



Outlook for the US Consumer

With a closer look at how much wealth declined during the crisis across the income distribution

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Passion to Perform

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Main messages in this presentation



- The 55-64 year olds saw their net worth decline by almost \$100k from 2007 to 2010 (p. 4)
- Median net worth declined \$50k from 2007 to 2010 for couples with children (p. 5)
- College educated families saw their net worth decline by a third from 2007 to 2010 (p. 6)
- Families on the West Coast experienced the biggest wealth decline during the crisis (p. 8)
- The most important reason for saving money is no longer retirement but liquidity (p. 9)
- The median value of stock holdings for all households has fallen from \$43k in 2001 to \$30k in 2010 (p. 10)
- Housing makes up 50% of all household assets, except for the 90th percentile of income (p. 14)
- Leverage, i.e. household debt divided by household assets, is highest for the middle-income groups (p. 17)
- Leverage for <35 year olds is more than 50% (p. 18)
- Mortgage debt went up for high income families from 2007 to 2010, but fell for middle-income families (p. 21)
- Average credit card balance for high-income families is \$8k (p. 22)
- Household debt is falling and assets are slowly edging up, i.e. balance sheet repair continues (p. 32 and 48)
- The number of people who are going into foreclosure is falling (p. 46)
- Households' financial obligations ratio now at the lowest level since 1984 (p. 54)
- Overall, we have seen a continued improvement in consumer demand for loans and banks' willingness to lend (p. 71)

Bottom Line: Household sector balance sheet repair continues and household deleveraging could come to an end in late 2012 as the housing market continues to improve and home prices start rising modestly.

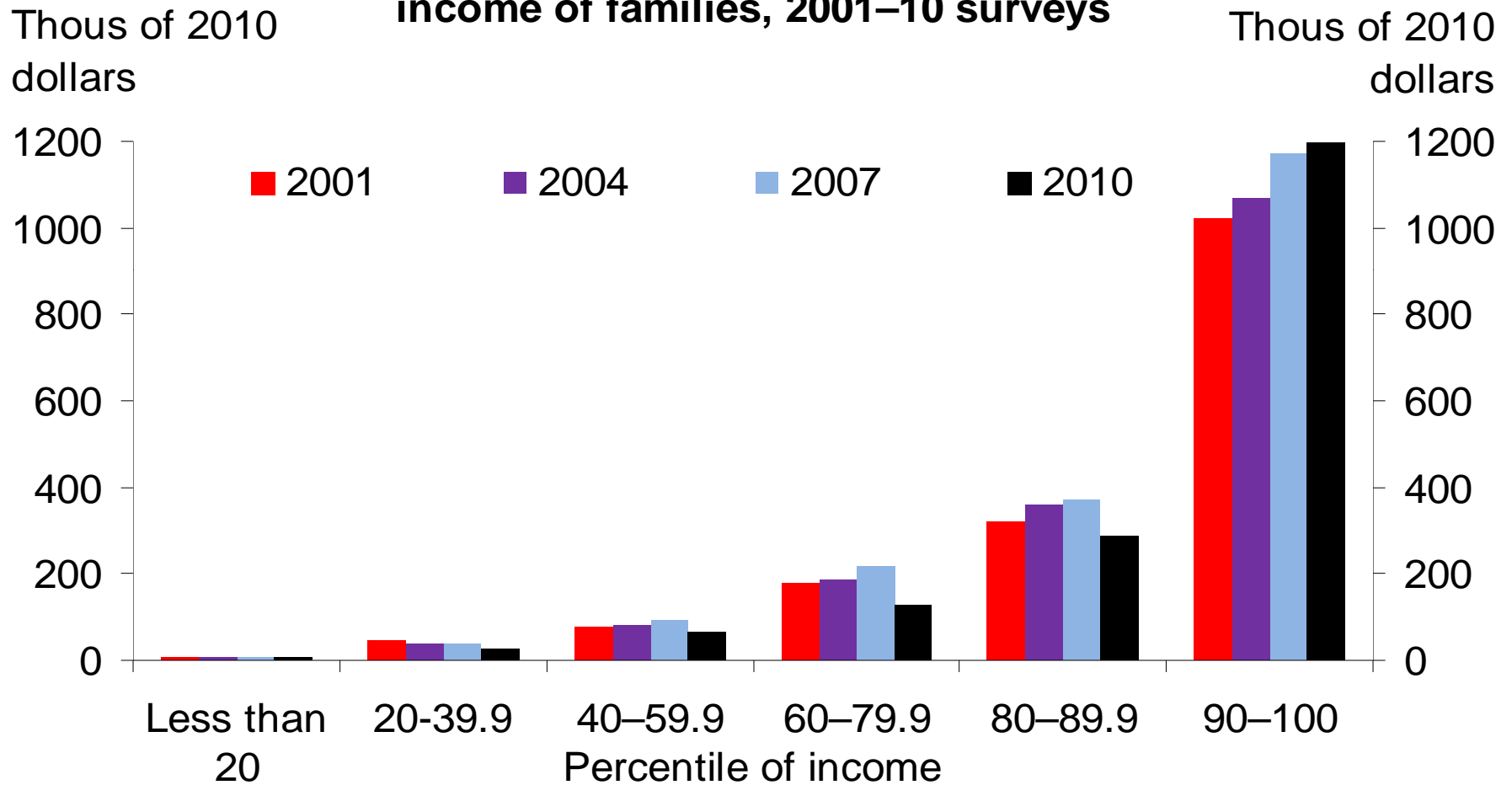


How much did household wealth decline during the crisis across the income distribution?

Median net worth of the 90th percentile of income is around \$1mn



Median family net worth by percentile income of families, 2001–10 surveys

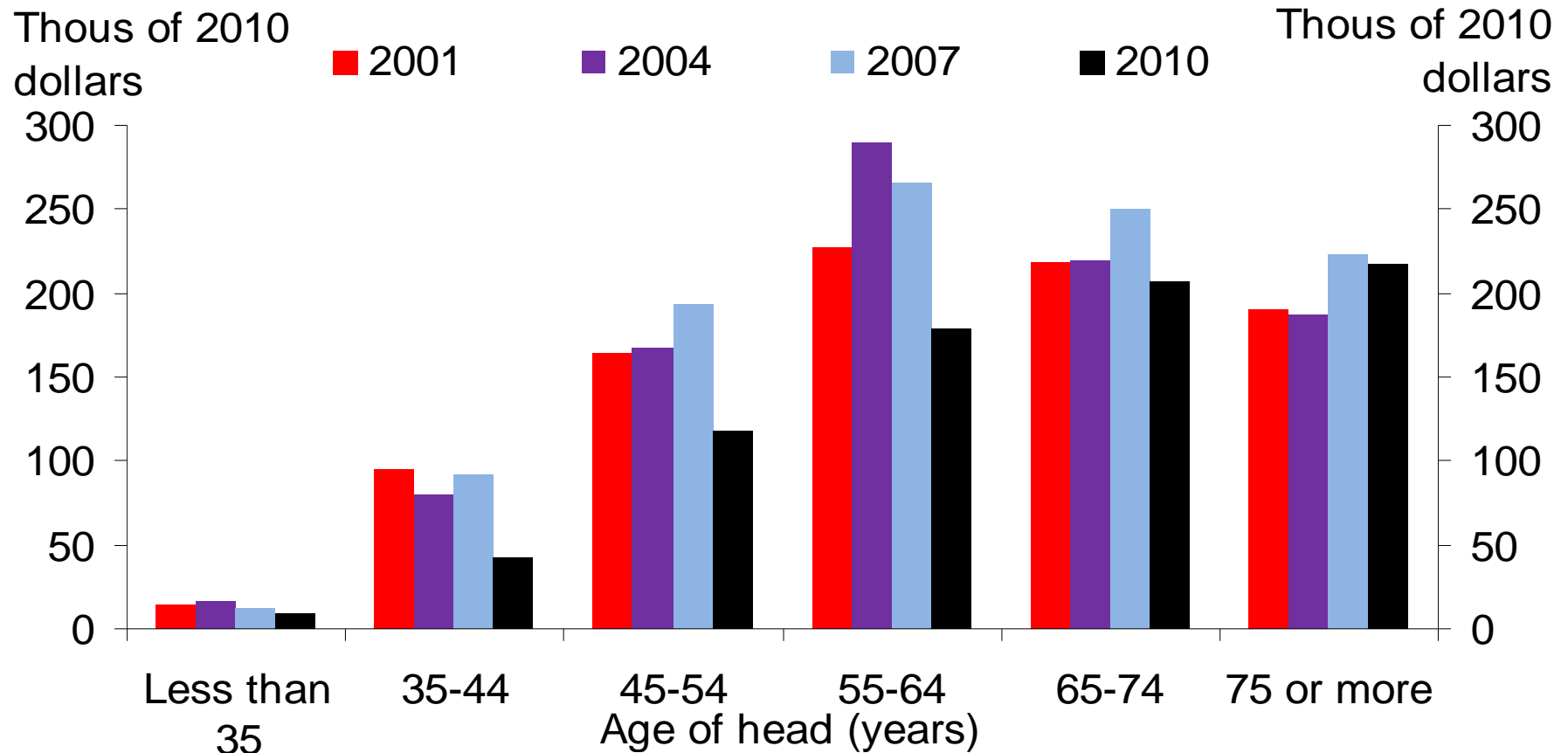


Source: FRB, DB Global Markets Research

The 55-64 year olds saw their net worth decline by almost \$100k from 2007 to 2010



Median family net worth, by age of head of families, 2001–10 surveys

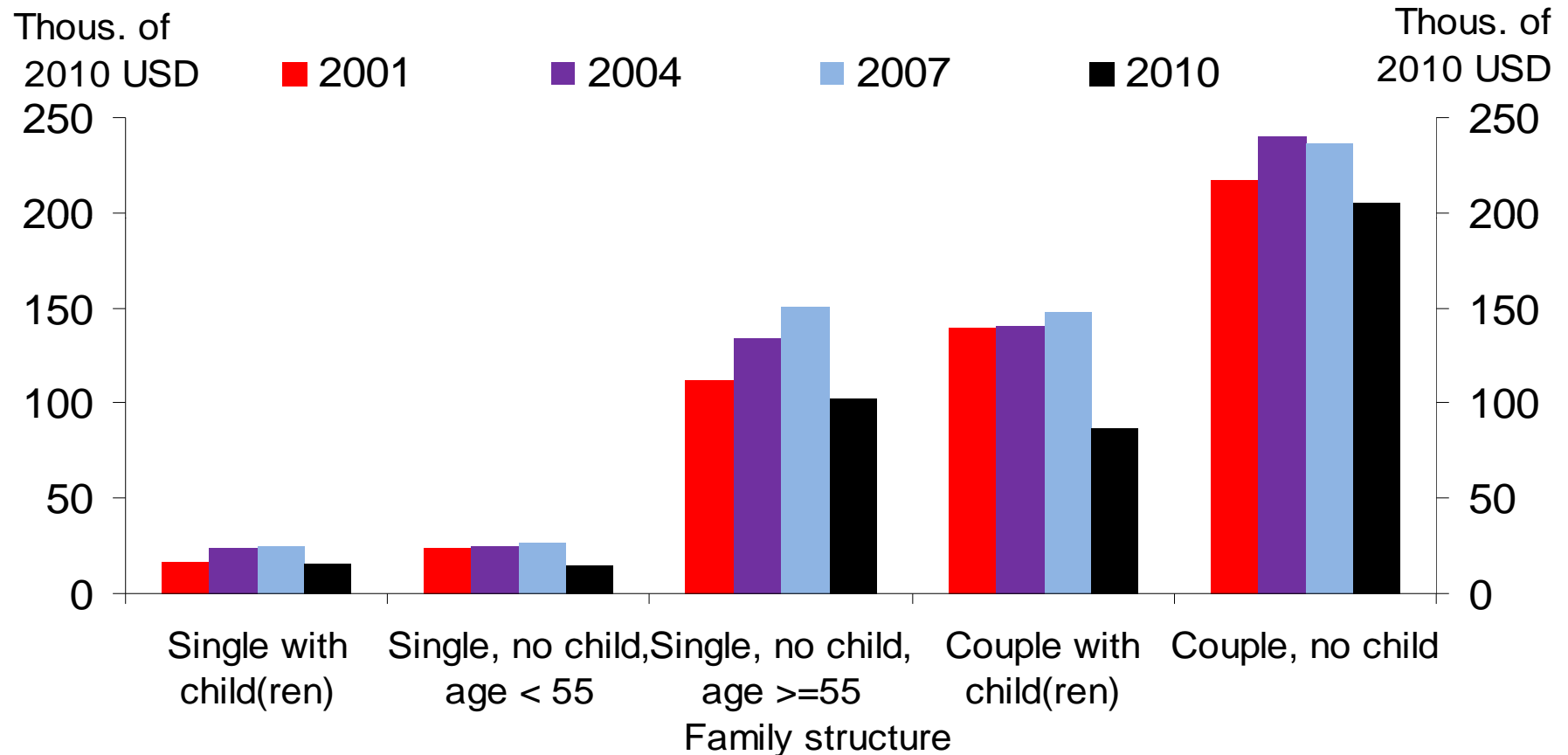


Source: FRB, DB Global Markets Research

Median net worth declined \$50k from 2007 to 2010 for couples with children



Median family net worth by family structure, 2001–10 surveys

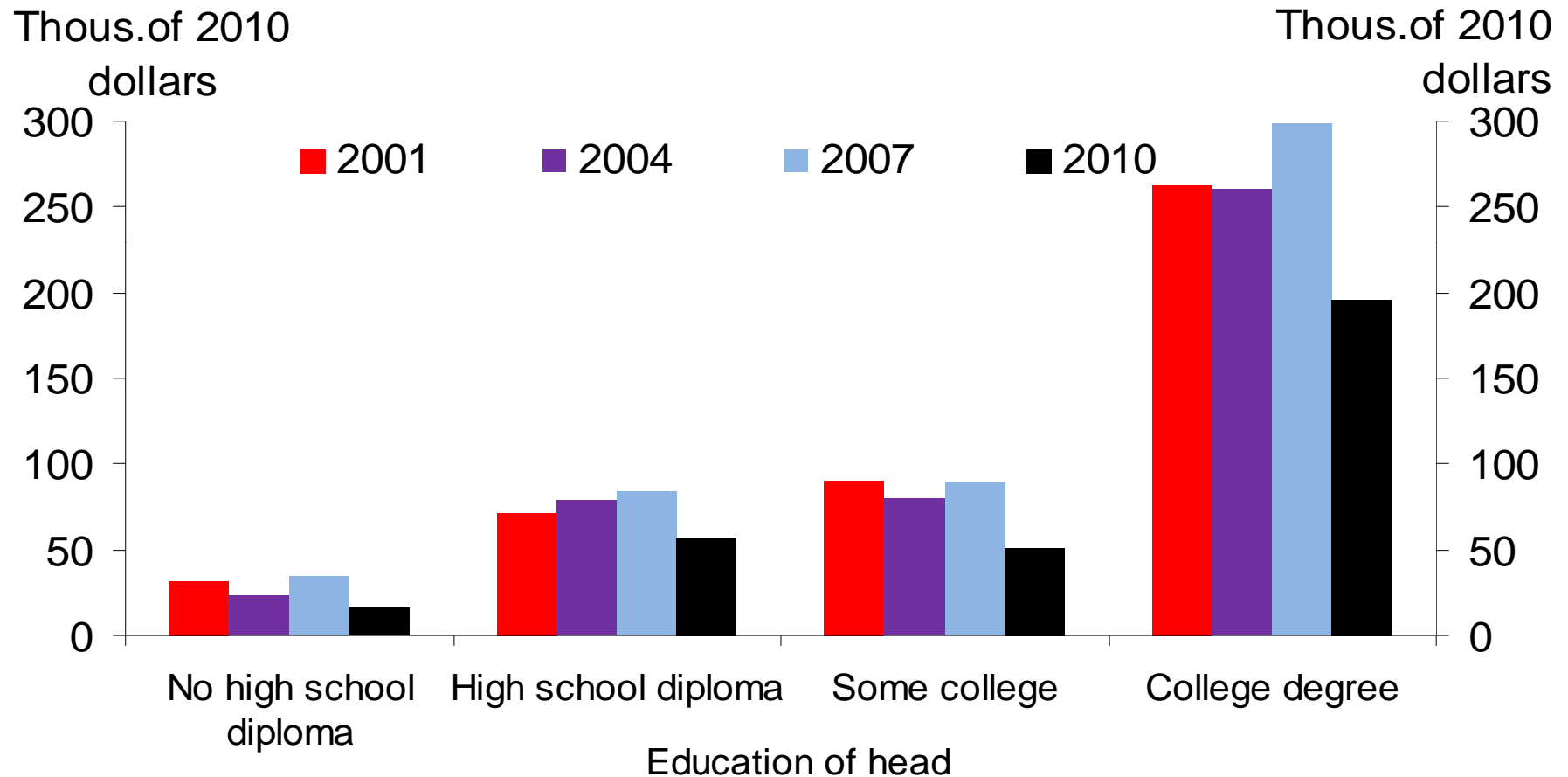


Source: FRB, DB Global Markets Research

College educated families saw their net worth decline by a third from 2007 to 2010



Median family net worth, by education of head of family, 2001–10 surveys

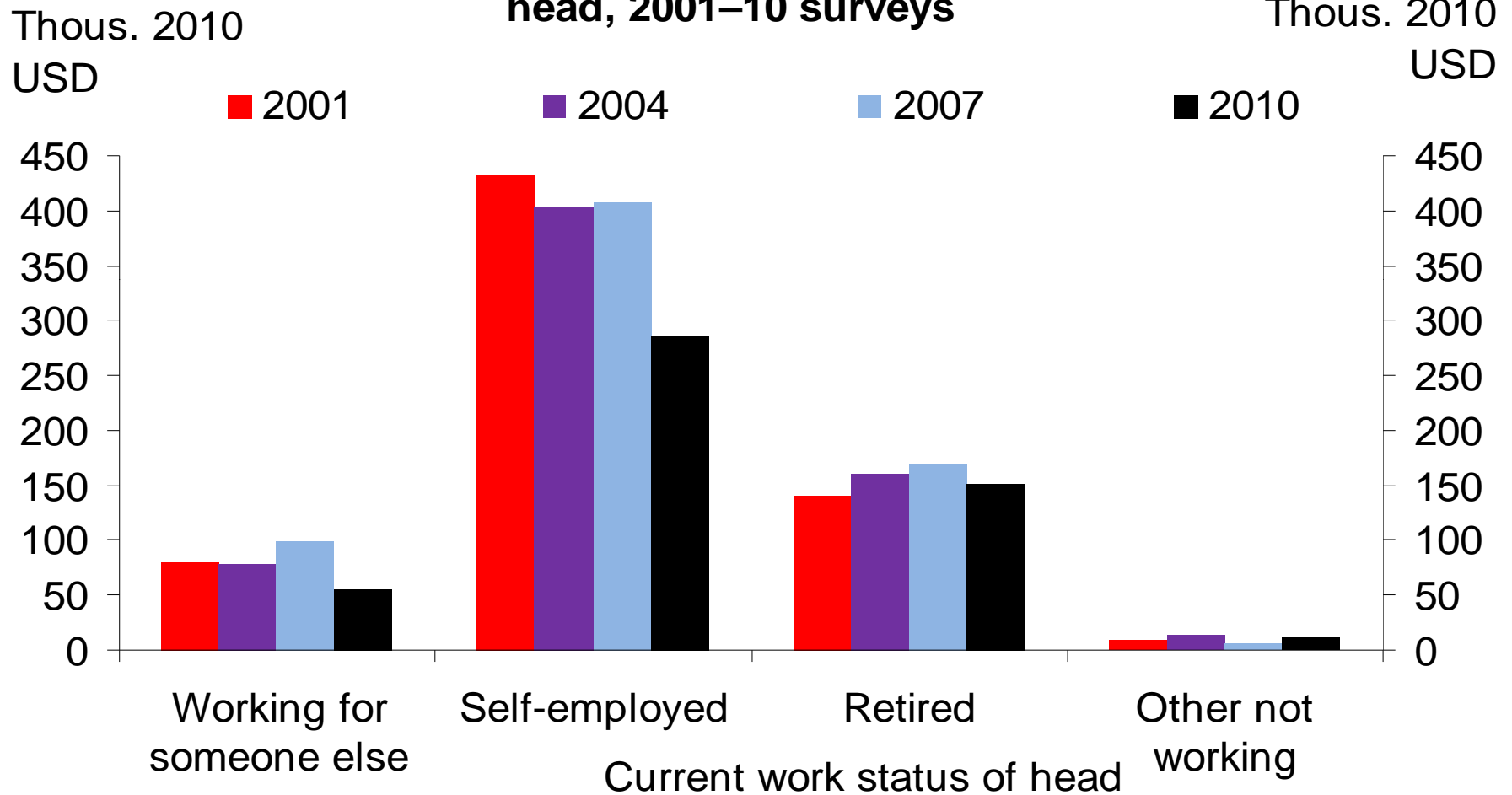


Source: FRB, DB Global Markets Research

Net worth for self-employed declined \$100k during the crisis



Median family net worth, by current work status of the head, 2001–10 surveys

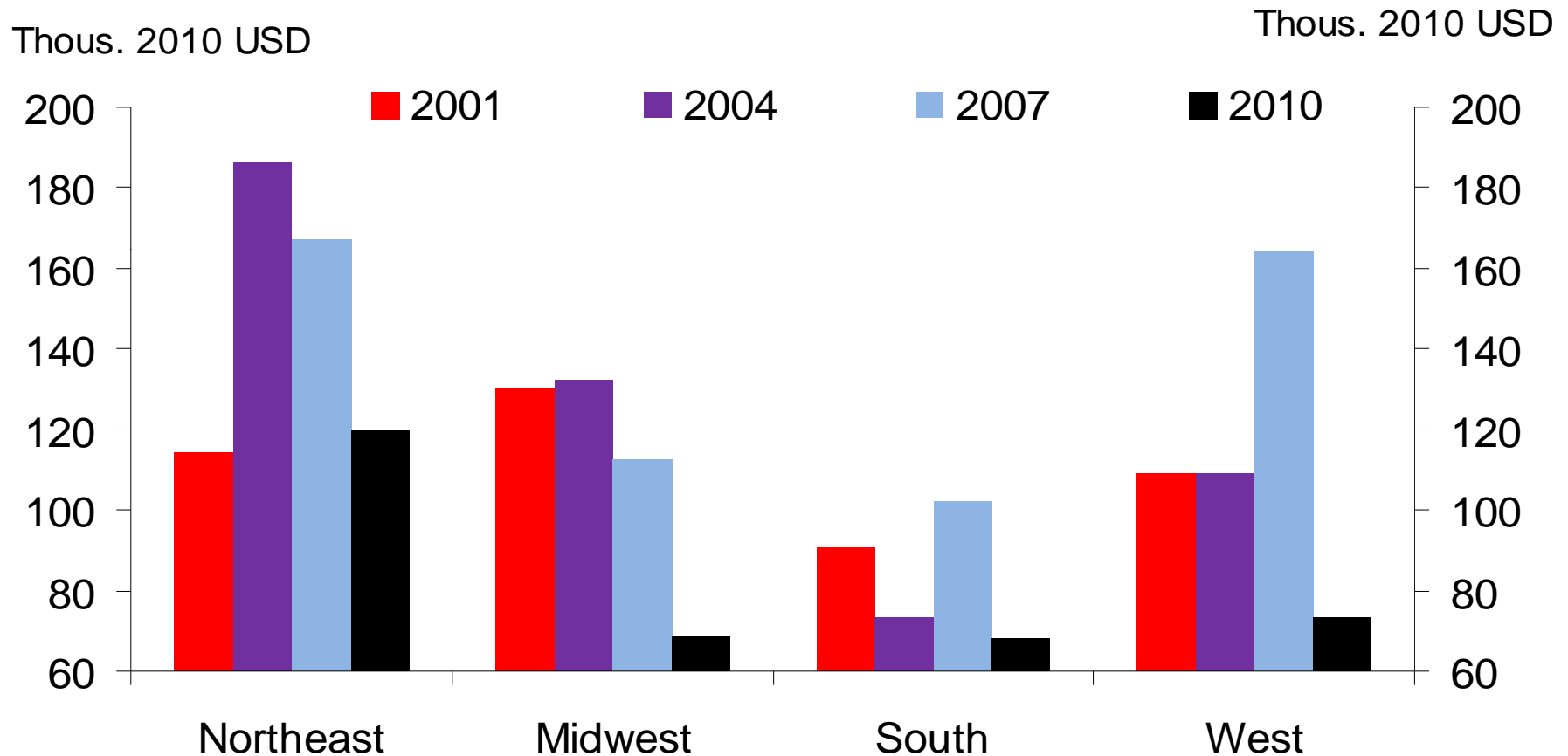


Source: FRB, DB Global Markets Research

Families on the West Coast experienced the biggest wealth decline during the crisis



Median family net worth, by region, 2001–10 surveys

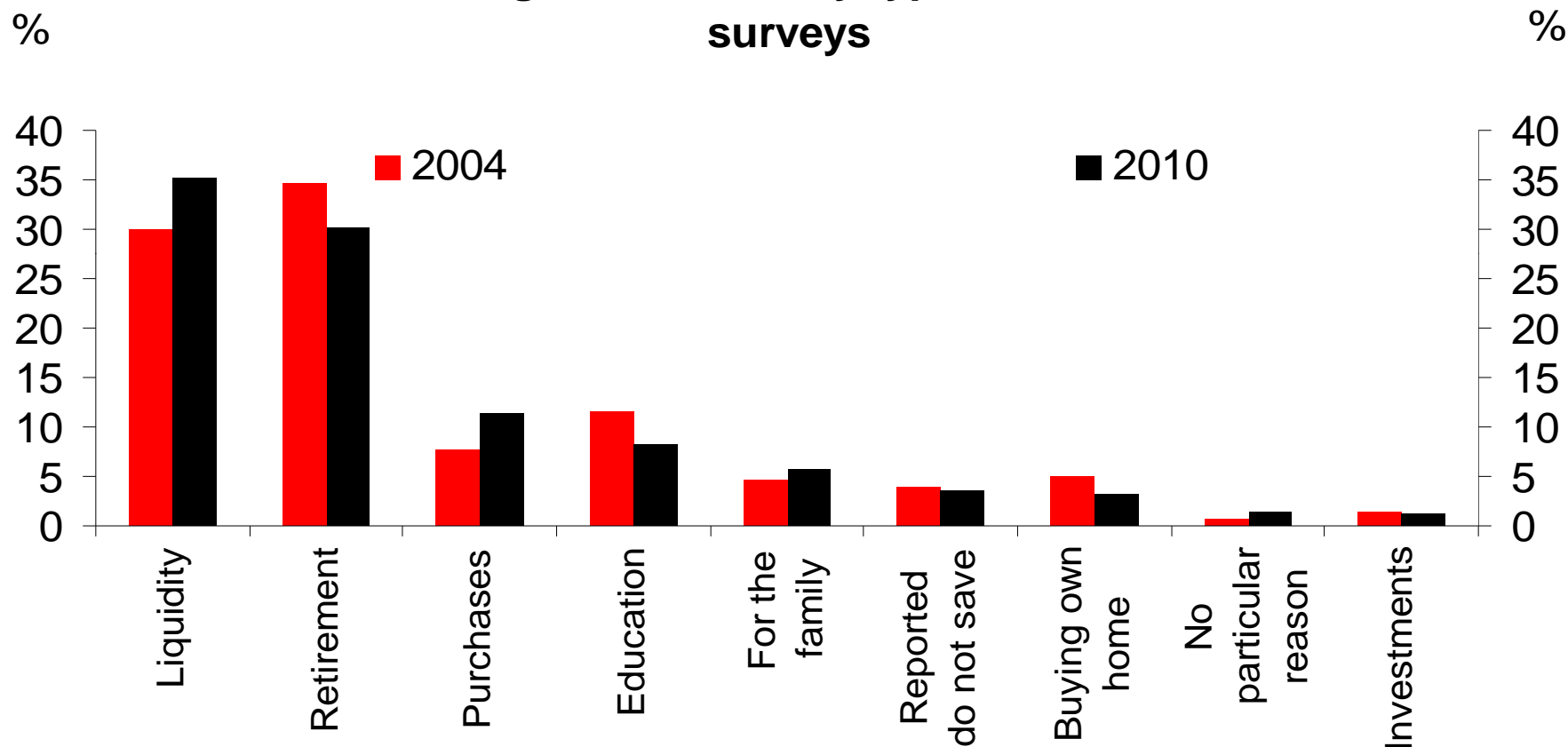


Source: FRB, DB Global Markets Research



The most important reason for saving money is no longer retirement but liquidity

Reasons respondents gave as most important for their families' saving, distributed by type of reason, 2001–10

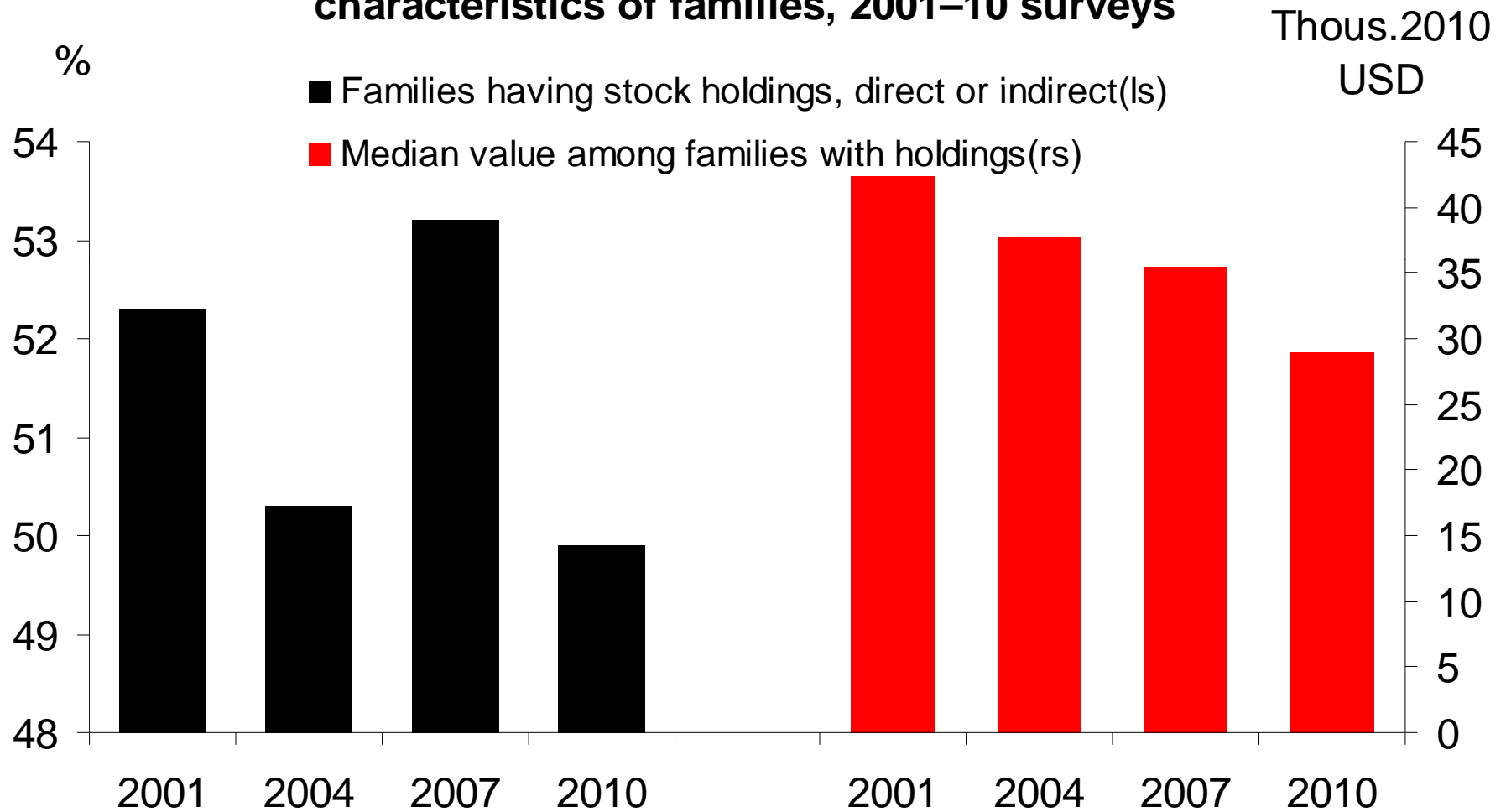


Source: FRB, DB Global Markets Research

The median value of stock holdings for all households has fallen from \$43k in 2001 to \$30k in 2010



