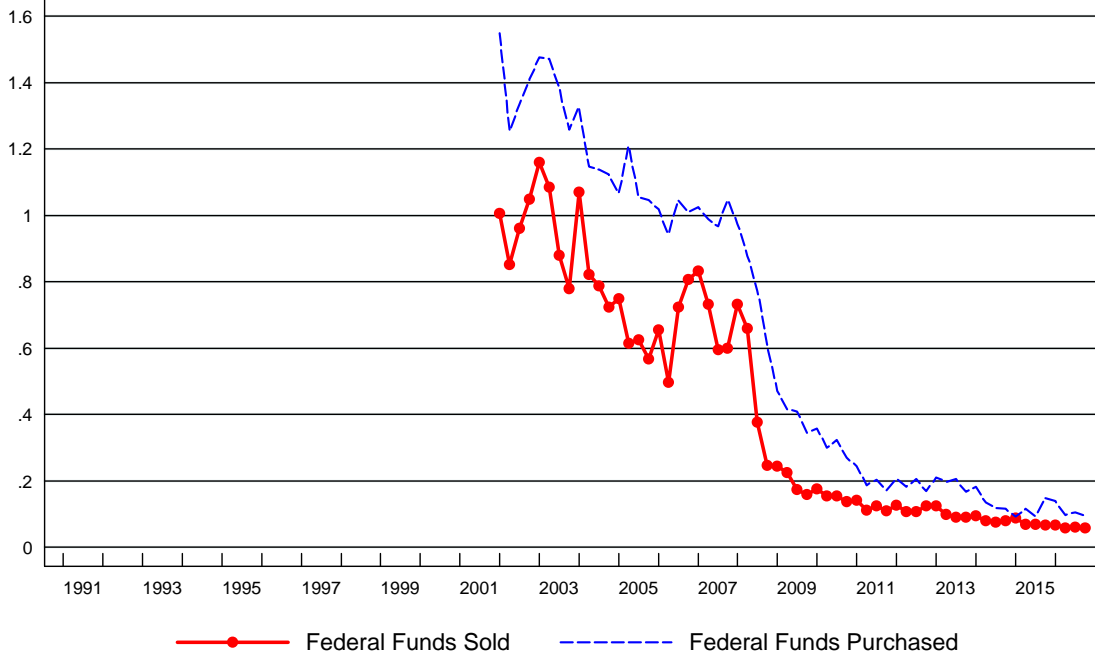
Balance Sheet Composition, Percent of Assets



- | Assets | Liabilities & Equity |
|--|--|
| ■ Cash & Interest Bearing Balances | ■ Deposits |
| ■ Fed Funds Sold and Reverse Repos | ■ Fed Funds Purchased and Repos |
| ■ Loans | ■ Other Liabilities |
| ■ Securities (Ex. Trading) | ■ Equity |
| ■ Trading Assets | |
| ■ Other Assets | |

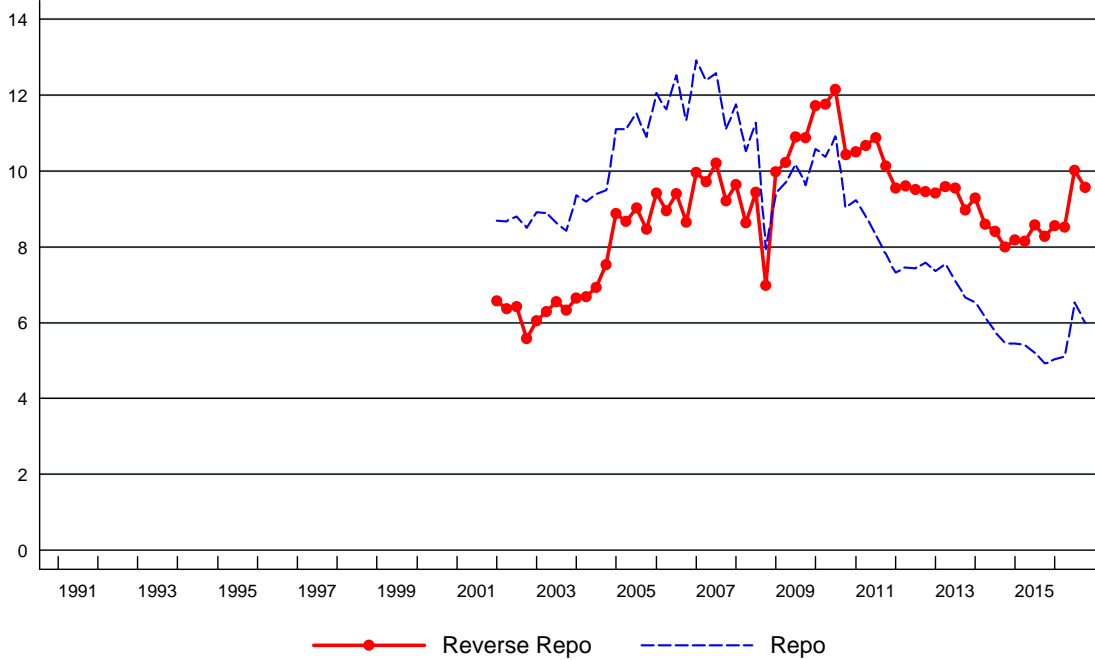
Federal Funds Sold and Purchased

Federal funds sold and purchased in domestic offices as % of total assets



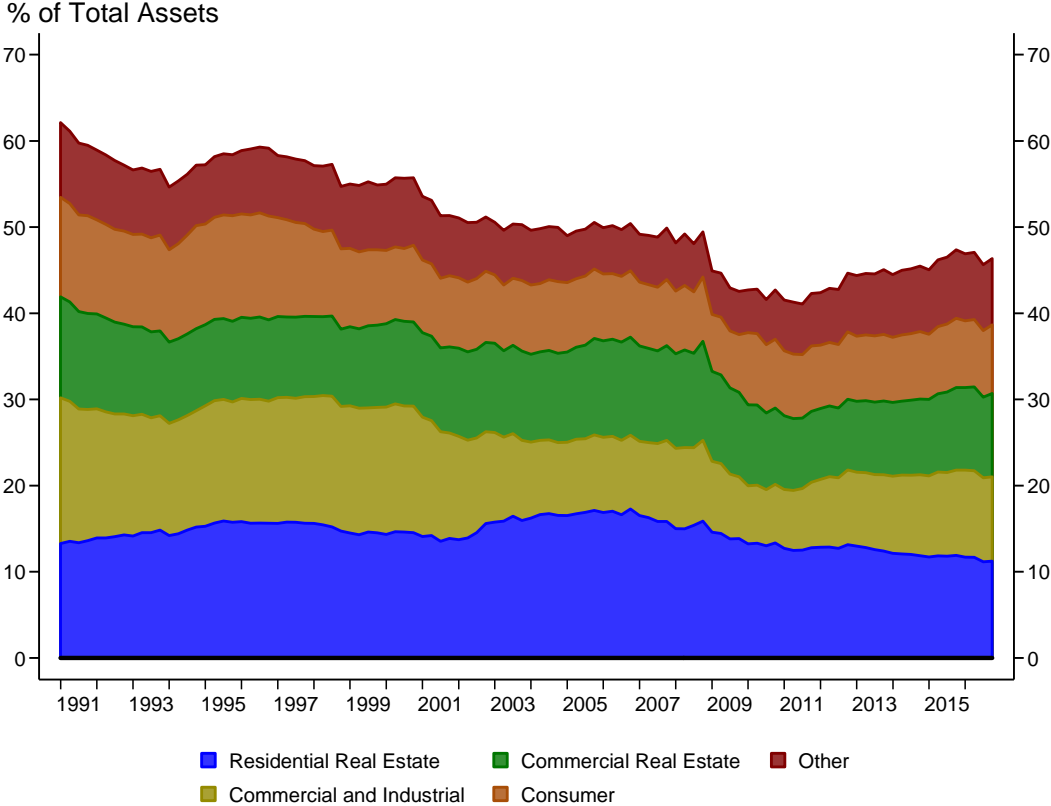
Repurchase Agreements

Repurchase agreements as % of total assets

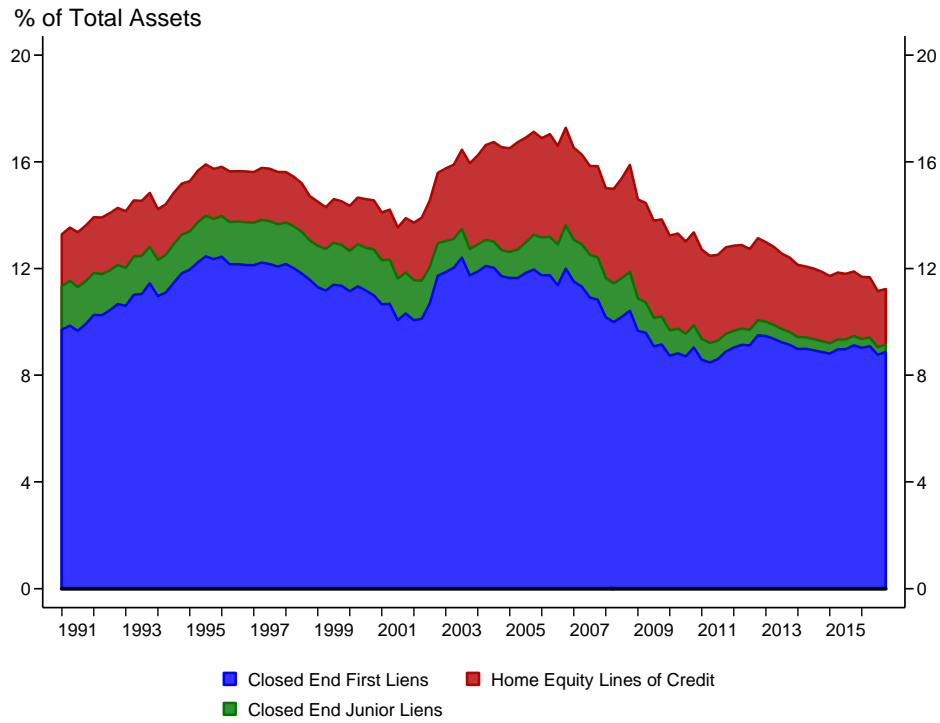


Note: These charts begin in 2002:Q1 because data for repurchase agreements and federal funds are not consistently reported separately prior to that date.

