

U.S. Auto Industry Chartbook

BBVA Research USA

Houston, TX

Fourth Quarter 2013

Key messages

- Pent-up demand supports vehicle sales in the short-run
- Access to credit improves as banks ease standards
- Business demand benefits from the recovery of the housing market and the energy boom
- Exports are gaining momentum due to rapid growth in emerging markets

Key messages

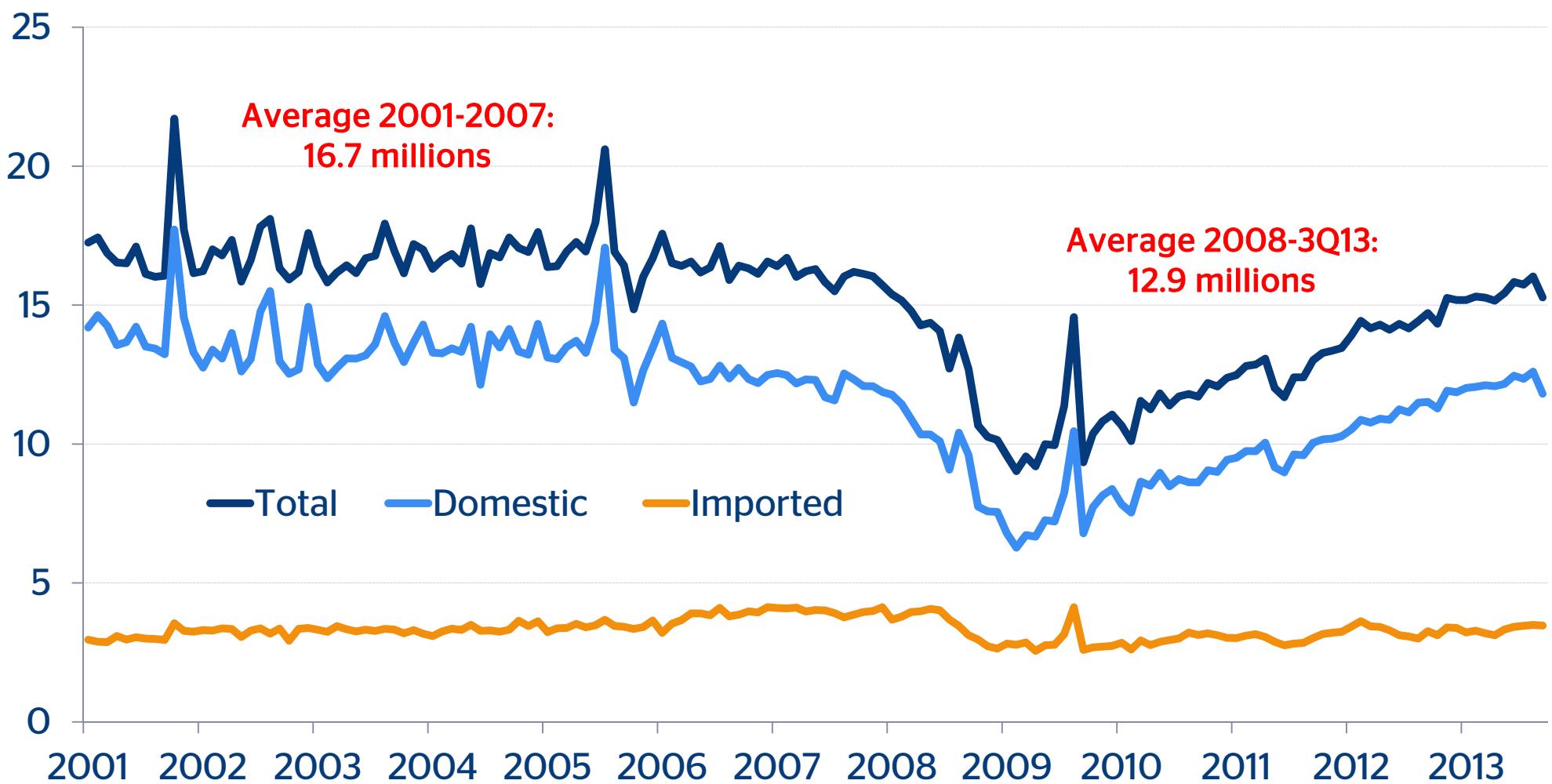
- Excess inventory could lead to a period of strong discounts
- Slow personal income growth points to a gradual expansion of sales
- Asian brands continue to gain market share
- Population growth assures a sustained demand; the aging process is shifting preferences