Direct and indirect family holdings of stock, by selected characteristics of families, 2001–10 surveys

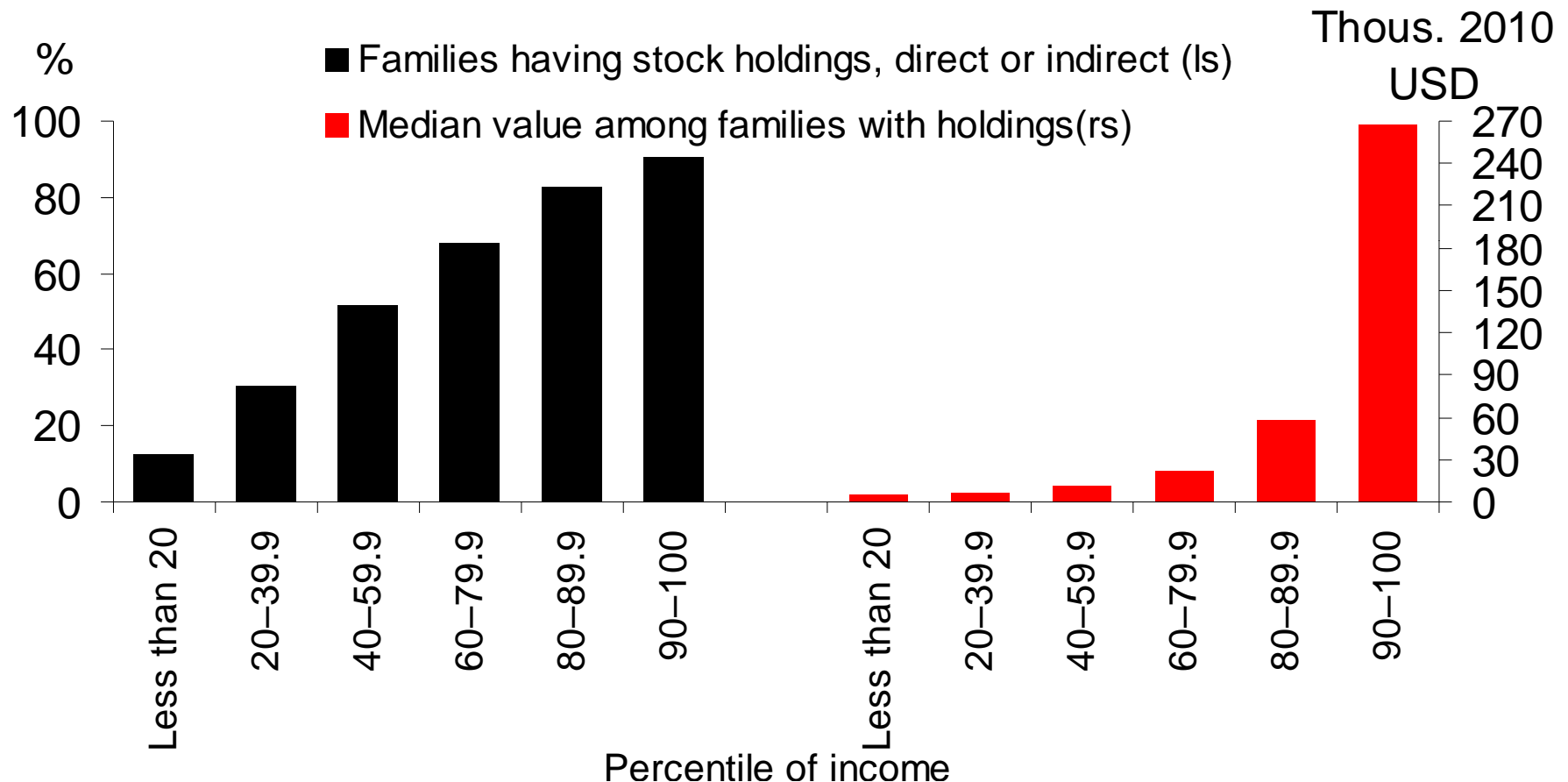


Source: FRB, DB Global Markets Research

For families in the 90th percentile of income
the median holding of stocks is \$270k



Direct and indirect family holdings of stock, by income distribution, 2001–10 surveys

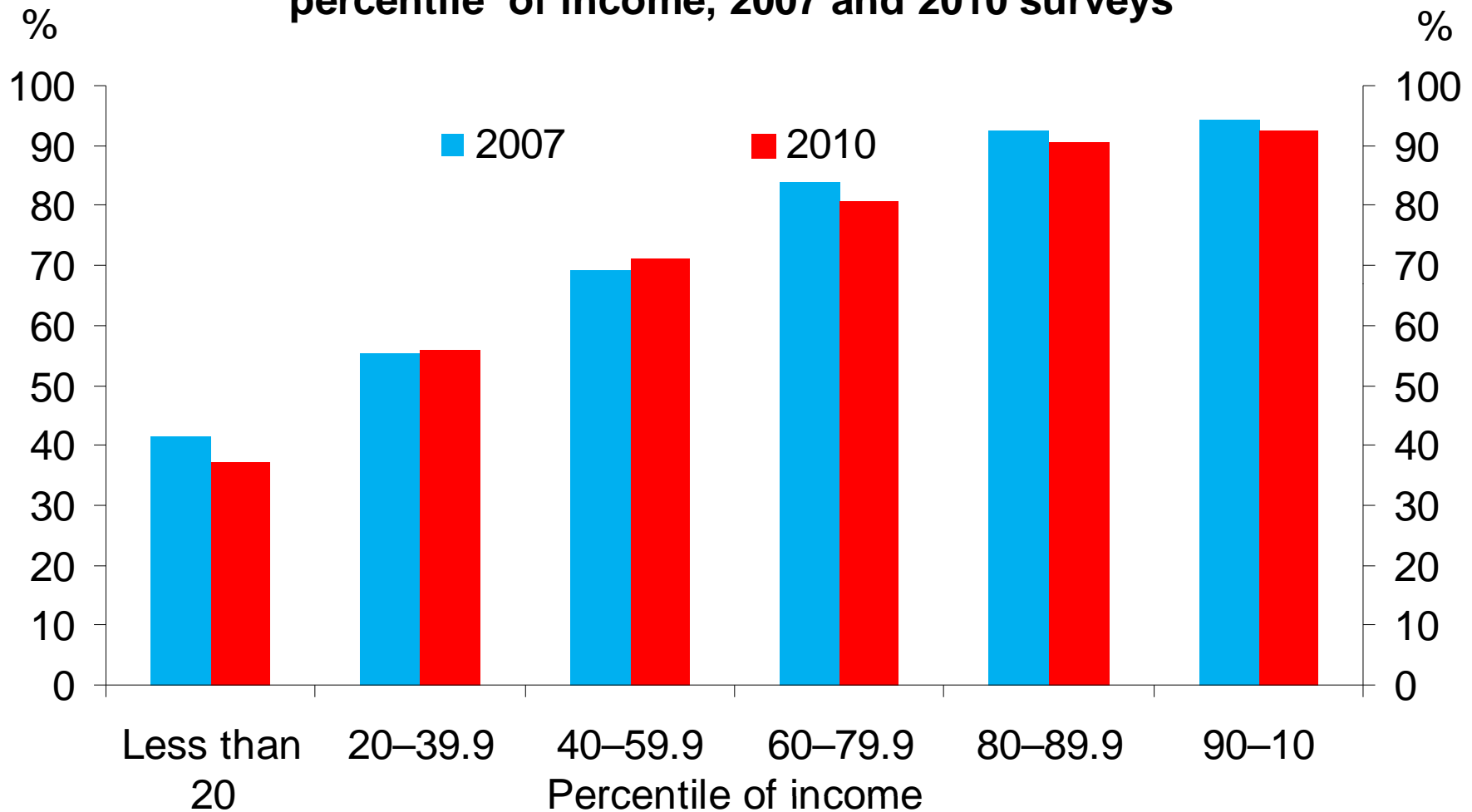


Source: FRB, DB Global Markets Research

For high-income groups the homeownership rate is higher



Percentage of family holdings of primary residence by percentile of income, 2007 and 2010 surveys



Source: FRB, DB Global Markets Research

For the 90th percentile of income the median value of their home is around \$500k

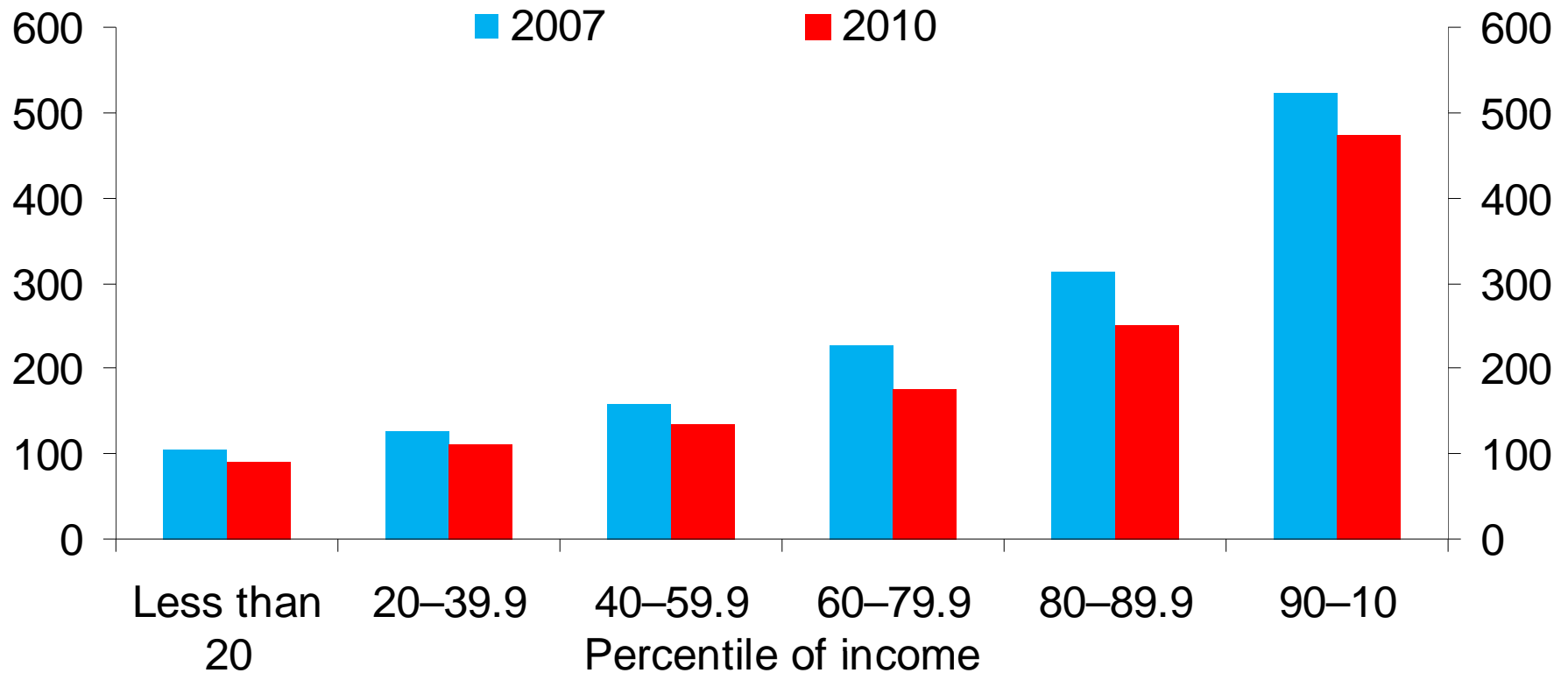


Median value of holdings for families holding asset of primary residence by percentile of income 2007 and 2010

Thous. of
2010 USD

surveys

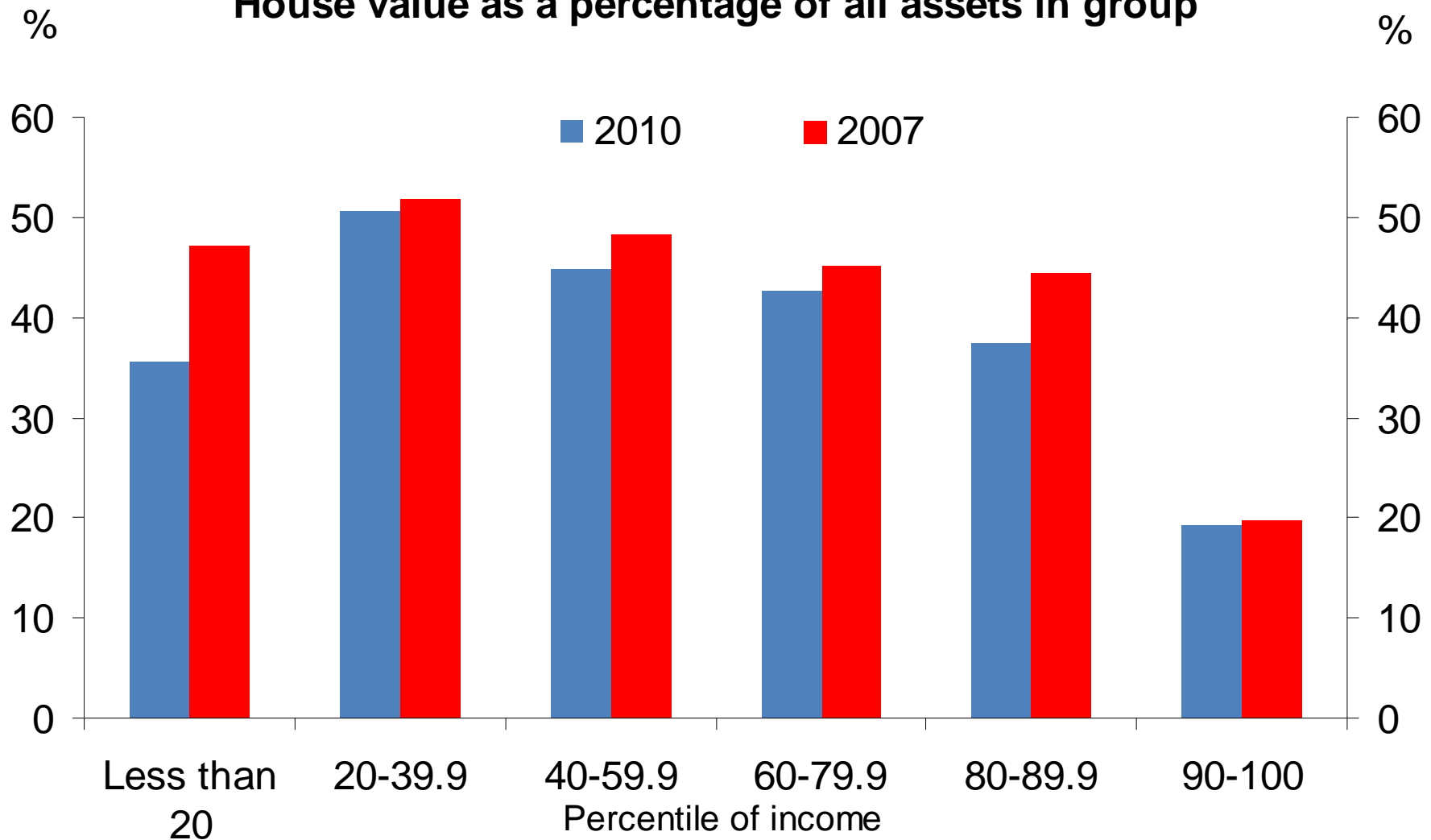
Thous. of
2010 USD



Source: FRB, DB Global Markets Research

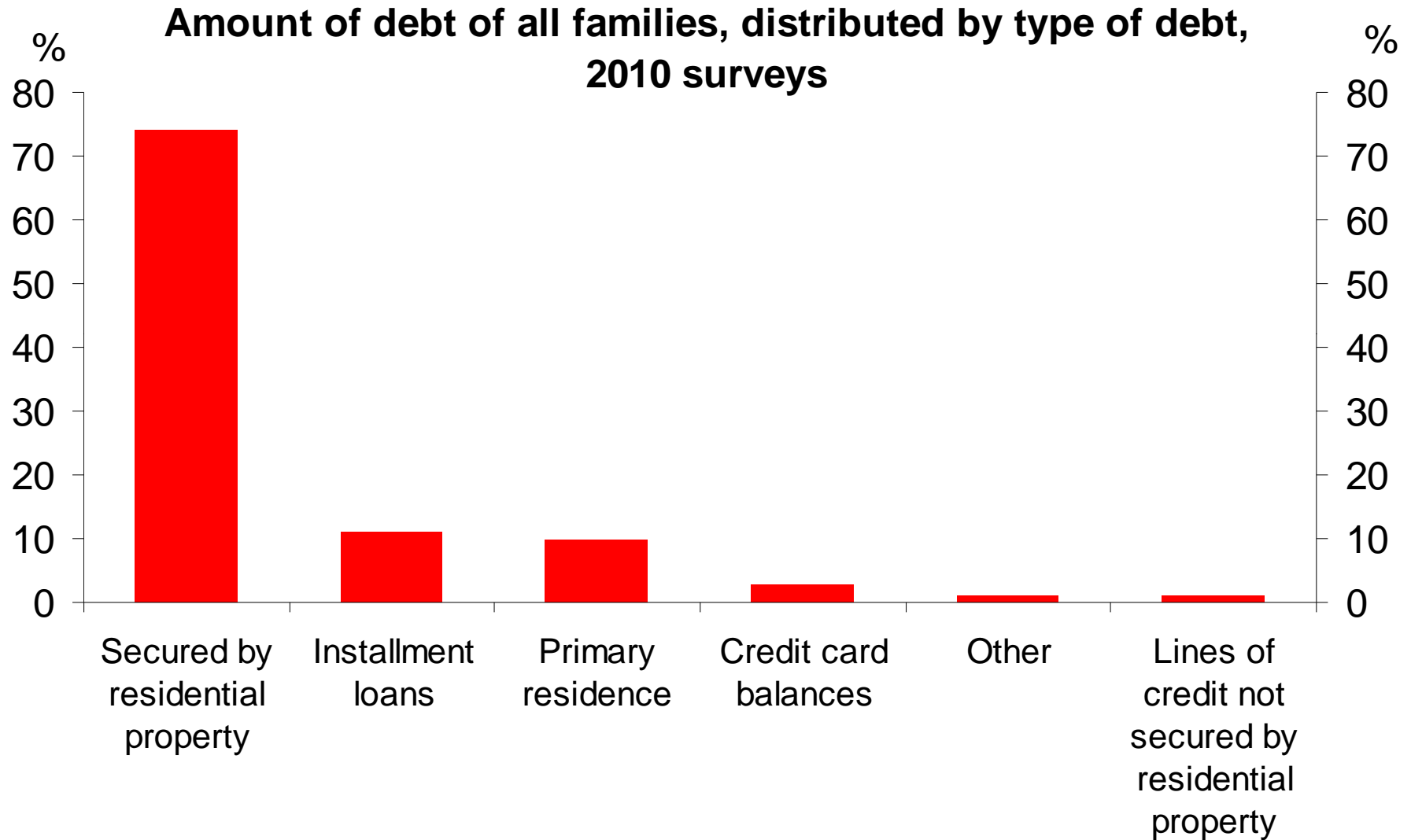
Housing makes up 50% of all assets, except for the 90th percentile of income