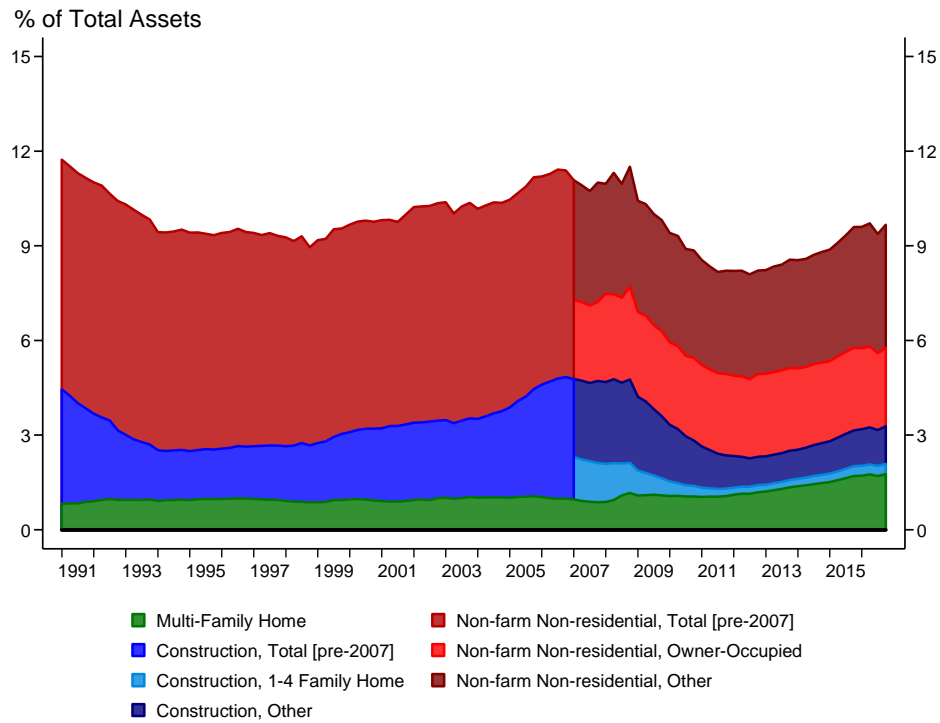
Loans



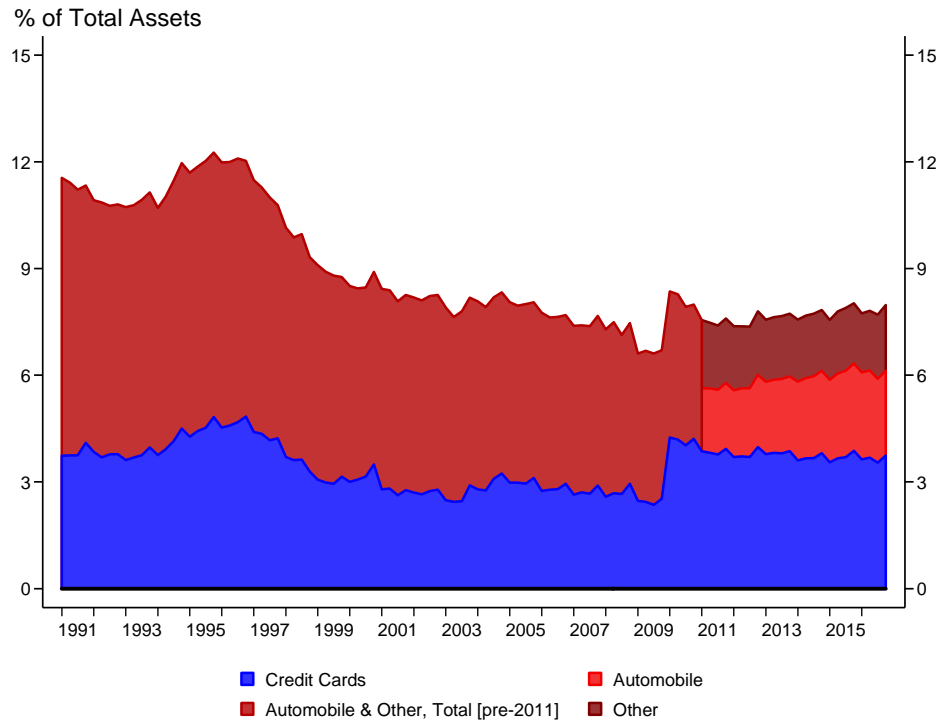
Residential Real Estate Loans



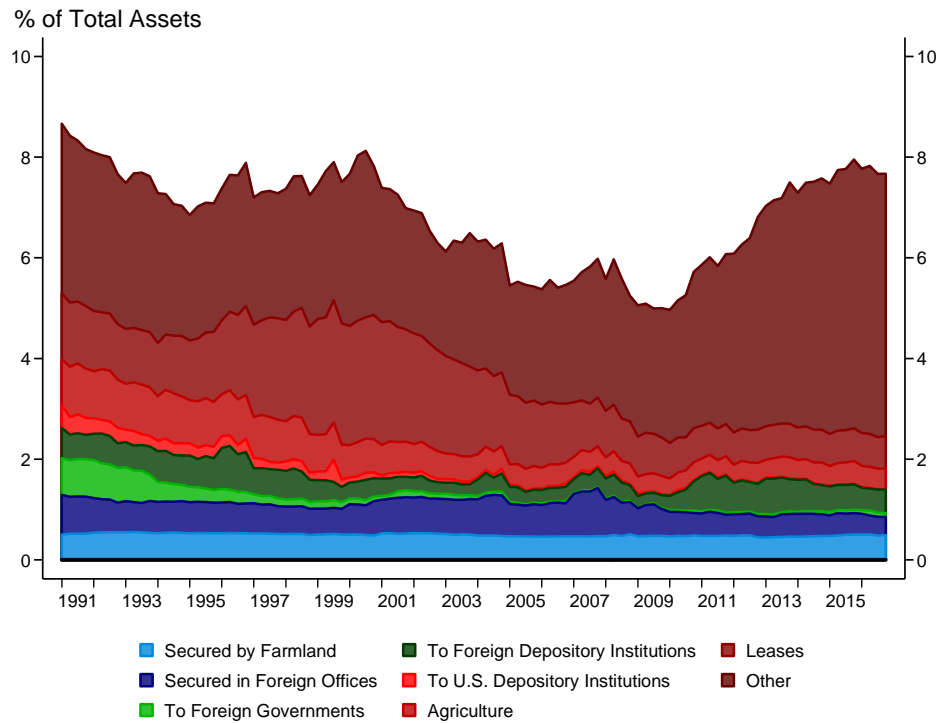
Commercial Real Estate Loans



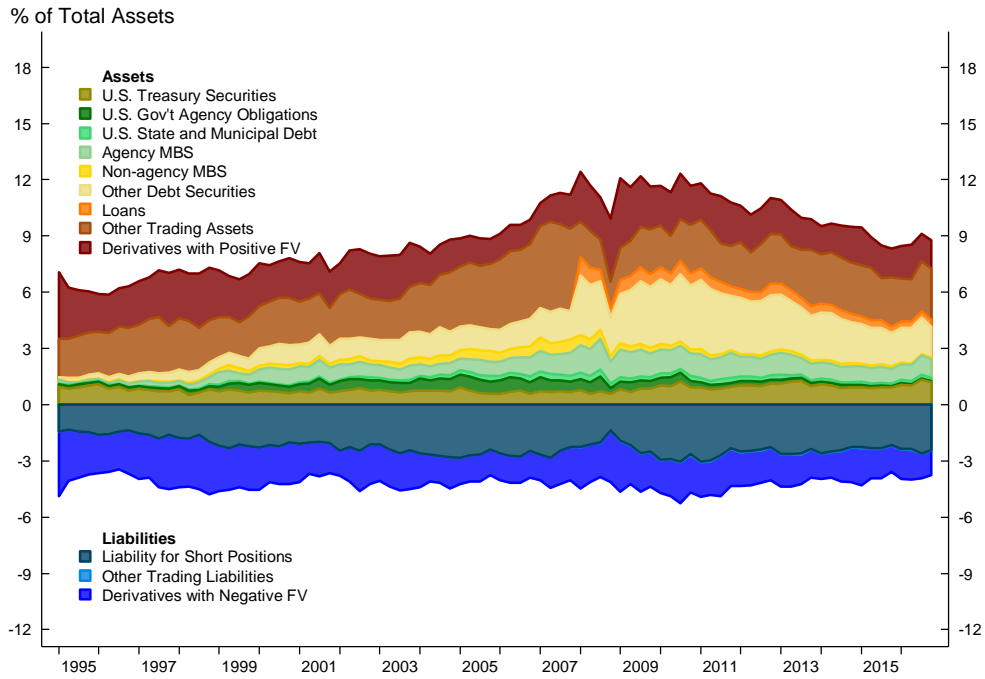
Consumer Loans



Other Loans

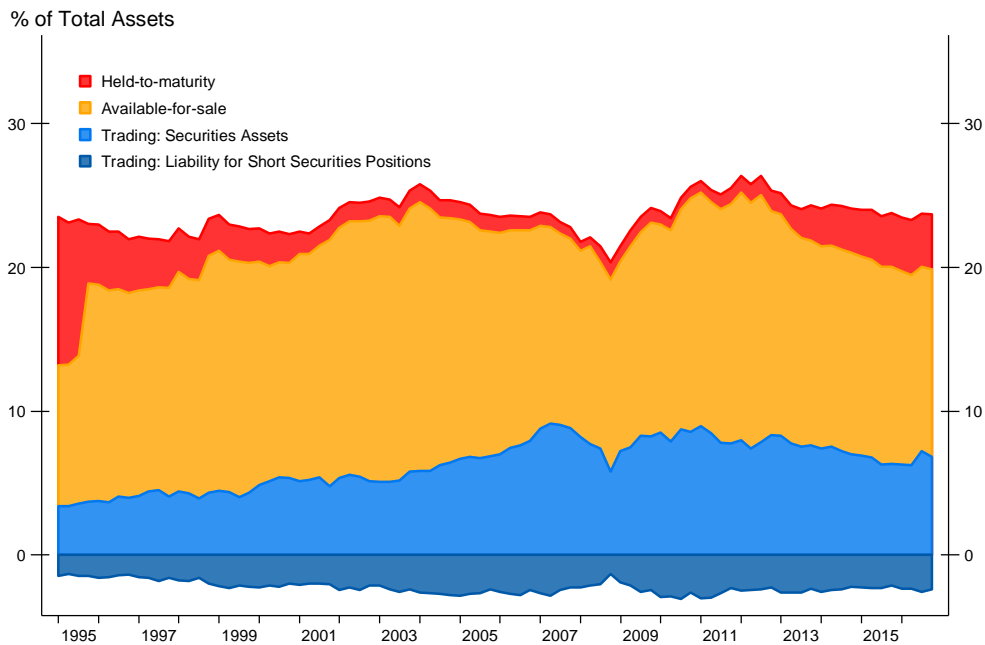


Trading Assets and Liabilities



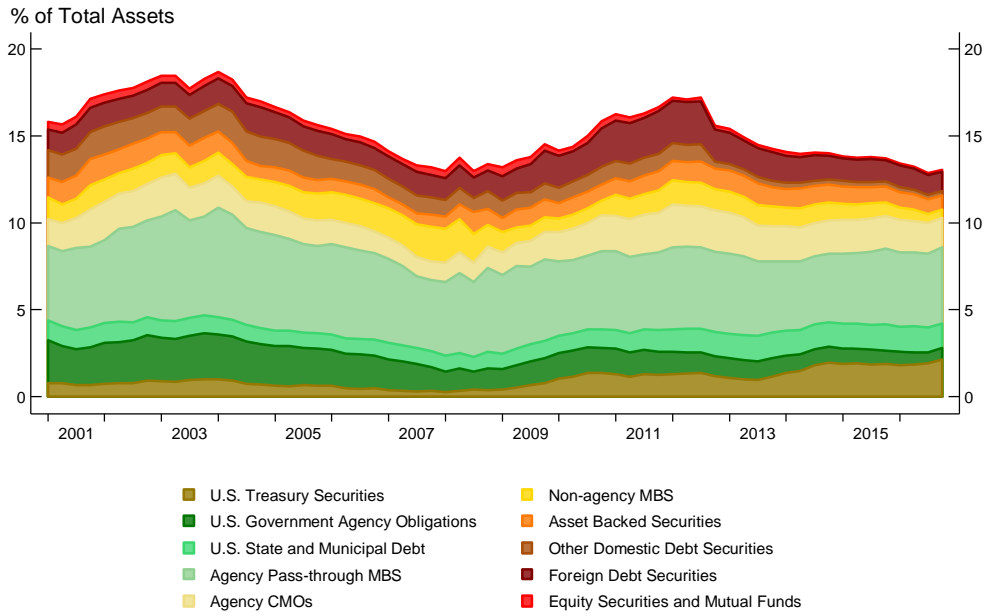
Note: The subcomponents of trading assets and liabilities in the above chart only represent banks and BHCs that reported average trading assets of \$2 million or more in any of the four preceding quarters.

Securities Portfolios

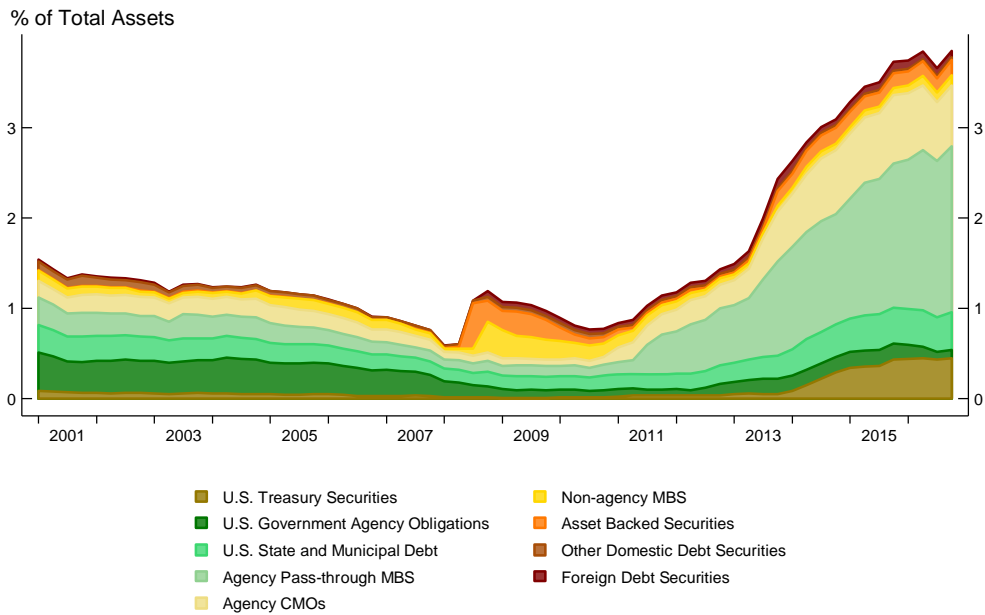


Note: Chart measures debt and equity securities portfolios. Thus, trading portfolio excludes other types of trading assets such as whole loans and derivatives.

Available-for-Sale Securities



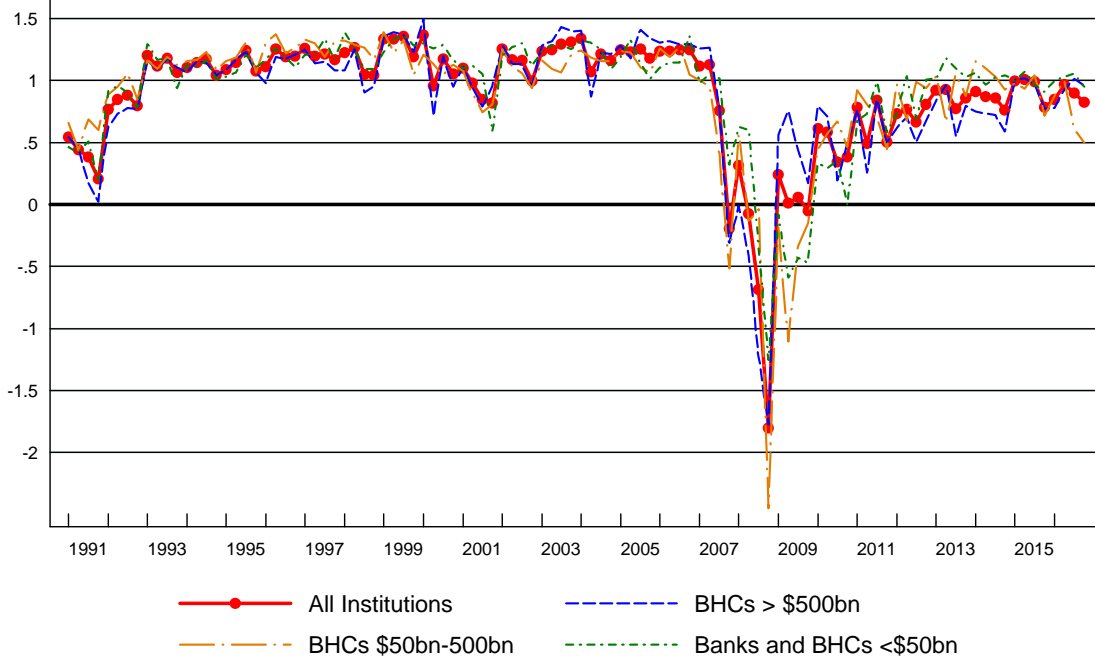
Held-to-Maturity Securities



2. Earnings and Pre-Provision Net Revenue

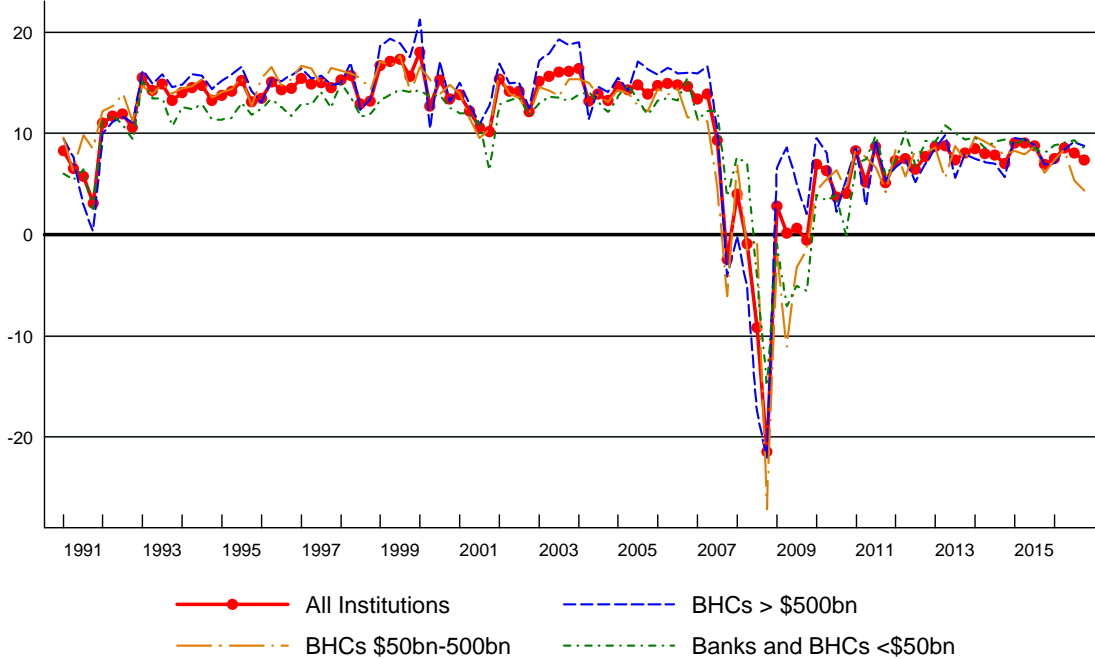
Return on Assets

Annualized net income as % of total assets



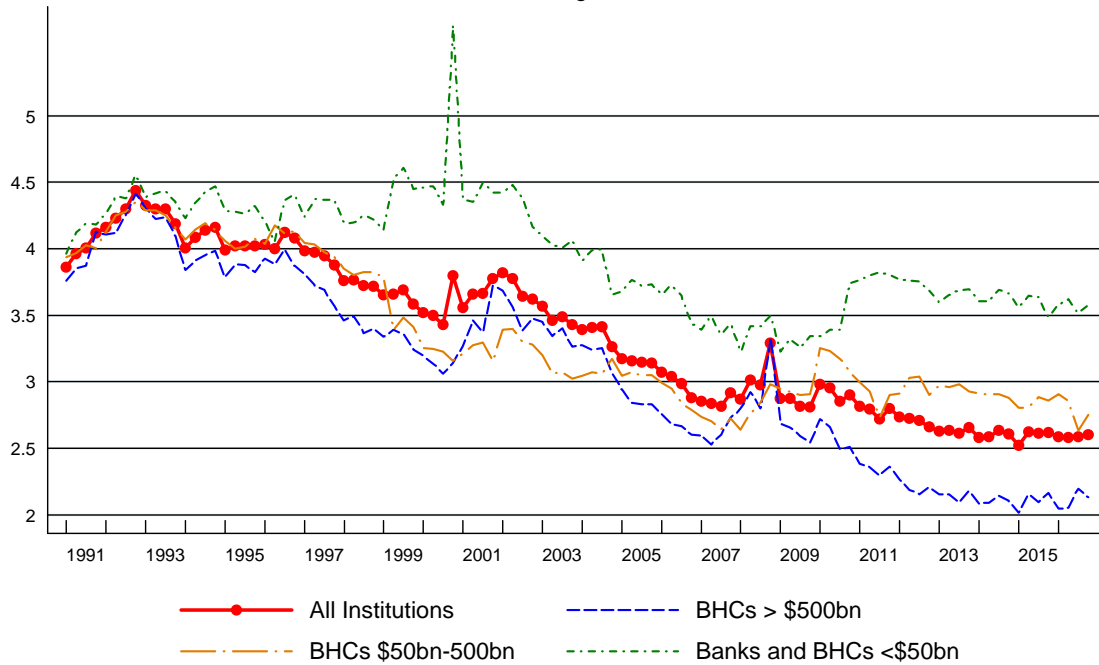
Return on Equity

Annualized net income as % of equity



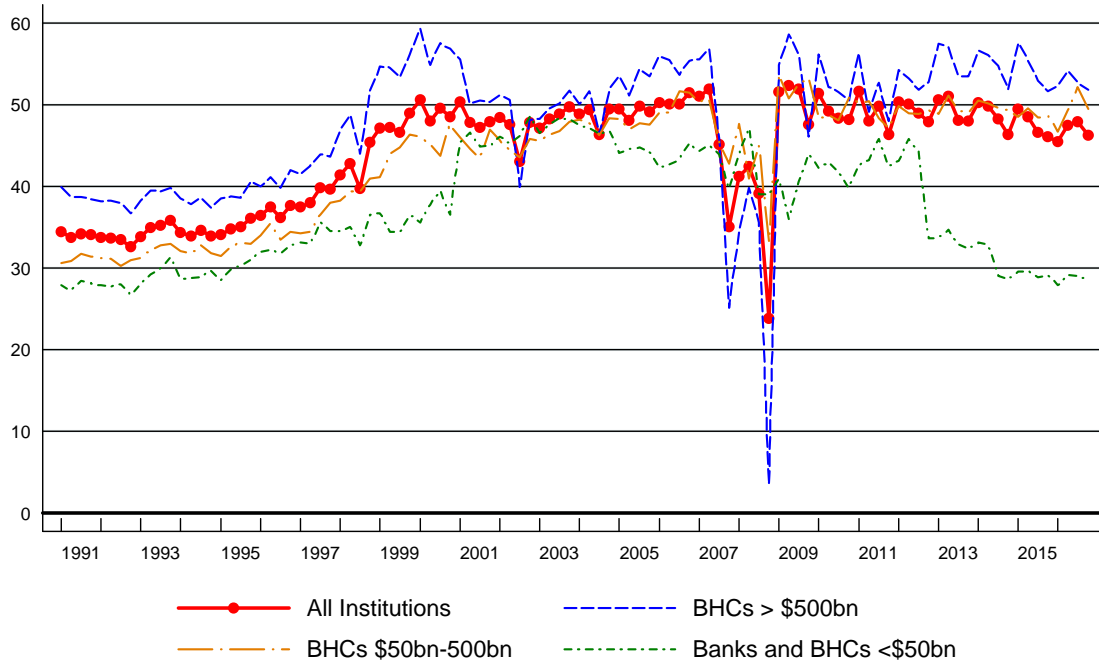
Net Interest Margin

Annualized net interest income as % of interest-earning assets



Noninterest Income Share

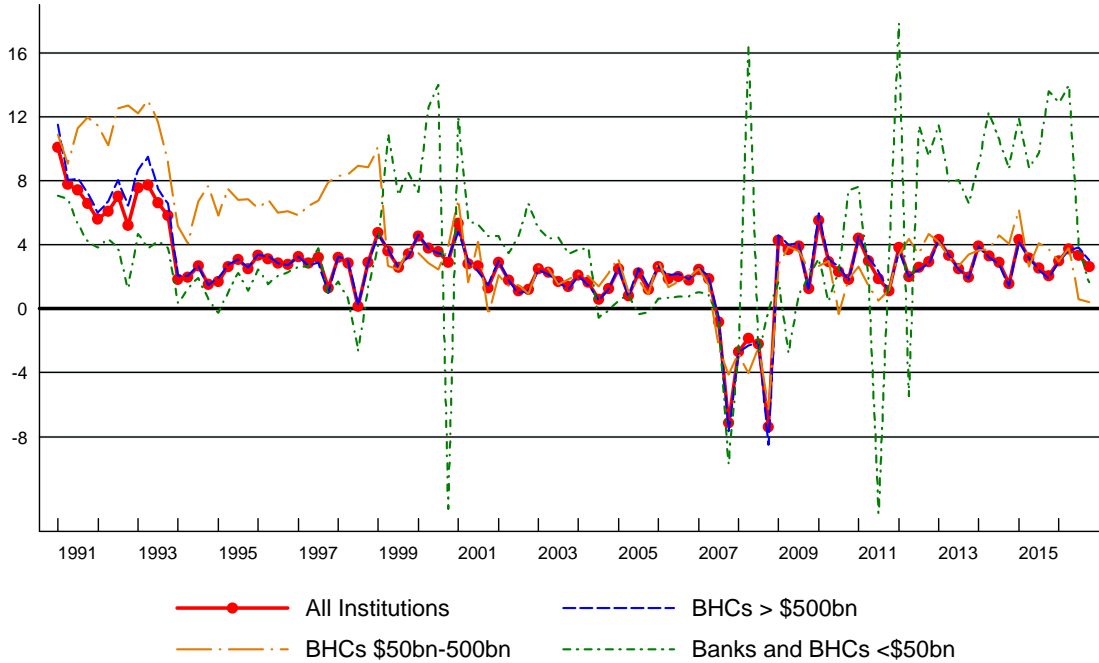
Noninterest income as % of net operating revenue



Note: Net operating revenue is defined as net interest income plus noninterest income.