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Sales

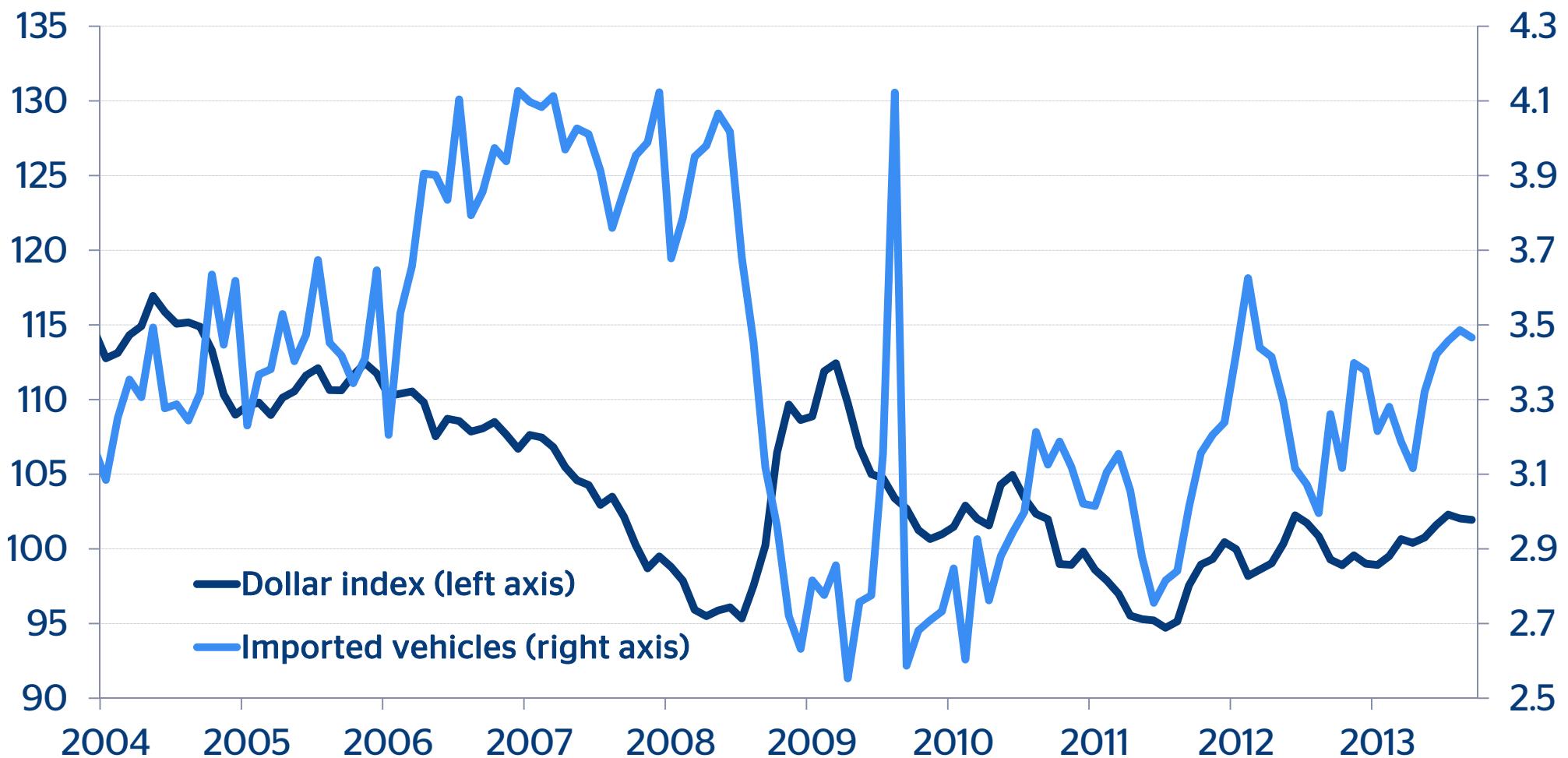
Demand

Total light weight vehicle sales (SAAR, million units)