House value as a percentage of all assets in group



Source: FRB, DB Global Markets Research

Most household debt is mortgage debt

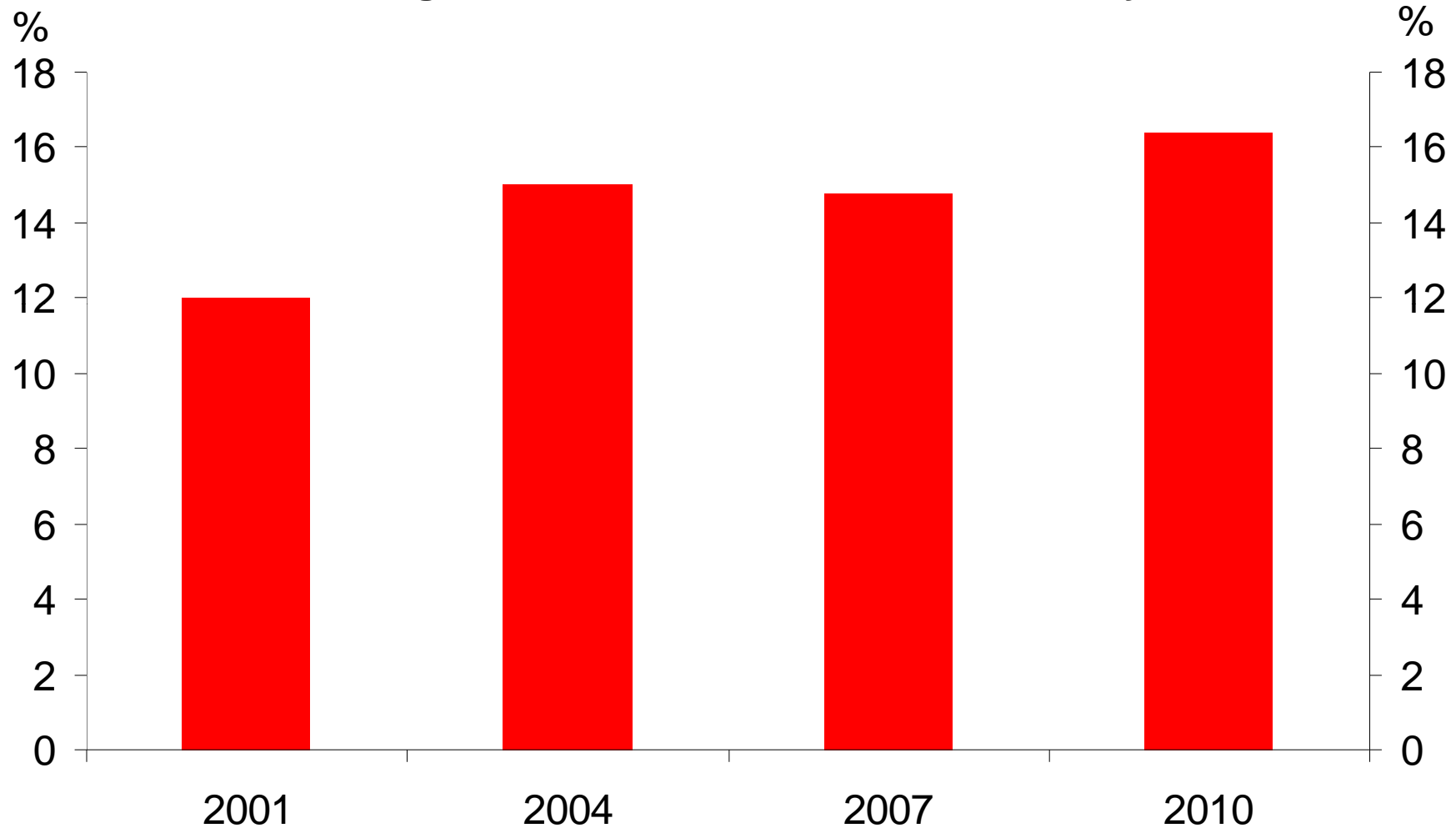


Source: FRB, DB Global Markets Research

Leverage, i.e. debt as a share of assets, was 16% in 2010



Leverage ratio of all families 2001-10 surveys

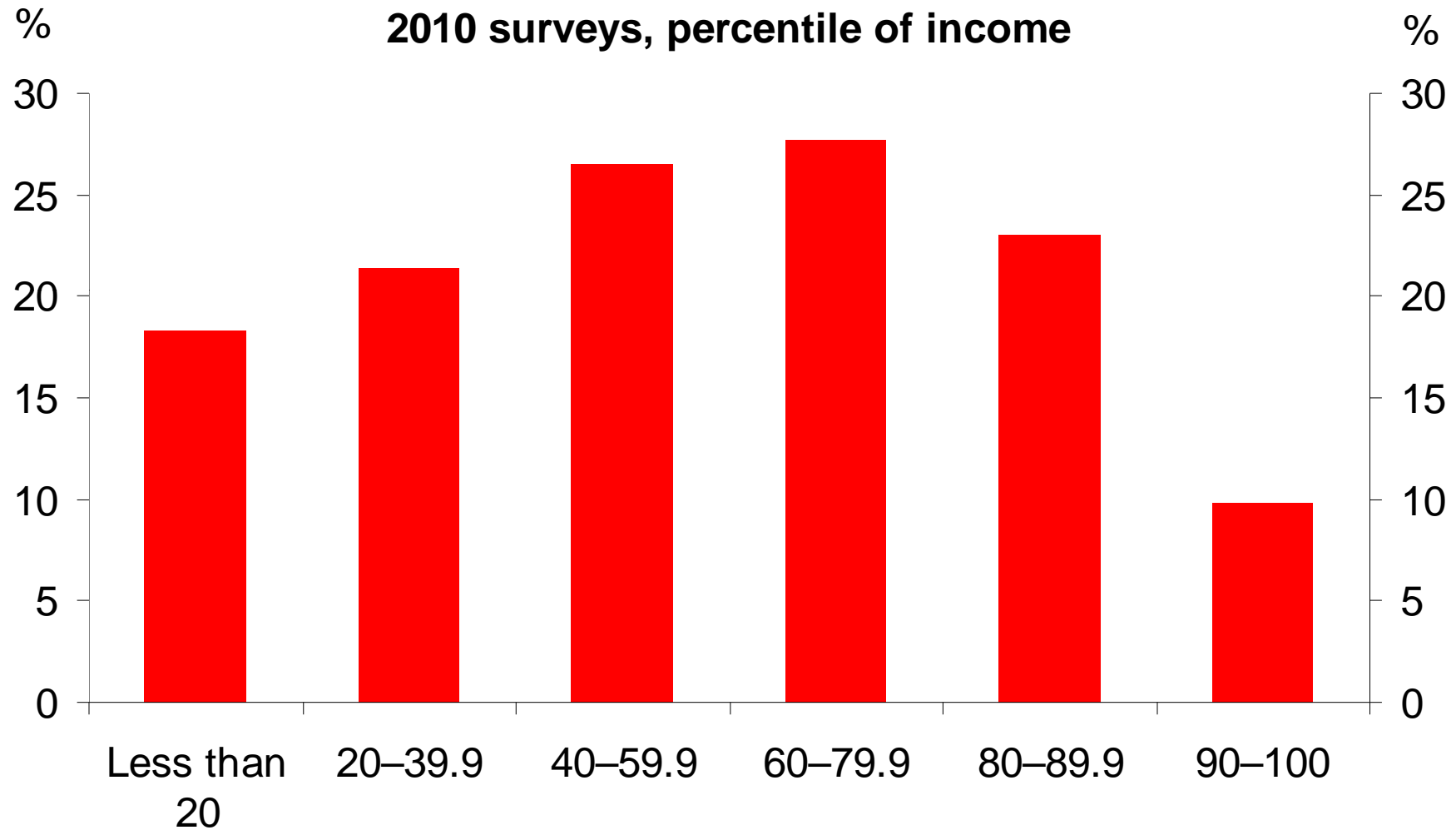


Source: FRB, DB Global Markets Research

Leverage is highest for the middle-income groups

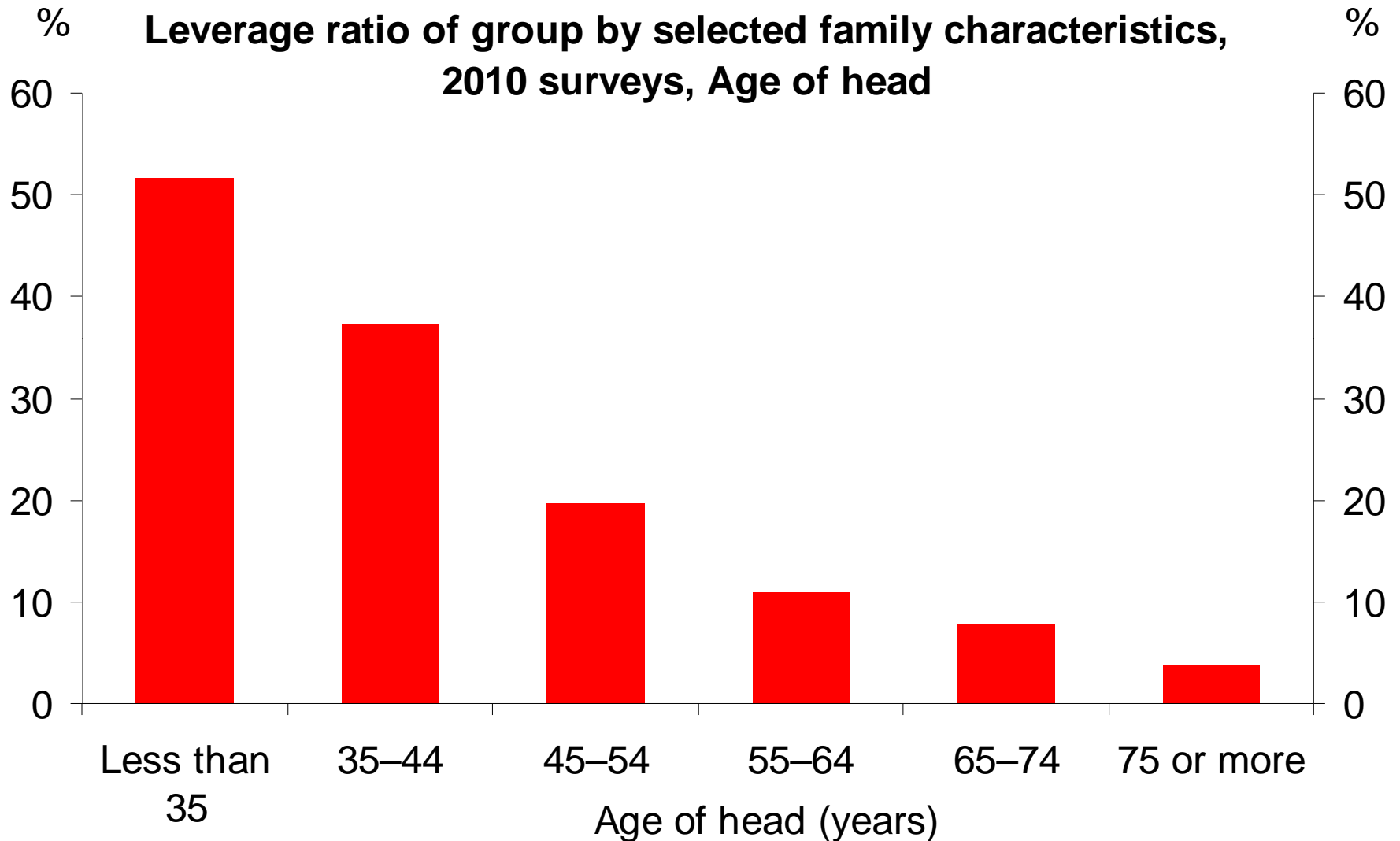


**Leverage ratio of group by income distribution,
2010 surveys, percentile of income**



Source: FRB, DB Global Markets Research

Leverage for <35 year olds is more than 50%

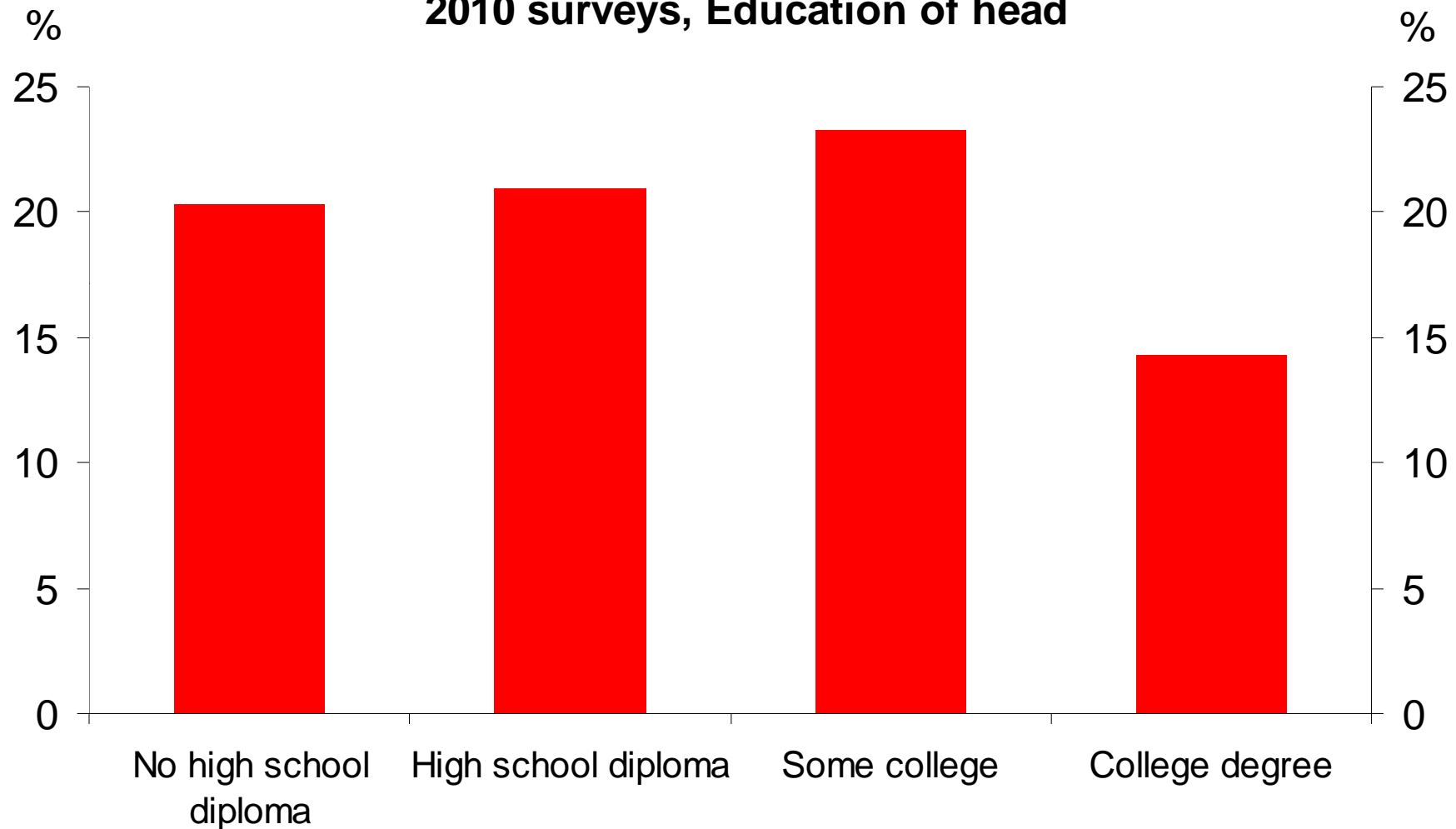


Source: FRB, DB Global Markets Research

College degree families have the lowest leverage



**Leverage ratio of group by selected family characteristics,
2010 surveys, Education of head**

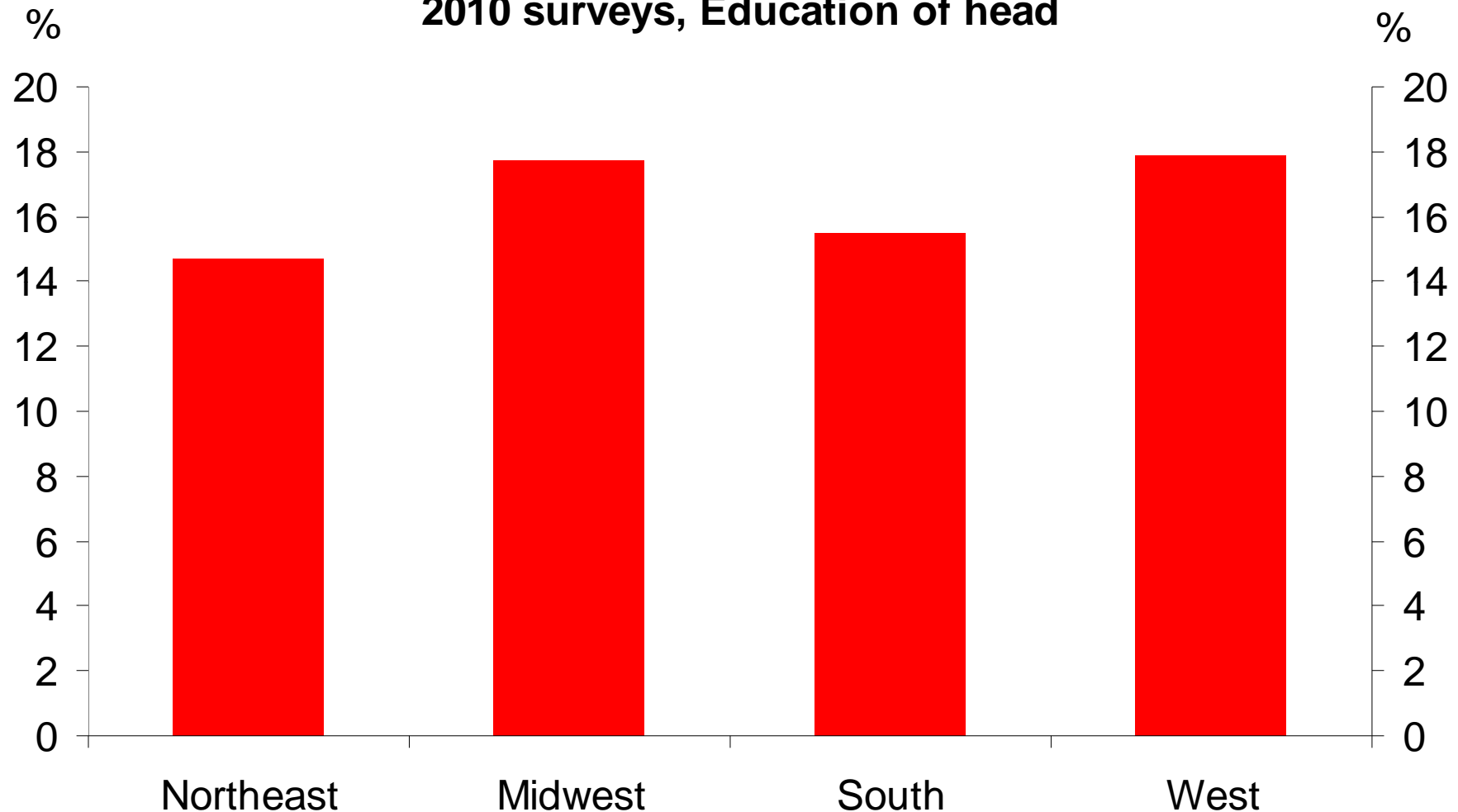


Source: FRB, DB Global Markets Research

Families in the West and Midwest have the highest leverage



**Leverage ratio of group by selected family characteristics,
2010 surveys, Education of head**

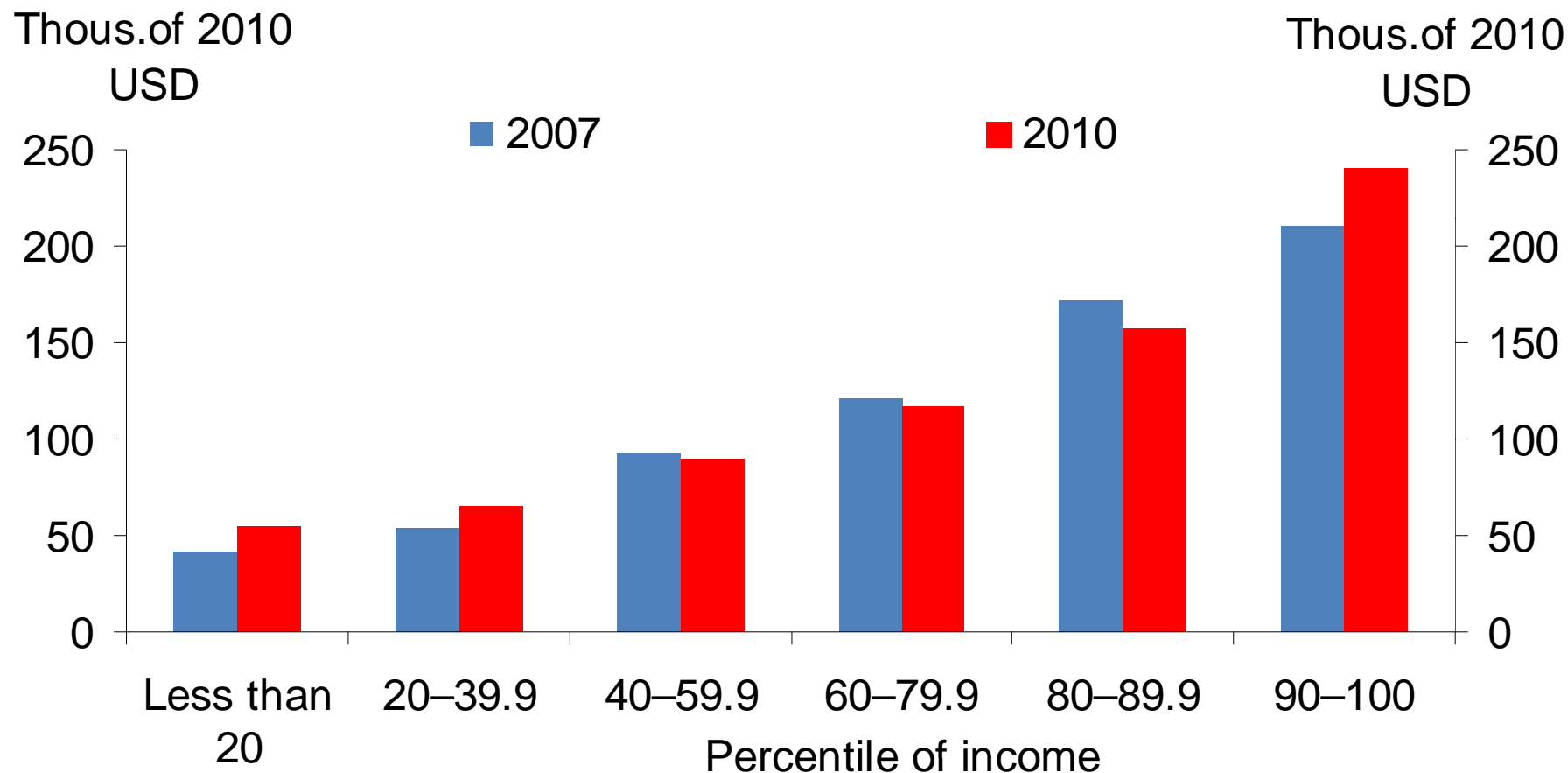


Source: FRB, DB Global Markets Research

Mortgage debt went up for high income families from 2007 to 2010, but fell for middle-income families



Family holdings of debt, by selected characteristics of families and type of debt, primary residence, 2007 and 2010

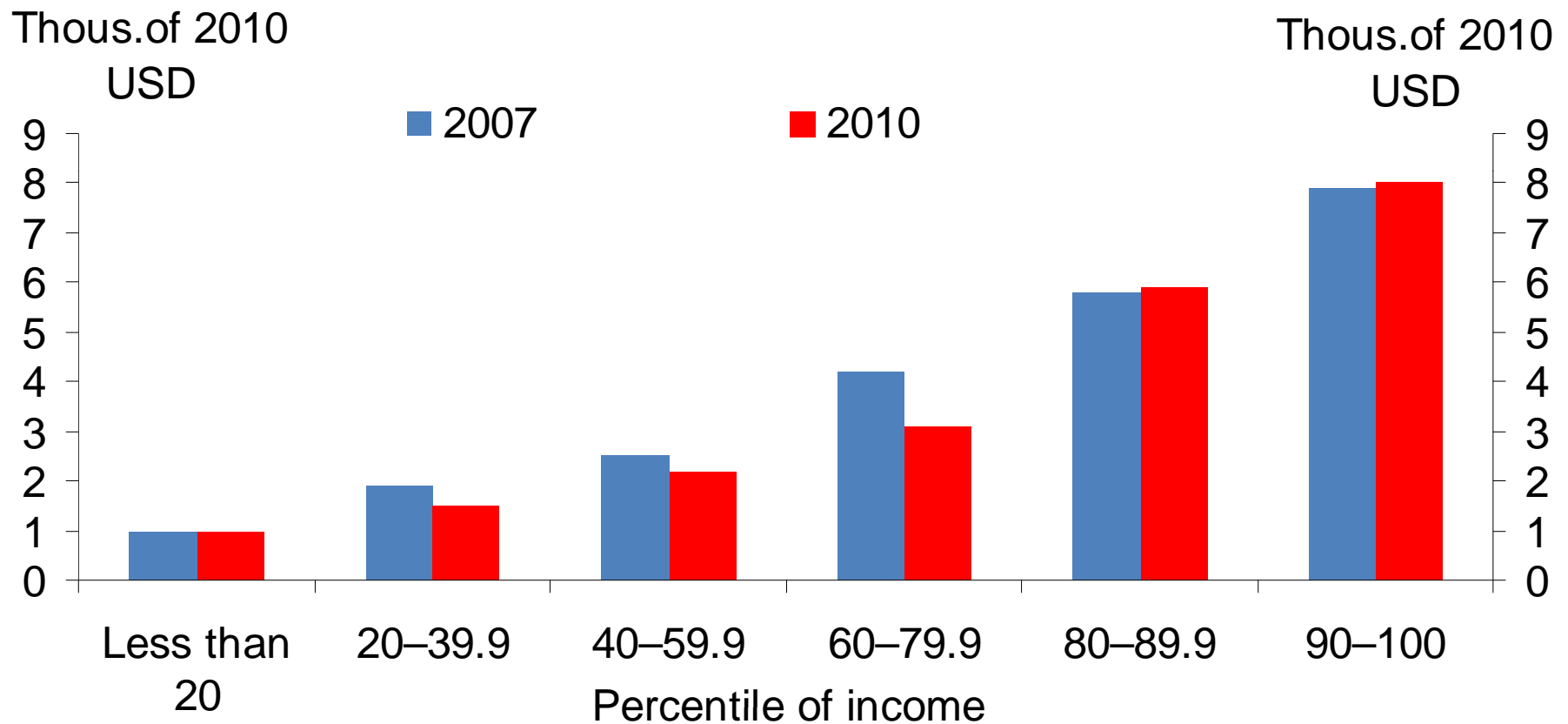


Source: FRB, DB Global Markets Research

Average credit card balance vary from \$1k to \$8k, and high income families increased their average balance from 2007 to 2010

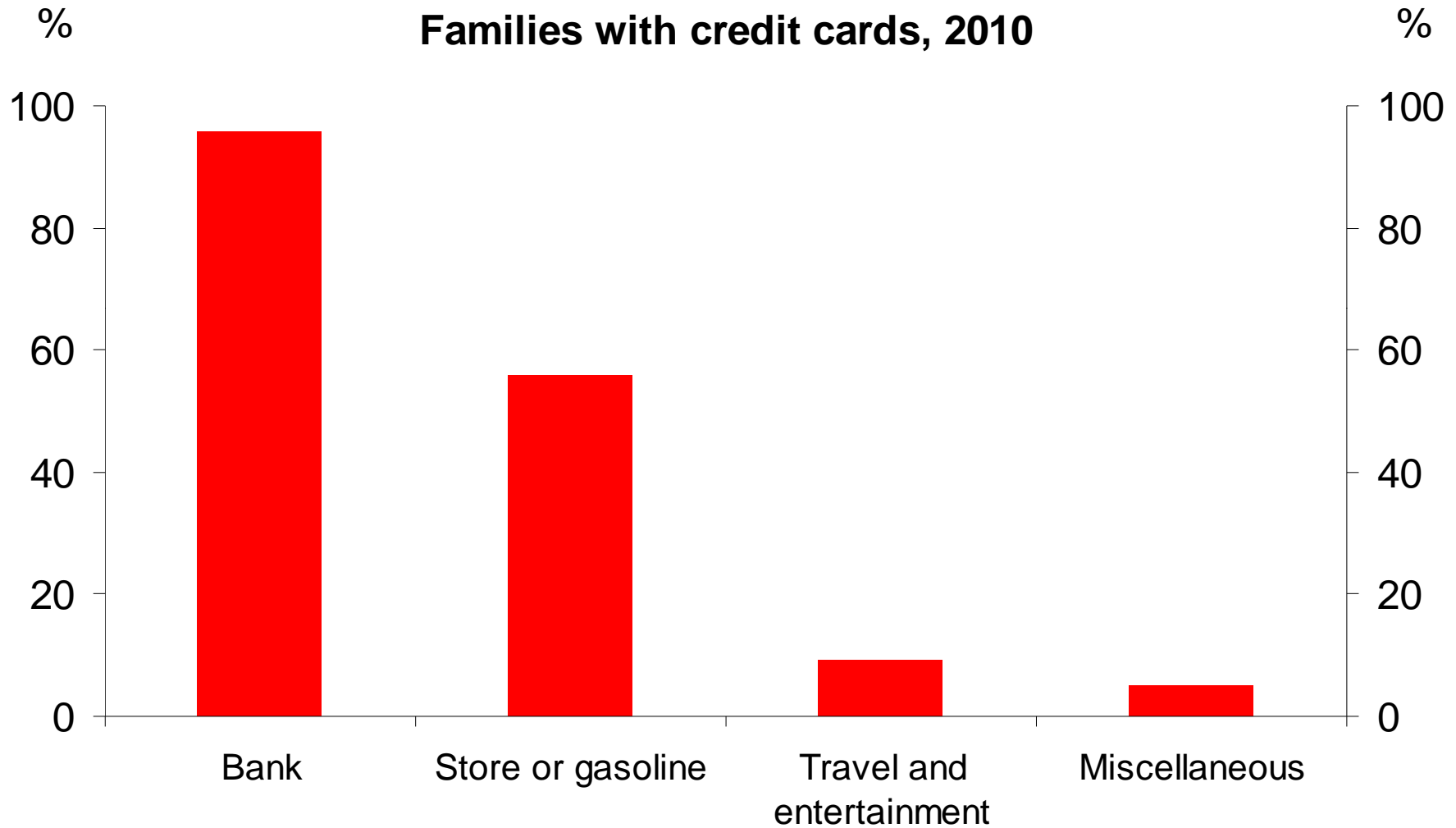


Family holdings of debt, by selected characteristics of families and type of debt, Credit card balance, 2007 and 2010



Source: FRB, DB Global Markets Research

50% of families with credit cards have a store or gasoline credit card

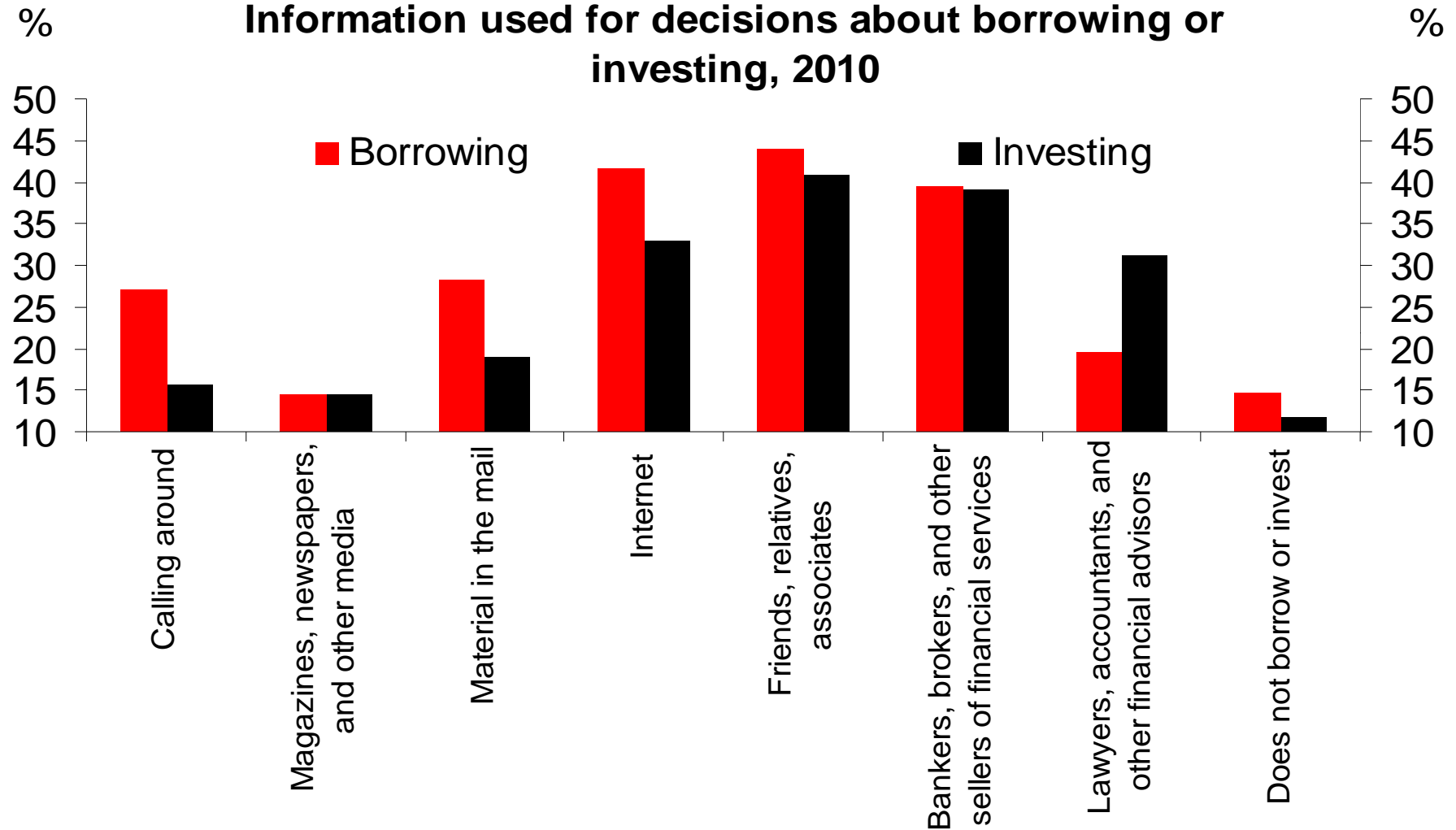


Source: FRB, DB Global Markets Research

About a third use the internet to make investing and borrowing decisions

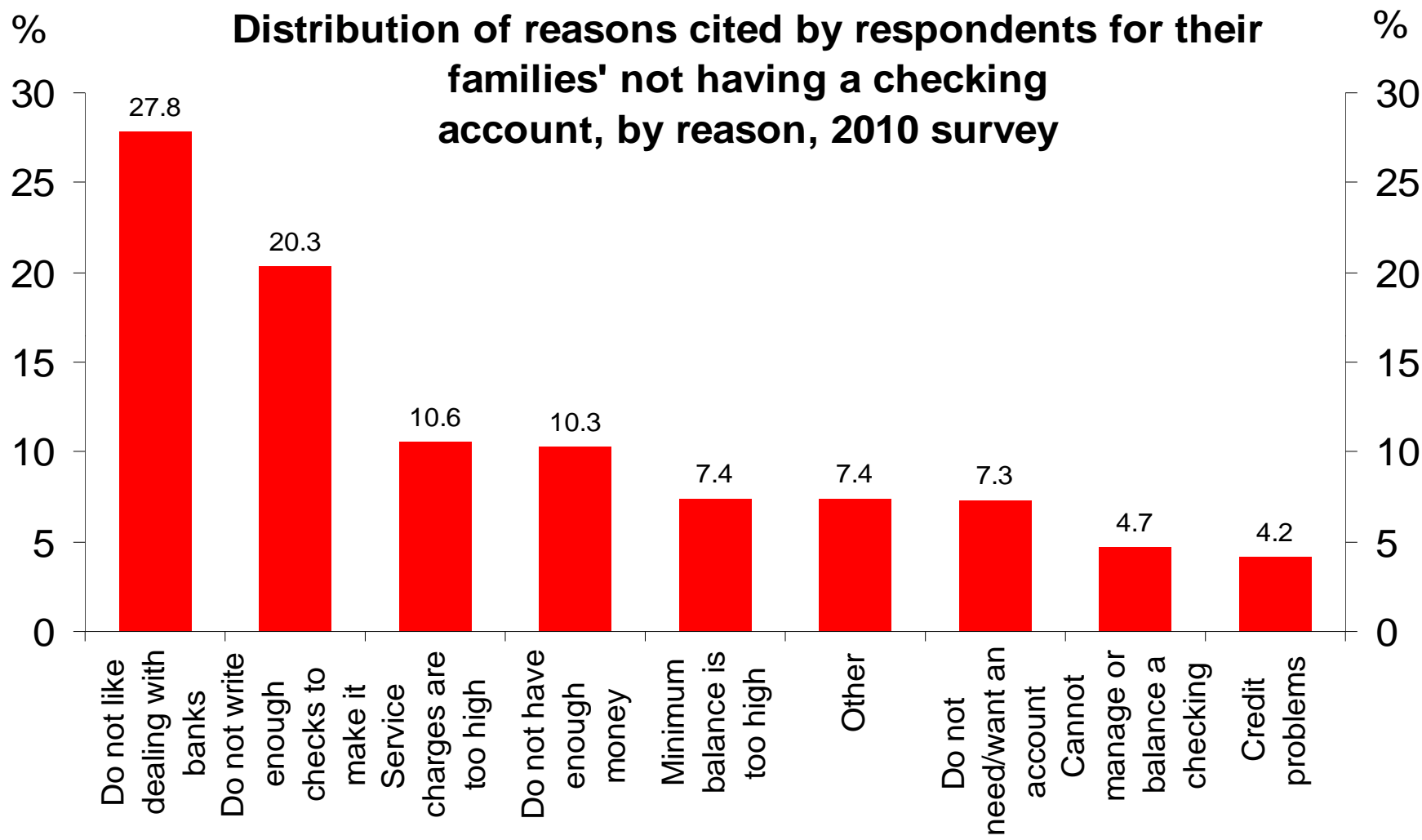


Information used for decisions about borrowing or investing, 2010



Source: FRB, DB Global Markets Research

For people who don't have banking accounts 28% say that it is because they don't like dealing with banks