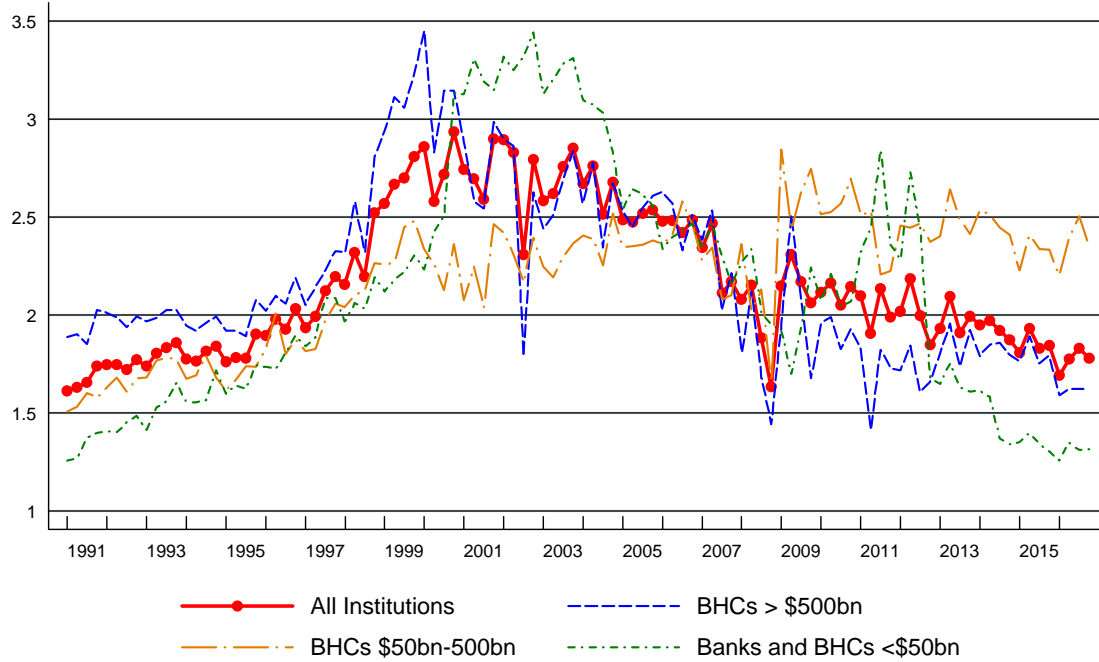
Return on Trading Assets

Annualized trading income as % of trading assets



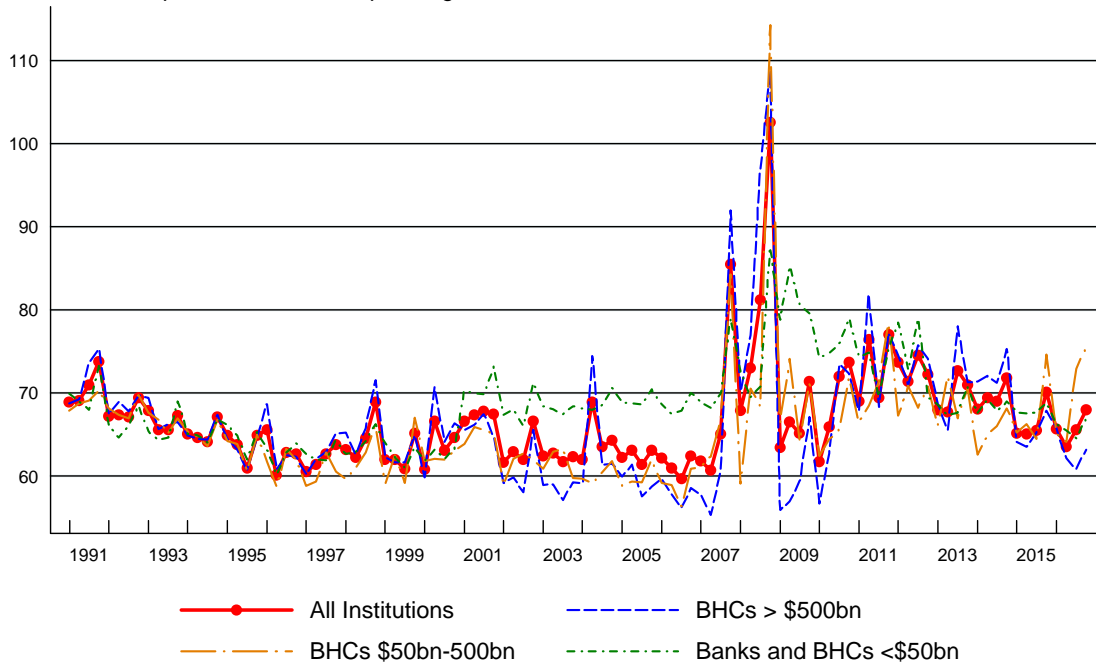
Non-Trading Non-Interest Income Ratio

Annualized non-trading non-interest income as % of total assets



Efficiency Ratio

Noninterest expense as % of net operating revenue



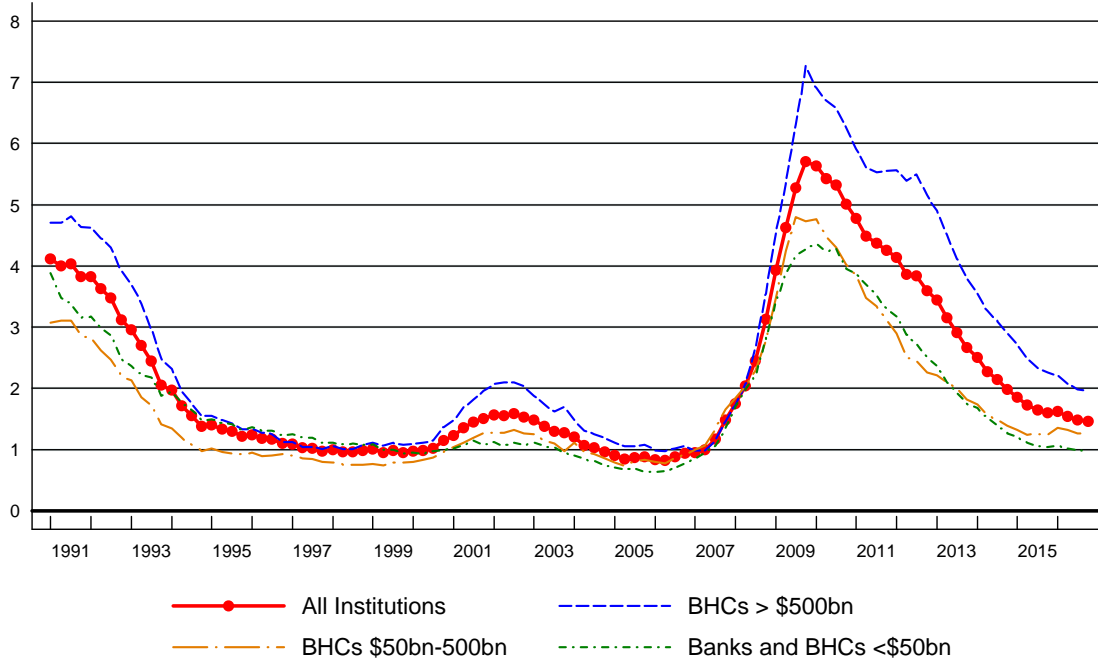
Note: Net operating revenue is defined as net interest income plus noninterest income.

3. Loan Performance

Note: Non-performing loans include loans that are (1) 90 days or more past due and still accruing or (2) non-accrual.

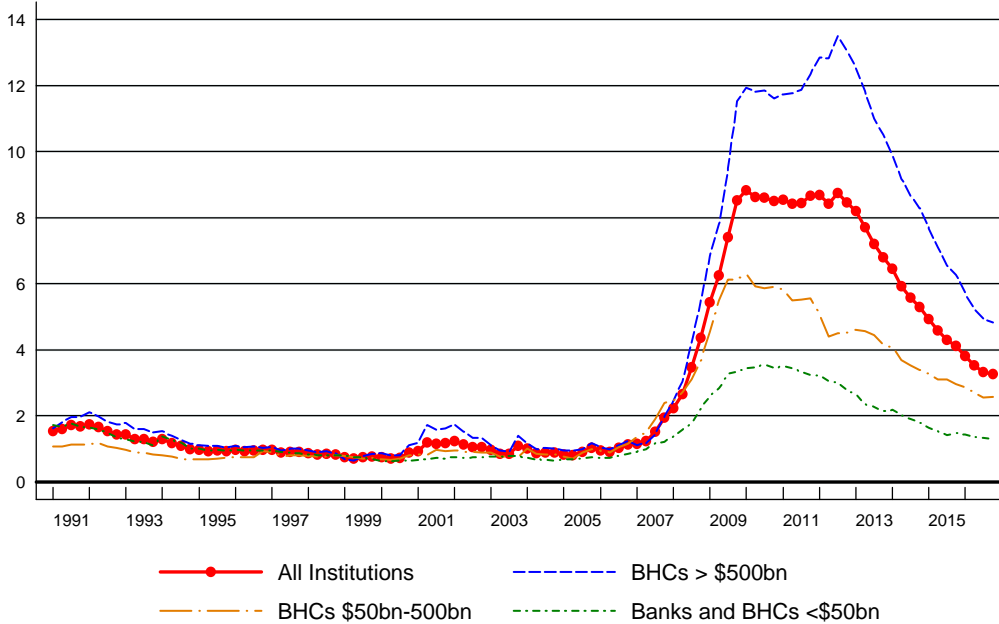
Non-performing Loans

Total non-performing loans as % of total loans



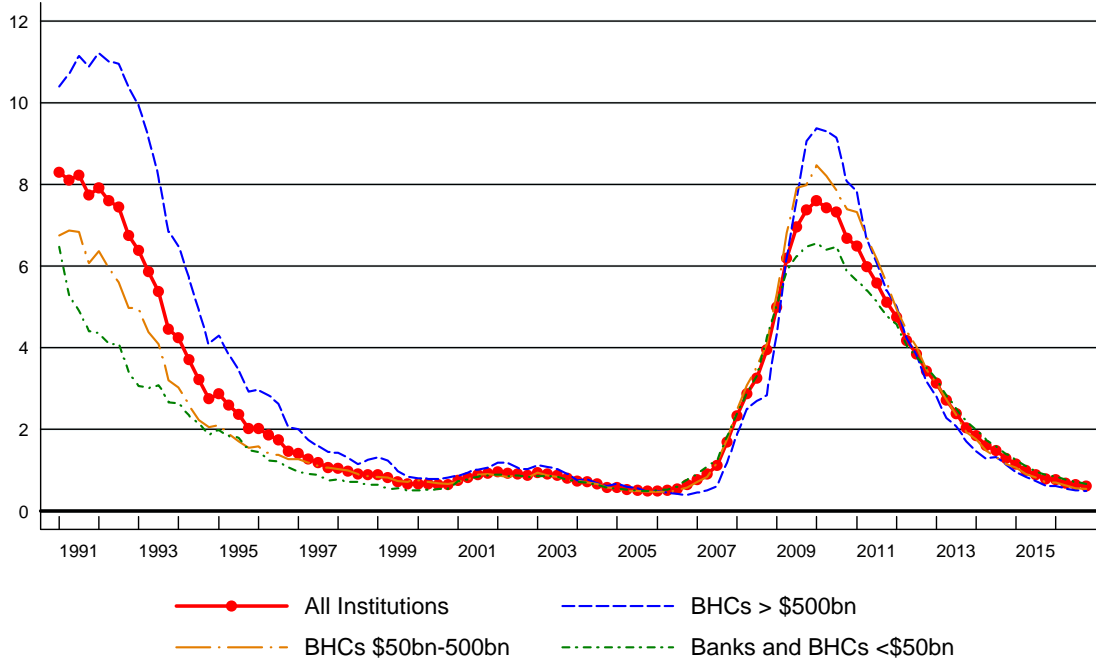
Non-performing Residential Real Estate Loans

Non-performing residential real estate loans as % of residential real estate loans



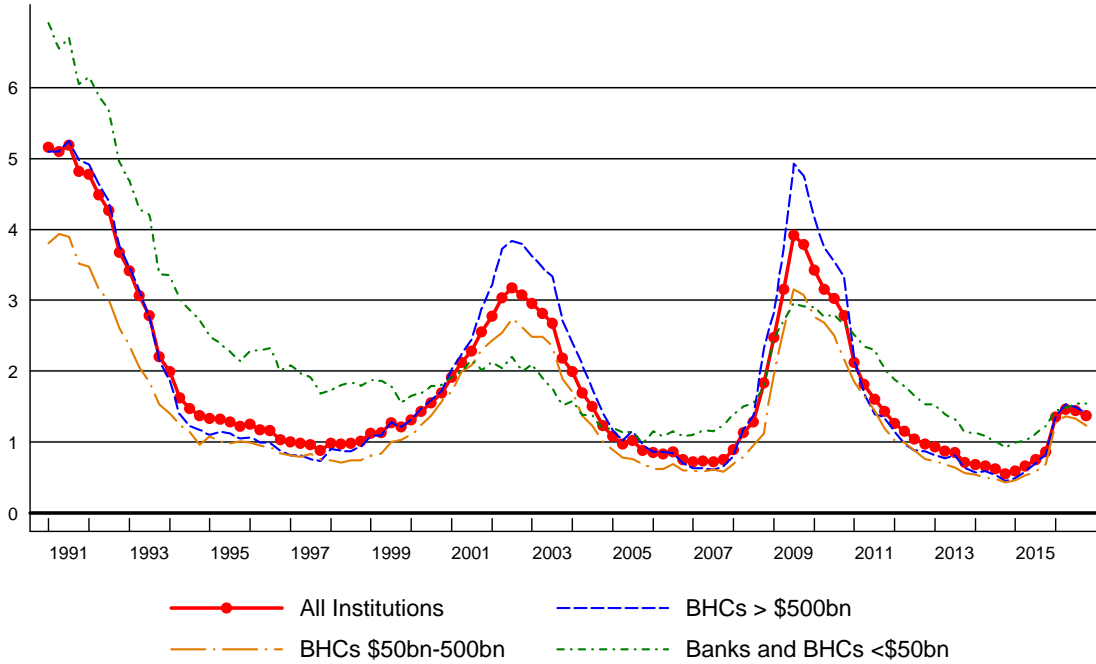
Non-performing Commercial Real Estate Loans

Non-performing commercial real estate loans as % of commercial real estate loans



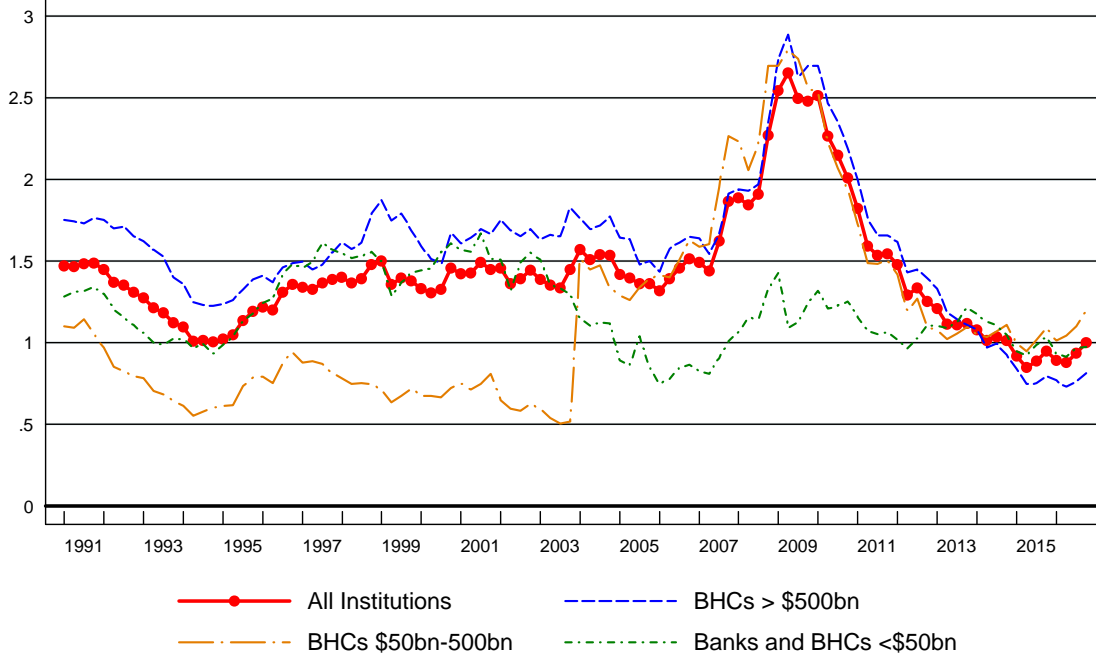
Non-performing Commercial and Industrial (C&I) Loans