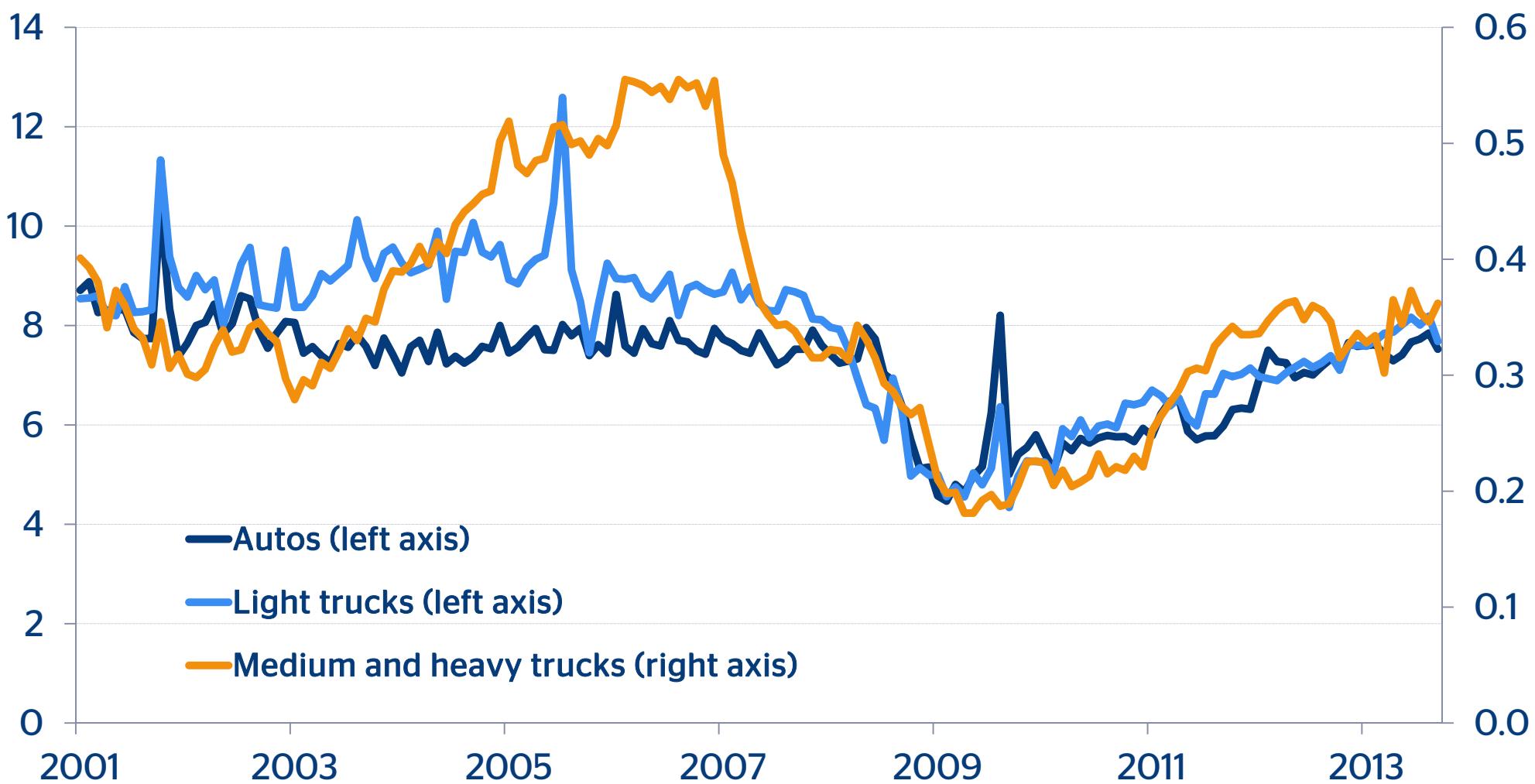
Demand

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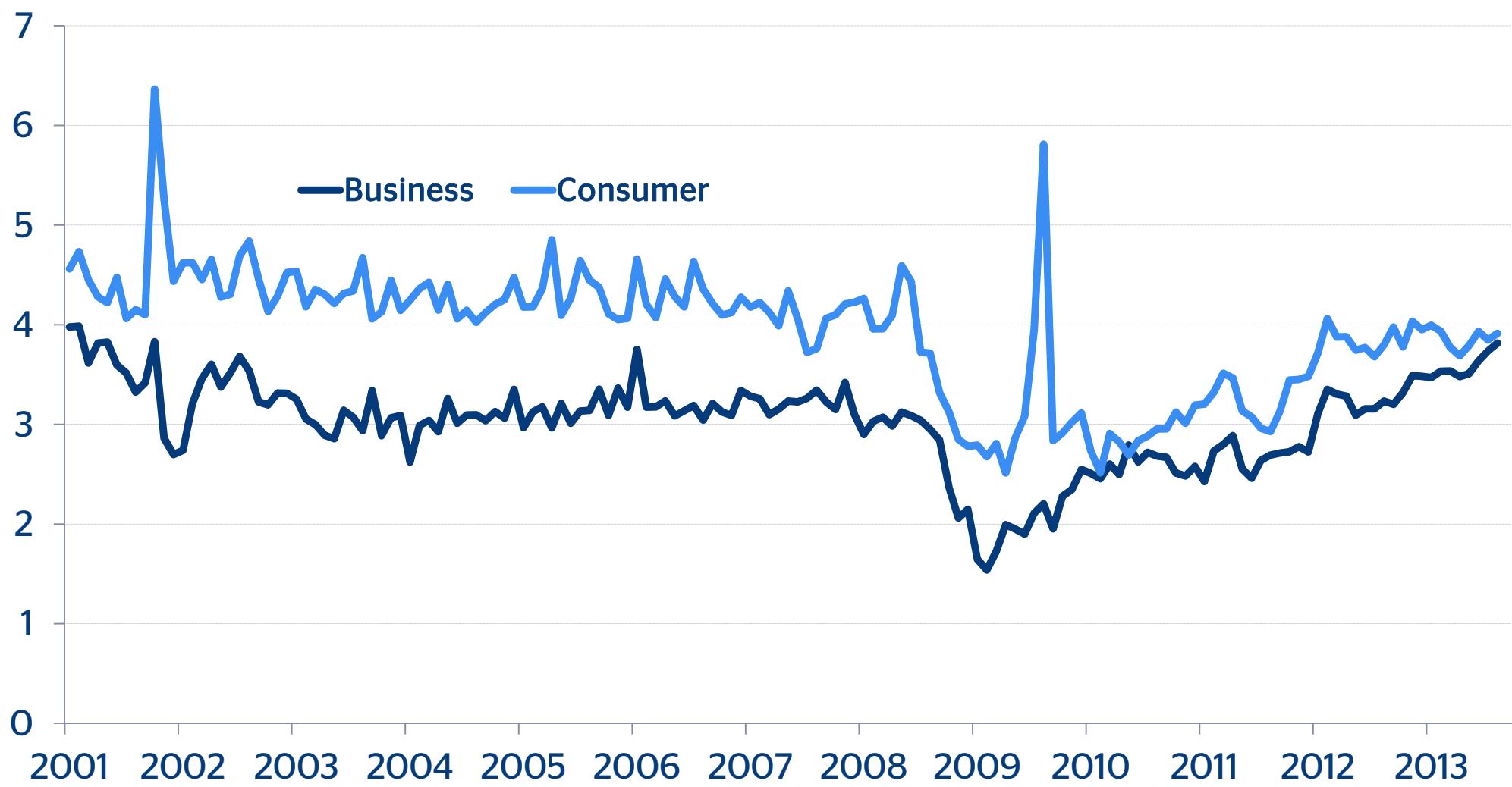
Demand

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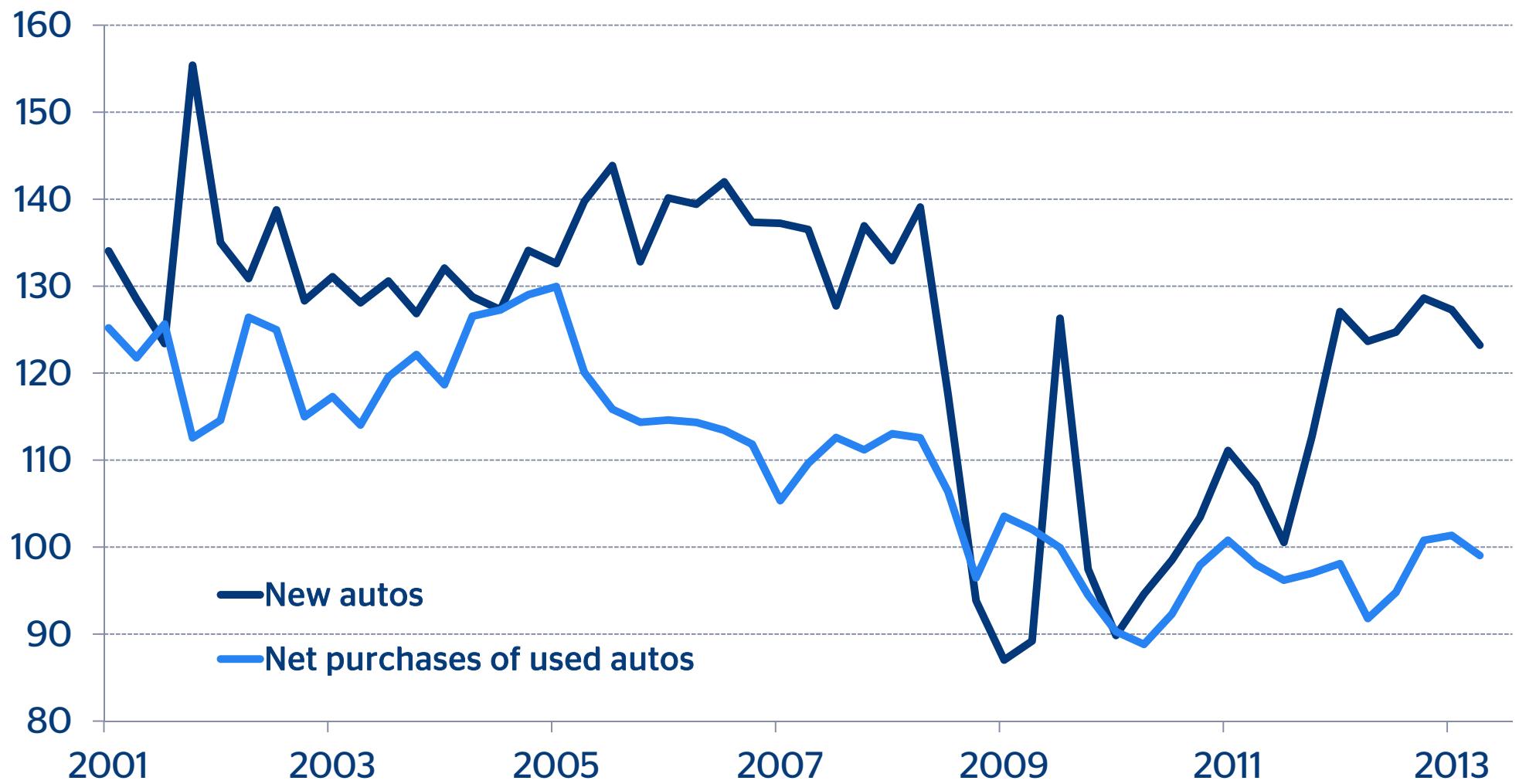
Demand