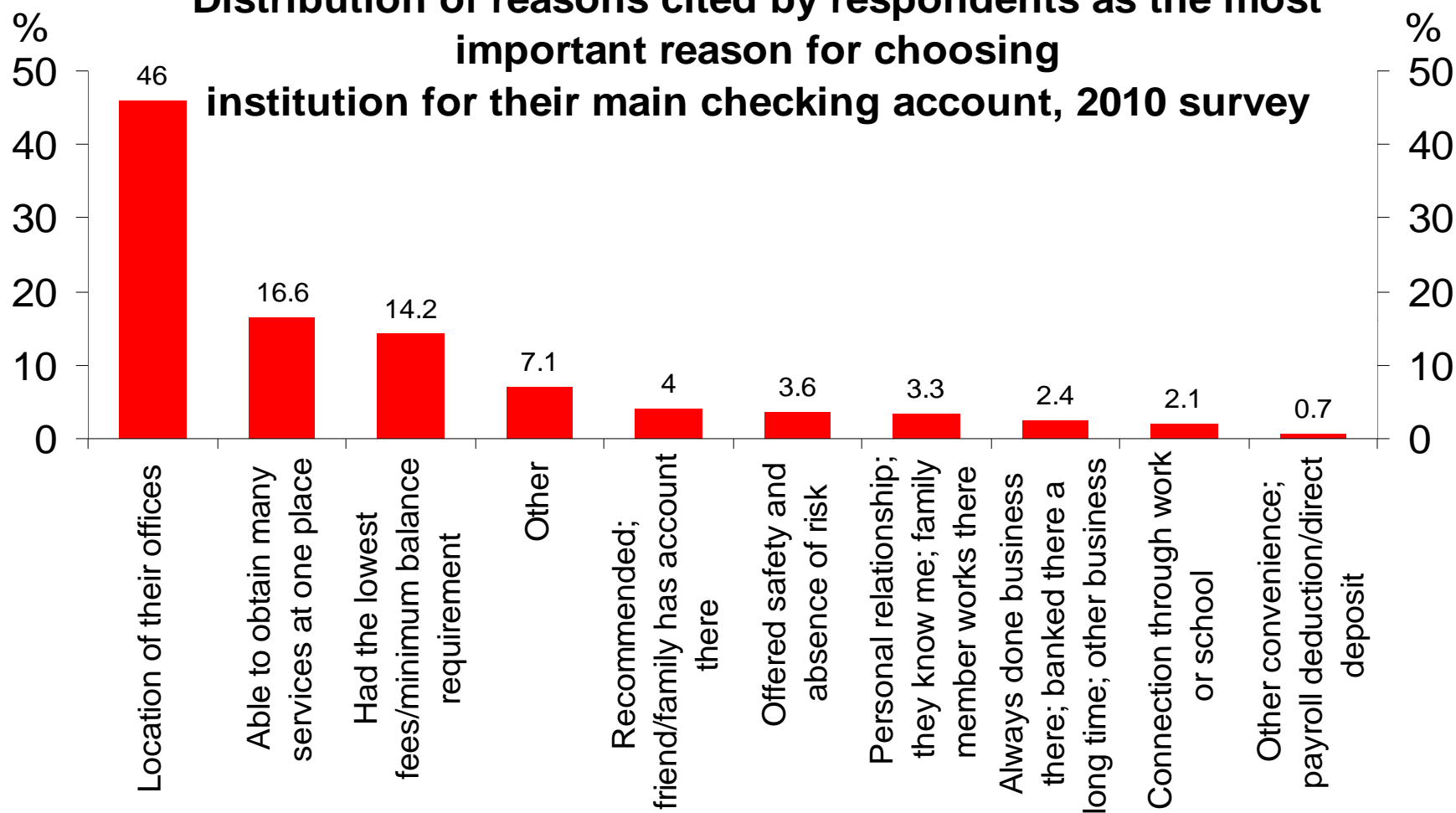


Source: FRB, DB Global Markets Research

Location is the most important factor when households choose which bank to use



Distribution of reasons cited by respondents as the most important reason for choosing institution for their main checking account, 2010 survey

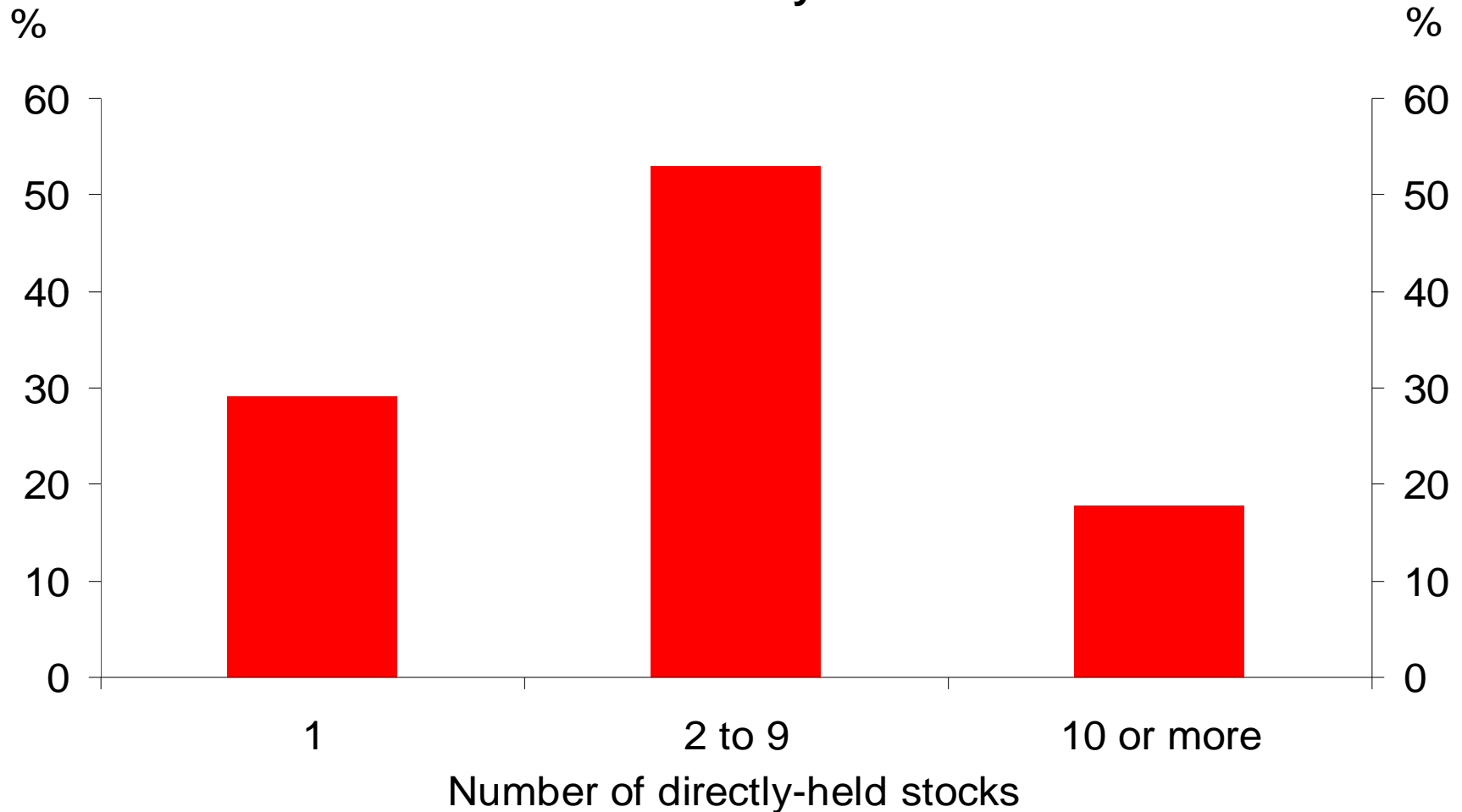


Source: FRB, DB Global Markets Research

Less than 20% of families with directly held stocks have more than 10 stocks in their portfolios



Families with directly-held stocks

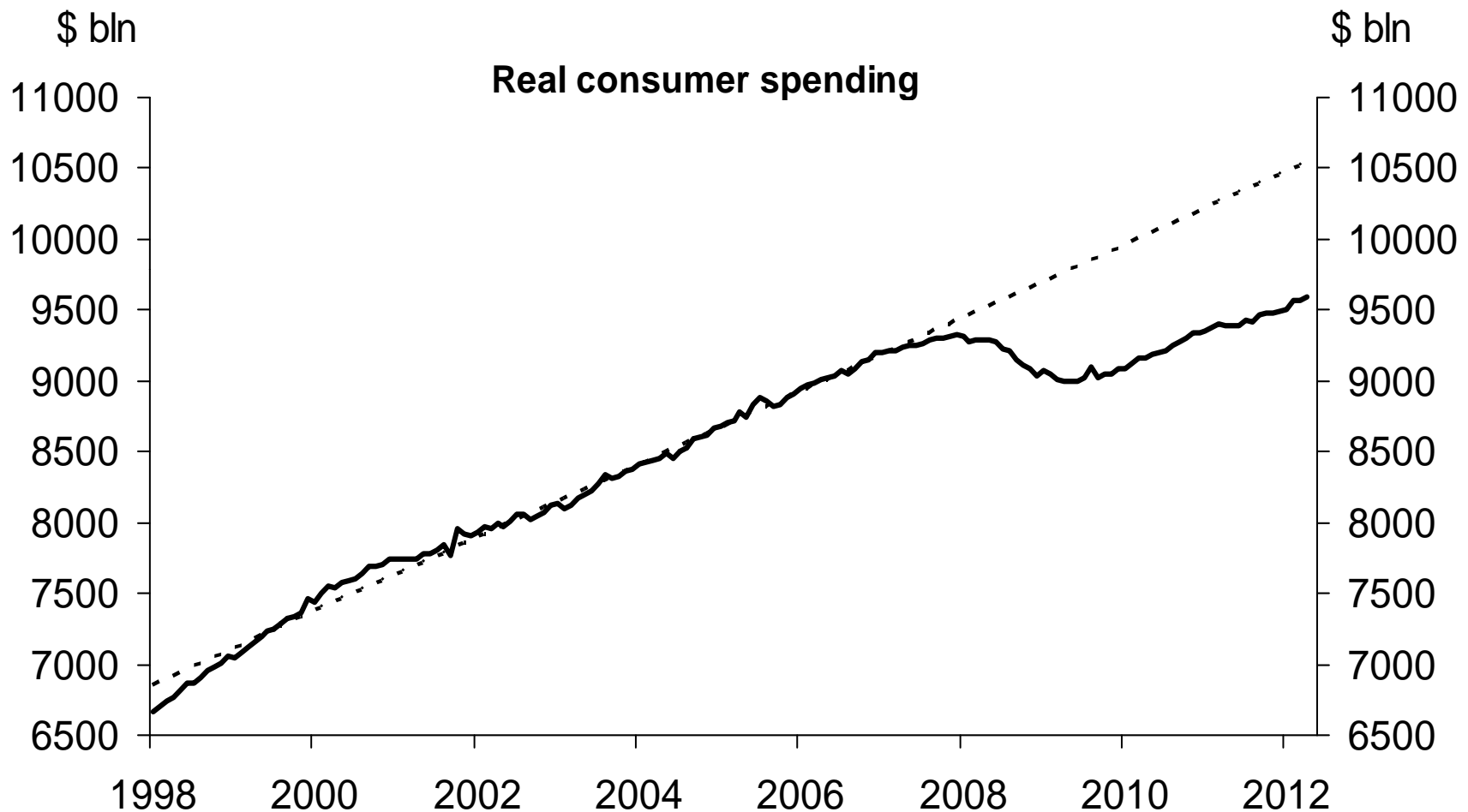


Source: FRB, DB Global Markets Research



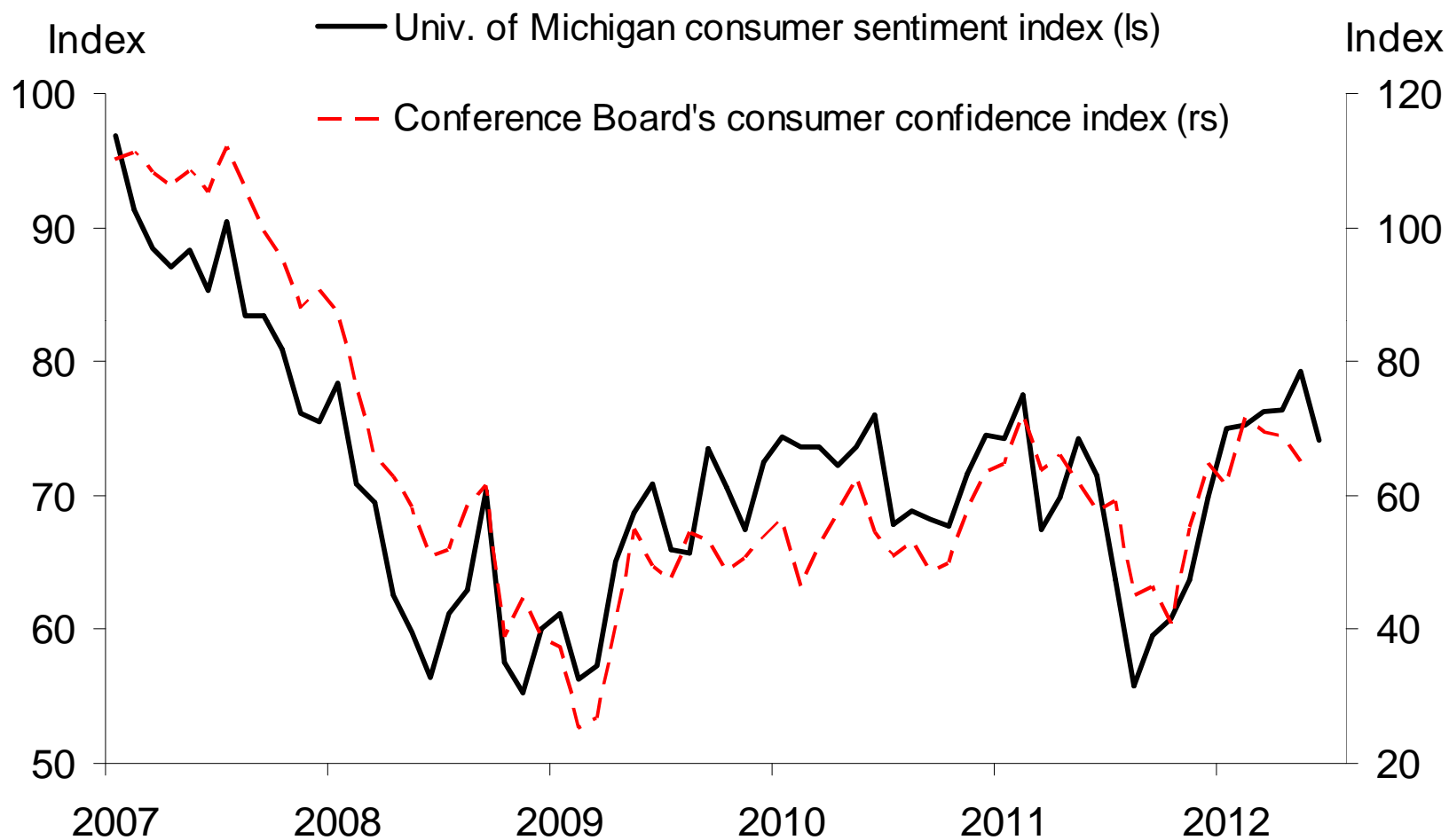
The consumer's post-crisis balance sheet

A lot of potential for consumer spending to move up toward the pre-crisis trend, but more employment and household balance sheet repair is needed to get there



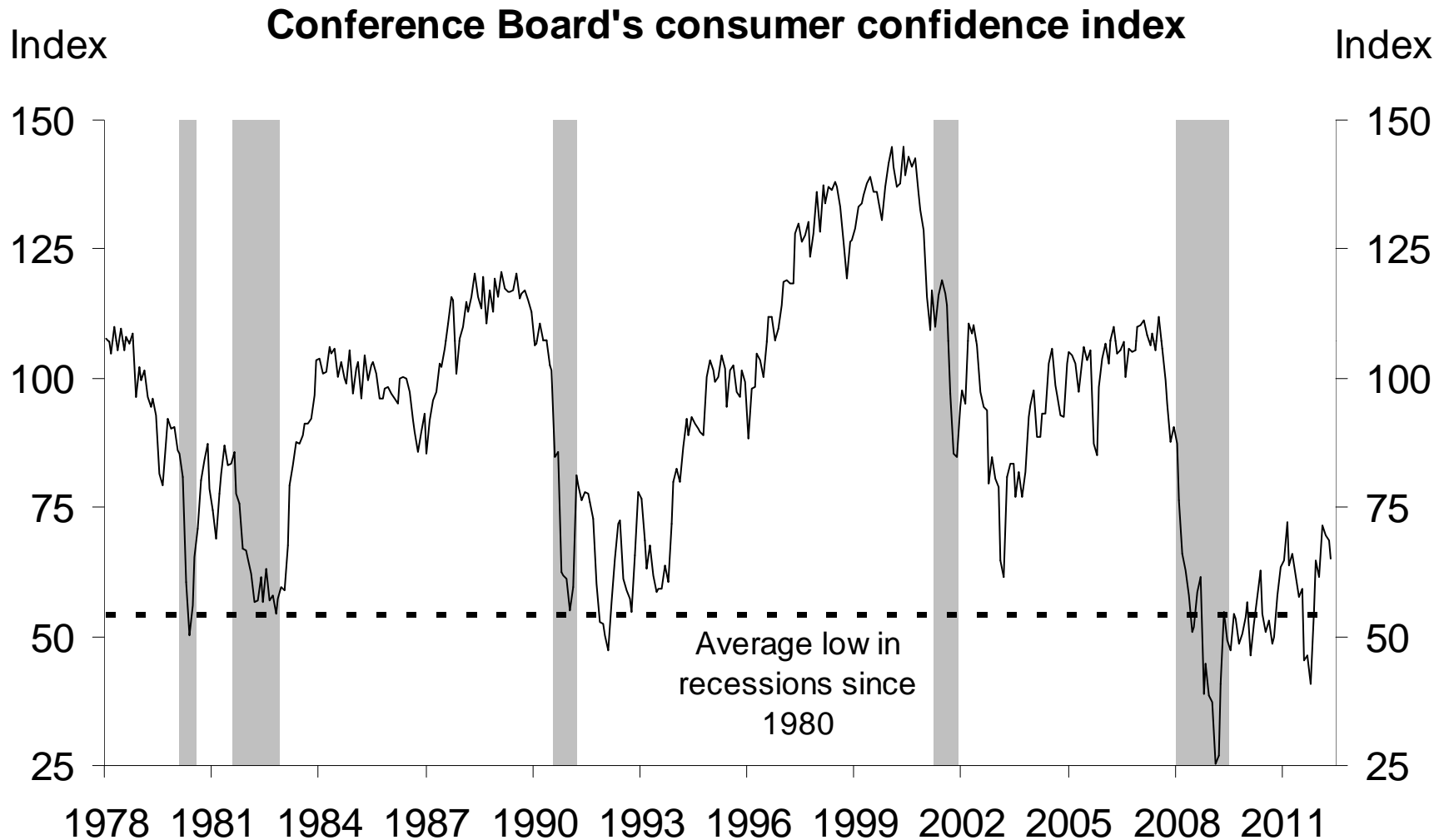
Source: BEA, Haver Analytics, DB Global Markets Research

US consumer confidence no longer rising...



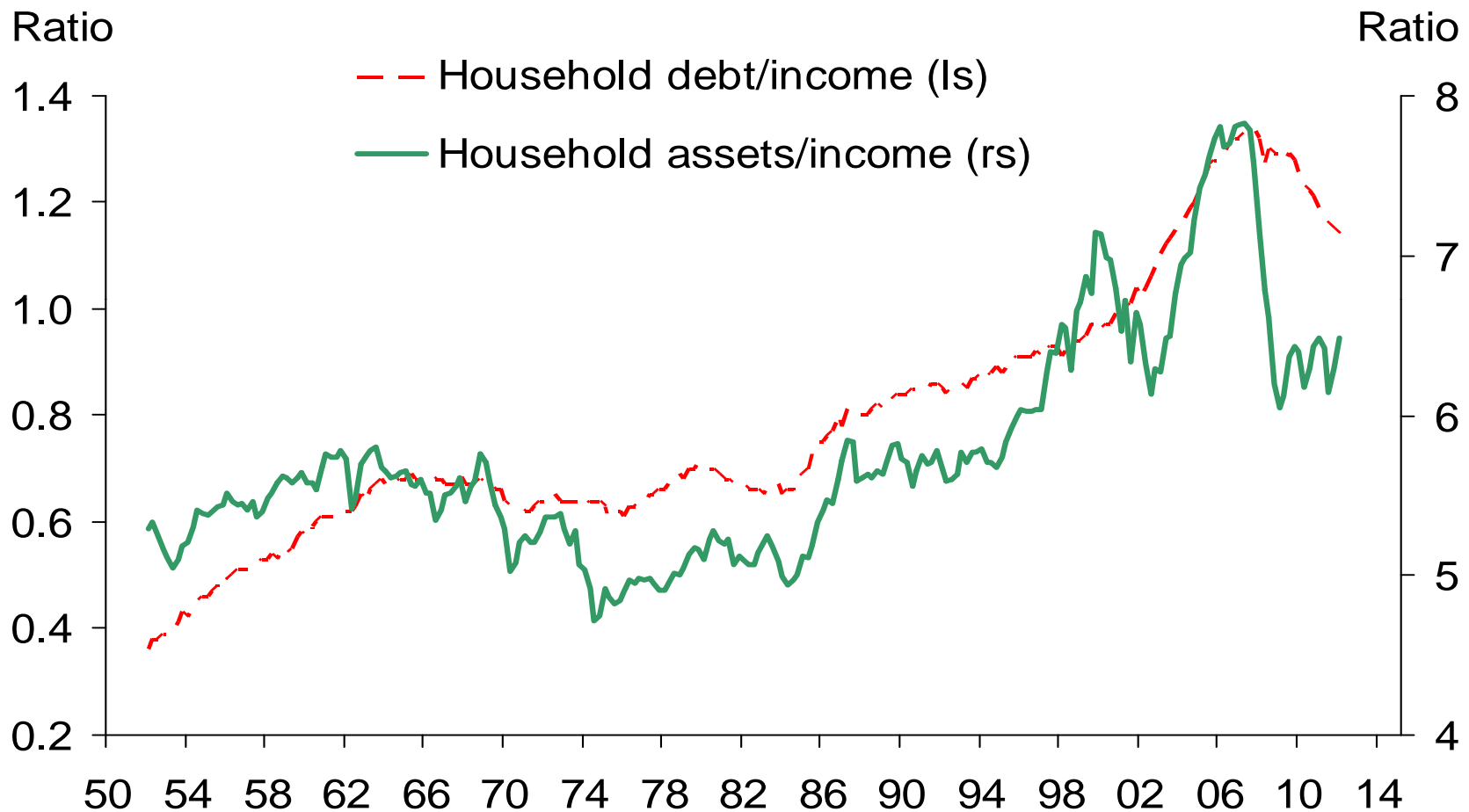
Source: Conference Board, Univ. of Mich., Haver Analytics, DB Global Markets Research

...but confidence is still higher than the average lows of previous recessions



Source: Conference Board, Haver Analytics, DB Global Markets Research

Household debt is falling and assets are slowly edging up, i.e. balance sheet repair continues



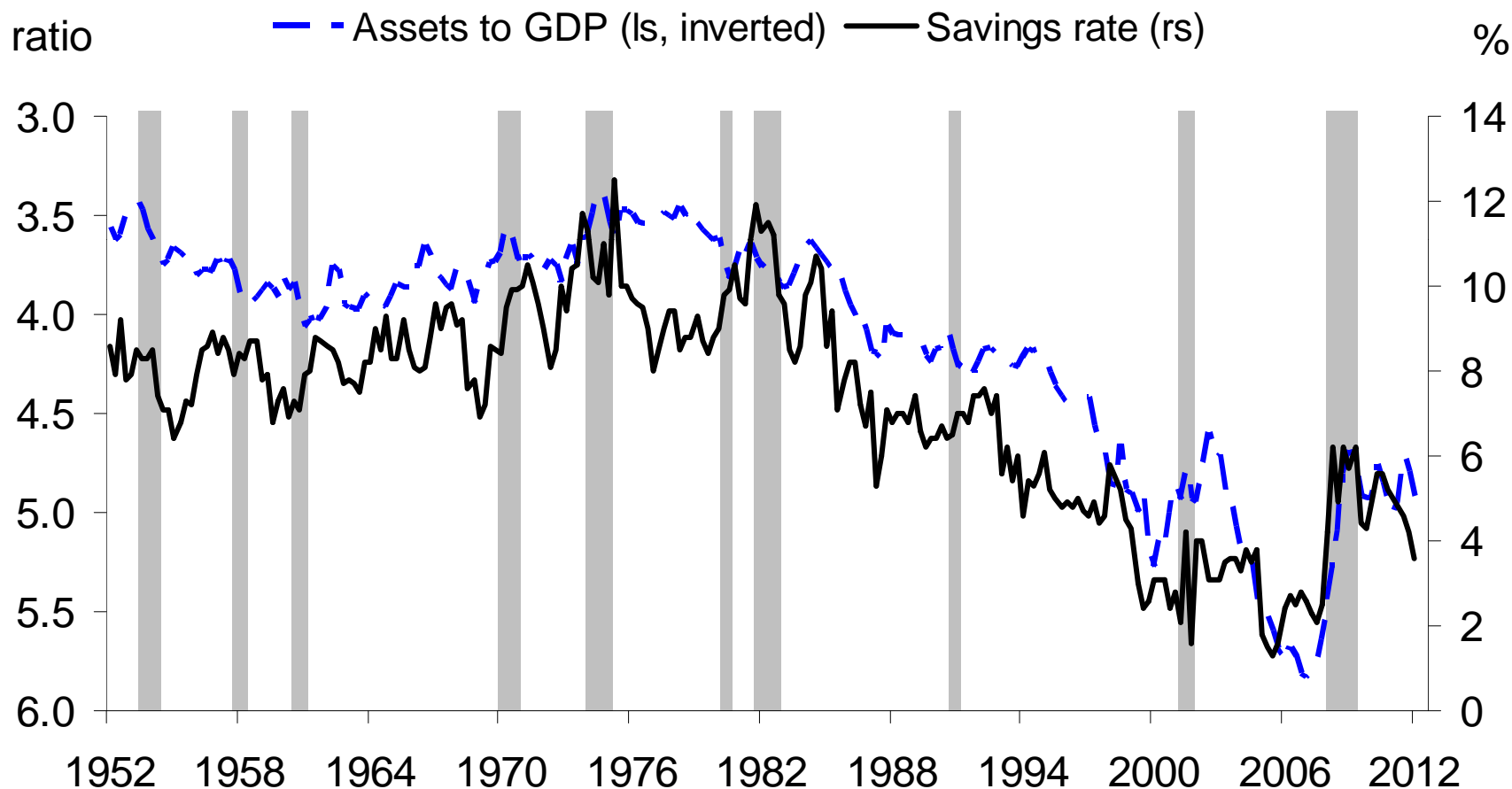
Note: Latest data for 2012Q1.

Source: FRB, Haver Analytics, DB Global Markets Research

Asset prices, i.e stock prices and home prices, are a key driver of whether consumers decide to save or spend. Partly through wealth effects partly through confidence effects



Households



Source: FRB, BEA, Haver Analytics, DB Global Markets Research



Understanding the Deleveraging Process

Understanding leverage



Leveraging up

Easy to borrow/low margins

Leverage rising

Rise in asset prices

Margins fall further

Deleveraging

Hard to borrow/high margins

Deleveraging

Asset prices fall

Margins rise further

Leverage enters traditional consumption models via households' net worth. In other words, what happens to equity and home prices is very important for how much more deleveraging is needed



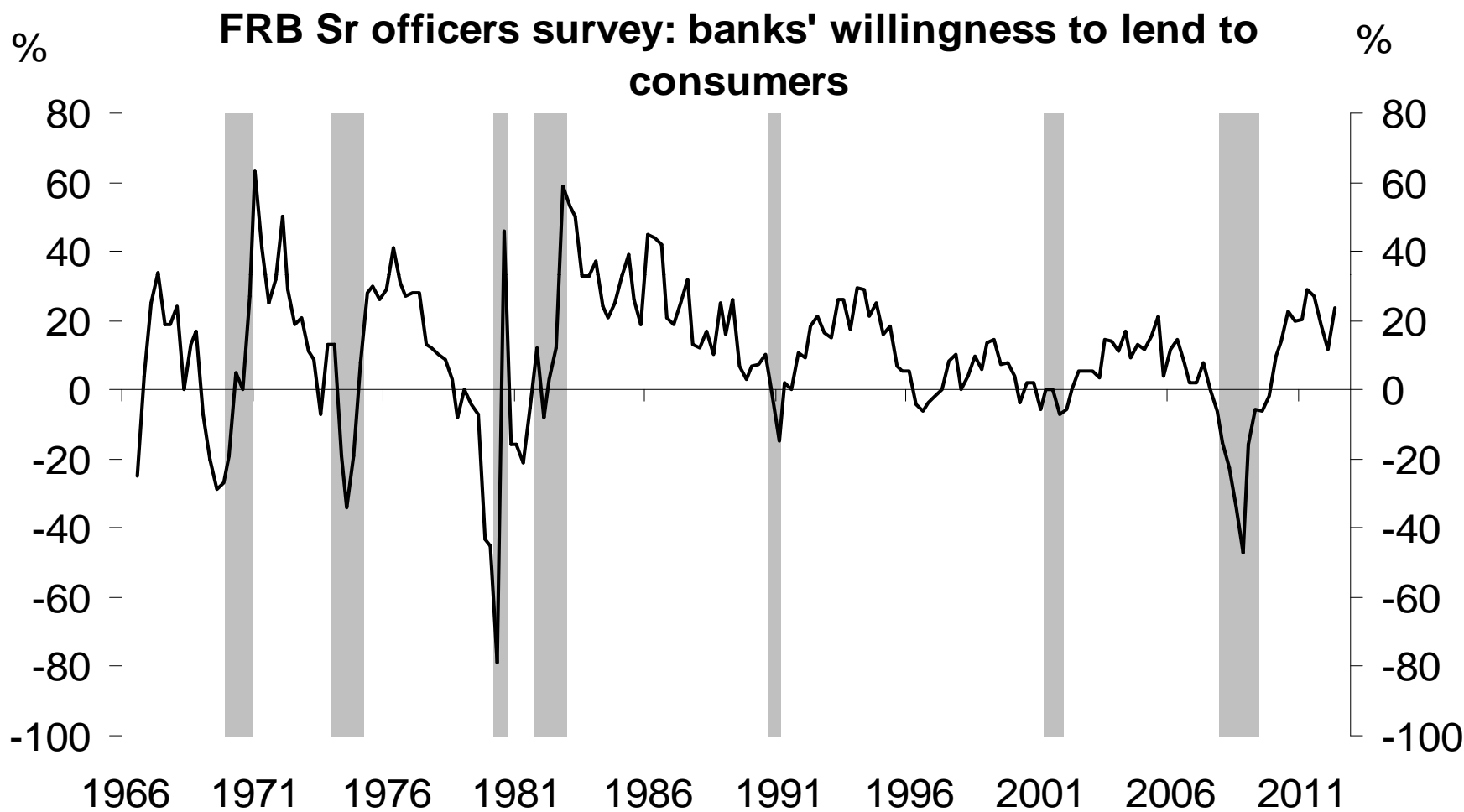
Private consumption is driven by:

$$\text{Consumption} = A1 * \text{Income} + A2 * \text{Net Housing Wealth} + A3 * \text{Net Financial Wealth} + A4 * \text{Interest rate}$$

Households' net worth = assets – liabilities. Assets are much more volatile than liabilities. And assets are driven by expectations to the future and Fed policy. As a result, lower interest rates and easier financial conditions (for example as a result of QE/Operation Twist and Fed communication) can lead to higher asset prices, which again can end the deleveraging process and ultimately raise consumer spending growth. If asset prices don't rise then the deleveraging process will take longer to complete.