Non-performing C&I loans as % of C&I loans



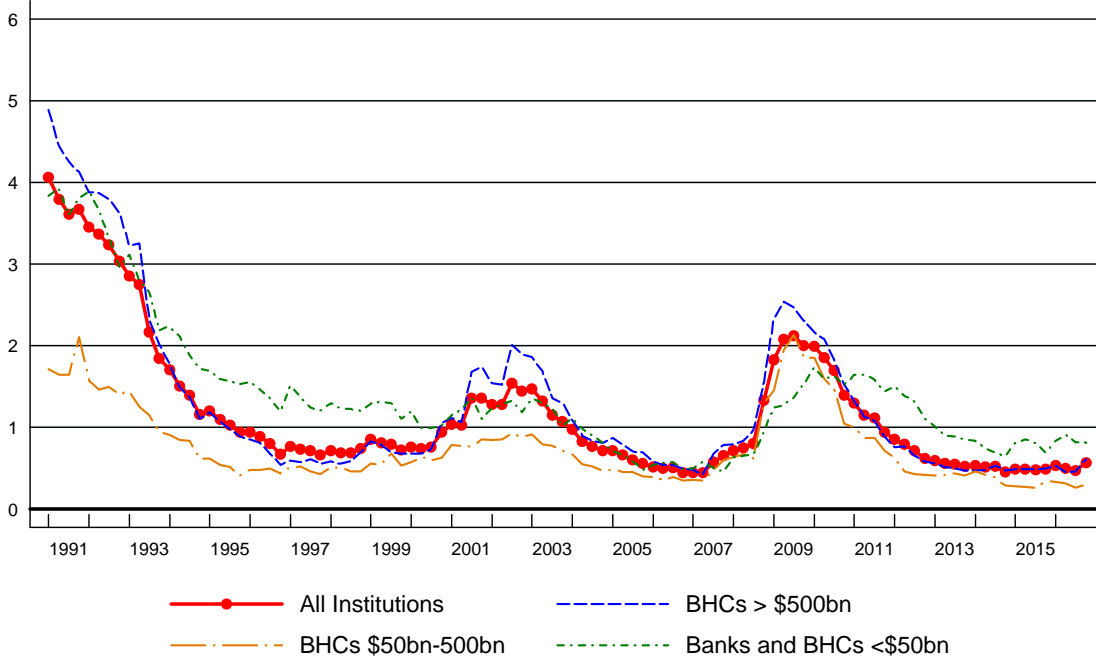
Non-performing Consumer Loans

Non-performing consumer loans as % of consumer loans



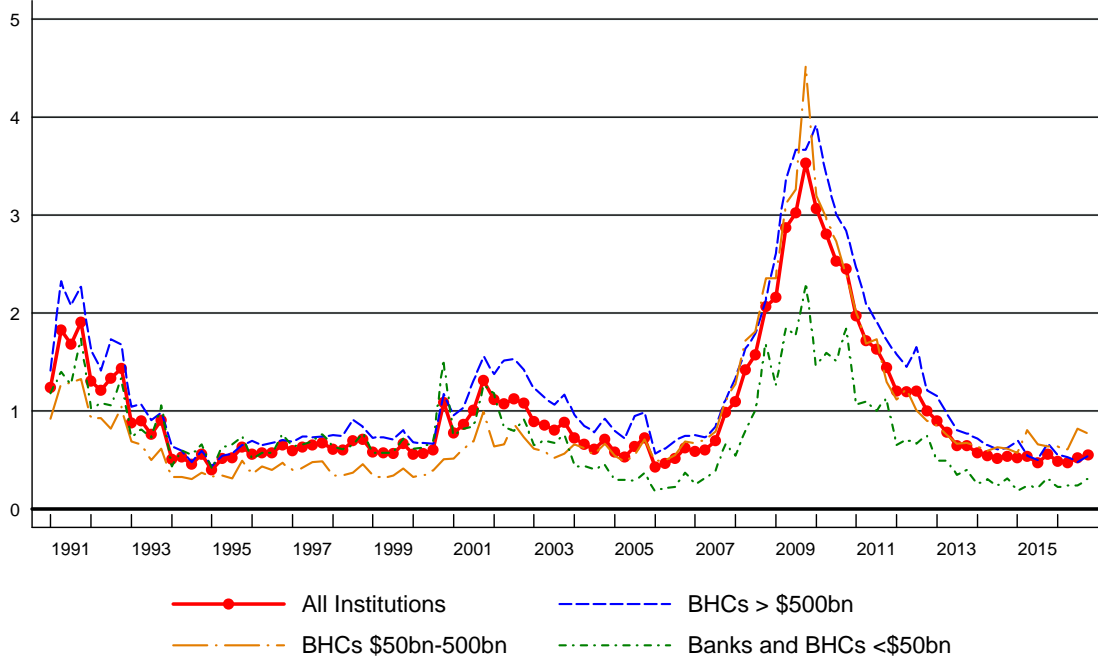
Non-performing Other Loans

Non-performing other loans as % of other loans



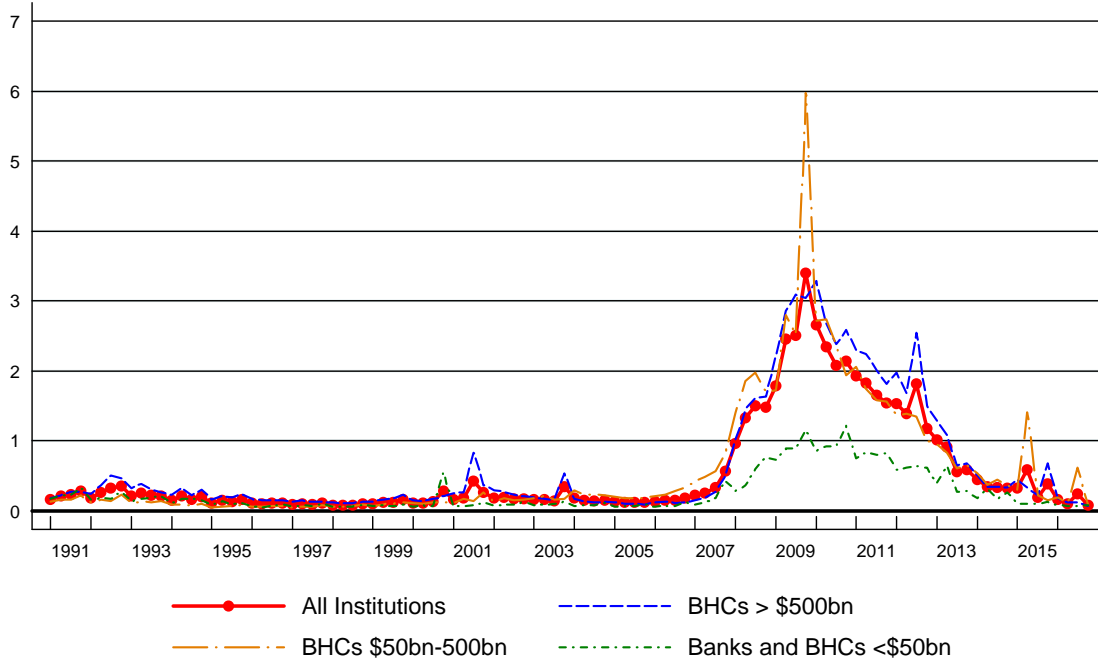
Net Charge-offs

Annualized net charge-offs as % of total loans



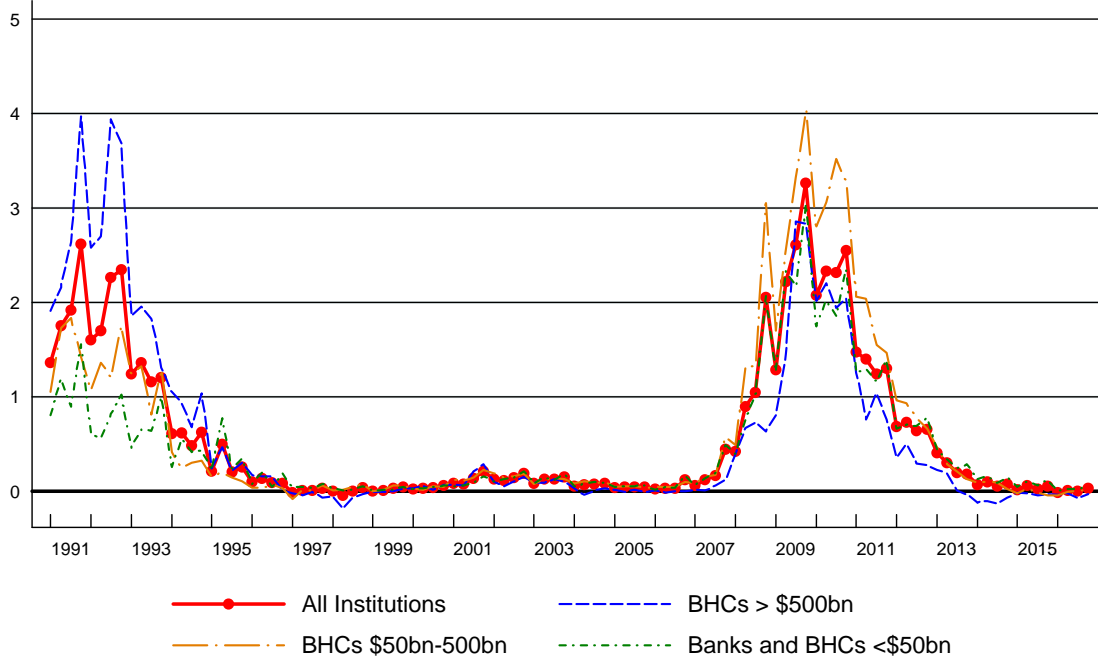
Net Charge-offs on Residential Real Estate Loans

Annualized net charge-offs on residential real estate loans as % of residential real estate loans



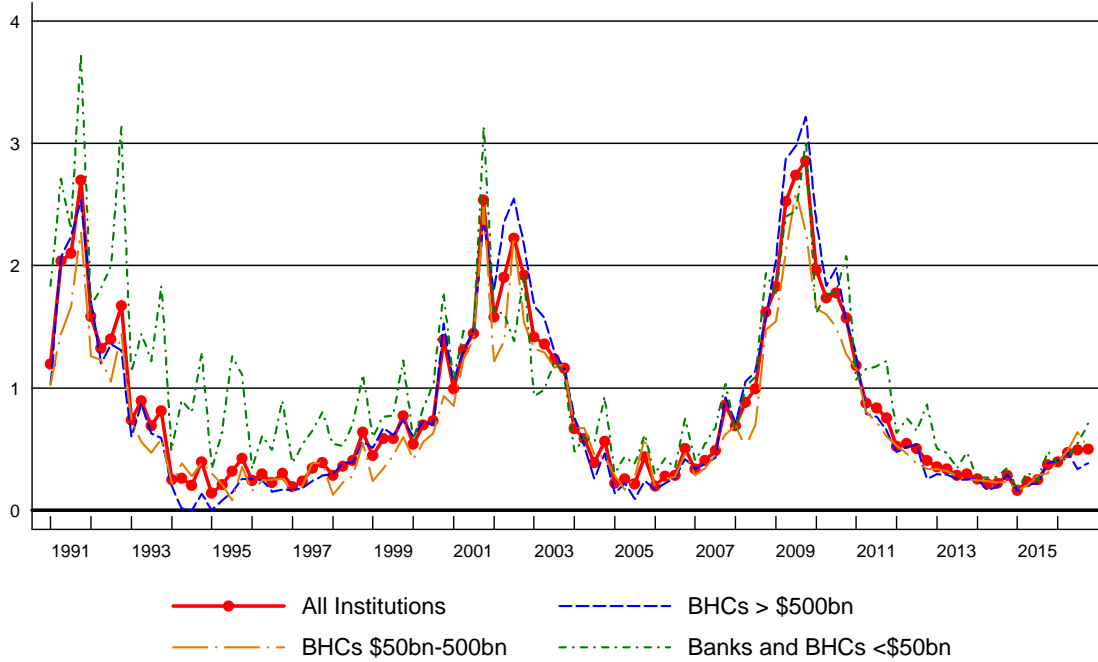
Net Charge-offs on Commercial Real Estate Loans

Annualized net charge-offs on commercial real estate loans as % of commercial real estate loans



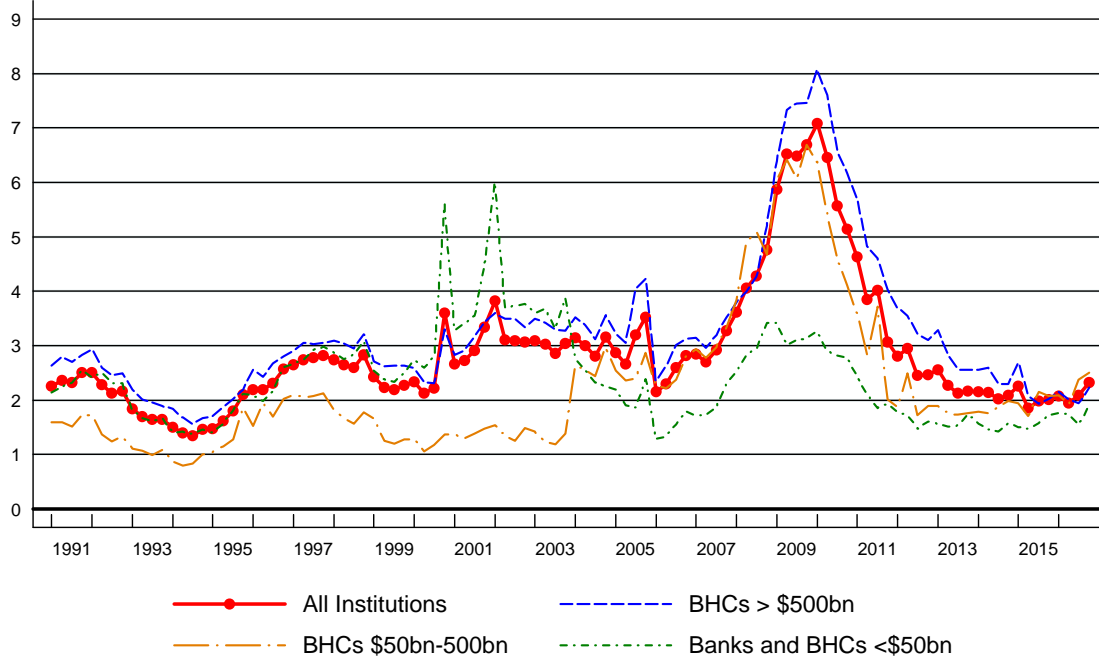
Net Charge-offs on Commercial and Industrial (C&I) Loans