New auto sales by sector (SAAR, million units)



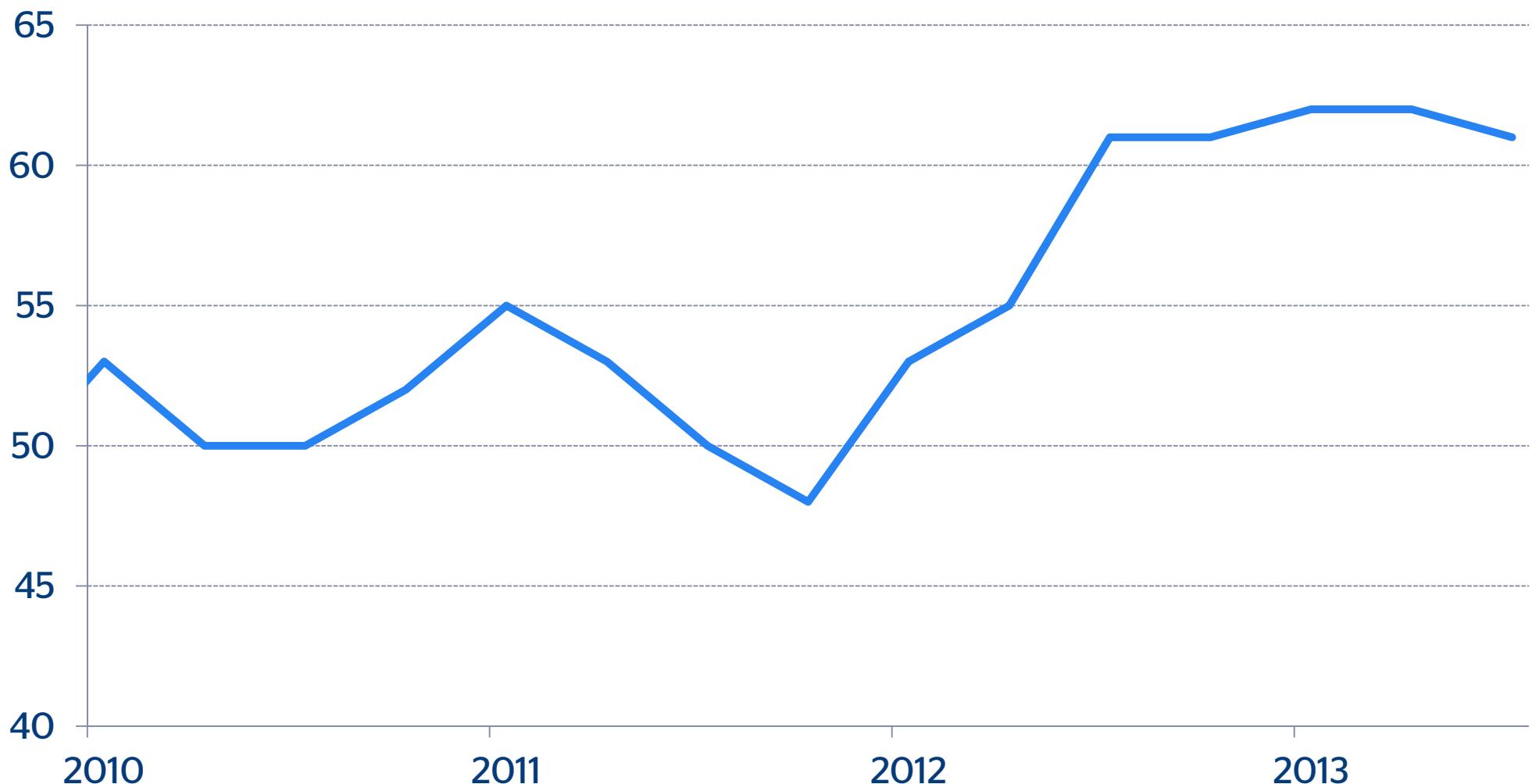
Demand

Personal consumer expenditures: quantity index (SA, 2009=100)