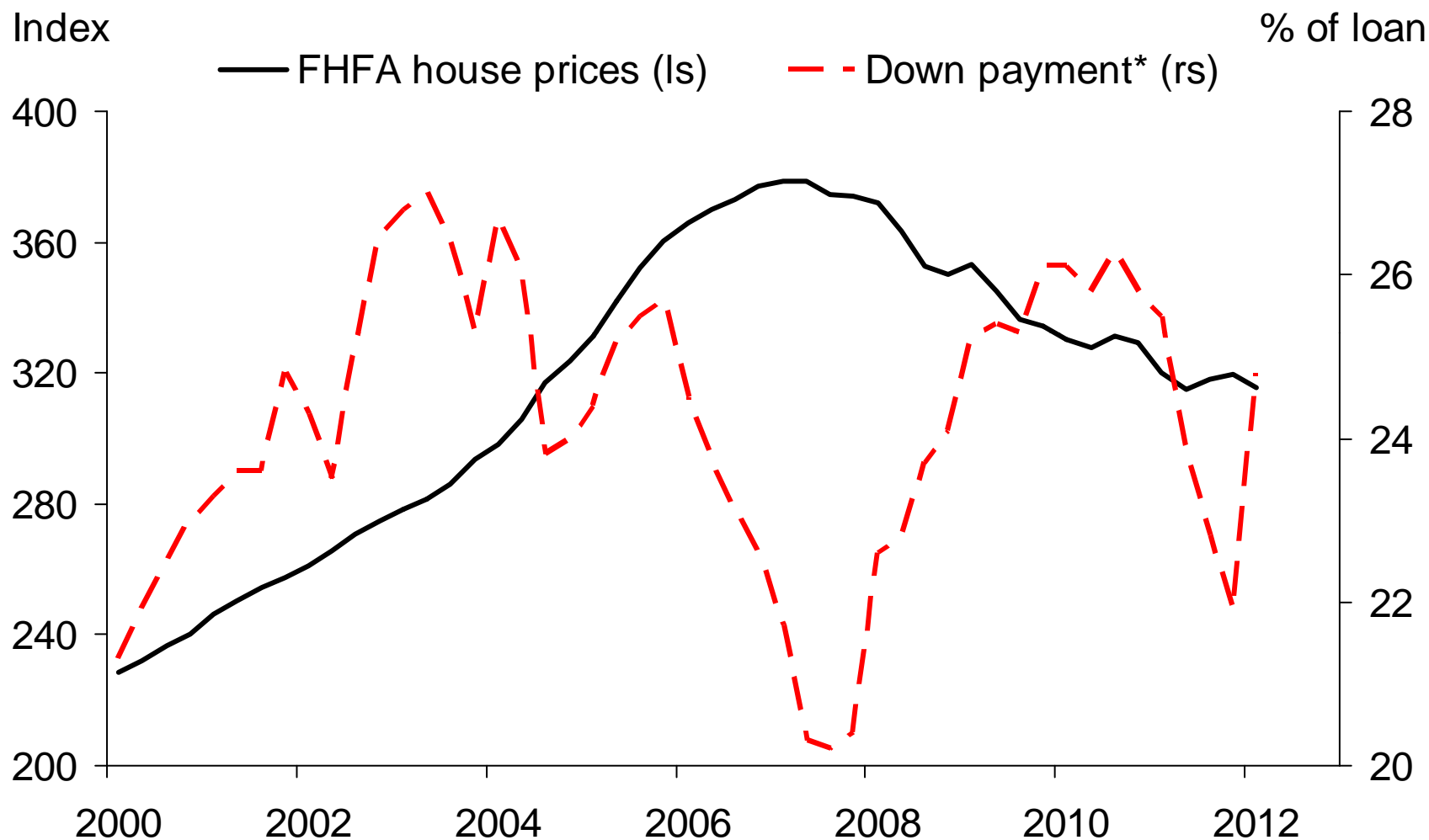
Banks are more willing to lend to consumers



Source: FRB, Haver Analytics, DB Global Markets Research



Average down payment on a house rising recently



* Denotes the average down payment on all loans closed

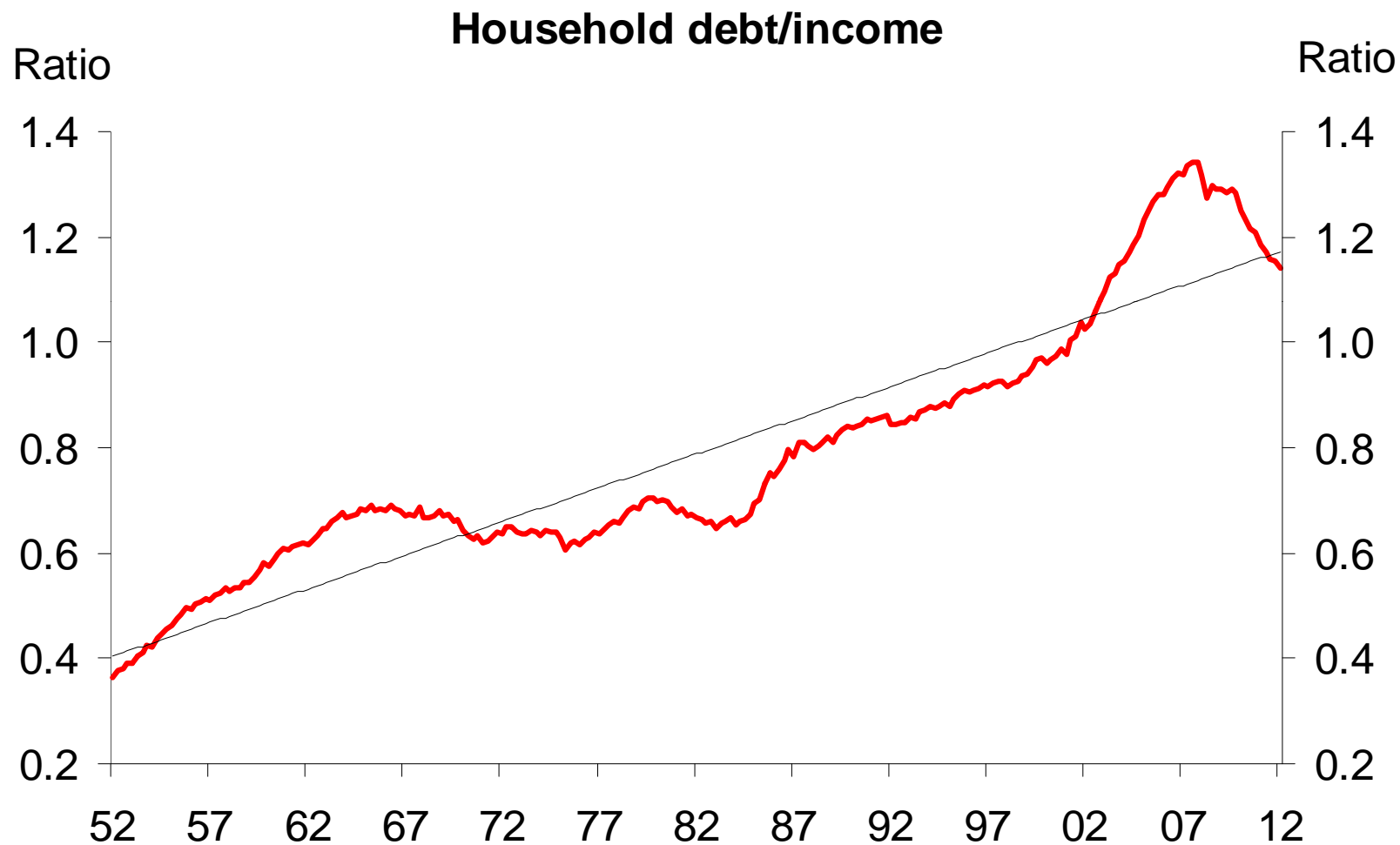
Source: FHFA, Haver Analytics, DB Global Markets Research



How far are deleveraging indicators from their pre-bubble (=2003/2004) levels?

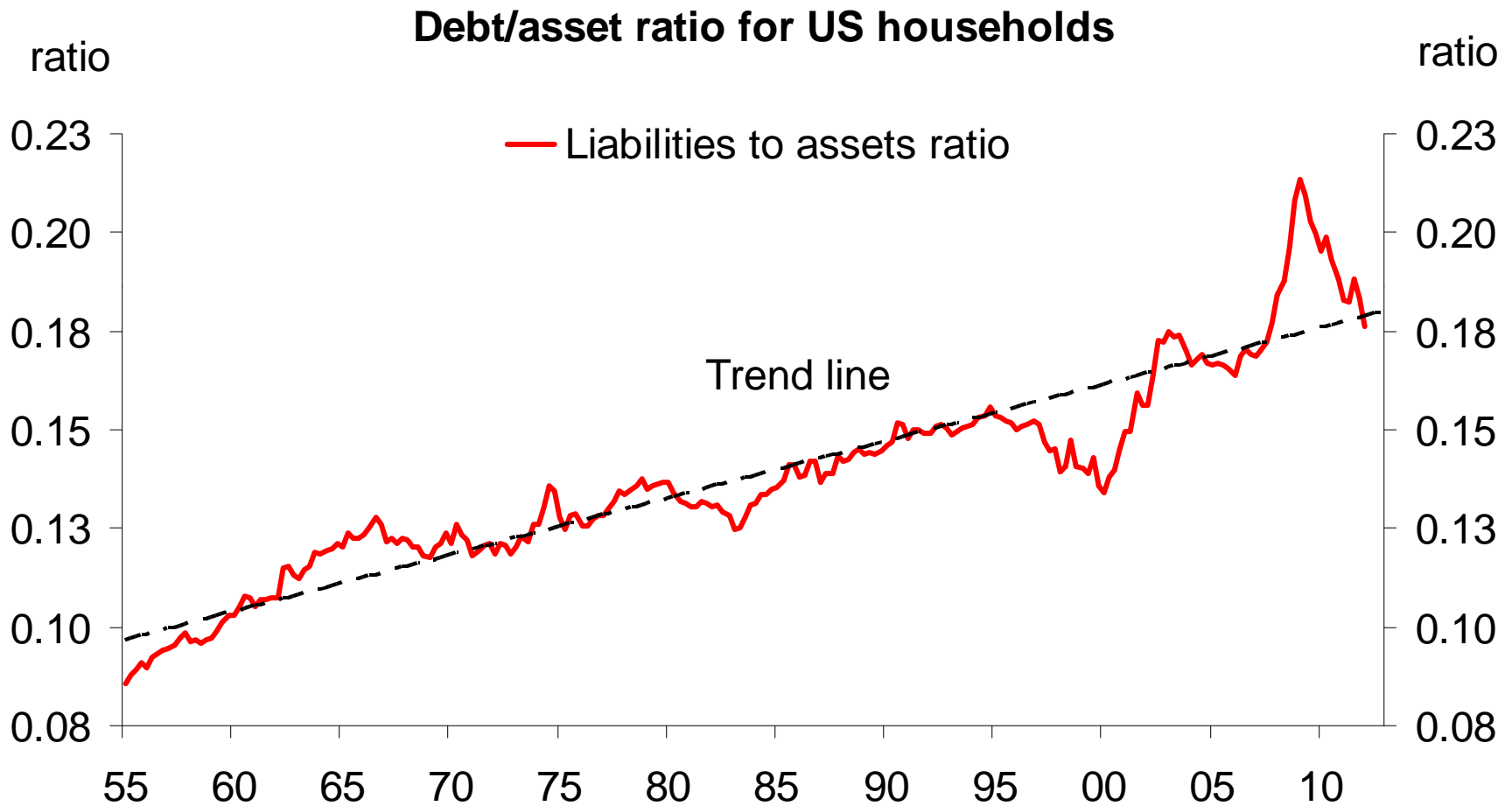


We are back to the historical trend in debt/income
– undershooting likely



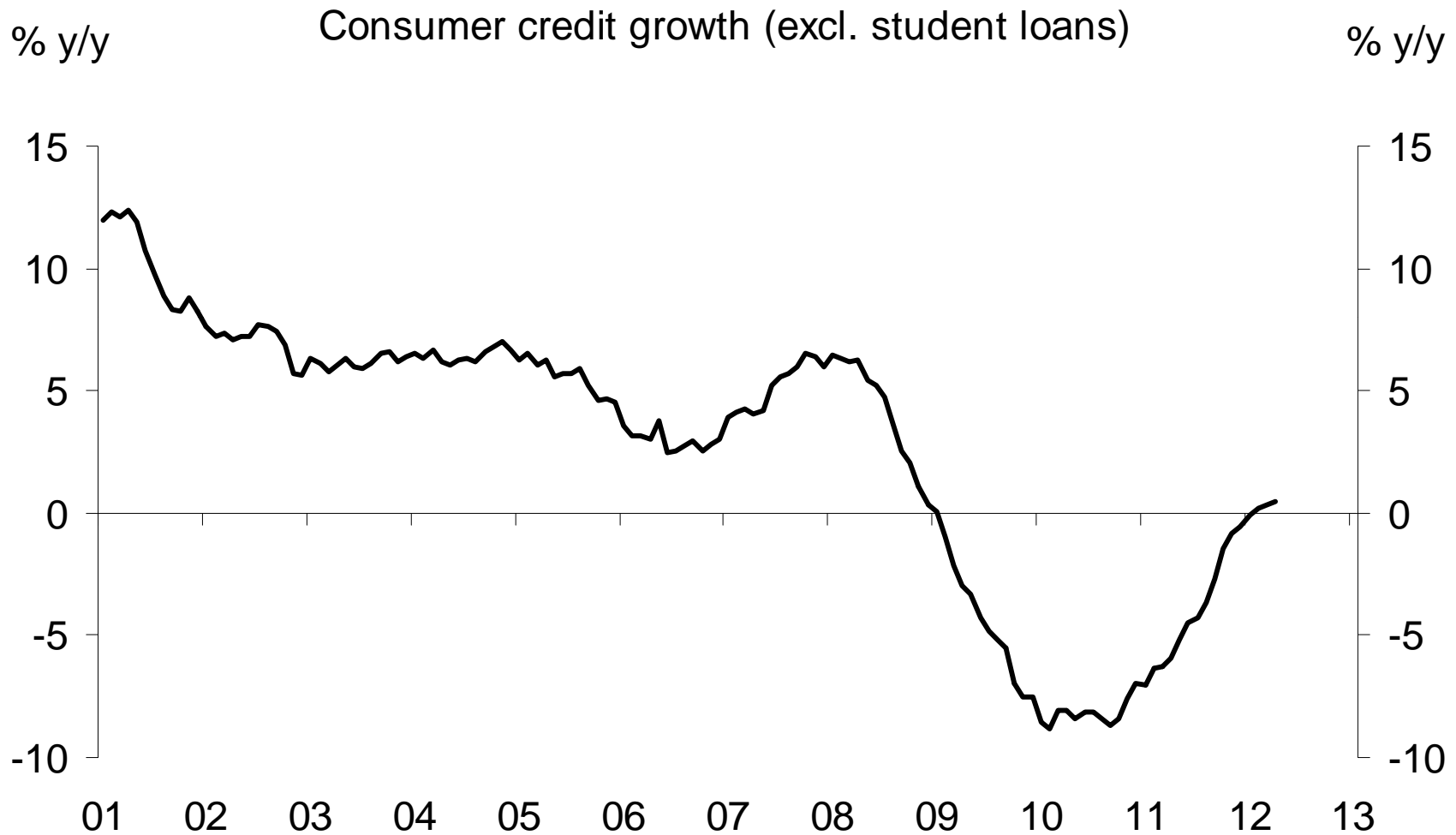
Source: FRB, Haver Analytics, DB Global Markets Research

Household liabilities to assets now below trend



Source: FRB, Haver Analytics, DB Global Markets Research

Consumer credit growth has cut through zero ...



Source: FRB, Haver Analytics, DB Global Markets Research

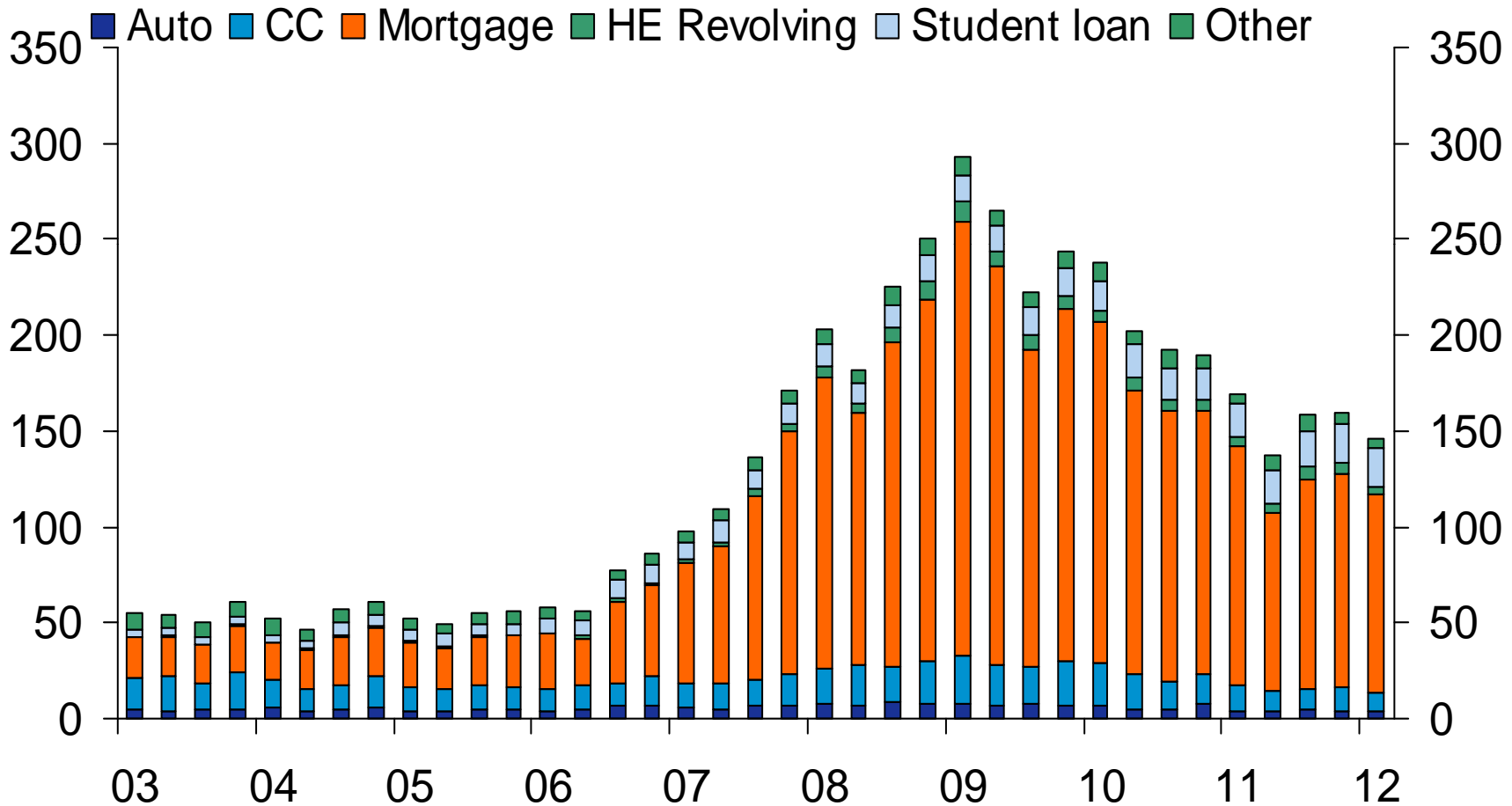
...but because of ongoing problems in the housing market new seriously delinquent loans are only back to their 2007 level and starting to move sideways...



\$ bil

New seriously delinquent balances by loan type*

\$ bil

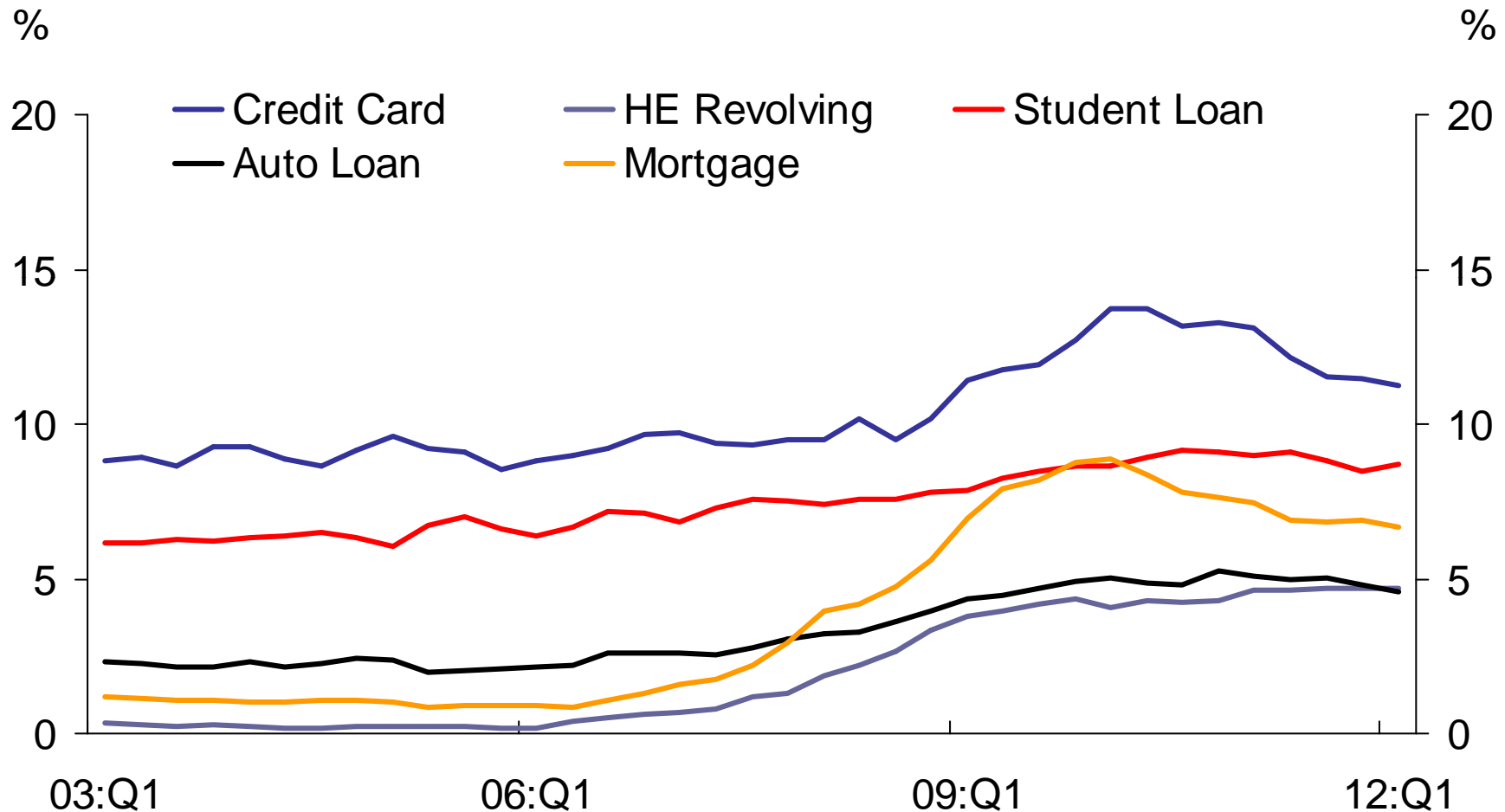


Source: FRB-New York, DB Global Markets Research

...and 90+ days delinquent balance near 2008 and 2009 levels and moving sideways...

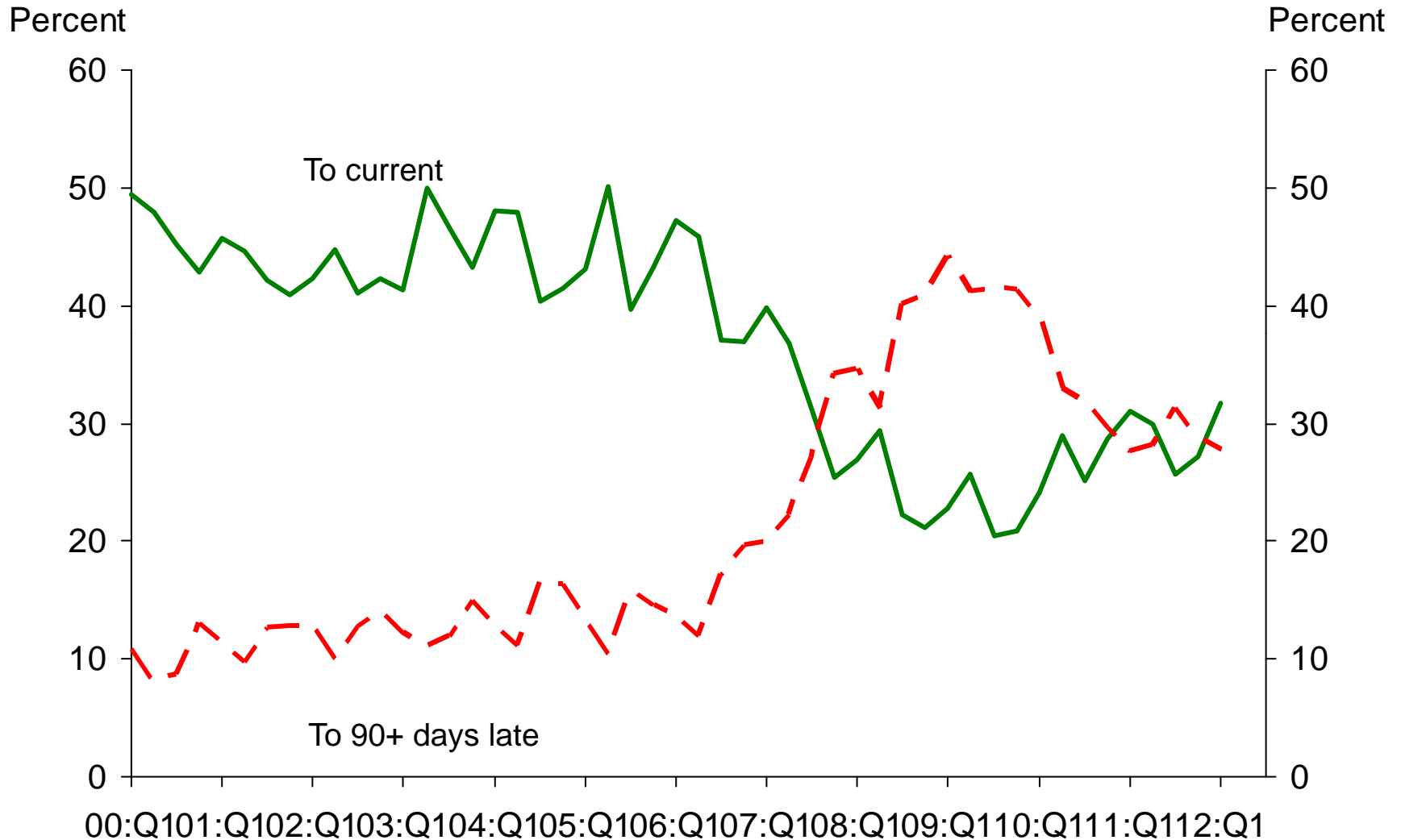


Percent of Balance 90+ Days Delinquent by Loan Type*



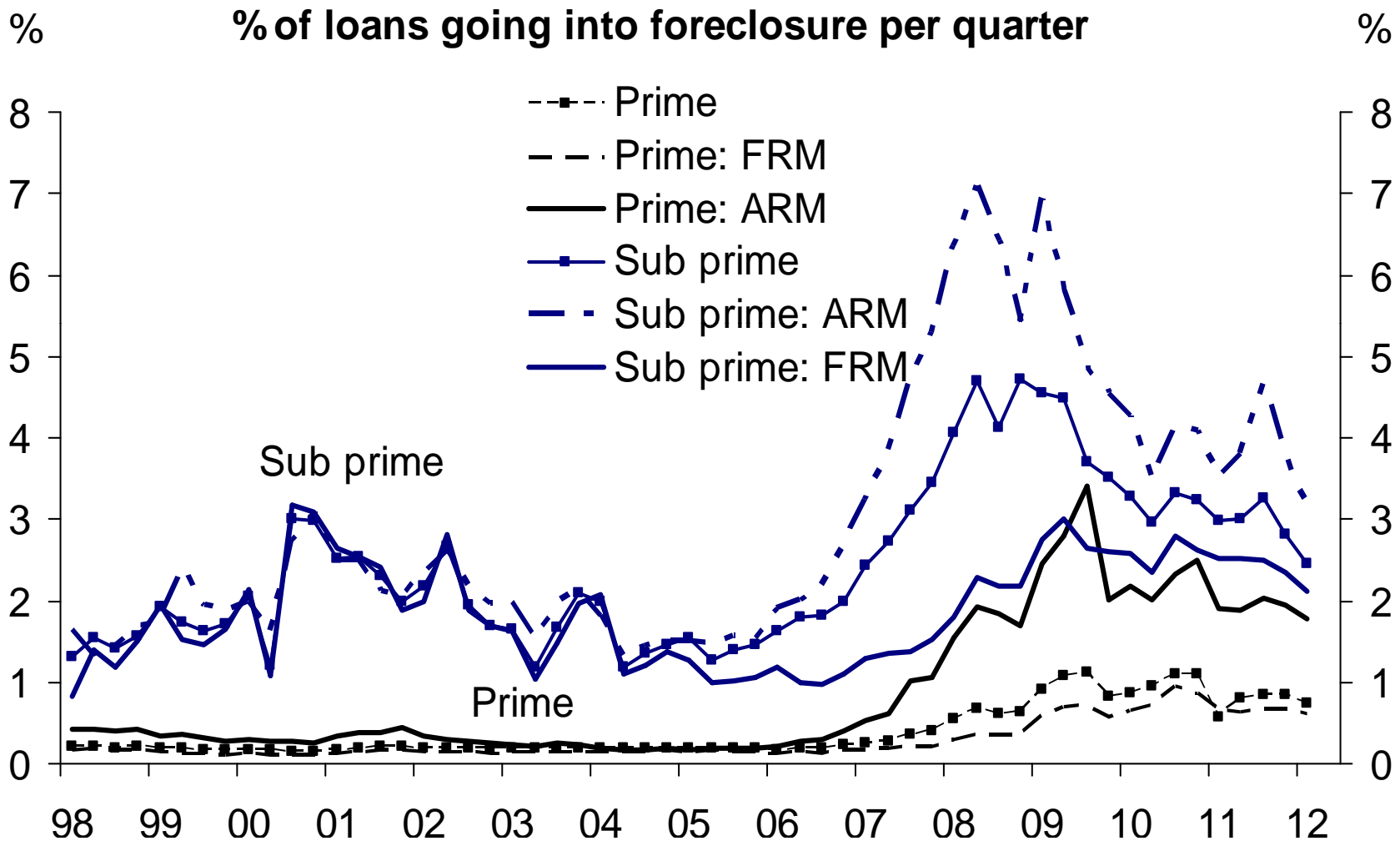
Source: FRB-New York, DB Global Markets Research

...but we have seen an improvement recently in transition rates for loans that are 30-60 days delinquent...