Annualized net charge-offs on C&I loans as % of C&I loans



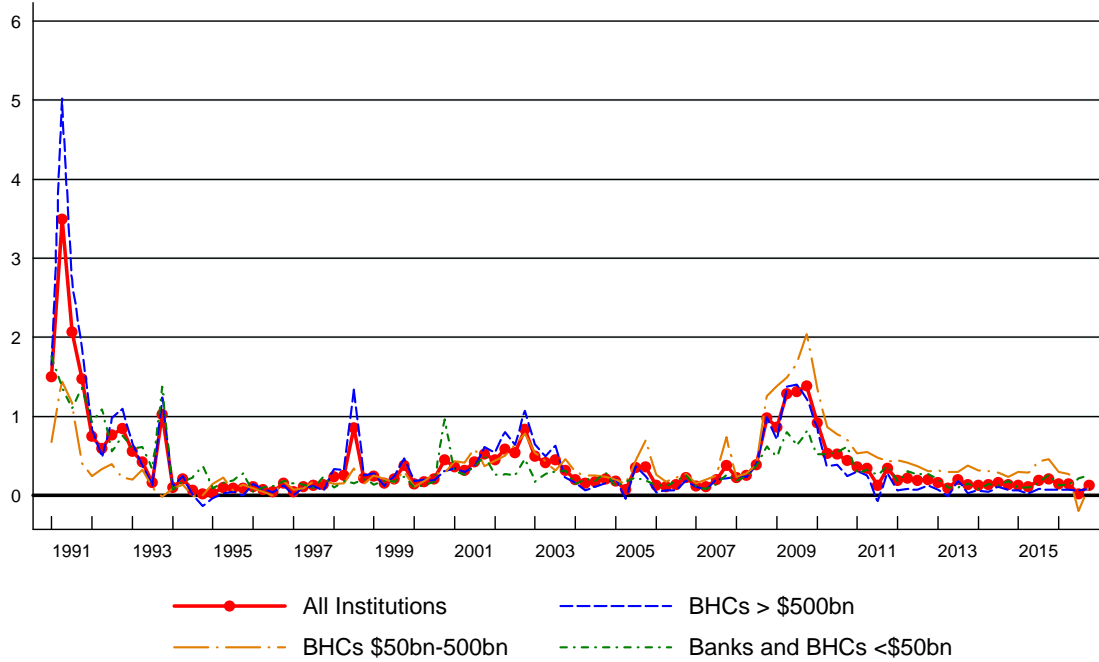
Net Charge-offs on Consumer Loans

Annualized net charge-offs on consumer loans as % of consumer loans



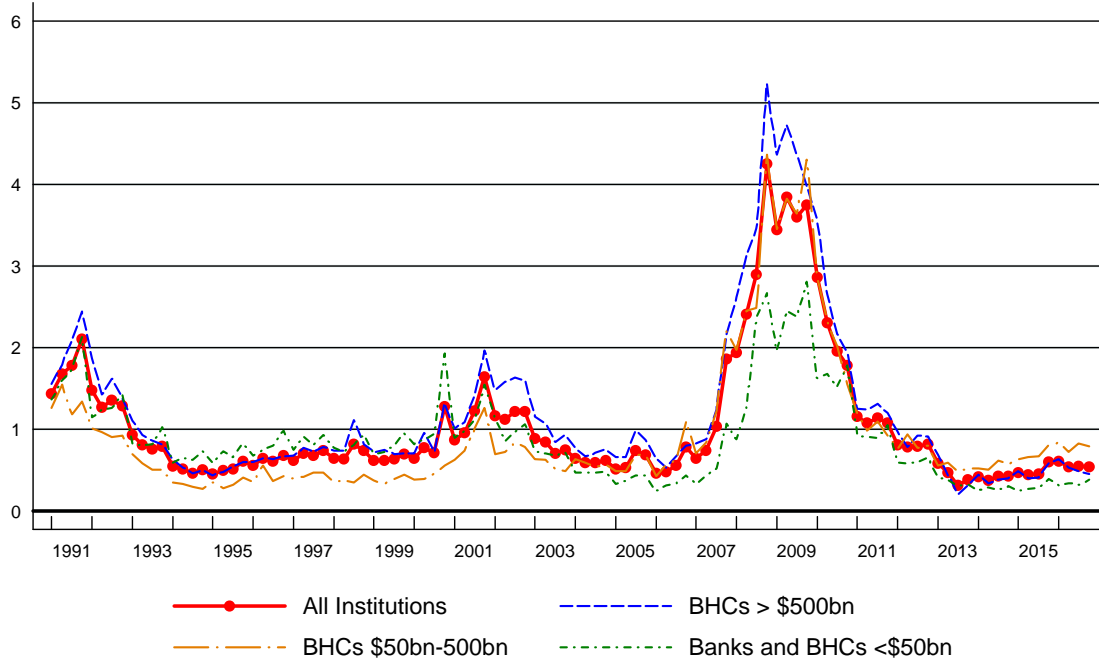
Net Charge-offs on Other Loans

Annualized net charge-offs on other loans as % of other loans



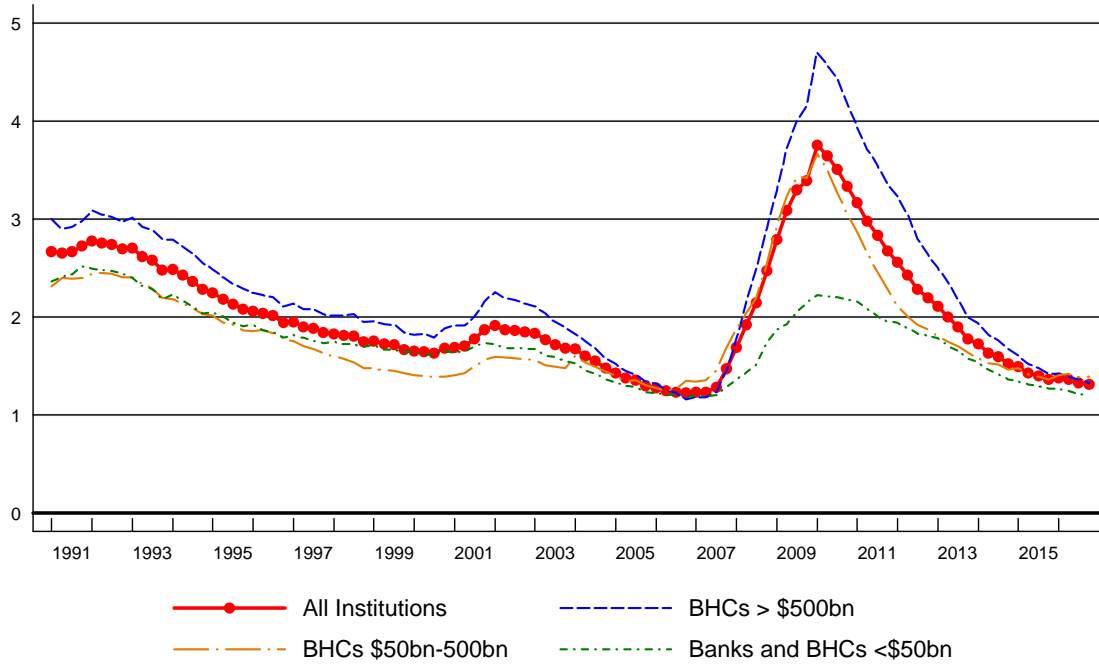
Loan Loss Provisions

Annualized loan loss provisions as % of total loans

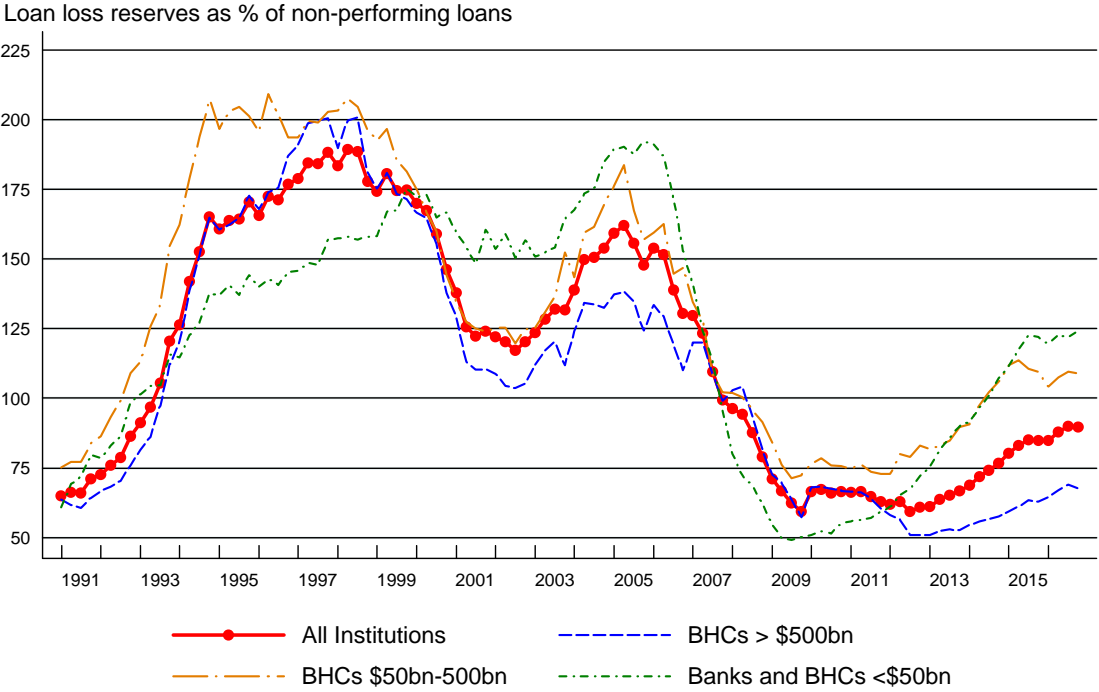


Loan Loss Reserves

Loan Loss Reserves as % of total loans



Loan Loss Reserves, Percent of Non-performing Loans

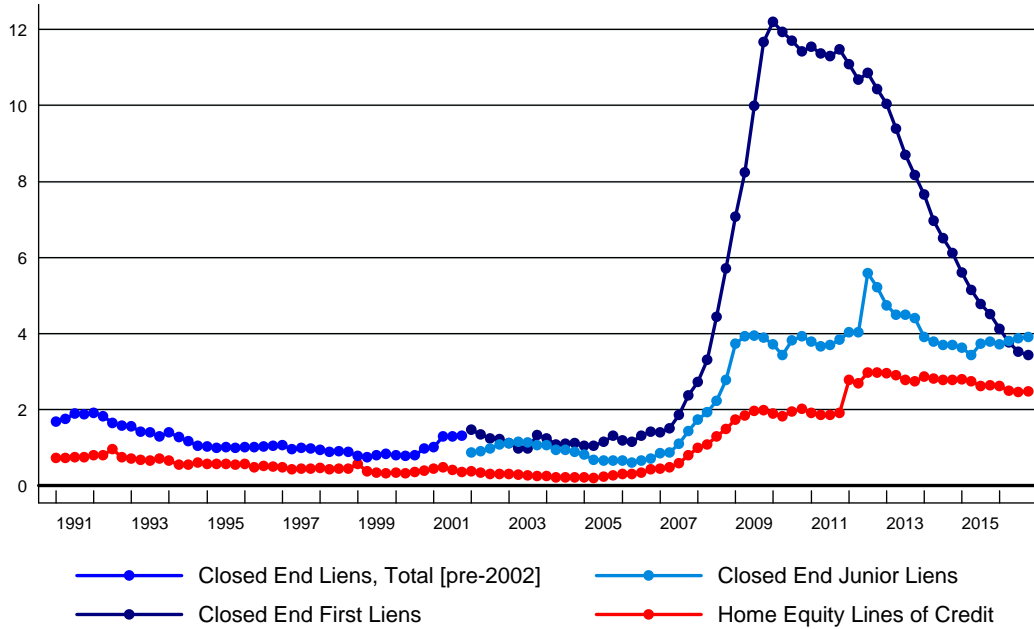


4. Loan Performance: Detail

A. Residential Real Estate Loans

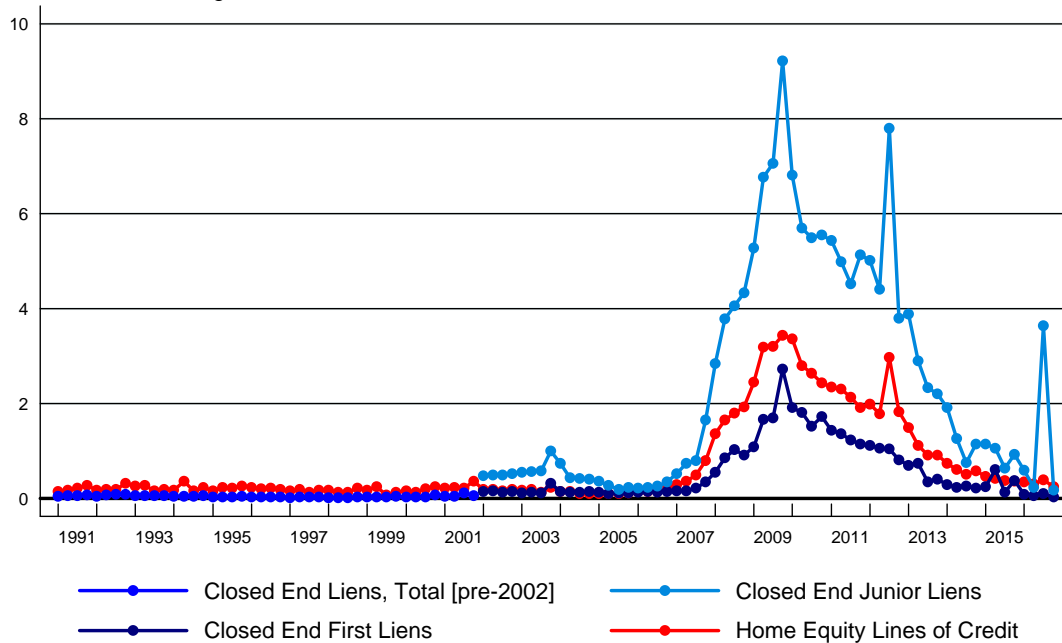
Non-performing Residential Real Estate Loans, Detail

Total non-performing residential real estate loans as % of total residential real estate loans



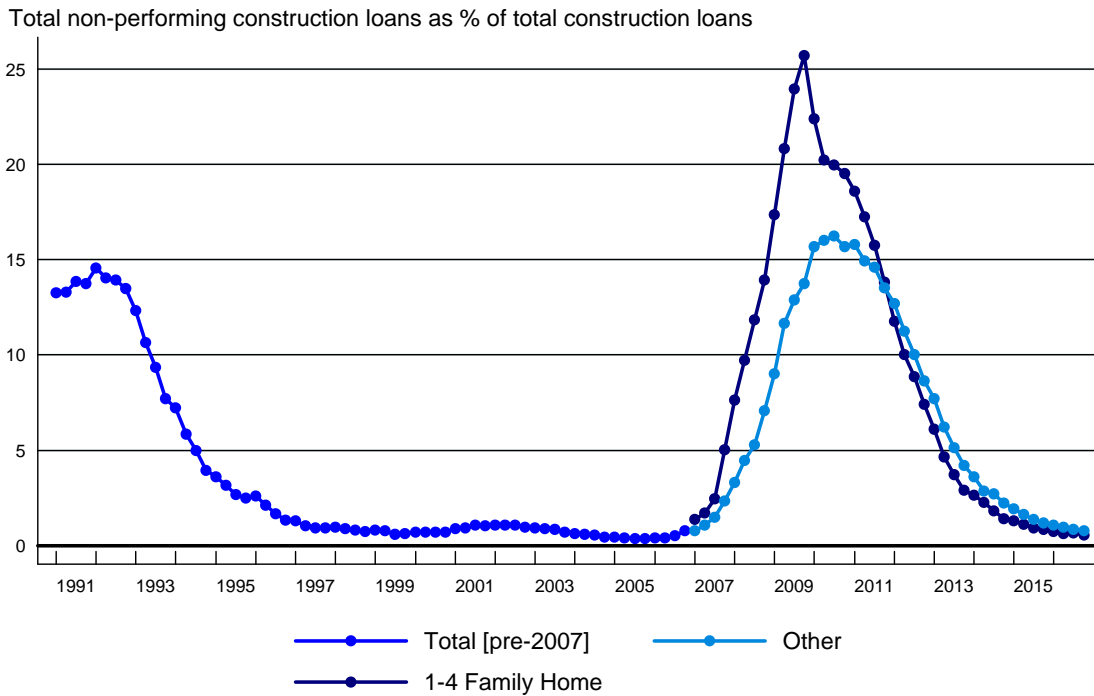
Net Charge-offs on Residential Real Estate Loans, Detail

Annualized net charge-offs on residential real estate loans as % of total residential real estate loans

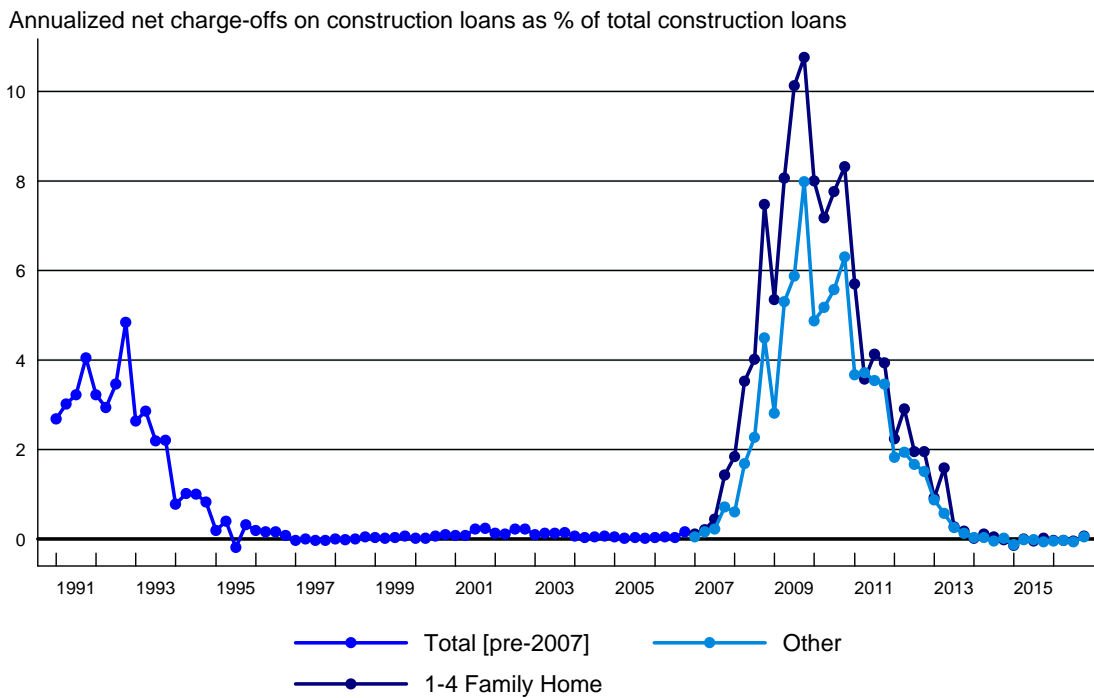


B. Commercial Real Estate Loans

Non-performing Construction Loans, Detail

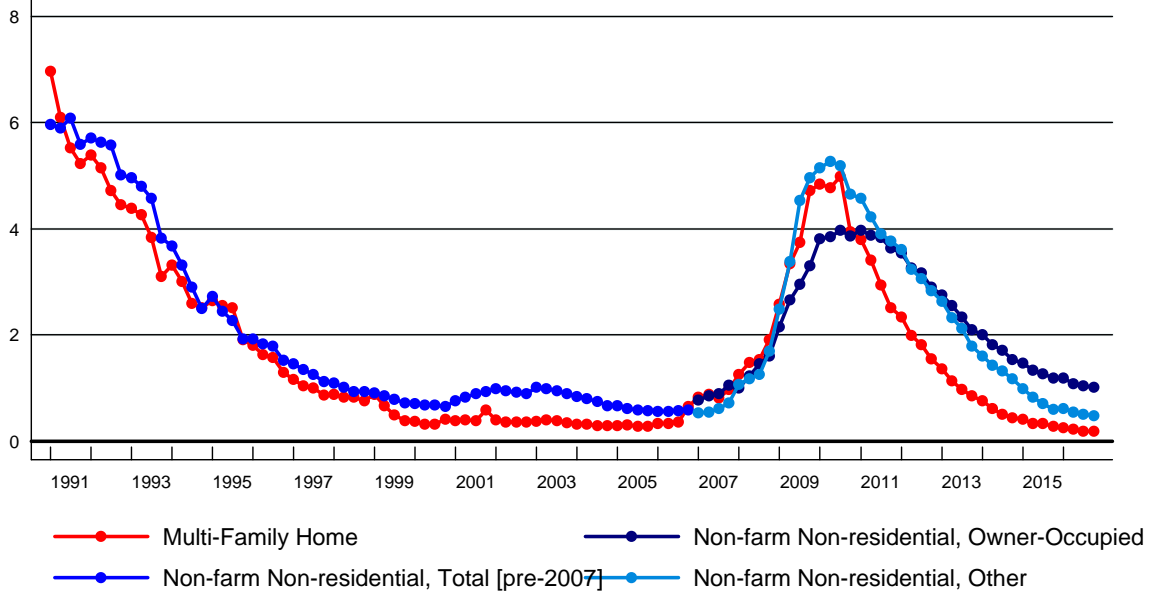


Net Charge-offs on Construction Loans, Detail



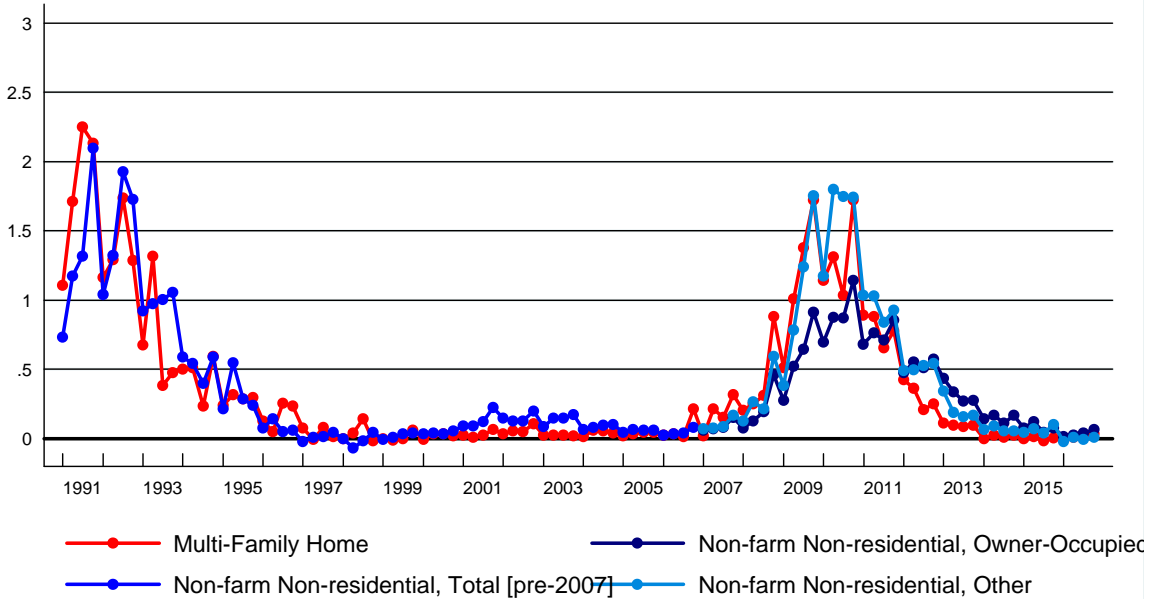
Non-performing Non-Farm, Other Domestic Real Estate Loans, Detail

Total non-performing non-farm, other domestic real estate loans as % of total non-farm, other domestic real estate loans