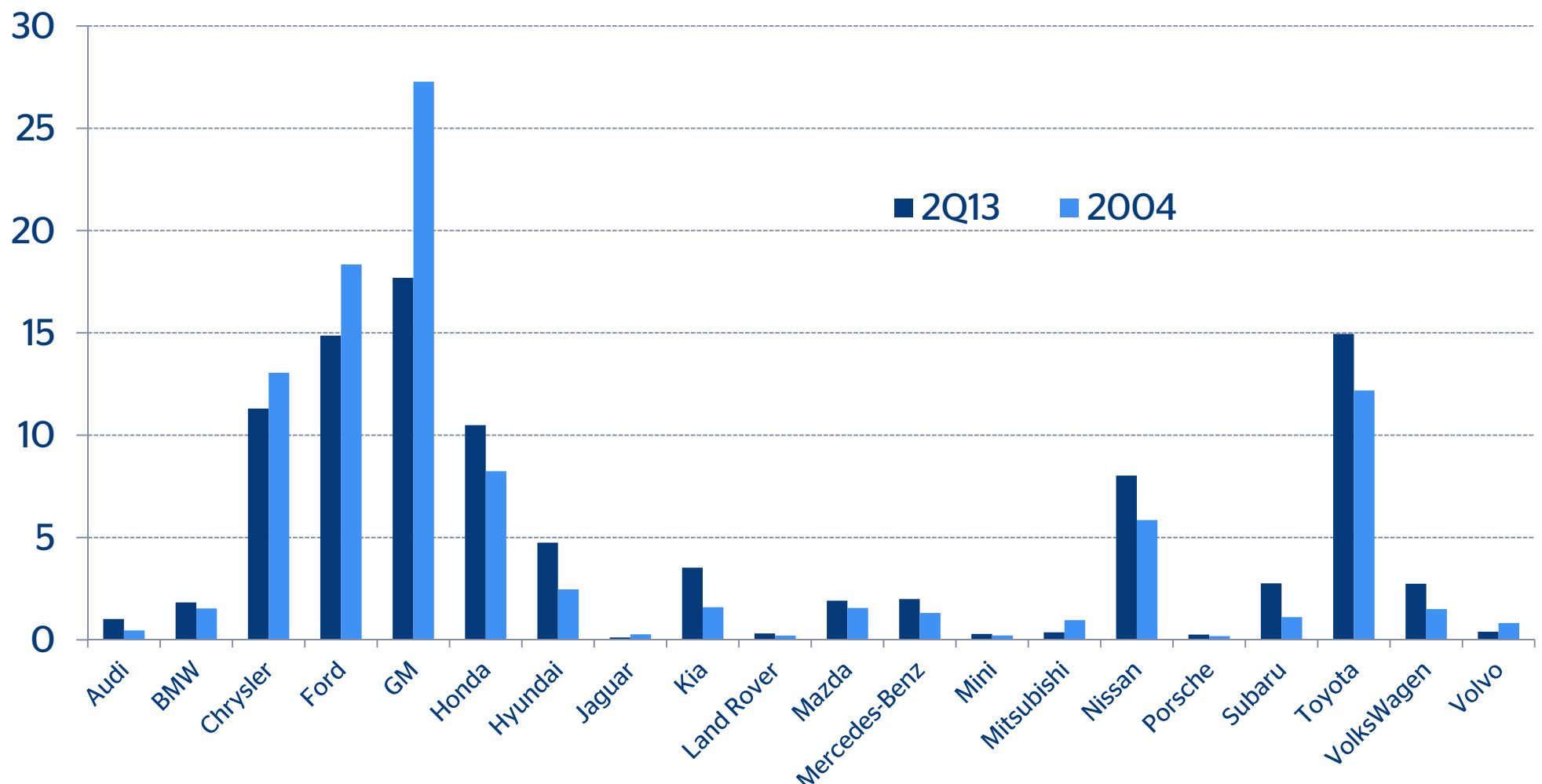
Demand

U.S. vehicle days to turn (segment average)



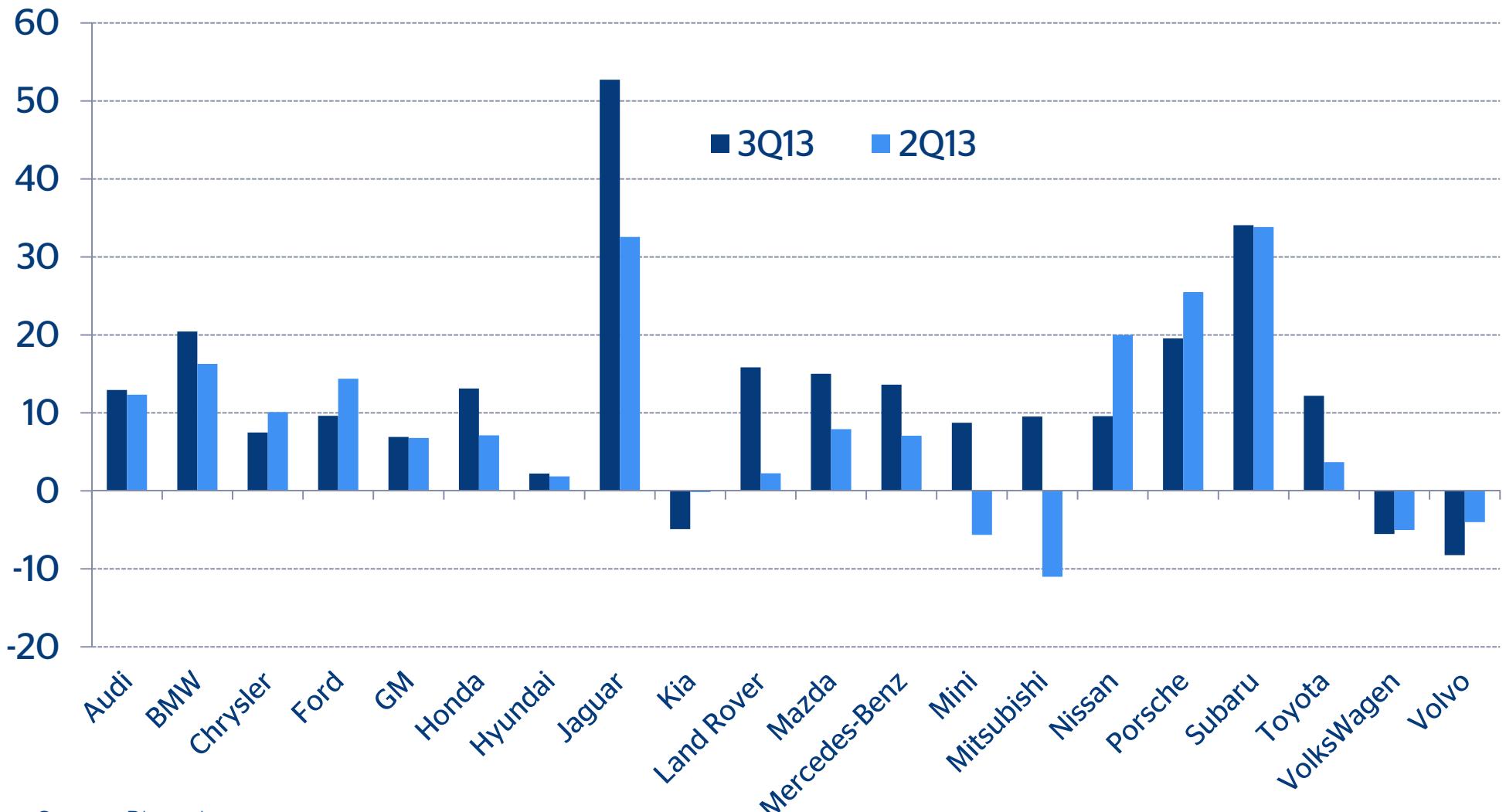
Demand

Market share by brand (%)