Source: FRB-New York, DB Global Markets Research

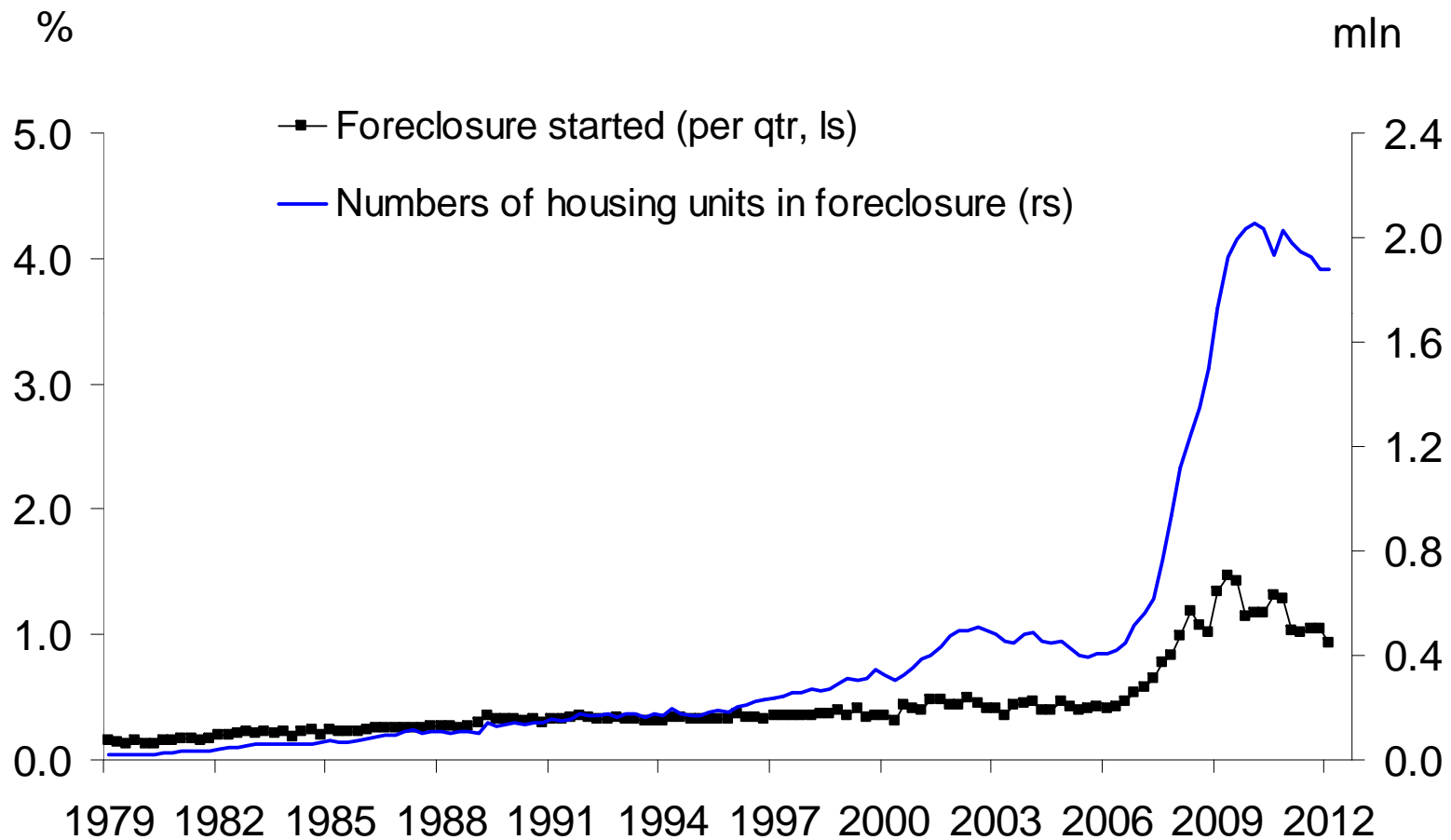
...and the number of people who are going into foreclosure is falling...



Note: ARM=Adjustable Rate Mortgage, FRM=Fixed Rate Mortgage

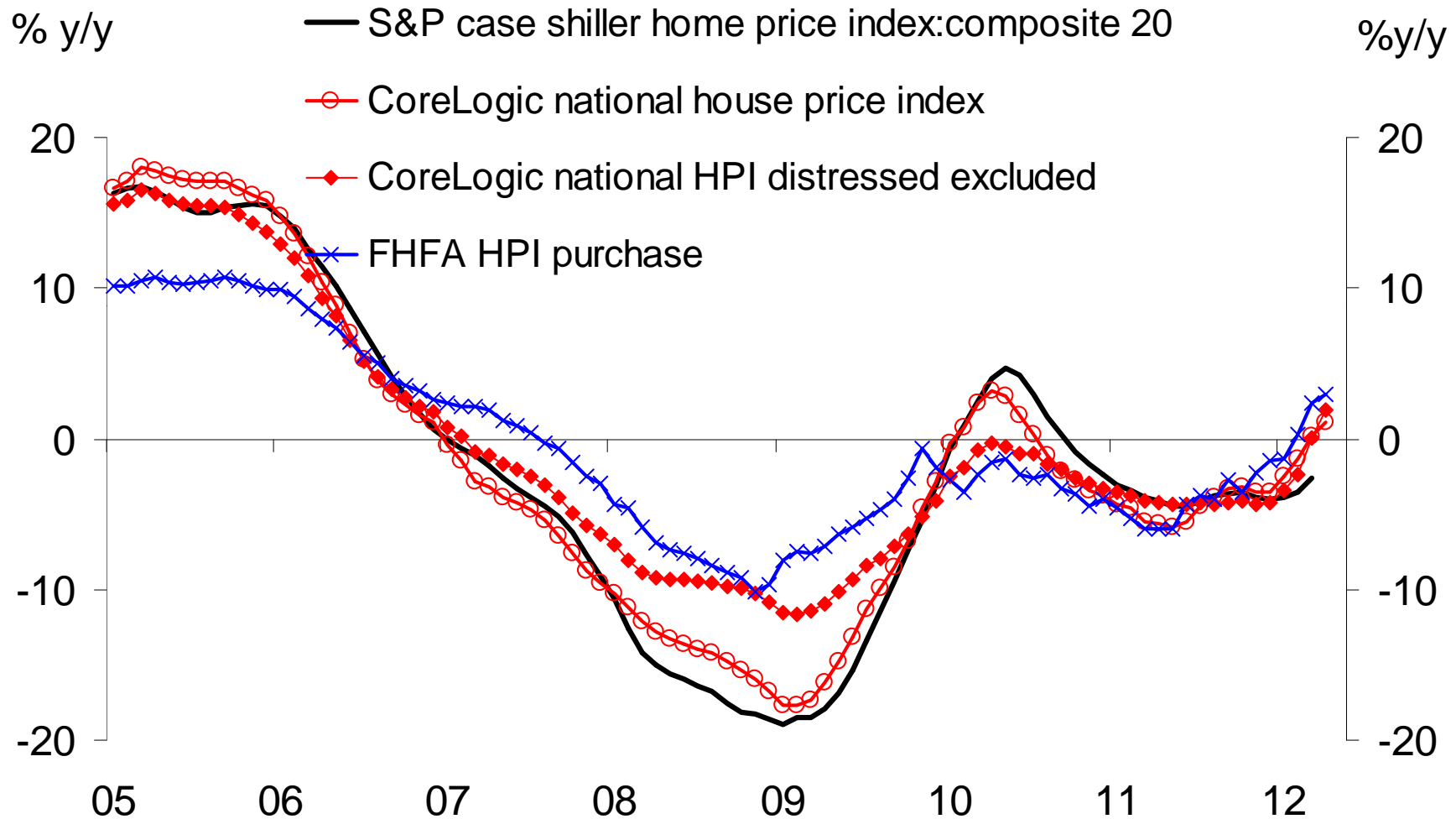
Source: MBA, Datastream, DB Global Markets Research

...and the total number of households in foreclosure slowly coming down...



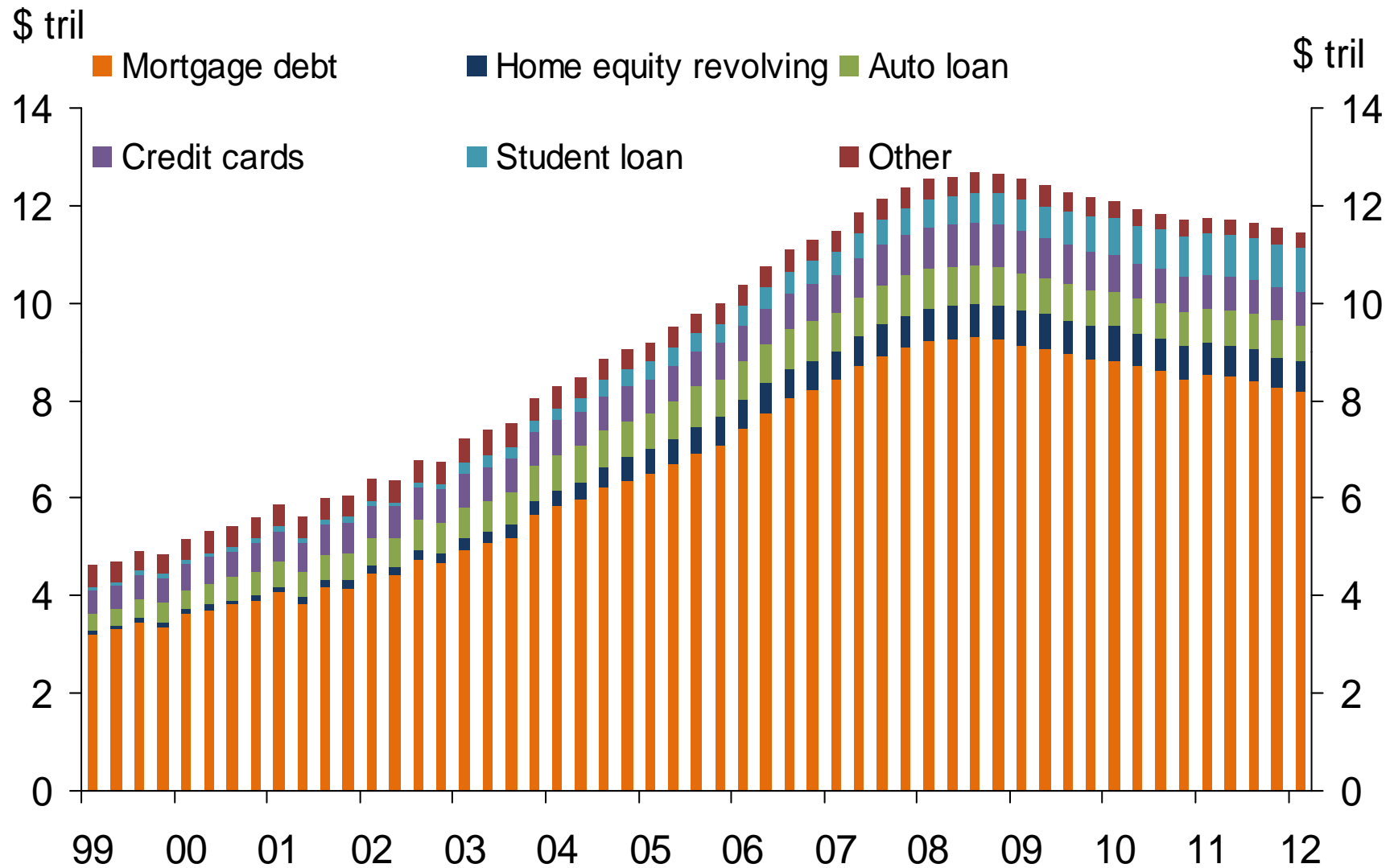
Source: MBA, Datastream, DB Global Markets Research

...and home prices starting to turn up...



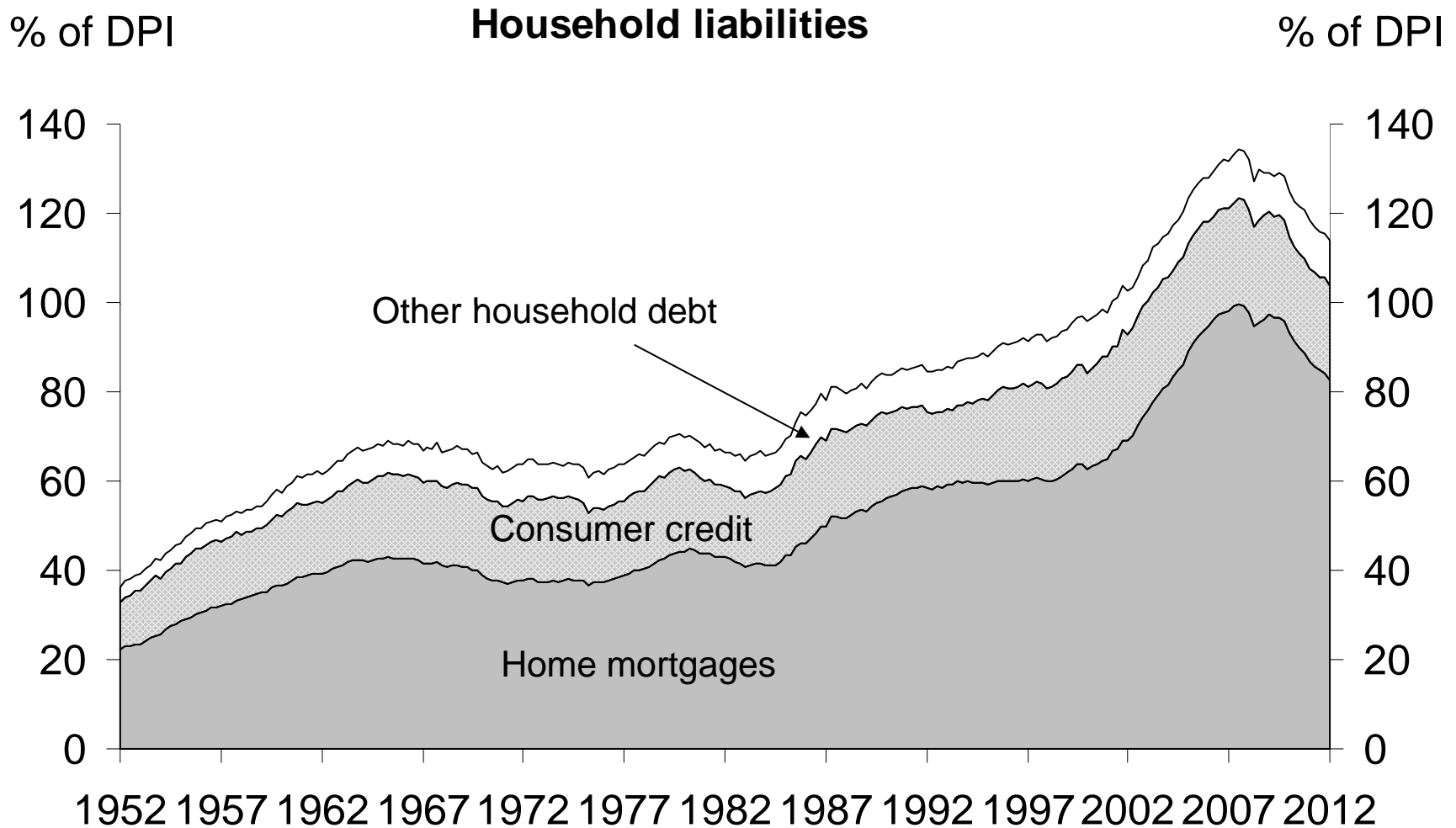
Source: S&P, CoreLogic, FHFA, Haver Analytics, DB Global Markets Research

...and total household absolute debt levels back to the 2007 level...



Source: FRB, DB Global Markets Research

...but as a share of income the downtrend in household debt continues and we are currently at 2003/2004 levels...

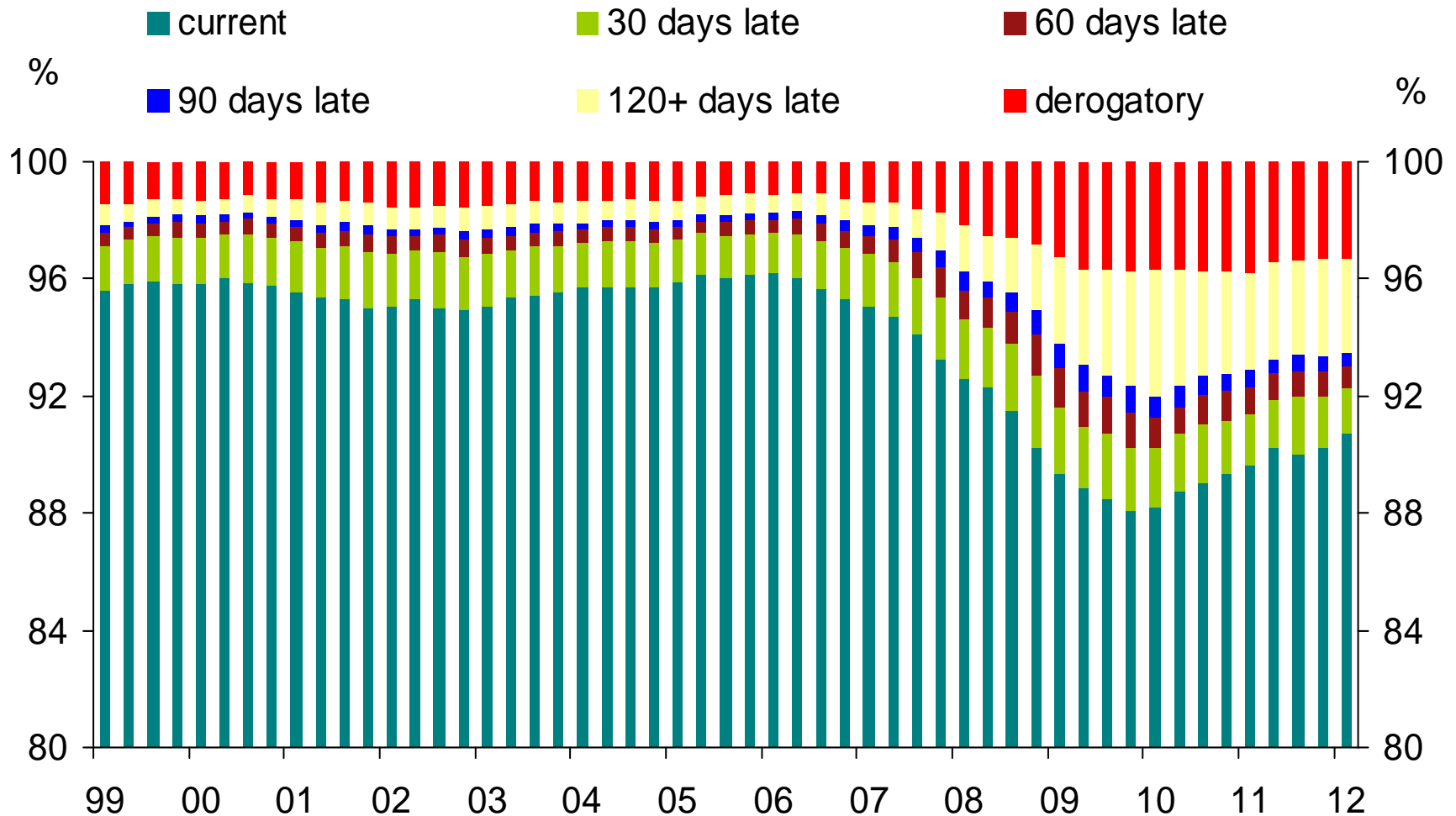


Source: FRB, Haver Analytics, DB Global Markets Research

...and the number of loans that are current are at the 2008 level...



Total balance by delinquency status



Source: FRB-New York, DB Global Markets Research

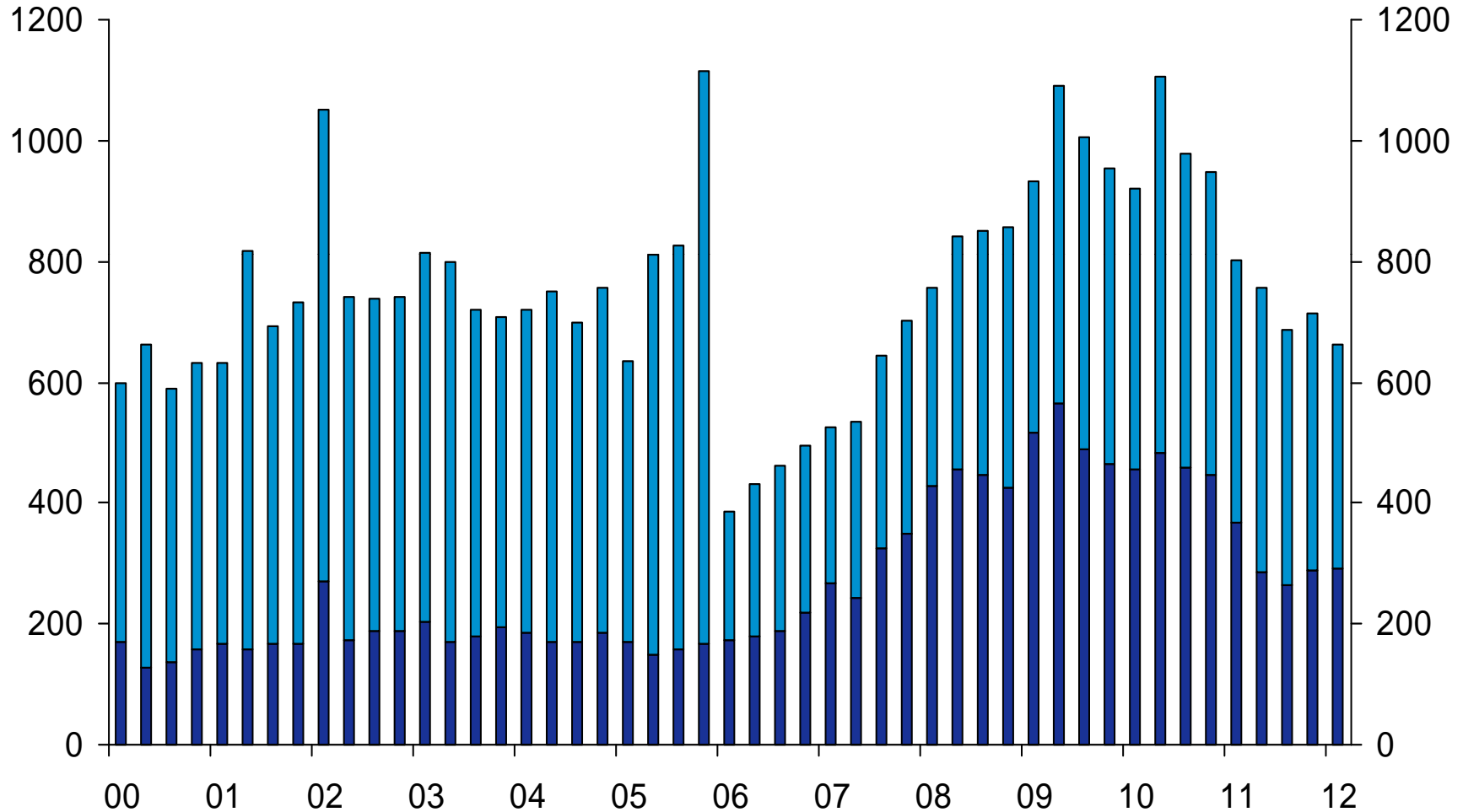
...and new foreclosures and bankruptcies still elevated but lower than in 2009 and 2010...



Thous

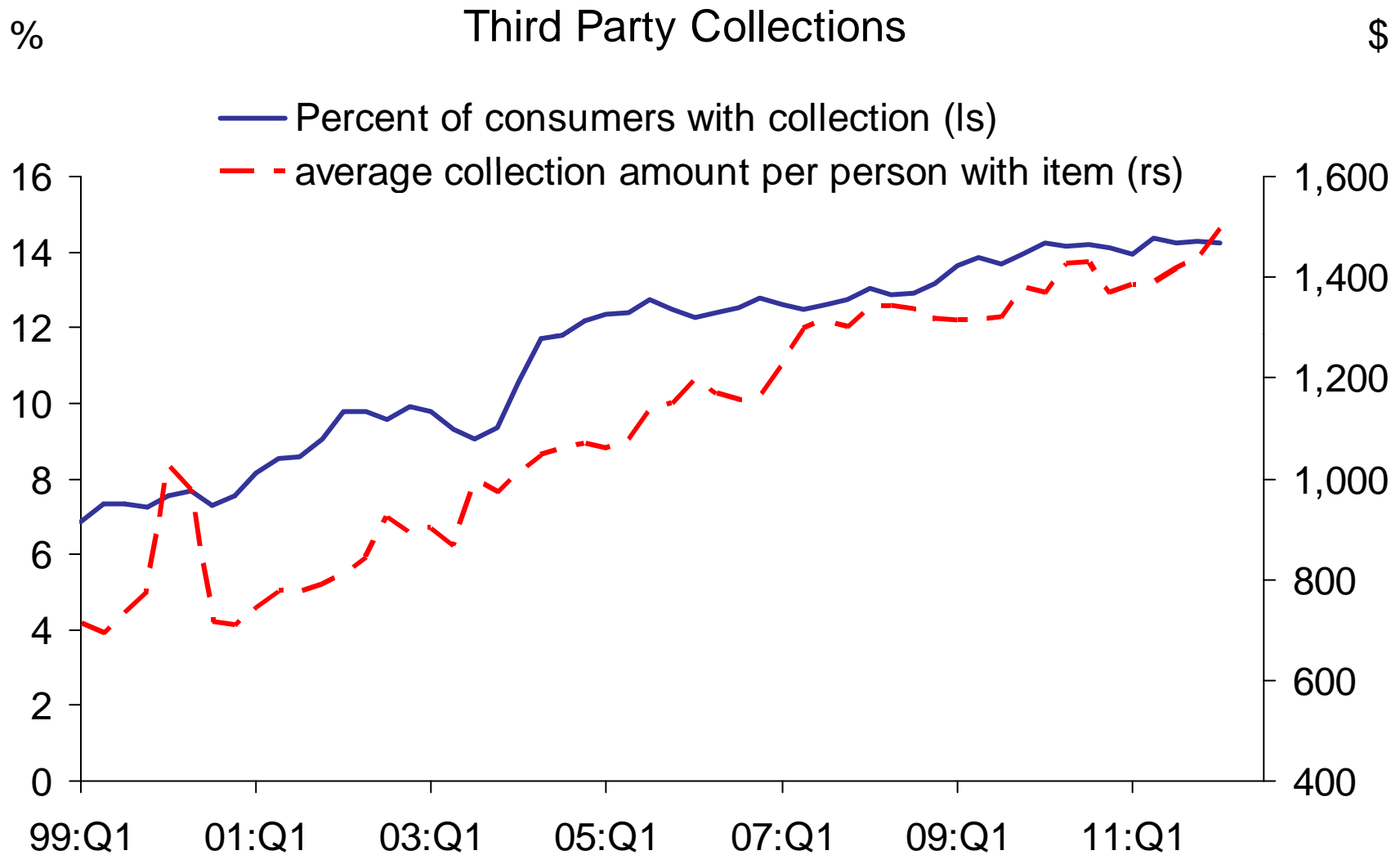
Thous

■ New foreclosures ■ New bankruptcies



Source: FRB-New York, DB Global Markets Research

...and still significant collection problems: Average collection amount per person at \$1,500, an all-time high

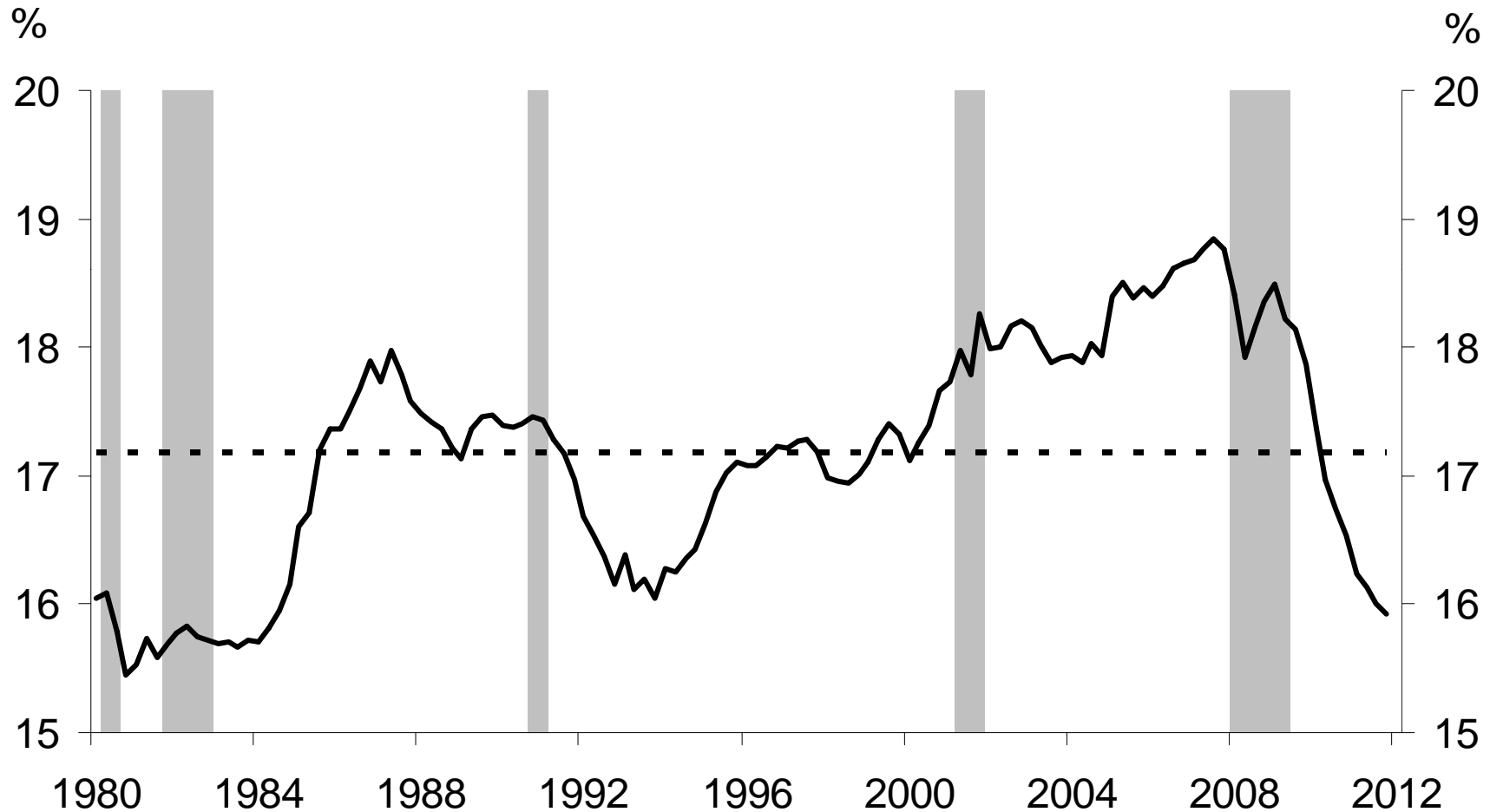


Source: FRB-New York, DB Global Markets Research

Households' financial obligations ratio at the lowest level since 1984, mainly because of low interest rates