Net Charge-offs on Non-Farm, Other Domestic Real Estate Loans, Detail

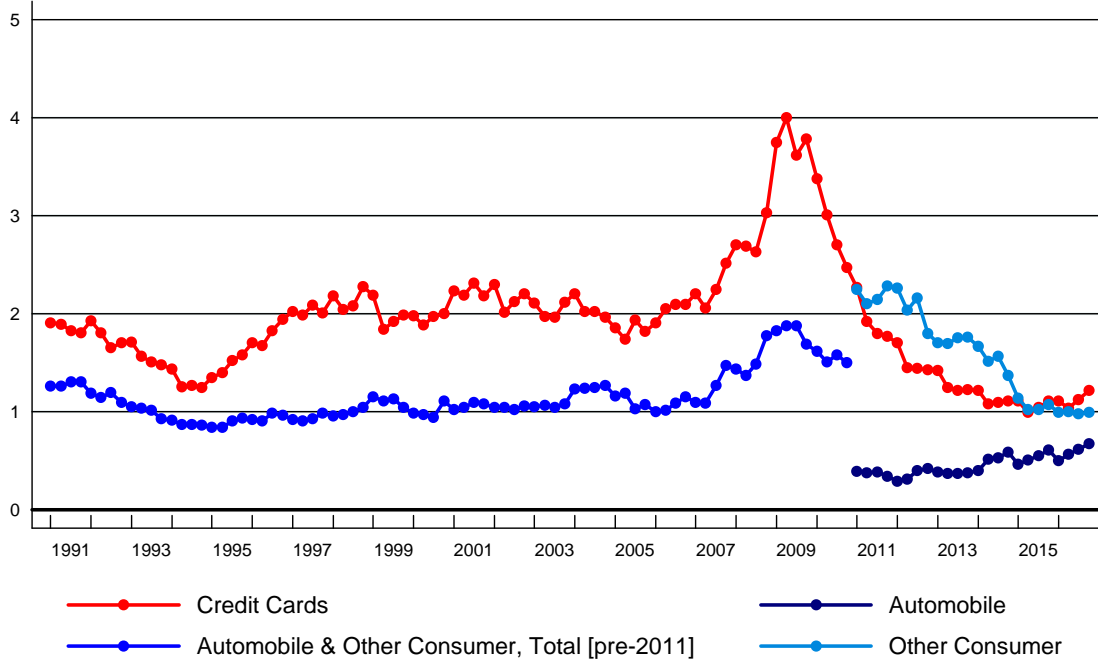
Annualized net charge-offs on non-farm, other domestic real estate loans as % of total non-farm, other domestic real estate loans



C. Consumer Loans

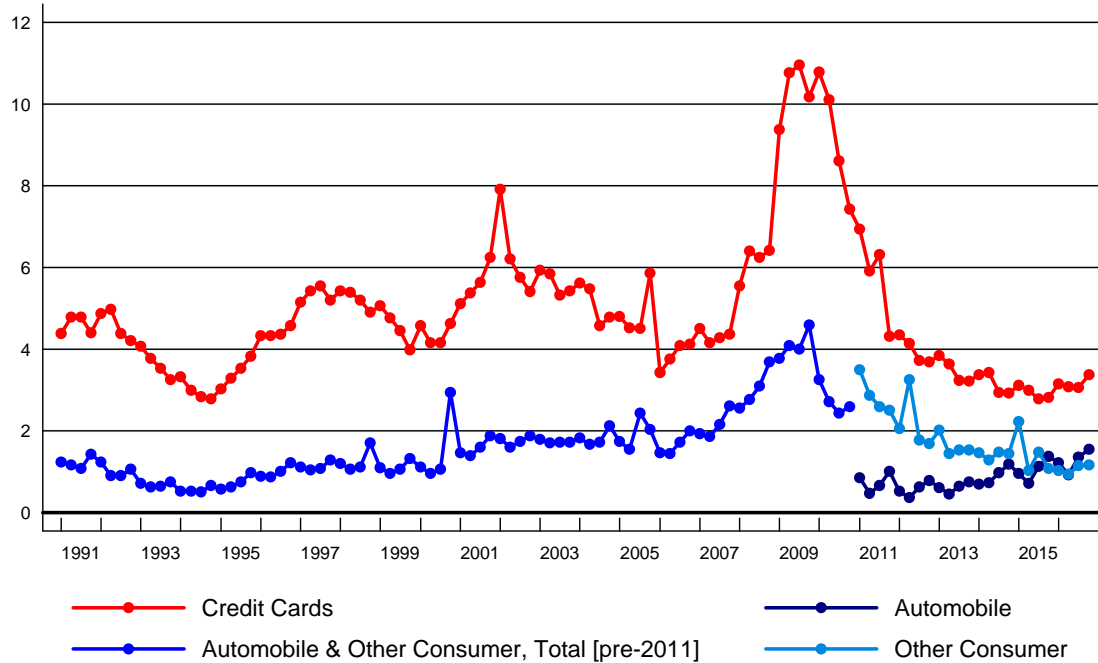
Non-performing Consumer Loans, Detail

Total non-performing consumer loans as % of total consumer loans



Net Charge-offs on Consumer Loans, Detail

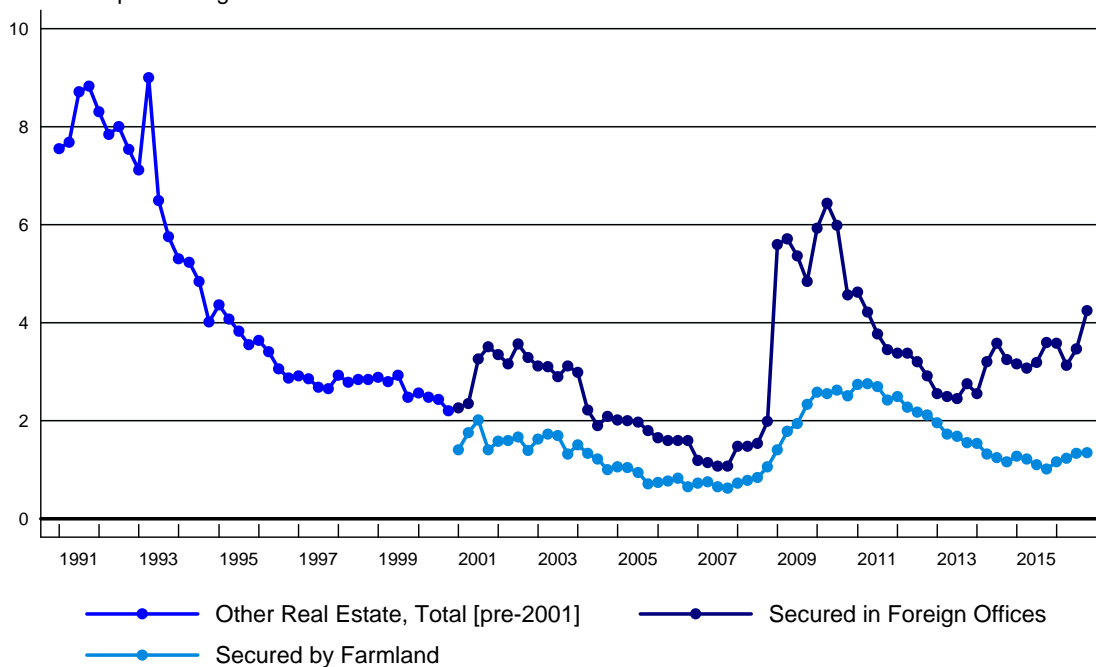
Annualized net charge-offs on consumer loans as % of total consumer loans



D. All Other Loans

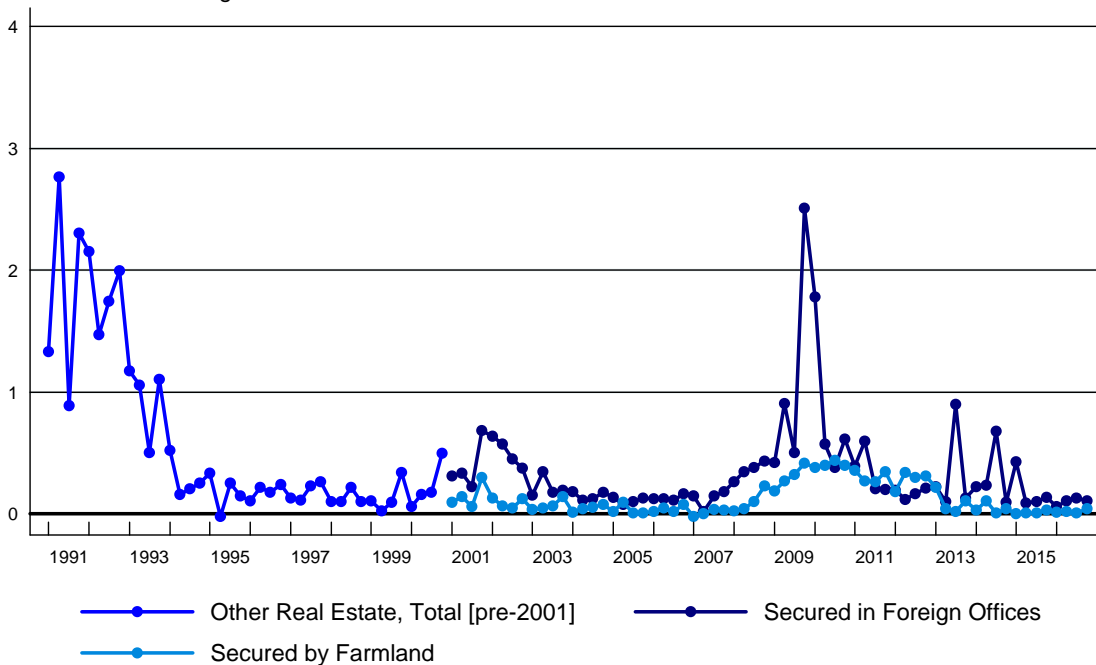
Non-performing Other Real Estate Loans, Detail

Total non-performing other real estate loans as % of total other real estate loans



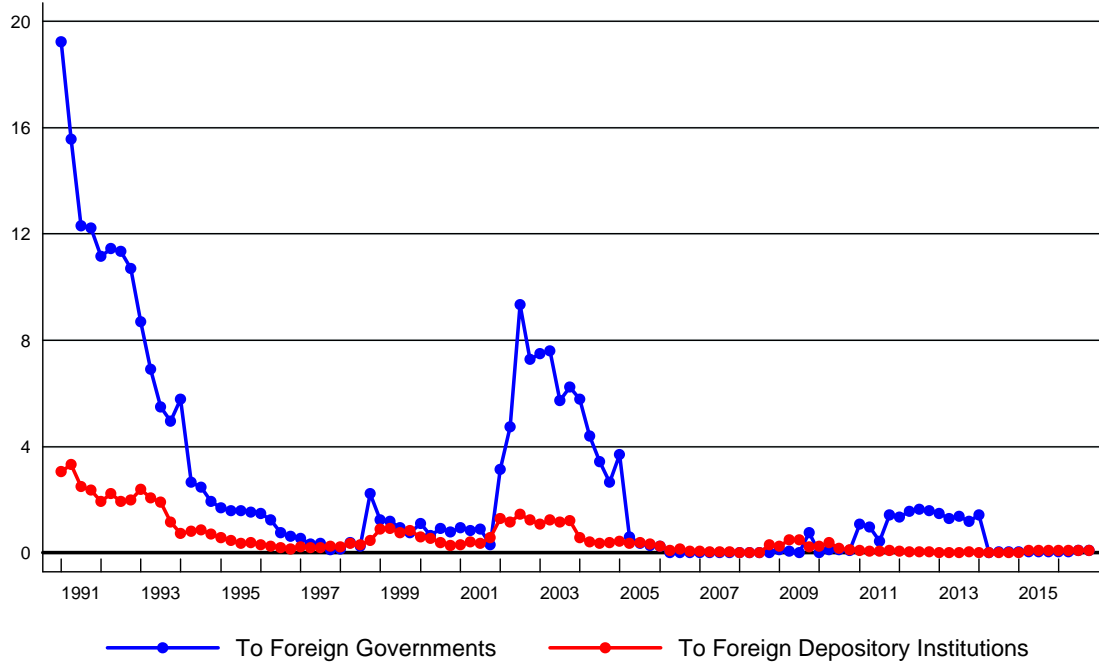
Net Charge-offs on Other Real Estate Loans, Detail

Annualized net charge-offs on other real estate loans as % of total other real estate loans



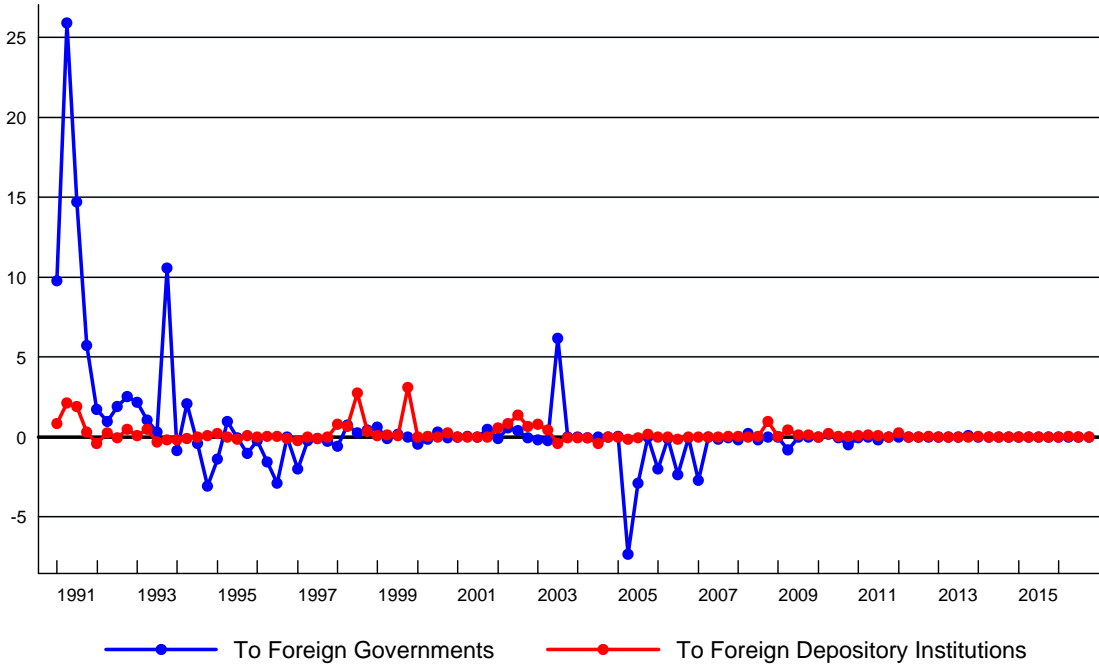
Non-performing Loans to Foreign Institutions

Total non-performing loans to foreign institutions as % of total loans to foreign institutions

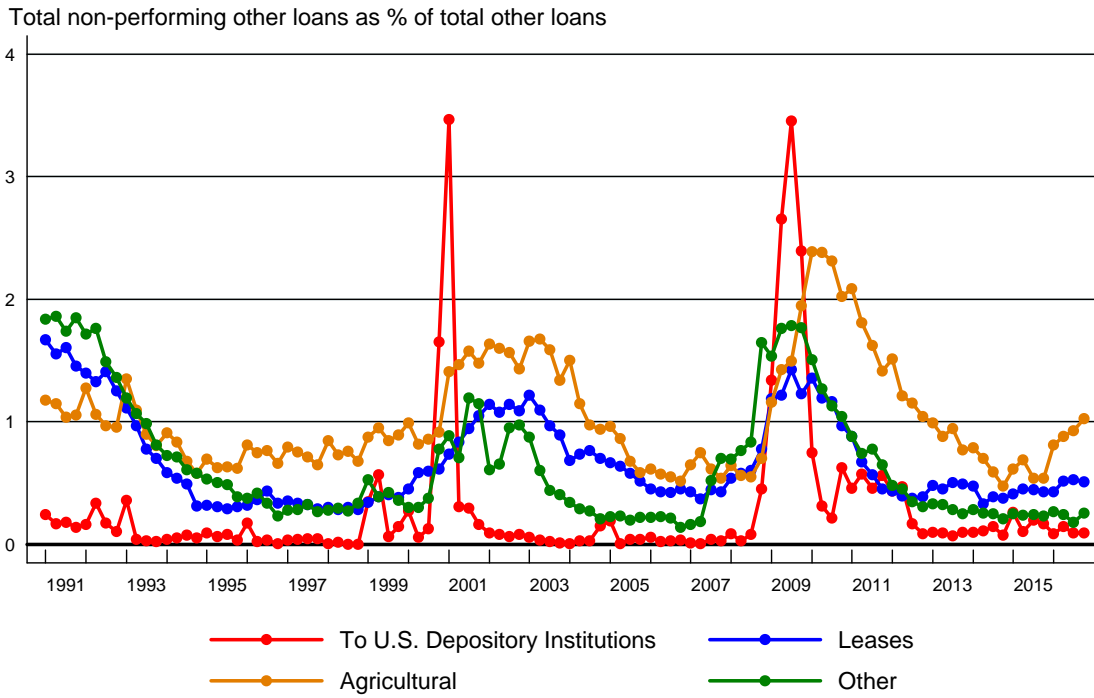


Net Charge-offs on Loans to Foreign Institutions

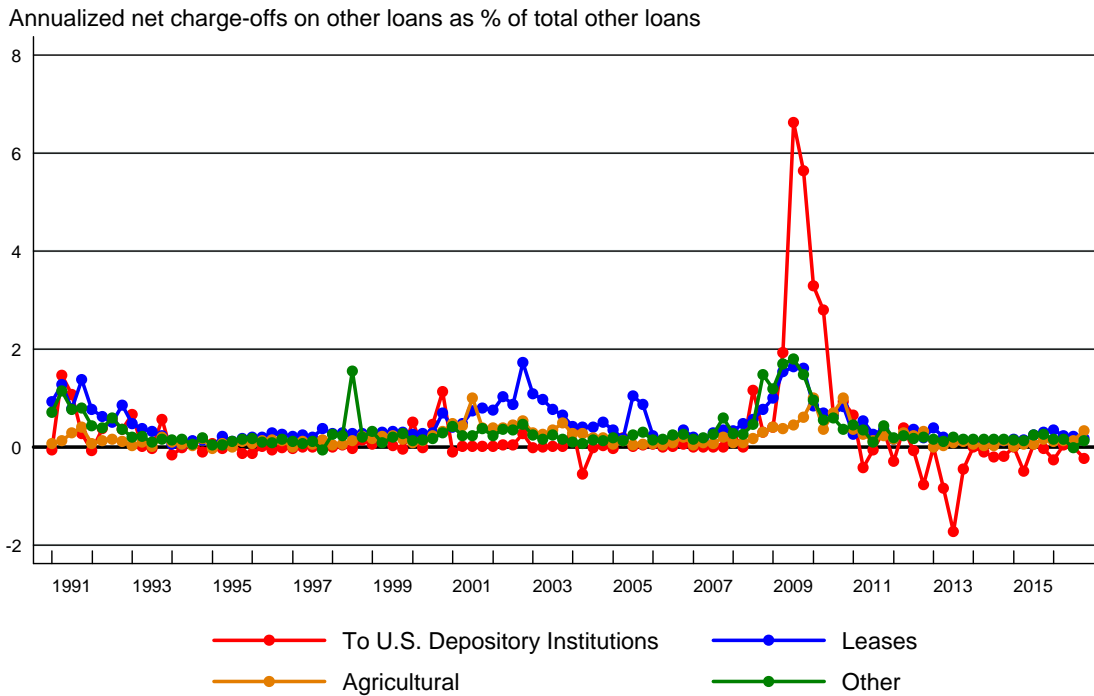
Annualized net charge-offs on loans to foreign institutions as % of total loans to foreign institutions