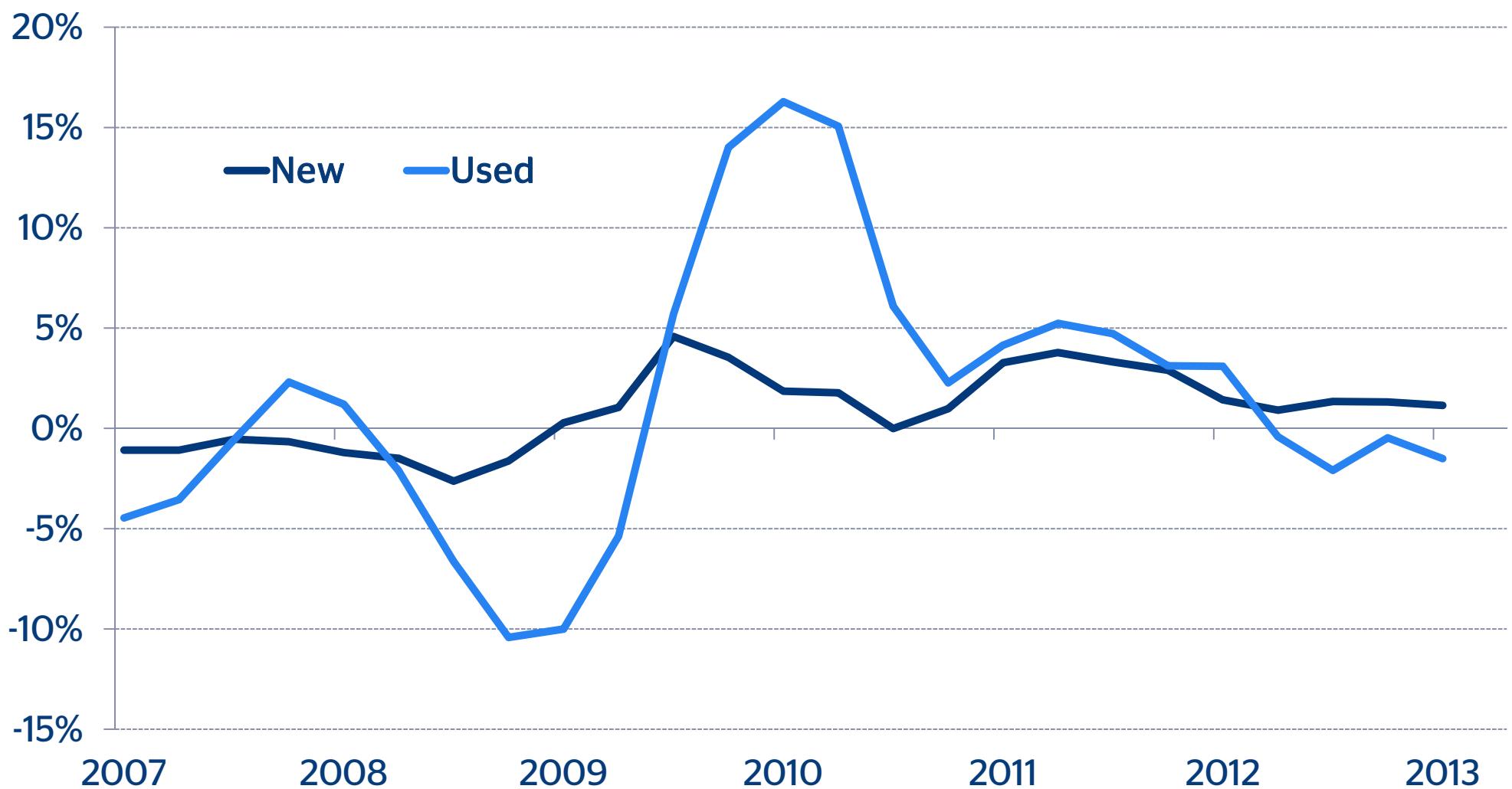
Demand

Quarterly unit sales (year-over-year % change)