Financial obligations ratio

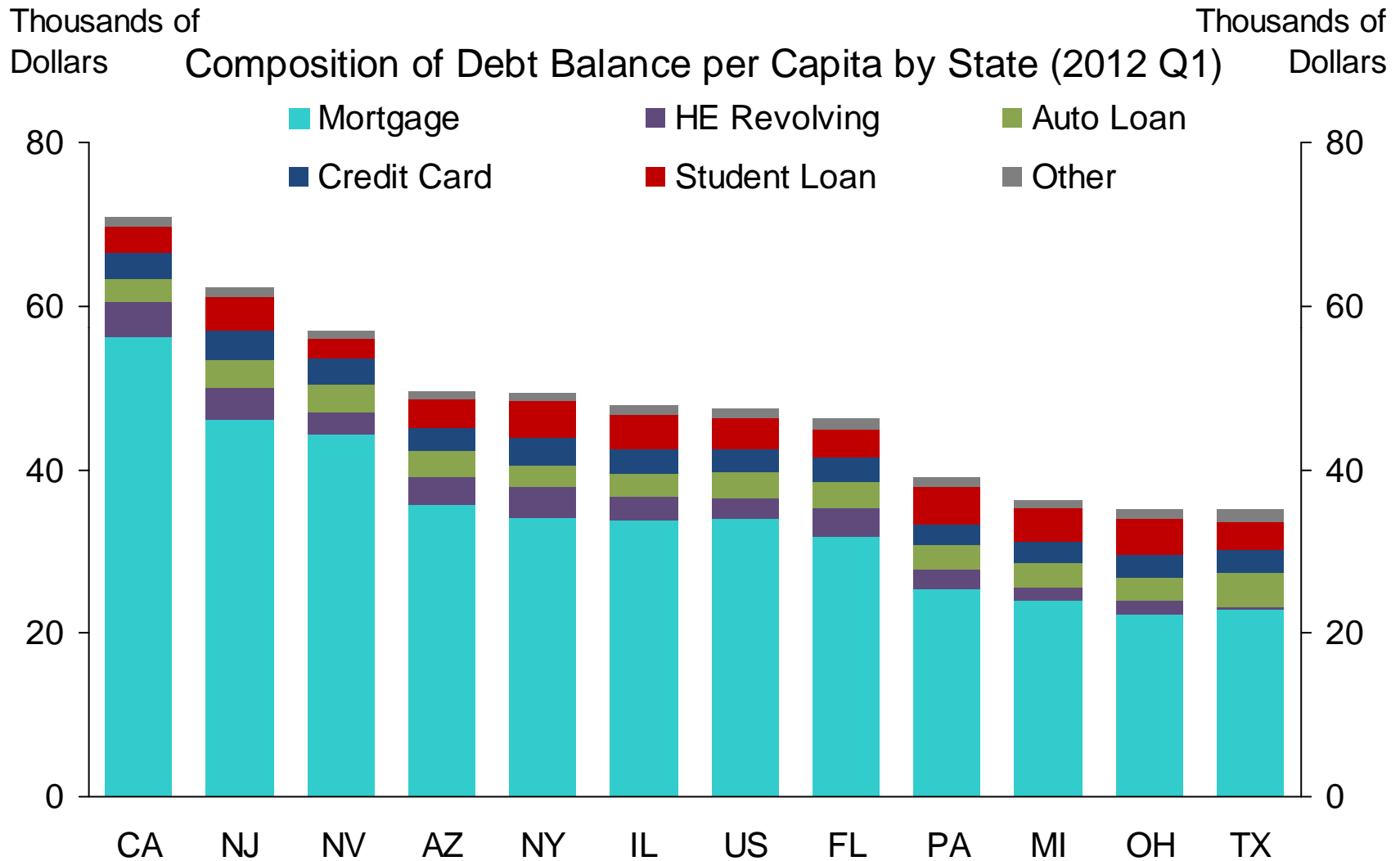


Source: FRB, Haver Analytics, DB Global Markets Research



Household Deleveraging at the State Level

Per capita debt levels vary by state

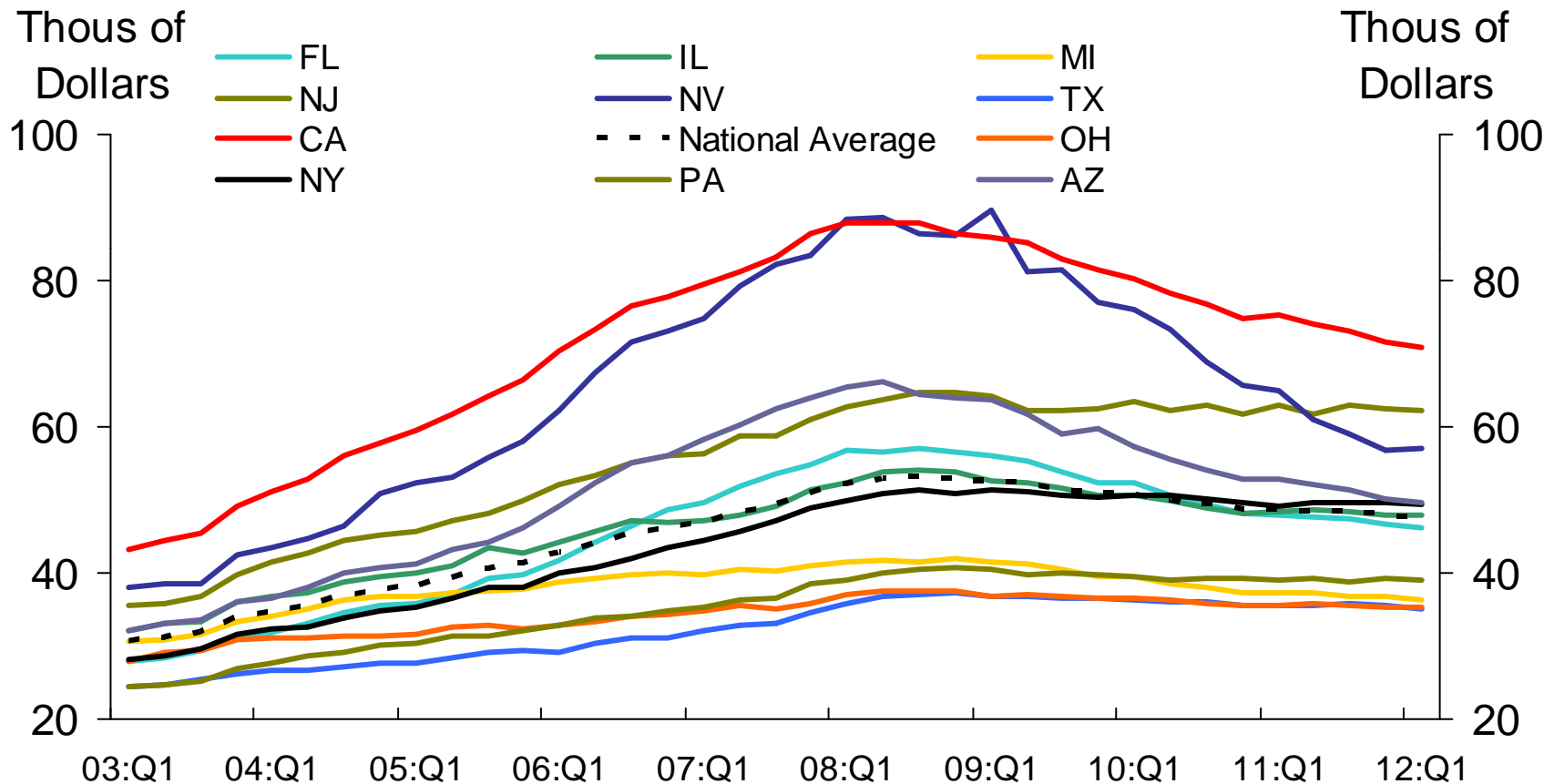


Source: FRB-New York, DB Global Markets Research

Deleveraging has hit housing bubble states particularly hard, but we have come a long way in the adjustment. Bubble states now close to 2006/2007 levels, non-bubble states closer to historical averages



Total Debt Balance per Capita* by State



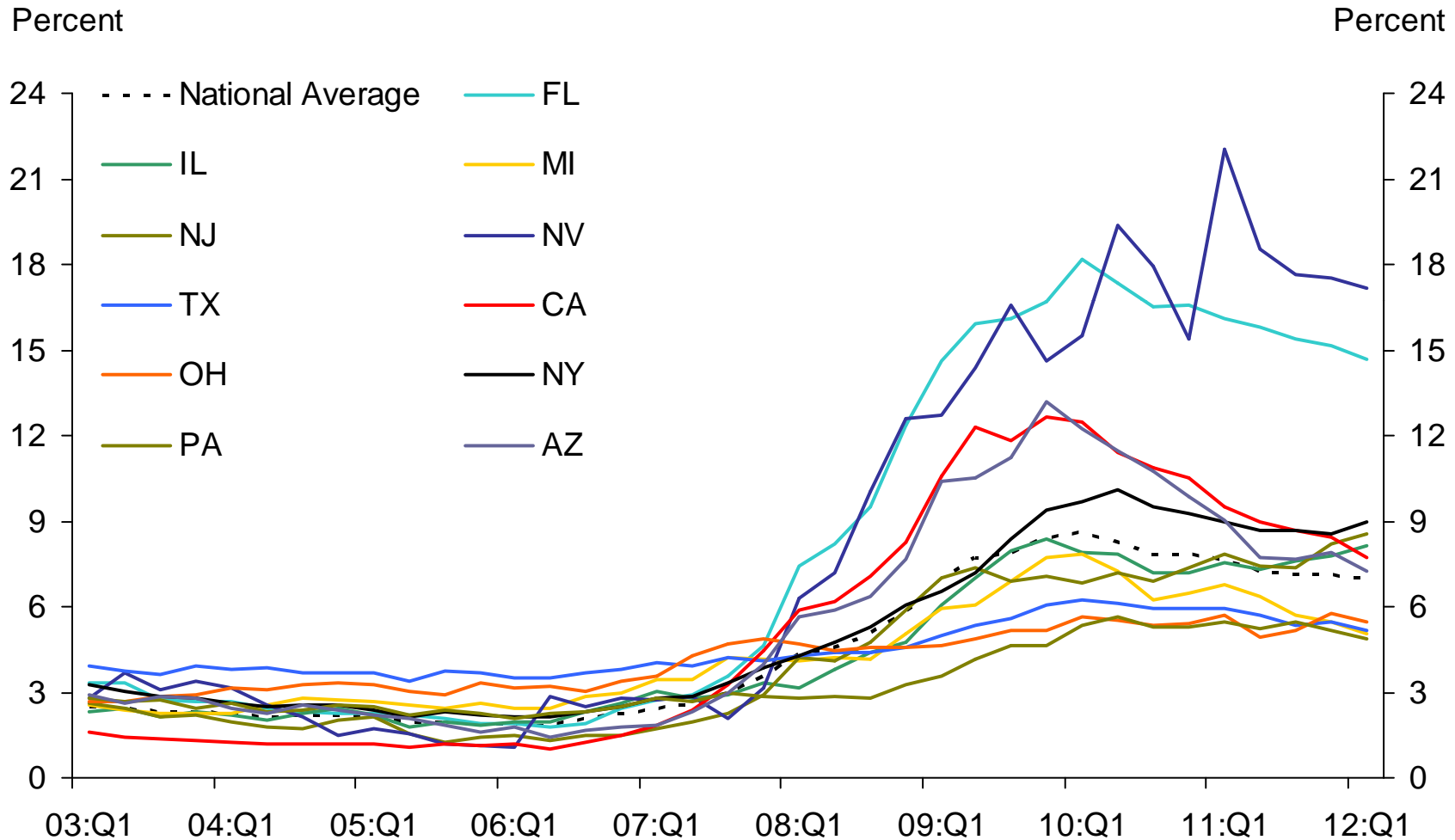
* Based on the population with a credit report

Source: FRB-New York, DB Global Markets Research

Seriously delinquent loans: Nevada still elevated, the rest getting better



Percent of Balance 90+ Days Late by State

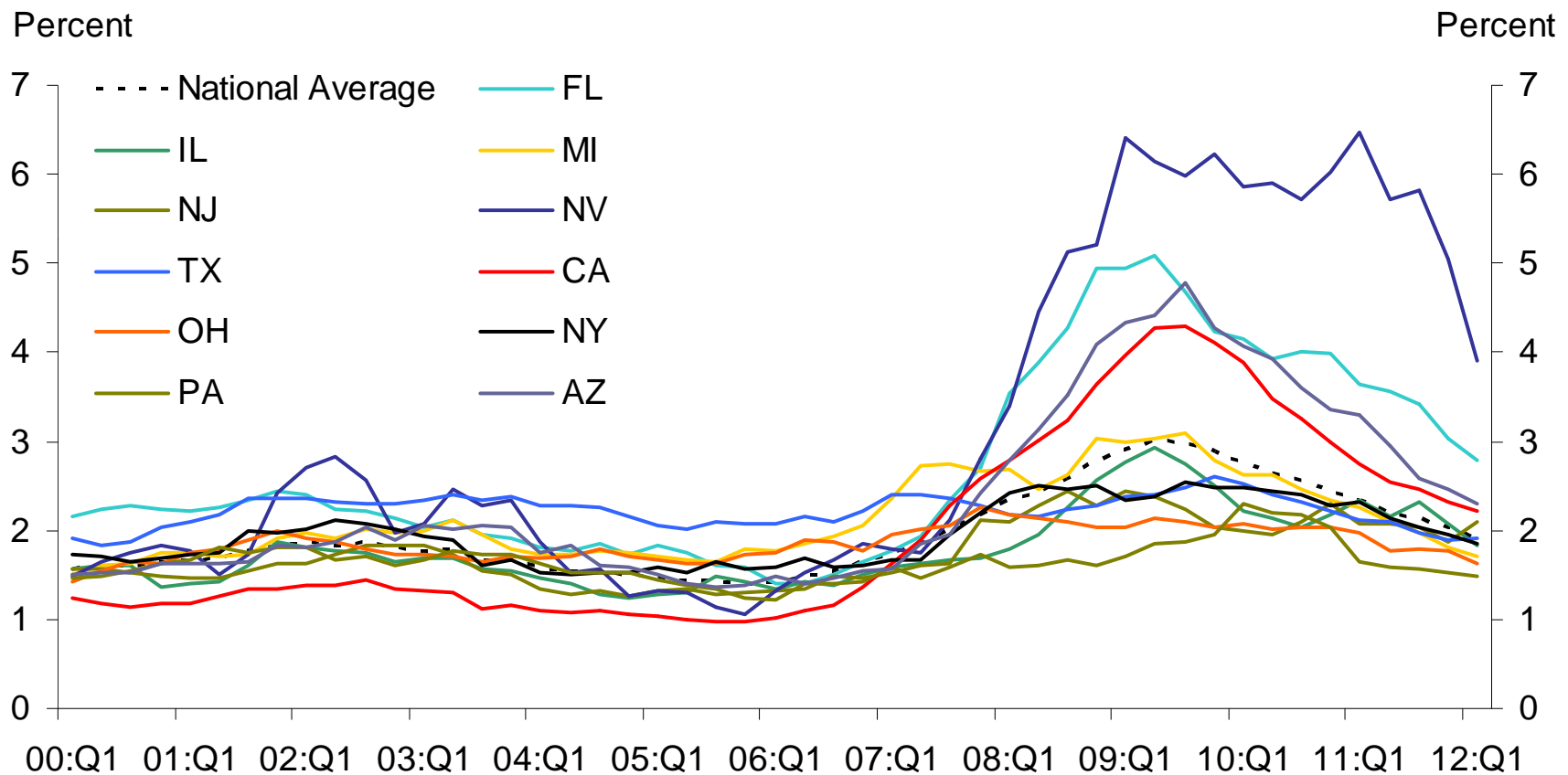


Source: FRB-New York, DB Global Markets Research

Delinquency transition rates generally moving down, with most states within 1 percentage point of their historical averages



Quarterly Transition Rates into 30+ Days Late by State*



*Four Quarter Moving Average, Rates from Current to 30+ Days Delinquent, All Accounts

Source: FRB-New York, DB Global Markets Research



The Asset Side of the Household Balance Sheet

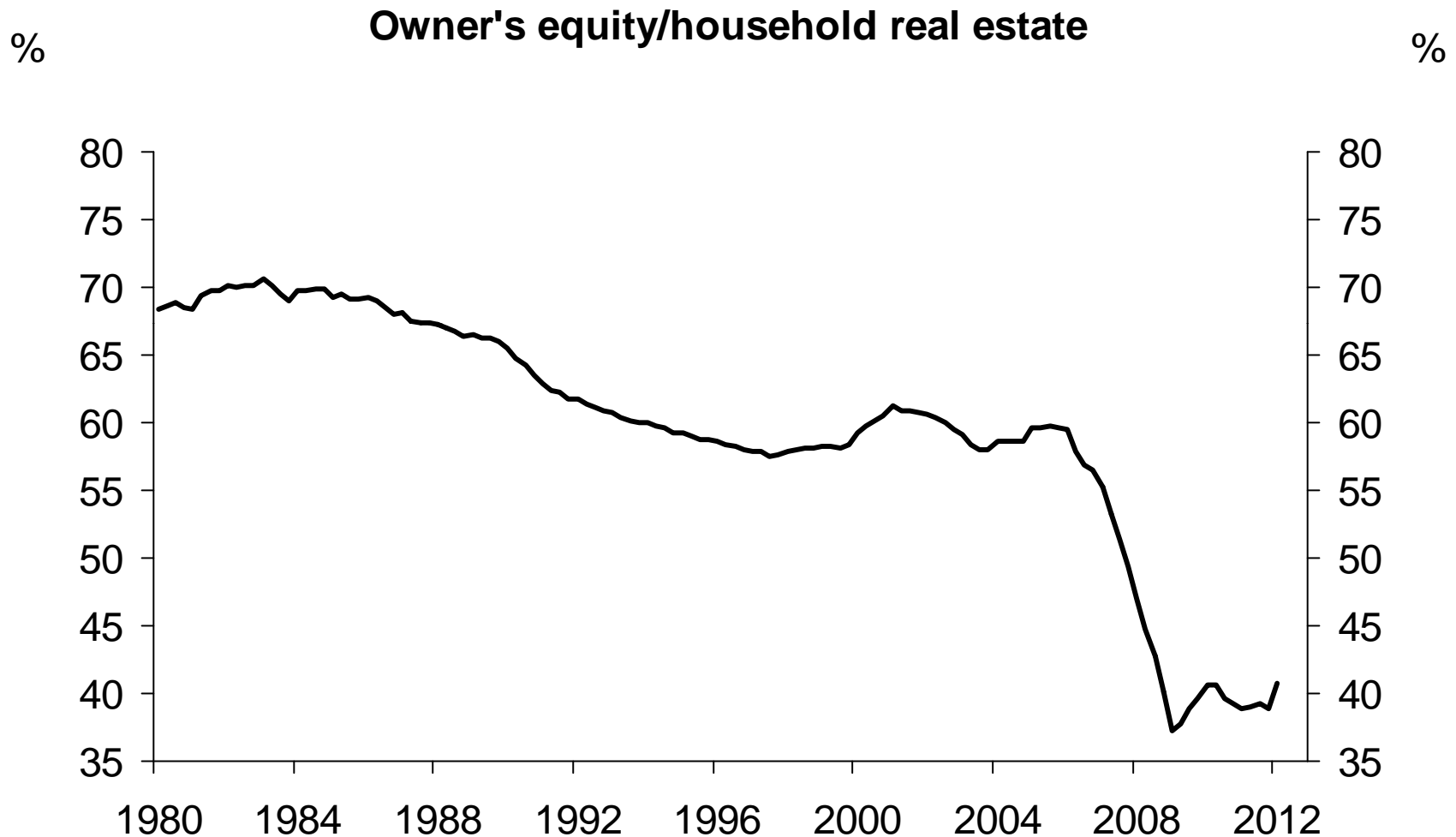
US homeowners lost on average \$50k during the housing bust



Total housing wealth destruction between Q2 2006 and Q2 2010					
State	Total housing value Q2 2006	Total housing value Q2 2010	Actual wealth loss	Loss per homeowner (in \$)	Loss as a % of total as of Q2 2006
California	\$6.0trn	\$3,7trn	\$2,3trn	231,320	39%
Arizona	\$0.7trn	\$0.3trn	\$0.3trn	157,404	50%
Florida	\$1,8trn	\$1.0trn	\$0.8trn	146,815	46%
New York	\$1,3trn	\$1,1trn	\$0.2trn	76,165	18%
Illinois	\$0.9trn	\$0.6trn	\$0.2trn	74,689	27%
U.S.	\$28.6trn	\$23.1trn	\$5.5trn	49,417	19%

Source: Loan performance/core logic, Freddie Mac, S&P/ Case- Shiller, DB Global Markets Research