Non-performing Other Loans, Detail



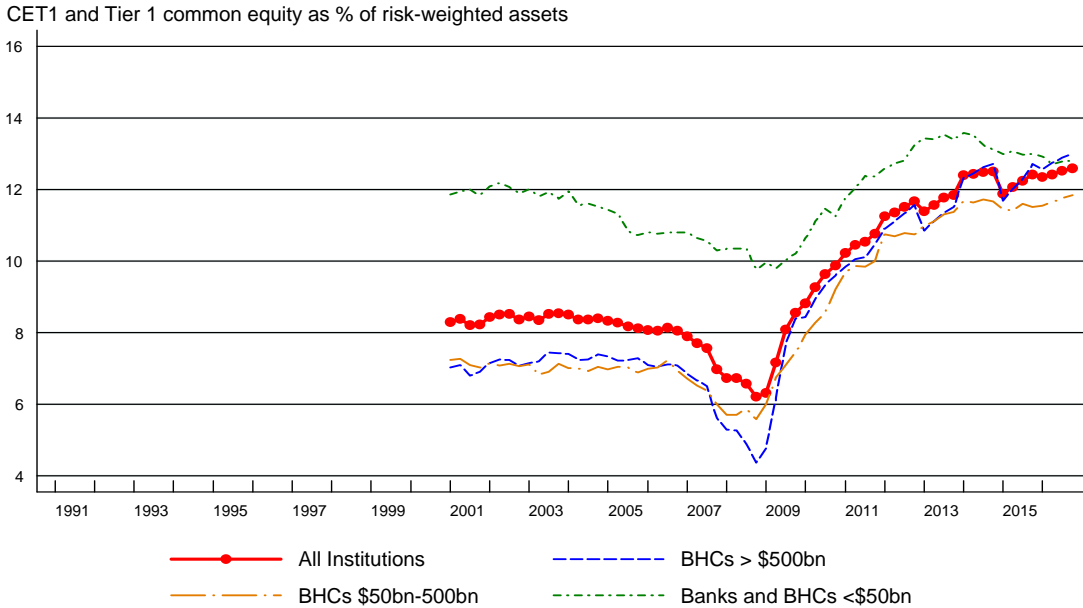
Net Charge-offs on Other Loans, Detail



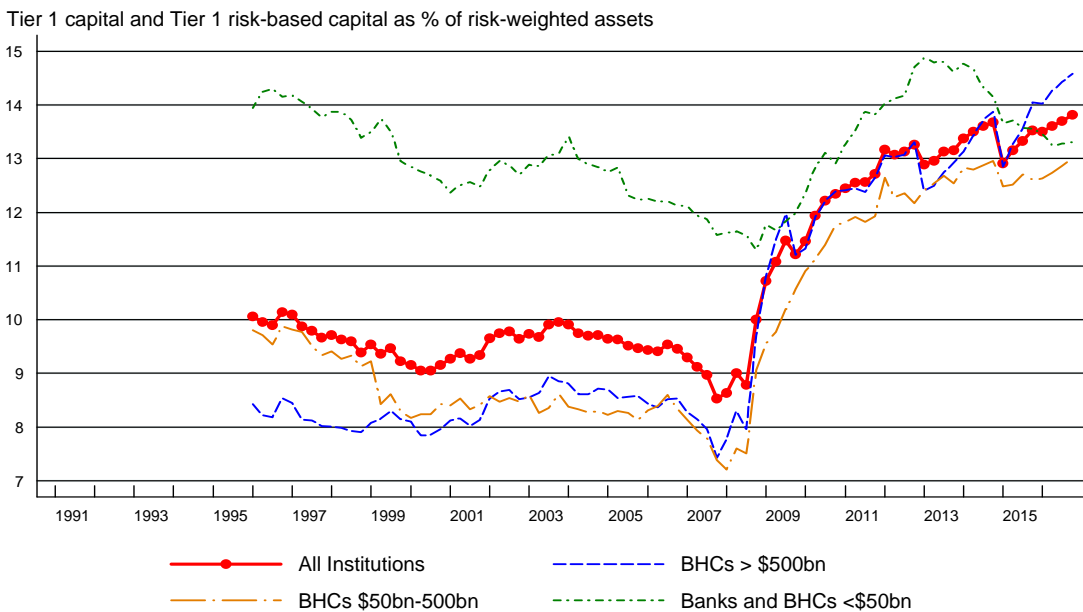
5. Capital Adequacy and Asset Growth

Notes: CET1, tier 1 and total capital is reported instead of the components of tier 1 common equity and tier 1 and total risk-based capital by advanced approaches firms starting in 2014:Q1, and by other firms starting in 2015:Q1, causing series breaks in those quarters. Changes in the measurement of RWA starting in 2013:Q1 and 2015:Q1 also affect measurement of risk-weighted capital ratios and the ratio of RWA to total assets starting in those quarters. See "Caveats and Limitations" for details.

CET1 and Tier 1 Common Equity Ratio

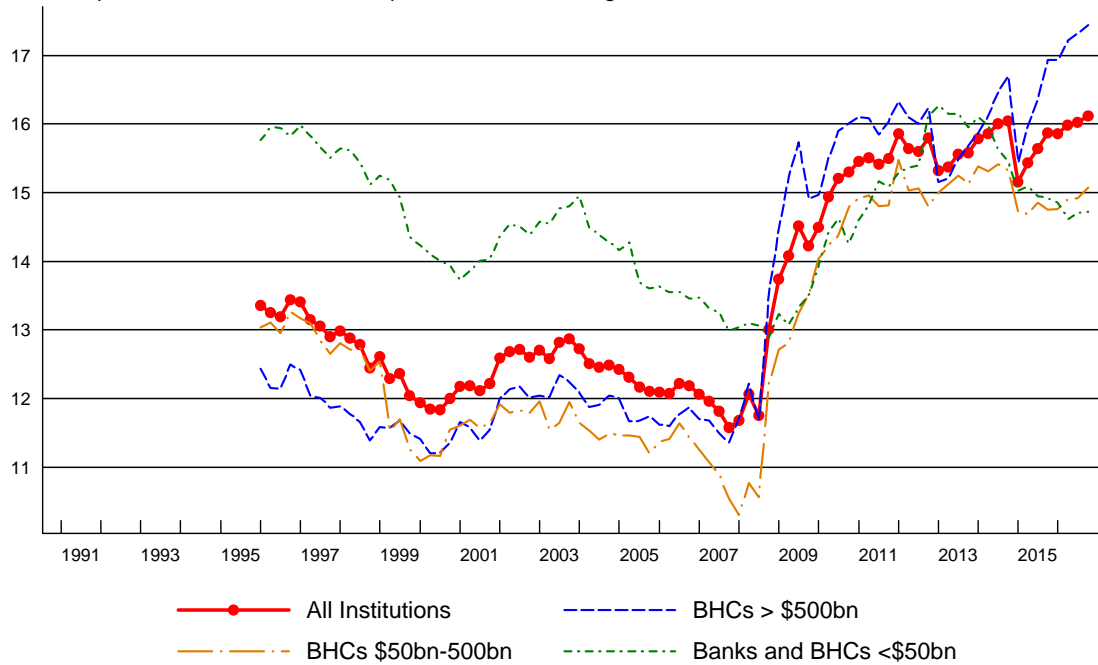


Tier 1 Capital Ratio



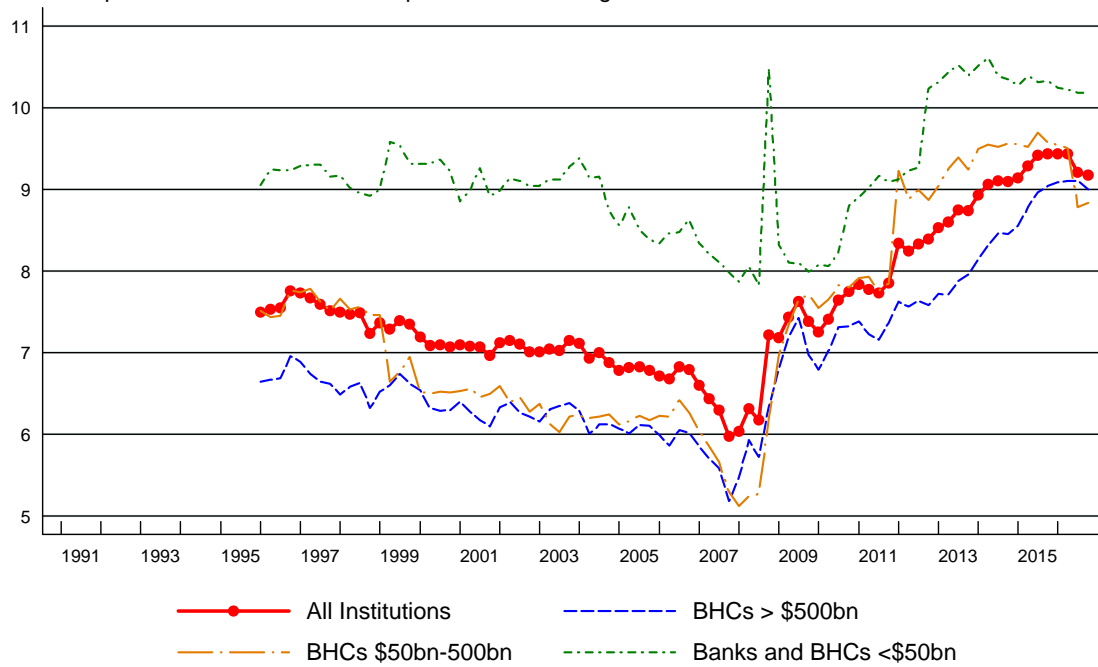
Total Capital Ratio

Total capital and Total risk-based capital as % of risk-weighted assets



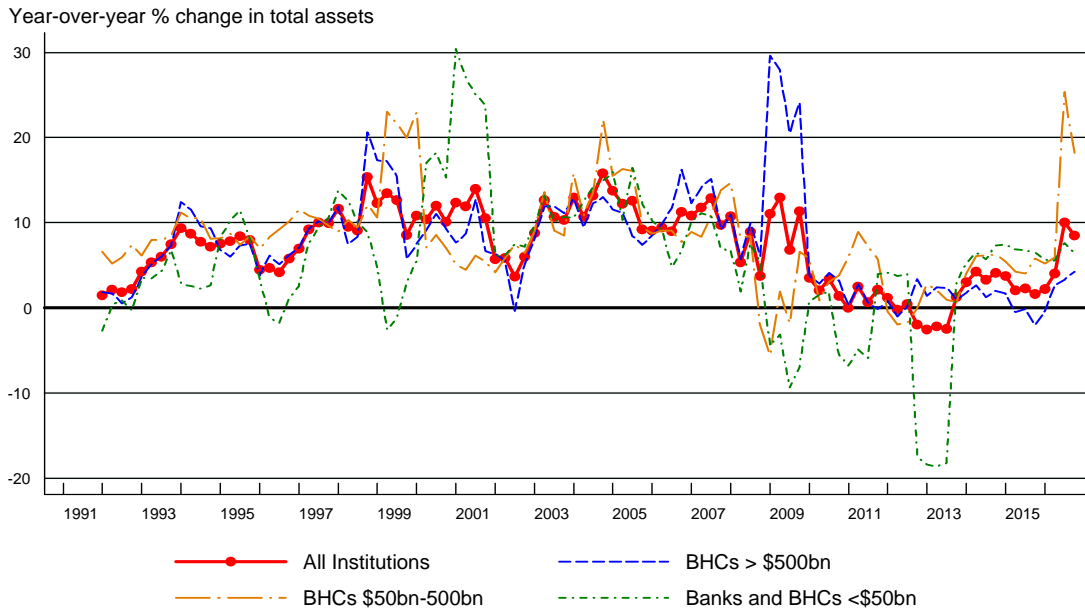
Leverage Ratio

Tier 1 capital and Tier 1 risk-based capital as % of average total assets

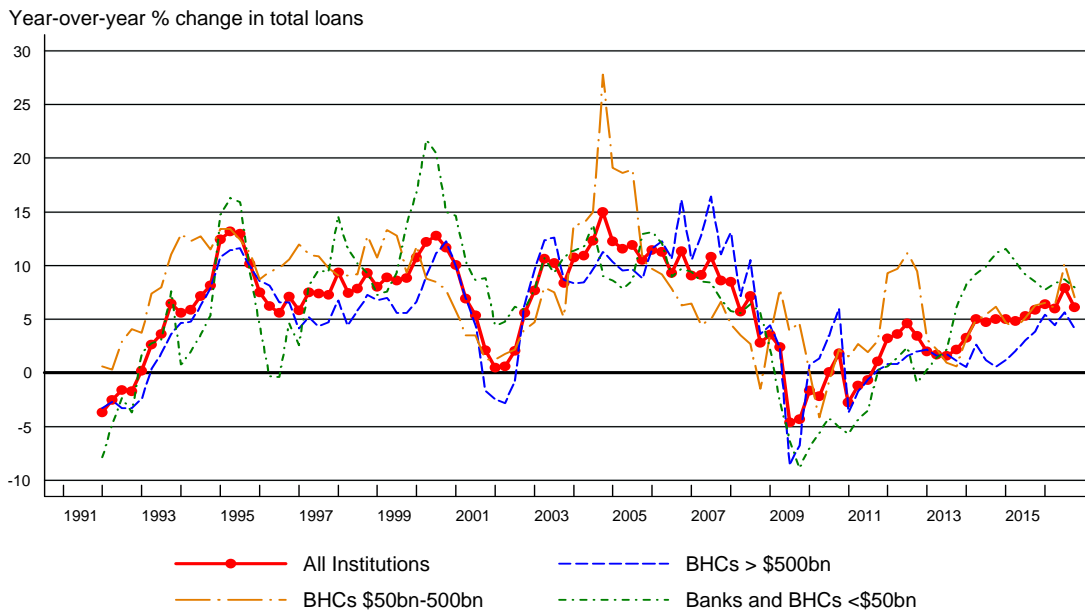


Note: Asset, loan and deposit growth rates presented below are affected by mergers with nonbanking firms and conversions to and from a BHC charter. This particularly affects the year-over-year growth rate for assets between 2009:Q1 and 2009:Q4, due to the entry of several new BHCs in 2009:Q1. Asset growth is also elevated by approximately 4% starting in 2016:3 due to the entry of several IHCs into the data sample. See "Caveats and Limitations" for details.