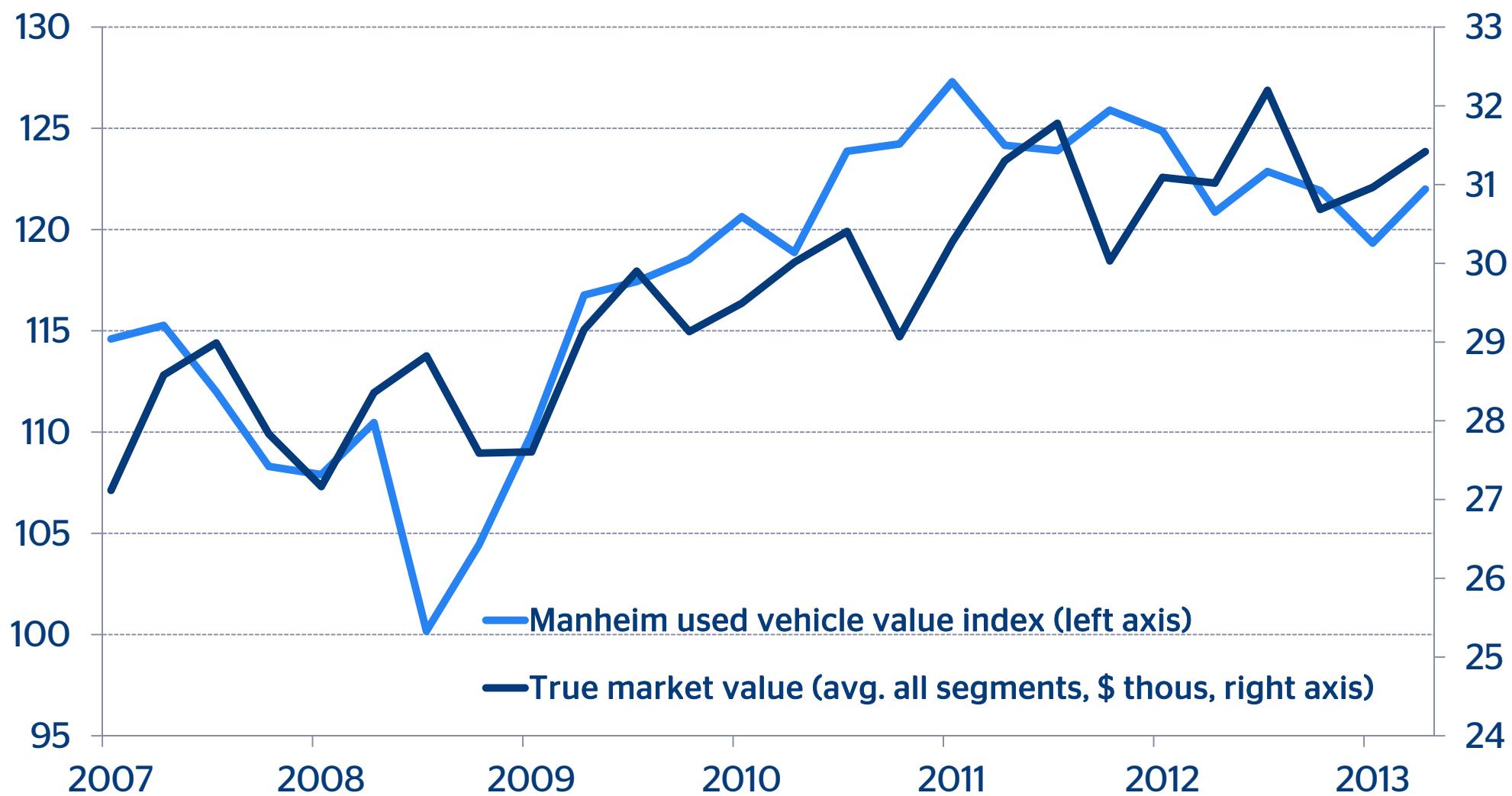
Prices

Consumer price index: cars and trucks (year-over-year change)