Households' real estate equity starting to move up

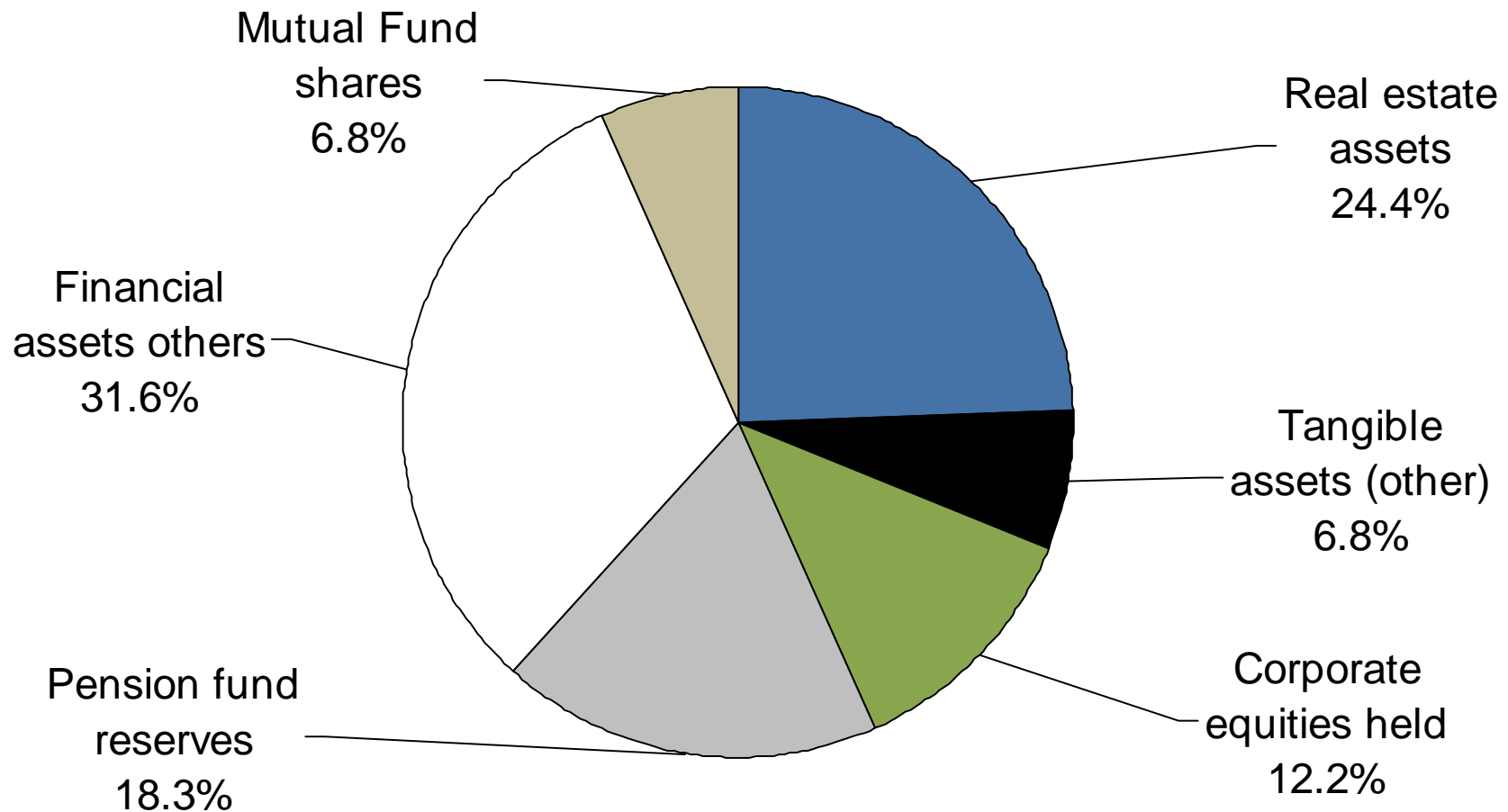


Source: FRB, DB Global Markets Research

Distribution of household assets



Assets of HH sector: Q1 2012

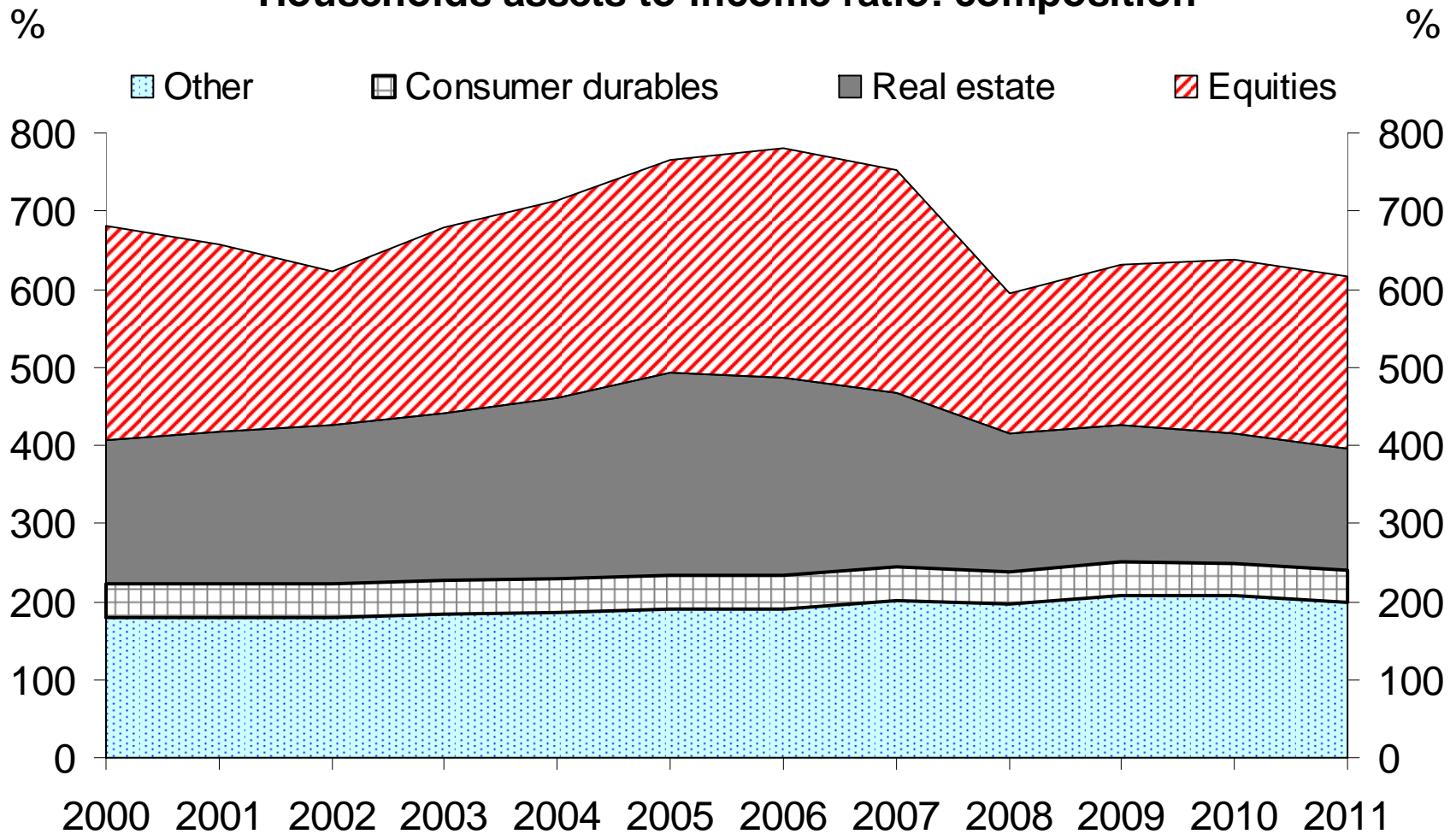


Source: FRB, Haver Analytics, DB Global Markets Research

Equities more important than homes in household assets



Households assets to income ratio: composition

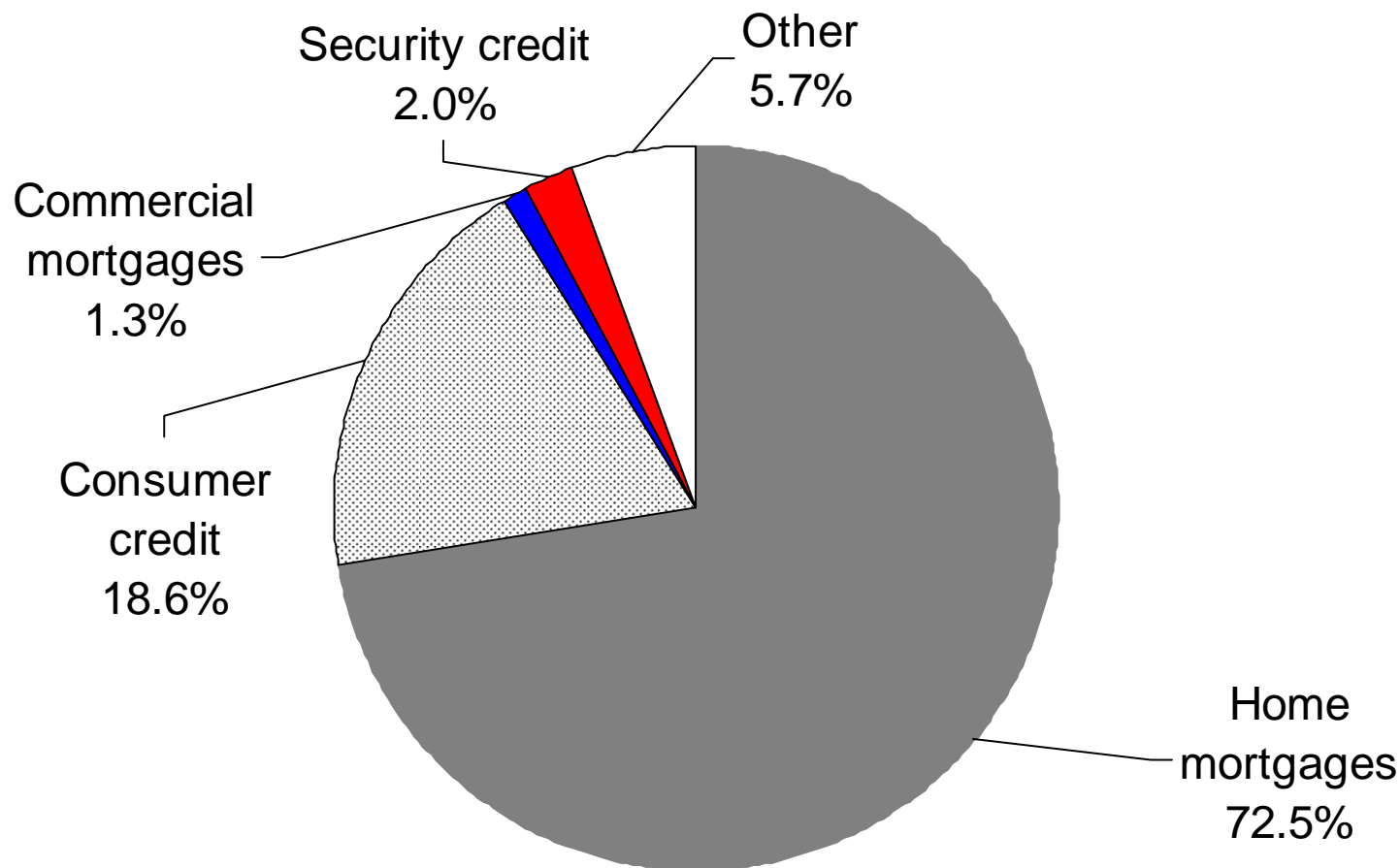


Source: FRB, Haver Analytics, DB Global Markets Research



Distribution of household debt

Liabilities of HH sector: Q1 2012

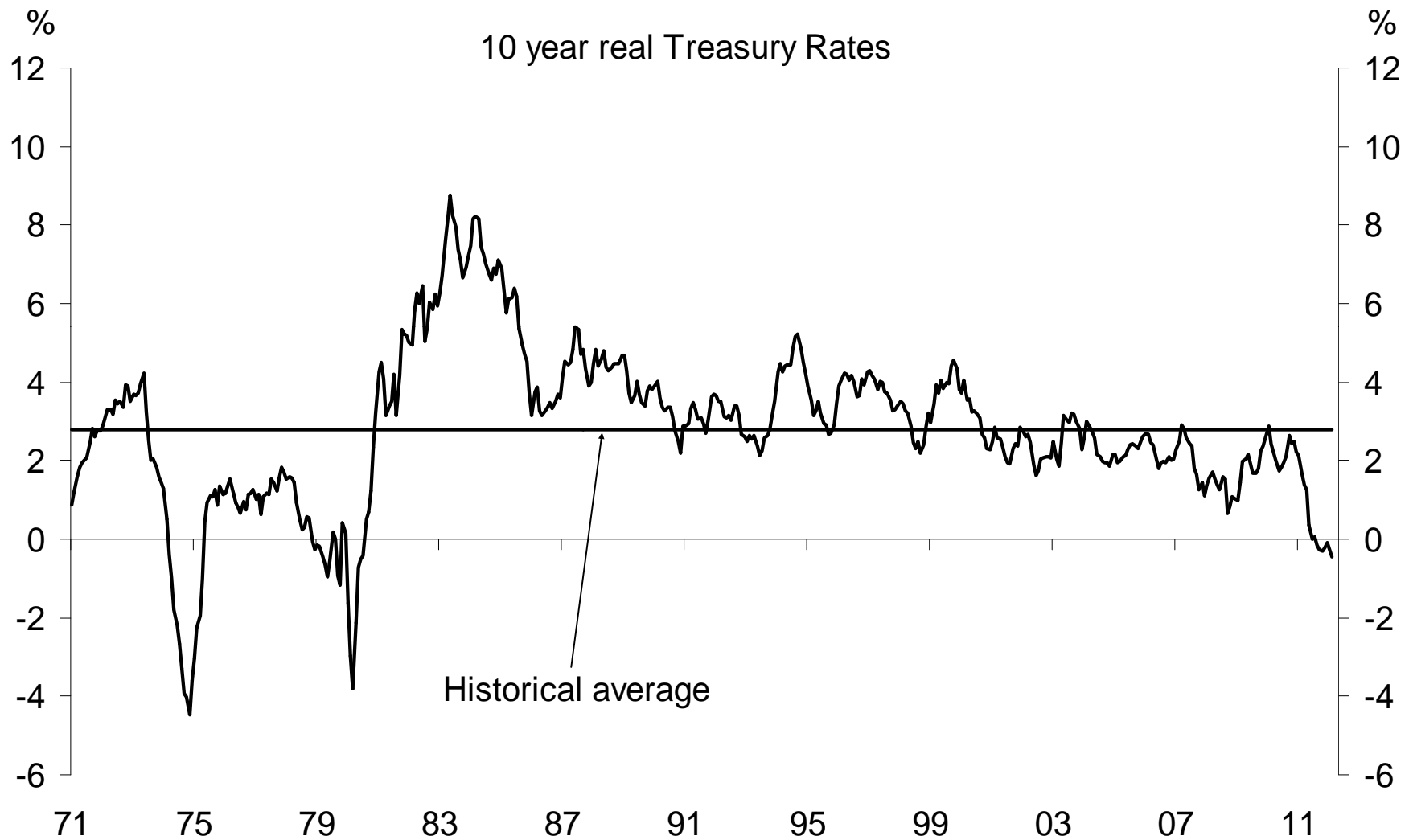


Source: FRB, Haver Analytics, DB Global Markets Research



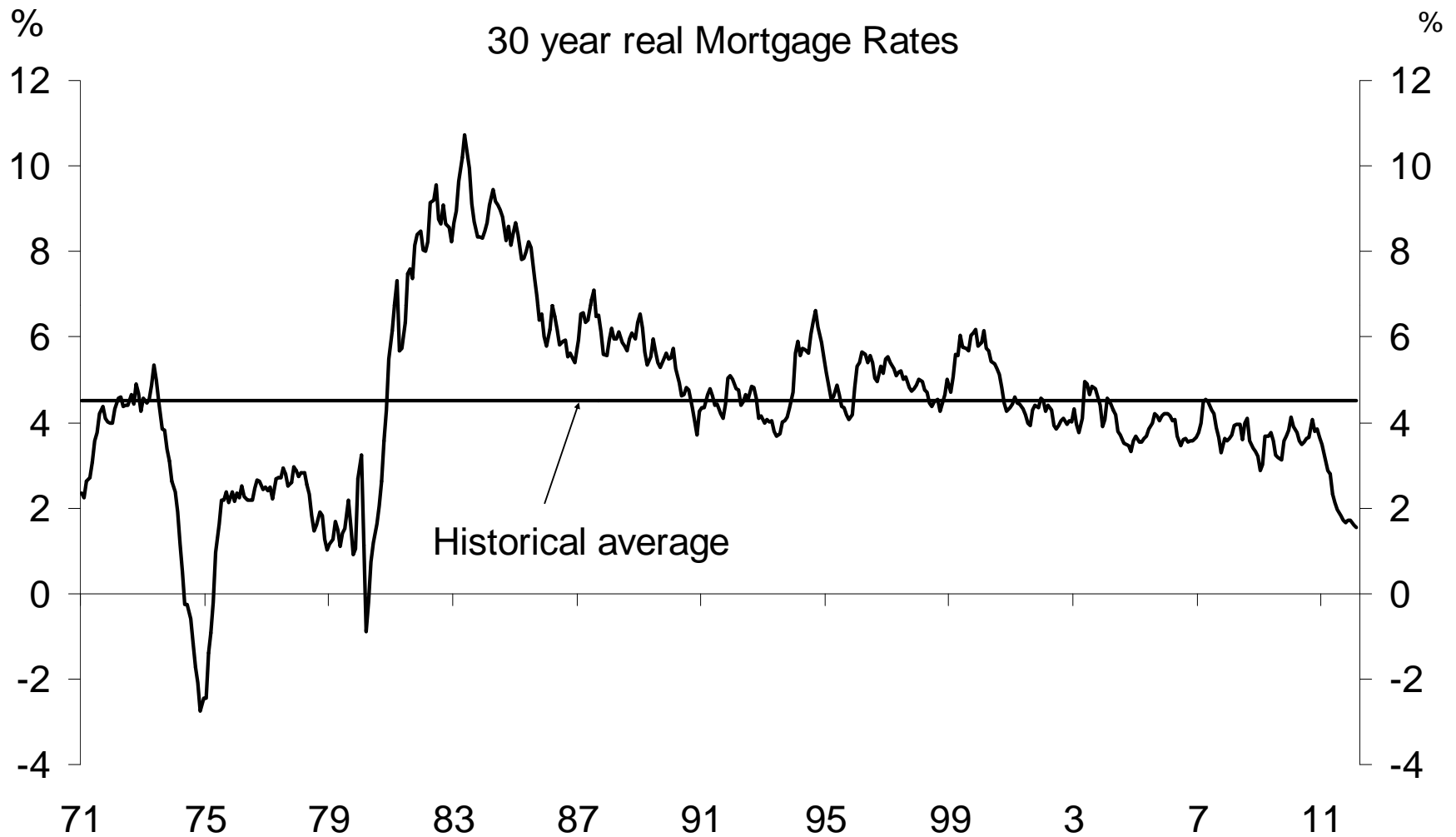
Measuring credit conditions/financial conditions

10-year real yields negative and well below their historical average



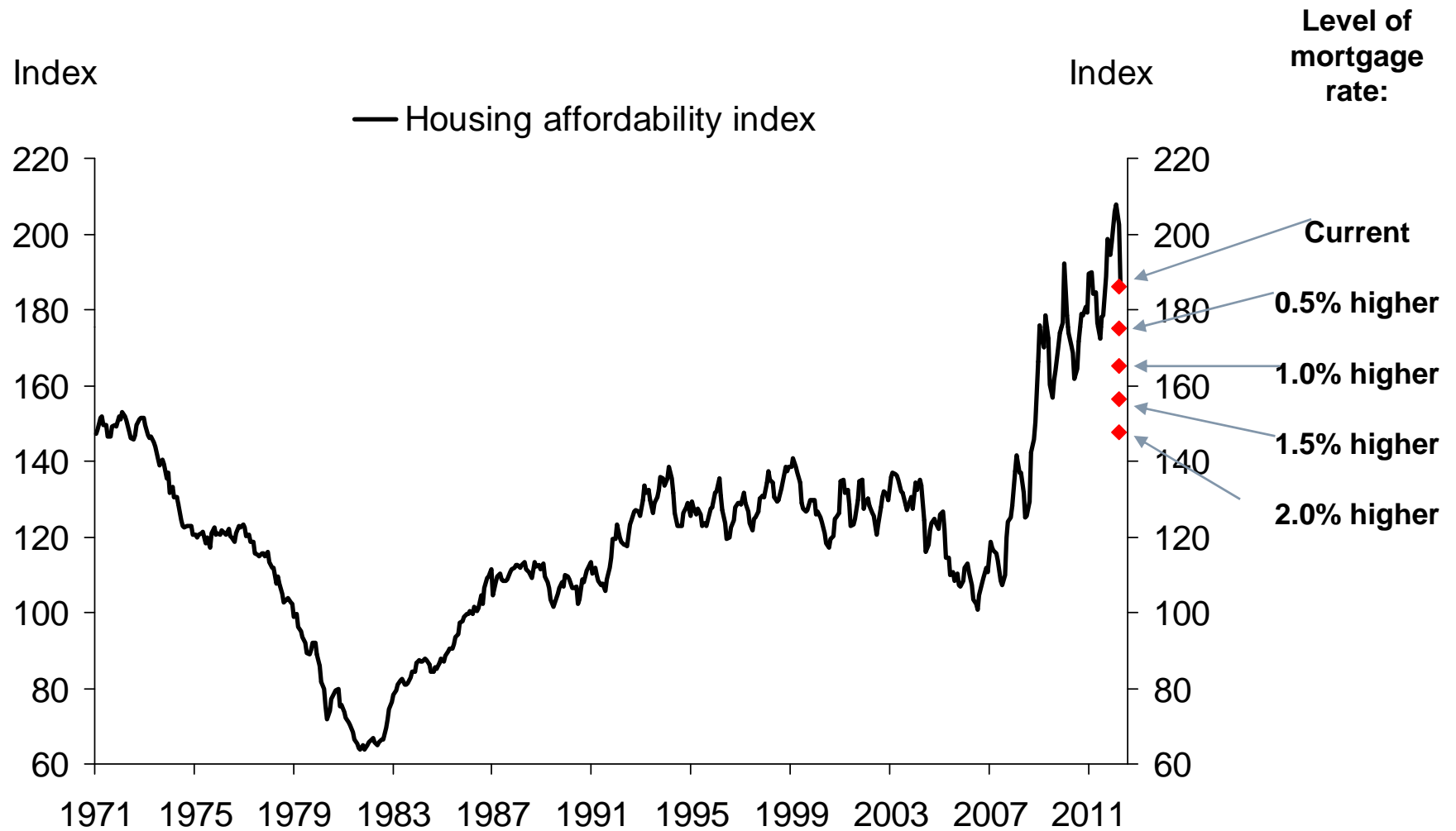
Source: FRB, Haver Analytics, DB Global Markets Research

Real mortgage rates far below their historical norm



Source: FRB, Haver Analytics, DB Global Markets Research

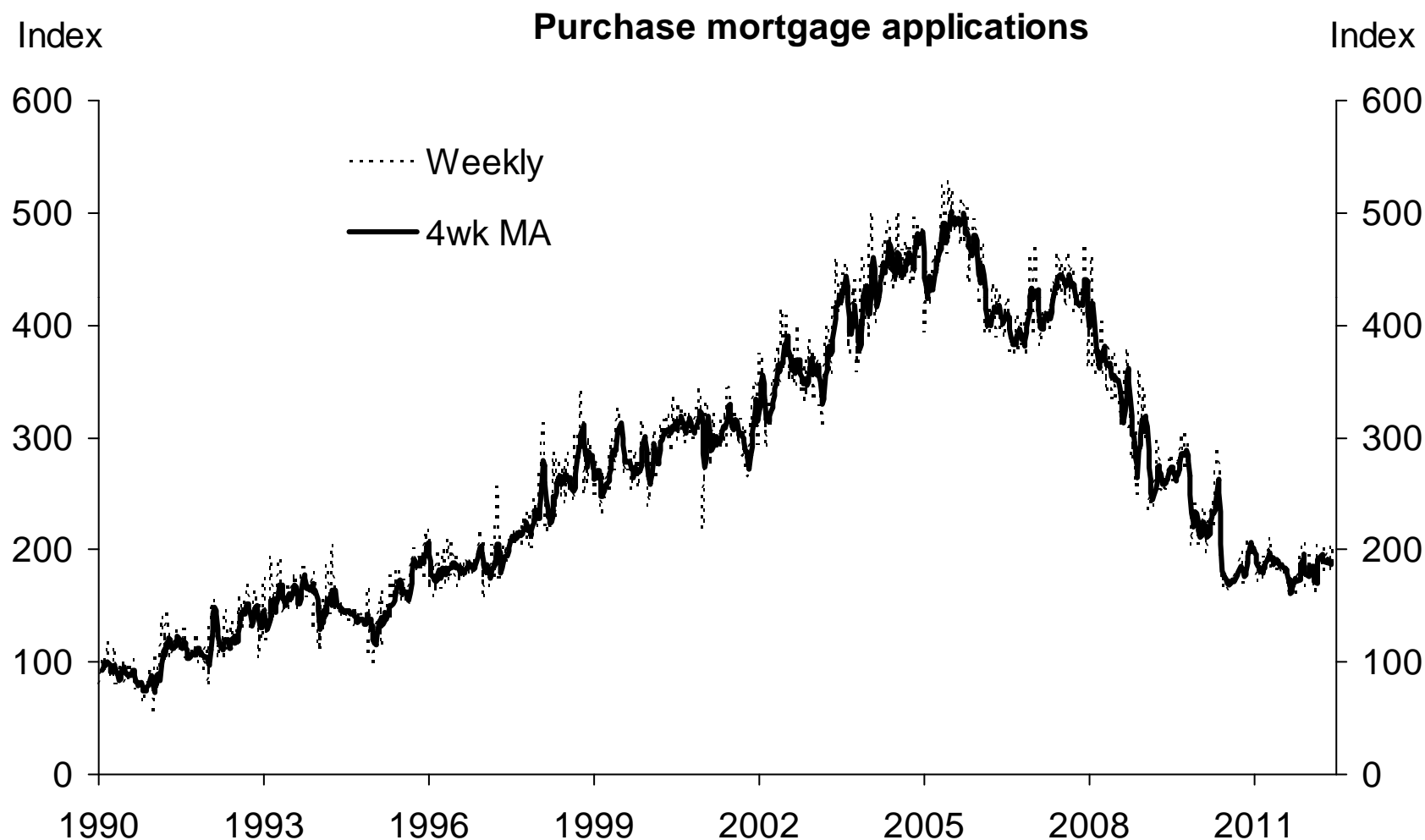
It is very cheap to buy a home - if you can get credit...



Source: NAR, Haver Analytics, DB Global Markets Research

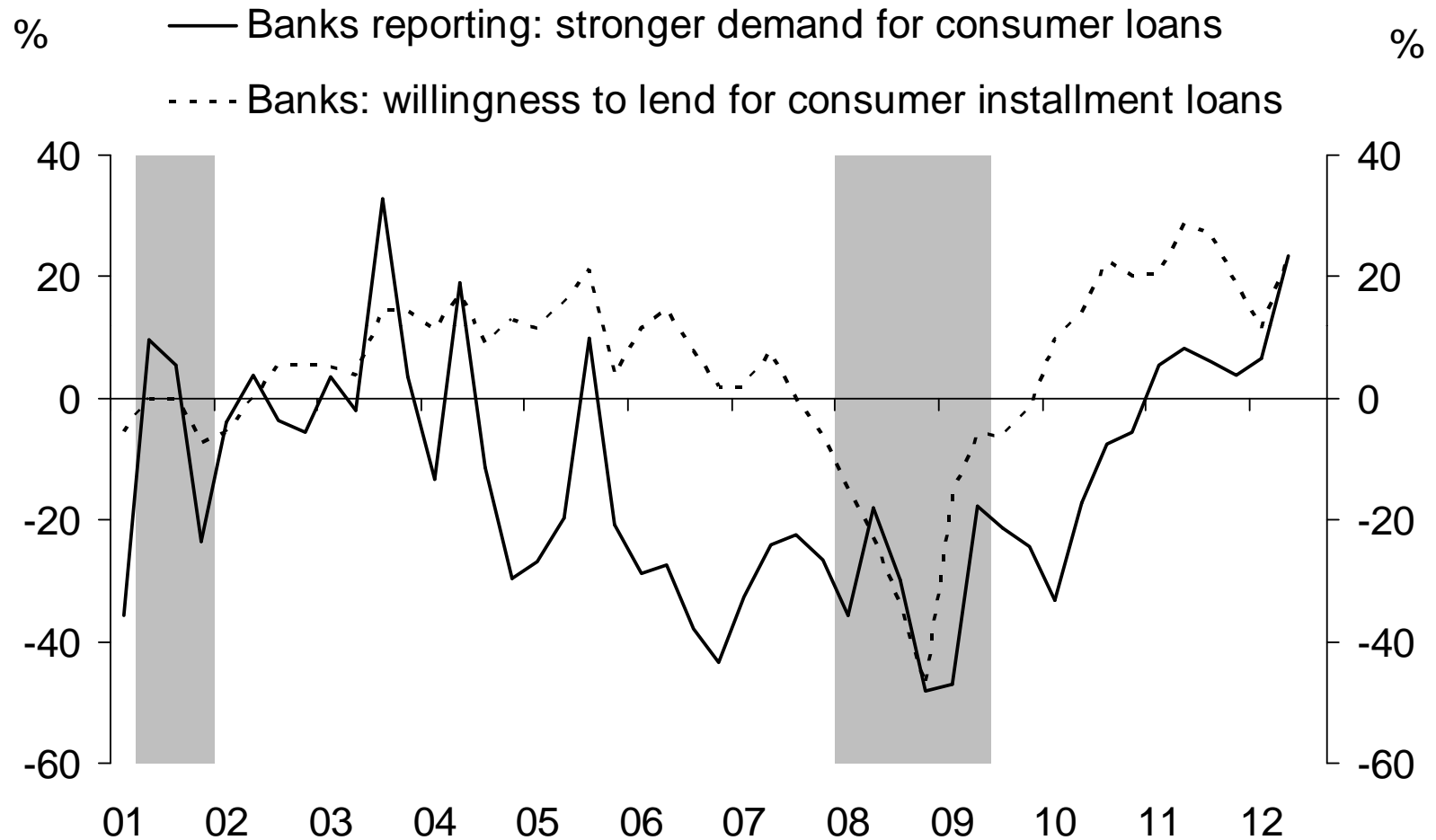


...but not many are buying a home - mortgage purchase applications at 15-year lows



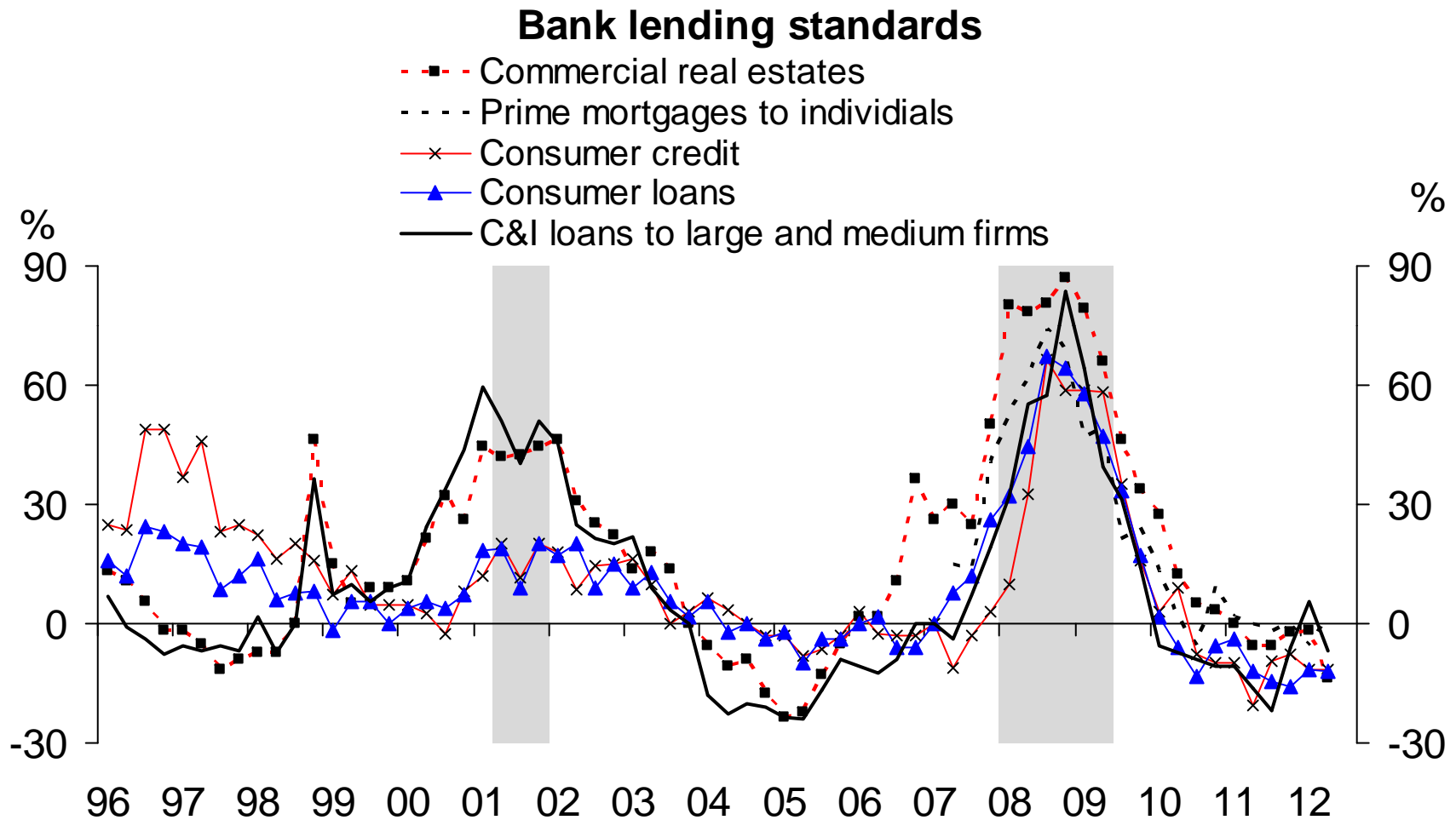
Source: MBA, Haver Analytics, DB Global Markets Research

We have seen an improvement in consumer demand for loans and banks' willingness to lend



Source: FRB, Haver Analytics, DB Global Markets Research

Bank lending standards easing modestly but from a very tight level...

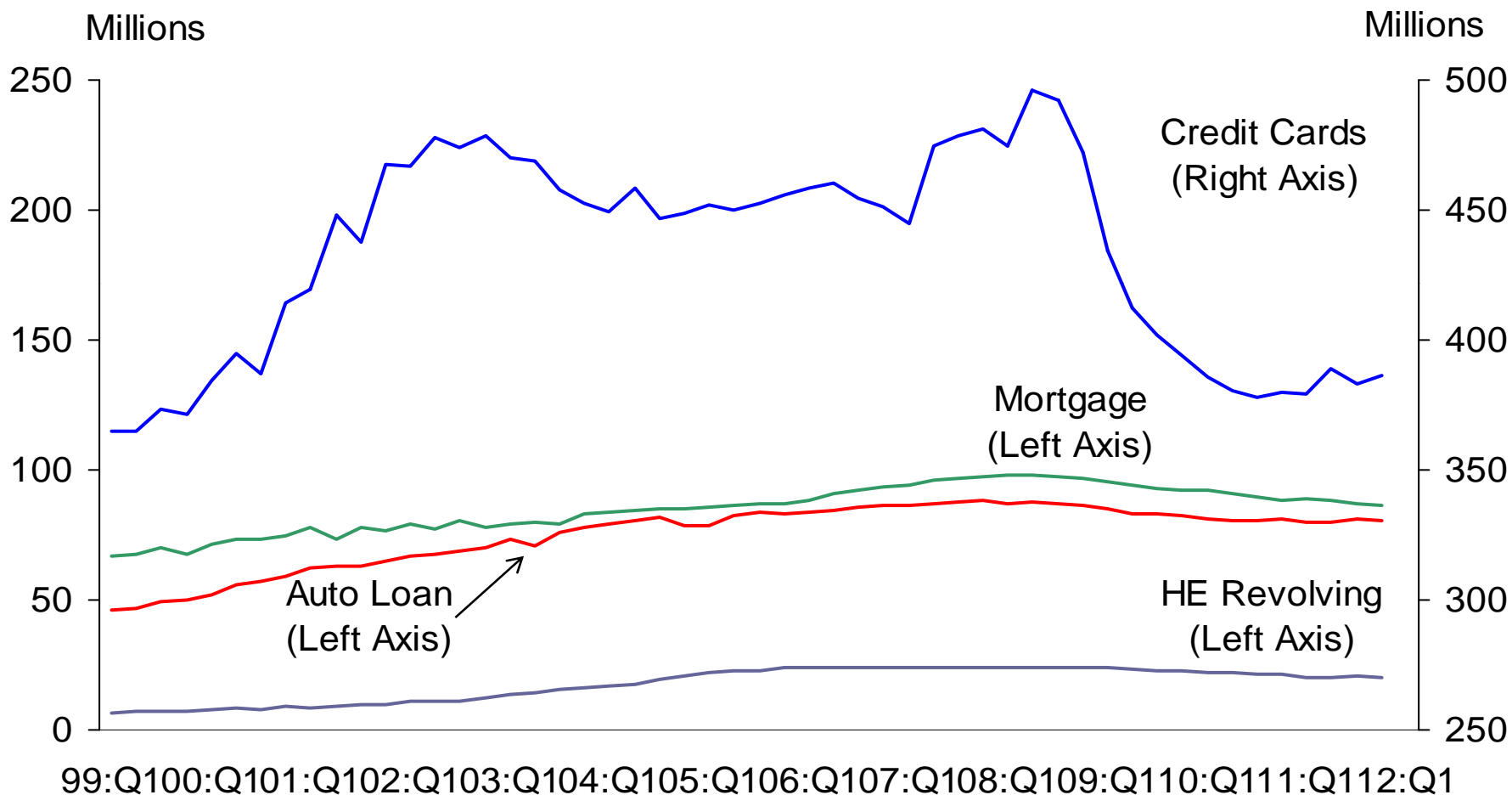


Source: FRB, Haver Analytics, DB Global Markets Research

...with the number of credit cards outstanding slowly starting to rise again



Number of Accounts by Loan Type



Note: Data Exclude Student Loans Source: FRB-New York, DB Global Markets Research



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- Torsten Slok joined Deutsche Bank Securities in the fall of 2005 and is a senior member of the Global Economics Team.
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- Prior to joining the firm, Mr. Slok worked at the OECD in Paris in the Money and Finance Division and the Structural Policy Analysis Division. Before joining the OECD he worked for four years at the IMF in the Division responsible for writing the World Economic Outlook and the Division responsible for China, Hong Kong, and Mongolia.
- Mr. Slok studied at University of Copenhagen and Princeton University. He has published numerous journal articles and reviews on economics and policy analysis, including in Journal of International Economics, Journal of International Money and Finance, and The Econometric Journal.



Appendix 1

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