Asset Growth Rate

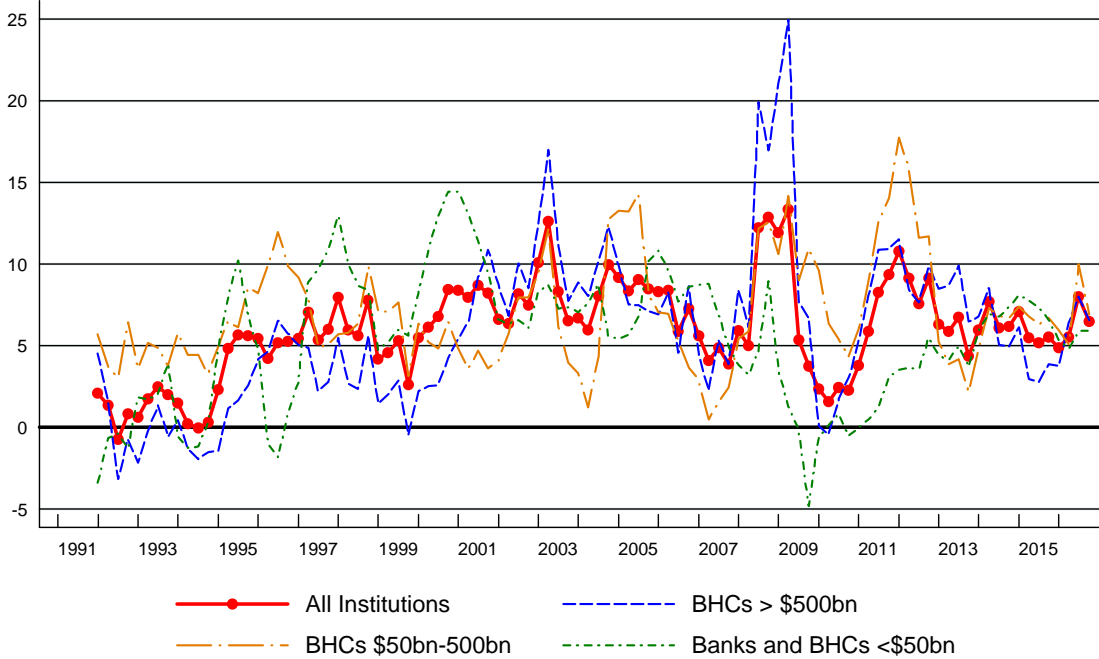


Loan Growth Rate



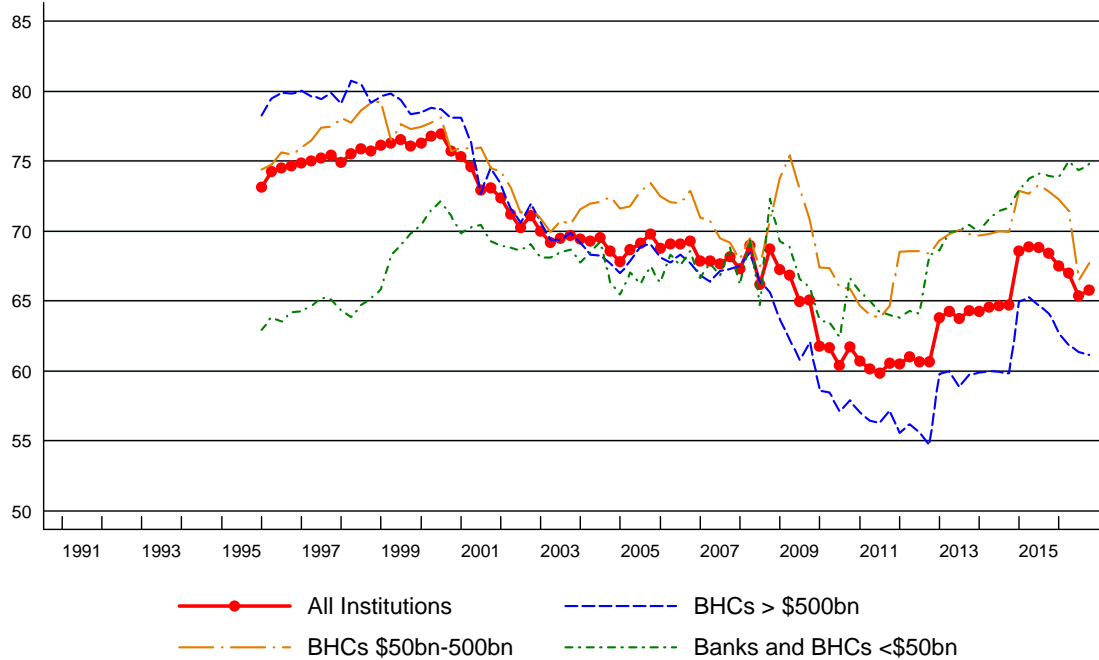
Domestic Deposit Growth Rate

Year-over-year % change in domestic deposits



Risk-Weighted Assets Ratio

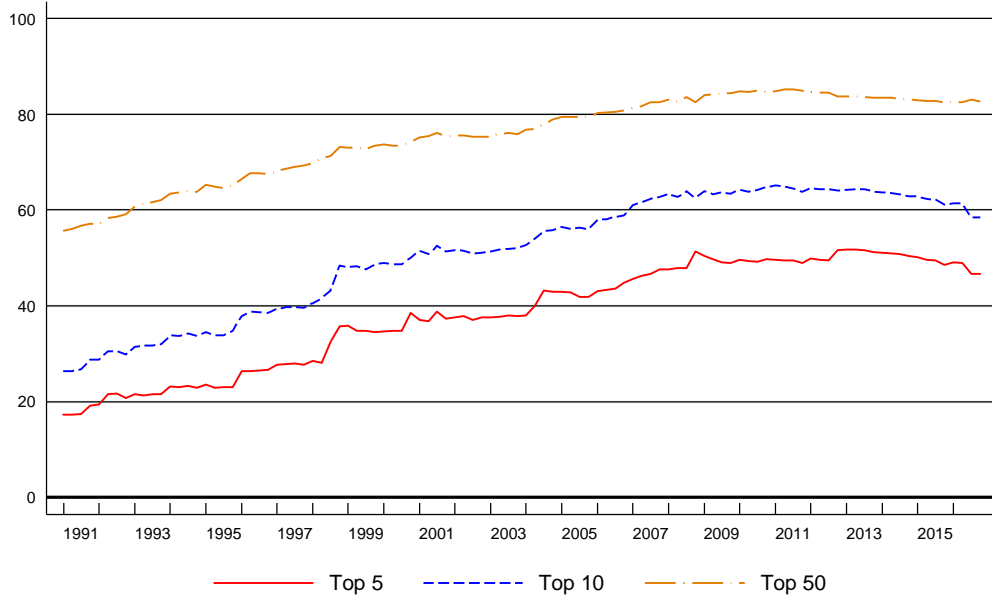
Risk-weighted assets as % of total assets



Note: Chart starts in 1996:Q1 because data for risk-weighted assets are not reported prior to that date. Values of the ratio are affected by changes in the definition of risk weighted assets over time, particularly in 2013:Q1 and 2015:Q1. See "Caveats and Limitations" for details.

Industry Concentration

Assets of the 5, 10, and 50 largest firms as % of total industry assets



6. Consolidated Financial Statistics for the Fifty Largest BHCs

Rank	Name of Institution	Total Assets (Bil USD)	Quarterly Net Income (Mil USD)	Profitability		Capital Adequacy Ratios (%)			Advanced Approaches Firm
				Annualized Return on Assets	Annualized Return on Equity	CET1 Ratio	Tier 1 Capital Ratio	Total Capital Ratio	
1	JPMORGAN CHASE & CO	2,491.0	6,727.0	1.08	10.59	12.49	14.21	16.35	Yes
2	BANK OF AMER CORP	2,189.3	4,696.0	0.86	7.04	12.07	13.60	16.31	Yes
3	WELLS FARGO & CO	1,930.1	5,274.0	1.09	10.57	11.13	12.82	16.08	Yes
4	CITIGROUP	1,792.1	3,573.0	0.80	6.35	14.86	15.84	19.08	Yes
5	GOLDMAN SACHS GROUP THE	860.2	2,347.0	1.09	10.80	14.51	16.60	19.83	Yes
6	MORGAN STANLEY	814.9	1,666.0	0.82	8.76	17.75	20.02	23.20	Yes
7	U S BC	446.0	1,478.0	1.33	12.50	9.41	11.00	13.22	Yes
8	PNC FNCL SVC GROUP	366.9	1,026.0	1.12	8.98	10.58	12.01	14.31	Yes
9	CAPITAL ONE FC	357.2	791.5	0.89	6.66	10.08	11.61	14.28	Yes
10	TD GRP US HOLDS LLC	343.9	414.8	0.48	4.23	13.60	13.67	14.83	Yes
11	BANK OF NY MELLON CORP	333.5	870.0	1.04	8.97	12.25	14.54	15.19	Yes
12	HSBC N AMER HOLDS	277.8	21.2	0.03	0.27	17.95	20.08	25.26	Yes
13	STATE STREET CORP	242.7	592.9	0.98	11.18	11.64	14.74	15.99	Yes
14	BB&T CORP	219.3	636.3	1.16	8.52	10.25	11.98	14.12	No
15	CREDIT SUISSE HOLD USA	214.1	-2,077.2	-3.88	-33.18	19.02	19.02	19.10	No
16	SUNTRUST BK	205.2	464.4	0.91	7.90	9.59	10.28	12.26	No
17	BARCLAYS US LLC	204.5	245.0	0.48	6.49	11.32	12.46	15.01	No
18	DB USA CORP	186.6	-1,016.0	-2.18	-41.75	15.14	19.23	19.33	No
19	ALLY FNCL	163.7	248.0	0.61	7.45	9.37	10.93	12.57	No
20	AMERICAN EXPRESS CO	158.9	827.0	2.08	16.14	12.31	13.48	15.18	Yes
21	CITIZENS FNCL GRP	150.0	281.5	0.75	5.70	11.16	11.36	14.01	No
22	MUFG AMERS HOLDS CORP	148.1	334.1	0.90	7.75	14.77	14.77	16.45	No
23	FIFTH THIRD BC	142.2	388.8	1.09	9.60	10.39	11.50	15.02	No
24	RBC USA HOLDCO CORP	141.9	140.3	0.40	4.04	16.41	16.41	17.72	No
25	UBS AMERS HOLD LLC	138.7	-3.7	-0.01	-0.06	22.86	22.86	24.27	No
26	SANTANDER HOLDS USA	137.4	9.6	0.03	0.19	14.51	16.14	18.00	No
27	KEYCORP	136.8	229.2	0.67	6.02	9.54	10.89	12.85	No
28	BNP PARIBAS USA	132.5	187.6	0.57	4.29	12.27	12.43	14.38	No
29	BMO FNCL CORP	128.1	180.2	0.56	4.46	12.53	12.76	15.69	No
30	REGIONS FC	126.2	295.6	0.94	7.10	11.21	11.98	14.15	No
31	NORTHERN TR CORP	123.9	266.5	0.86	10.91	11.77	12.94	14.54	Yes
32	M&T BK CORP	123.4	330.6	1.07	8.02	10.70	11.92	14.09	No
33	HUNTINGTON BSHRS	99.7	239.0	0.96	9.27	9.56	10.92	13.05	No
34	DISCOVER FS	92.3	562.9	2.44	19.89	13.22	13.92	15.54	No
35	BBVA COMPASS BSHRS	87.1	89.0	0.41	2.80	11.49	11.85	14.31	No
36	COMERICA	73.1	163.9	0.90	8.41	11.09	11.09	13.27	No
37	CIT GROUP	64.2	-1,154.6	-7.20	-46.08	14.03	14.03	14.76	No
38	ZIONS BC	63.2	137.4	0.87	7.20	12.07	13.49	15.24	No
39	NEW YORK CMNTY BC	48.9	113.7	0.93	7.43	10.62	10.62	12.12	No
40	SVB FNCL GRP	44.7	99.5	0.89	10.92	12.80	13.26	14.21	No
41	PEOPLES UNITED FNCL INC	40.6	75.9	0.75	5.90	9.86	10.66	12.45	No
42	MIZUHO AMERS LLC	39.2	-38.0	-0.39	-3.89	17.51	17.51	17.53	No
43	POPULAR	38.7	-4.0	-0.04	-0.31	16.48	16.48	19.48	No
44	EAST WEST BC	34.8	110.7	1.27	12.92	10.88	10.88	12.43	No
45	BOK FC	33.1	50.0	0.60	6.11	11.21	11.21	12.81	No
46	FIRST CITIZENS BSHRS	33.0	52.7	0.64	7.00	12.42	12.42	13.85	No
47	RAYMOND JAMES FNCL	31.7	147.8	1.87	11.64	21.16	21.16	22.15	No
48	CULLEN/FROST BKR	30.2	83.7	1.11	11.15	12.52	13.33	14.93	No
49	SYNOVUS FC	30.1	68.6	0.91	9.37	9.96	10.07	12.01	No
50	ASSOCIATED BANC-CORP	29.1	54.8	0.75	7.10	9.52	10.27	12.68	No
TOTALS*	TOP 50	16,340.9	32,298.1	0.79	7.07	12.55	13.94	16.46	
	ALL INSTITUTIONS (BHCS AND BANKS)	19,831.0	40,825.6	0.82	7.37	12.60	13.82	16.11	

*For the industry net income and capital adequacy ratios, we sum the numerator and denominator across individual firms and then compute ratios.

Notes and Caveats

Methodology

The data used to construct the statistics in this report are drawn from the quarterly Consolidated Financial Statements for Bank Holding Companies (FR Y-9C), and Consolidated Reports of Condition and Income for commercial banks (FFIEC 031 and 041). Reported statistics are defined in a time-consistent way across reporting form vintages.

To calculate the “all institutions” quarterly series, we aggregate the data for top-tier holding companies, including US bank holding companies (BHCs), Intermediate Holding Company (IHC) subsidiaries of foreign banking organizations,³ commercial banks owned by BHCs that are too small to file Y-9C reports (the current reporting threshold is \$1bn of total assets), and unaffiliated (stand-alone) commercial banks not owned by a BHC. We identify “top-tier” BHCs or IHCs (i.e. the U.S. parent entity) via the National Information Center (NIC, <http://www.ffiec.gov/nicpubweb/nicweb/nichome.aspx>), which provides data on firm attributes and structure. We identify commercial banks that are standalone firms or are owned by small BHCs by identifying all US commercial banks whose high holder does not submit a FR Y-9C report.

Separate statistics are also reported for the subset of BHCs with greater than \$500 billion in total assets, for the subset of BHCs or IHCs with \$50 - \$500 billion in total assets, and for the remainder of the industry. In 2016:Q4, 38 BHCs or IHCs and one nonmember bank exceed \$50 billion in total assets, and 6 BHCs exceed the \$500 billion threshold: JPMorgan Chase, Bank of America, Citigroup, Wells Fargo, Goldman Sachs, and Morgan Stanley. For consistency, time-series graphs for the “> \$500bn” and “\$50-\$500bn” groups represent available historical values for these two sets of firms. Statistics for most firms with more than \$50 billion in total assets are prepared on a pro forma (merger-adjusted) basis; specifically, on the basis that all BHCs acquired by each of these firms over the sample period with US regulatory filings are part of the consolidated BHC from the start of the historical time period. Data values of acquired BHCs are then summed with acquirer data in the period before the acquisition. Merger events are identified using the NIC transformations table maintained by the Federal Reserve Board of Governors. CIT Group, RBC USA, Credit Suisse Holdings, UBS Americas, Barclays US and First Republic Bank are the only entities with >\$50bn in assets not adjusted using the pro forma methodology. After constructing the pro forma series for each firm, we aggregate the data to create the “BHCs > \$500bn” and the “BHCs \$50-\$500bn” series. Finally, the “all other banks and BHCs” quarterly series is constructed by subtracting the “BHCs > \$500bn” and “BHCs \$50-\$500bn” series from the “all institutions” series.

³ The term “foreign-banking organization” generally refers to a foreign bank that (1) operates a branch, agency, or commercial lending company subsidiary in the United States; (2) controls a bank in the United States; or (3) controls an Edge corporation acquired after March 5, 1987. The term also includes any company of which such a foreign bank is a subsidiary. See 12 C.F.R. § 211.11(o).

Caveats and Limitations

Statistics in this report are presented “as is”, based on calculations conducted by Federal Reserve Bank of New York research staff. While significant efforts have been made to ensure accuracy, the statistics presented here may be subject to future revision, for example because of changes or improvements in the “pro forma” methodology used to calculate statistics for industry subgroups.

We highlight a number of important limitations of the statistics presented here:

- Statistics exclude financial firms that are not either commercial banks or part of a commercial bank holding company or IHC. This creates discontinuities in the time-series graphs when nonbanking firms are acquired or sold by banks or BHCs, or when firms switch to or from a bank or BHC charter. For example, in 2009:Q1, Goldman Sachs, Morgan Stanley, Ally Financial, and American Express each began filing a FR Y-9C due to the conversion of each of these firms to a commercial banking holding company charter. This largely accounts for the sharp 13% increase in total measured industry assets in 2009:Q1, and a corresponding discontinuous upward shift in the industry asset growth rate during 2009. Similarly, four large IHCs enter the data sample in 2016:Q3 (Credit Suisse Holdings, Deutsche Bank USA, UBS Americas, and Barclays US) and other firms consolidate nonbanking assets under their designated IHC over the course of 2016. This causes industry assets to rise by approximately 4% in 2016:Q3, and has smaller effects on industry assets in earlier quarters.
- For the same reason, only 4 of the 6 BHCs in the BHCs > \$500bn group (described in the methodology section on the previous page) exist in the data for the entire sample period (1991:Q1 to 2016:Q2): JPMorgan Chase, Bank of America, Wells Fargo, and Citigroup. Goldman Sachs and Morgan Stanley enter the sample in 2009:Q1.
- Flow variables in bank and BHC regulatory filings are reported on a year-to-date basis. Quarterly flow variables are derived by “quarterizing” the data, that is, by subtracting the variable at time t-1 from the variable at time t for Q2, Q3, and Q4 of each calendar year. This quarterization procedure can create discontinuities when a bank or BHC enters the sample any time other than in Q1. To account for this, we average the value of flow variables for mid-year entrants using up to four subsequent consecutive quarters of data to generate a usable data point for the quarter of entry. If an institution is in the sample for only one quarter, we drop the flow variables from the firm’s quarter of entry from the sample.

- Due to data limitations, industry statistics exclude nonbank subsidiaries of small BHCs that do not file a FR Y-9C (currently the FR Y-9C is filed only by firms with \$1bn in total assets, although this reporting threshold has changed over time). The effect of this exclusion on industry statistics is expected to be minor, however, since small BHCs generally do not have large nonbank subsidiaries.
- As part of the transition to the Basel III capital framework, during 2014, advanced approaches holding companies commenced filing Part 1.B of schedule HC-R of the Y-9C, and no longer filed Part 1.A of this schedule. (Part 1.A of schedule HC-R was still filed by non-advanced-approaches firms). One consequence of this reporting change was that advanced approaches firms no longer reported the components used to calculate tier 1 common equity, and instead reported common equity tier 1 (CET1). The change in reporting also affected other capitalization measures such as tier 1 capital. This report presents capital ratios that combine the capital reported by firms in Part 1.A and Part 1.B during 2014. It does not attempt to adjust measured capital ratios to account for the methodological differences between these two measures. Beginning in 2015:Q1, all remaining firms began reporting regulatory capital under the Basel III framework. Consequently, Part 1.A of the schedule HC-R has now been retired, and Part 1.B of this schedule has been renamed as Part 1.

In addition, in 2015:Q1 firms commenced reporting risk weighted assets according to Basel III definitions rather than Basel I definitions.

The relevant figures presented in this report represent a combination of Basel I and Basel III capital and risk weighted asset measures, depending on which measure is available for each firm at each point in time. No attempt is made to adjust these measures for comparability. As a result, these series are subject to structural breaks due to the changes in reporting definitions described above. This for example accounts for the sharp increase in the ratio of risk weighted assets to total assets observed in 2015:Q1.

- The implementation of the Basel II.5 US market risk rule in 2013:Q1 affects the measurement of risk-weighted assets beginning in that quarter.

Data Notes

1. The definition of tier 1 common equity for BHCs used for this report is: tier 1 common equity = tier 1 capital – perpetual preferred stock and related surplus + nonqualifying perpetual preferred stock – qualifying Class A noncontrolling (minority) interests in consolidated subsidiaries – qualifying restricted core capital elements (other than cumulative perpetual preferred stock) – qualifying

mandatory convertible preferred securities of internationally active bank holding companies. The definition of tier 1 common equity for banks is: tier 1 common equity = tier 1 capital – perpetual preferred stock and related surplus + nonqualifying perpetual preferred stock – qualifying noncontrolling (minority) interests in consolidated subsidiaries.

2. In the first quarter of 2010, banking organizations were required to transfer certain off-balance sheet items onto their balance sheets under FASB 166 and 167. These guidelines substantially affected loan balances, as large amounts of securitized loans were transferred onto bank balance sheets for accounting purposes. This accounting change caused an increase in year-over-year growth rates of loans and total assets during this period.
3. Among other sample changes and reorganizations, four large IHCs were added to the Quarterly Trends dataset this quarter (Credit Suisse Holdings, Deutsche Bank USA, UBS Americas, and Barclays US). FR Y-9C data for these firms are available beginning in 2016:Q3. Since it was not possible to calculate quarterized net income or other quarterized flow variables for these firms in 2016:Q3, these values were imputed according to the method for mid-year entrants described under “Caveats and Limitations”.