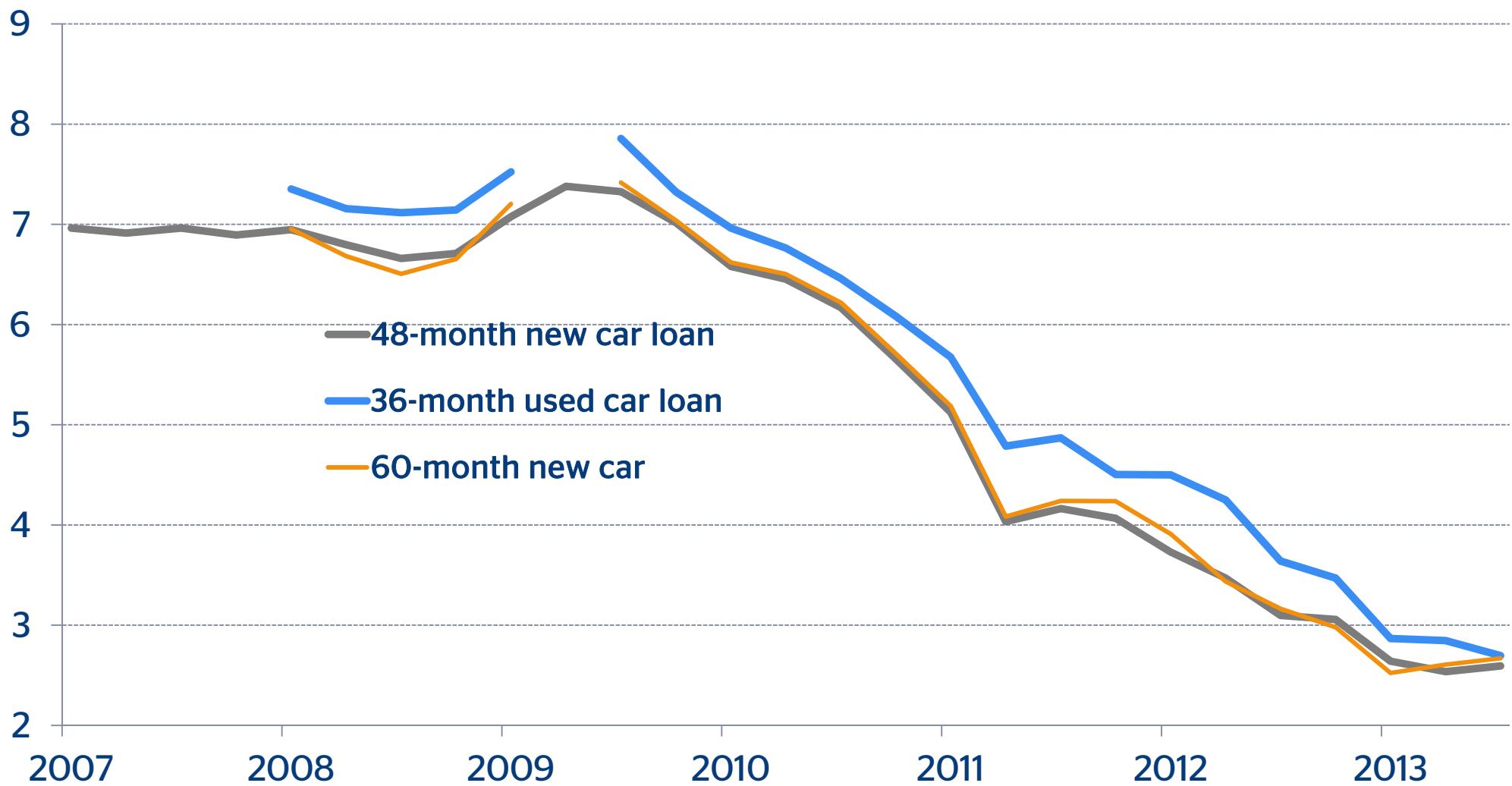
Prices

Auto prices



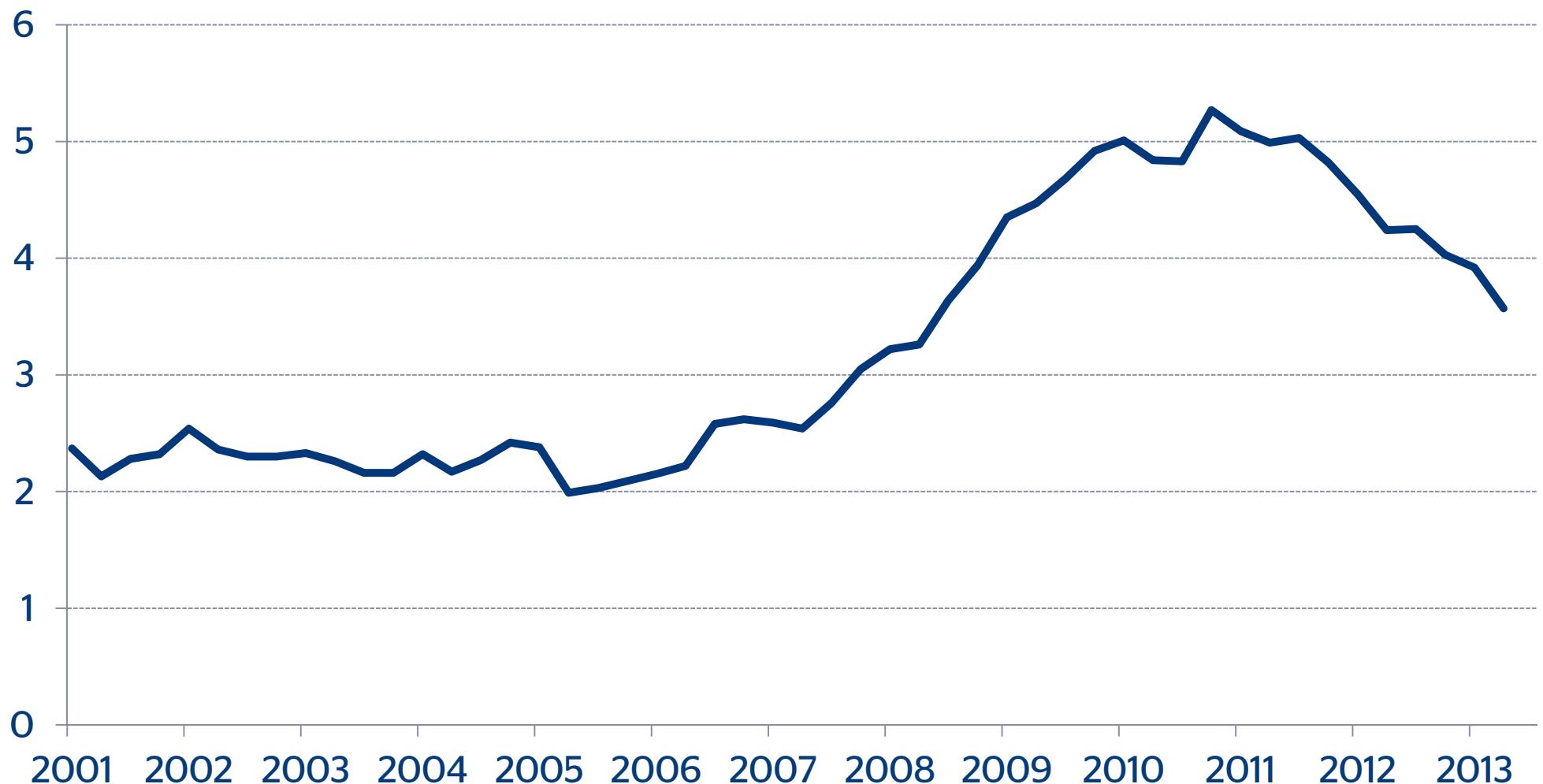
Financing conditions

Car loan rates (%)



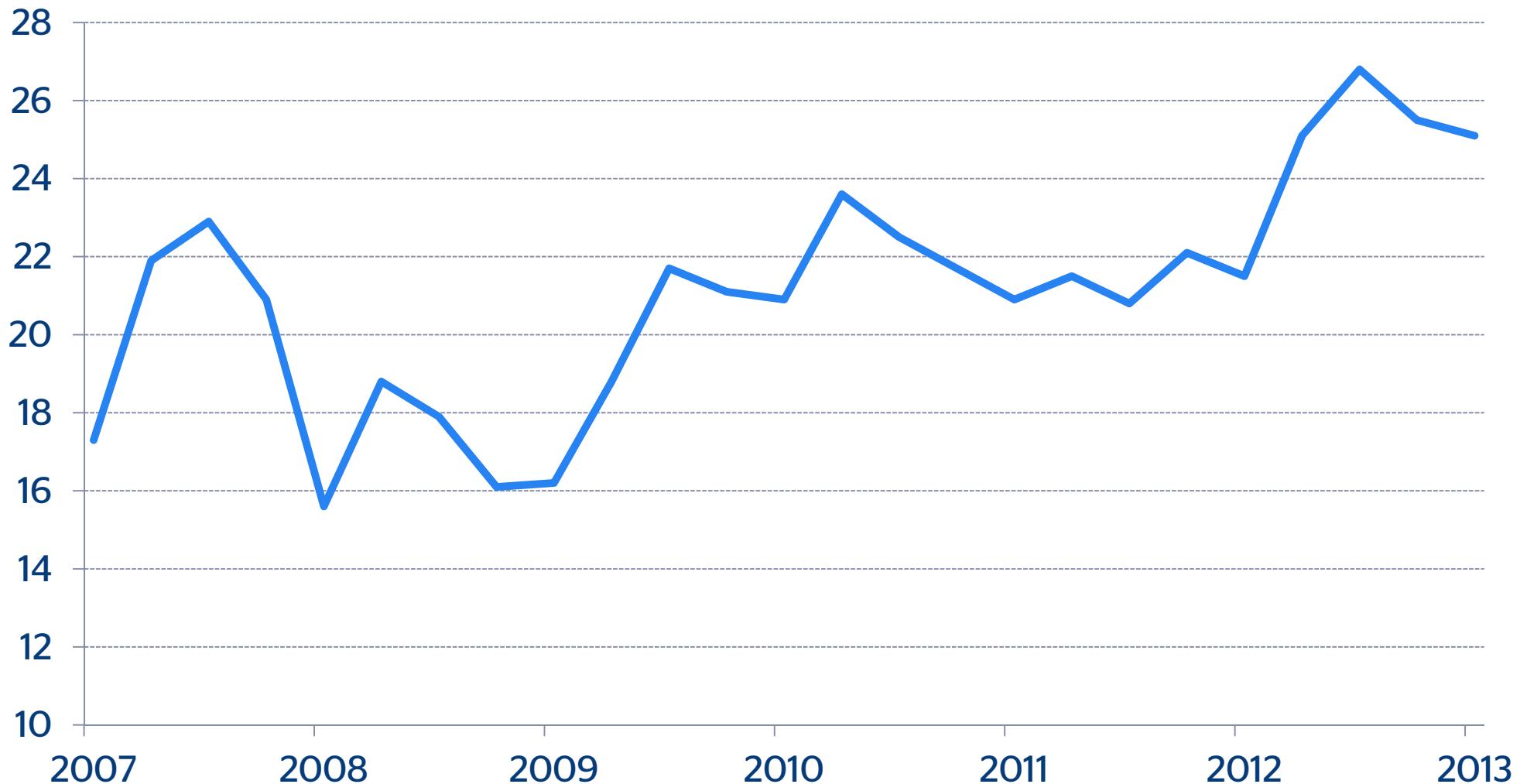
Financing conditions

Auto loan 90+ days delinquent (percent of balance)



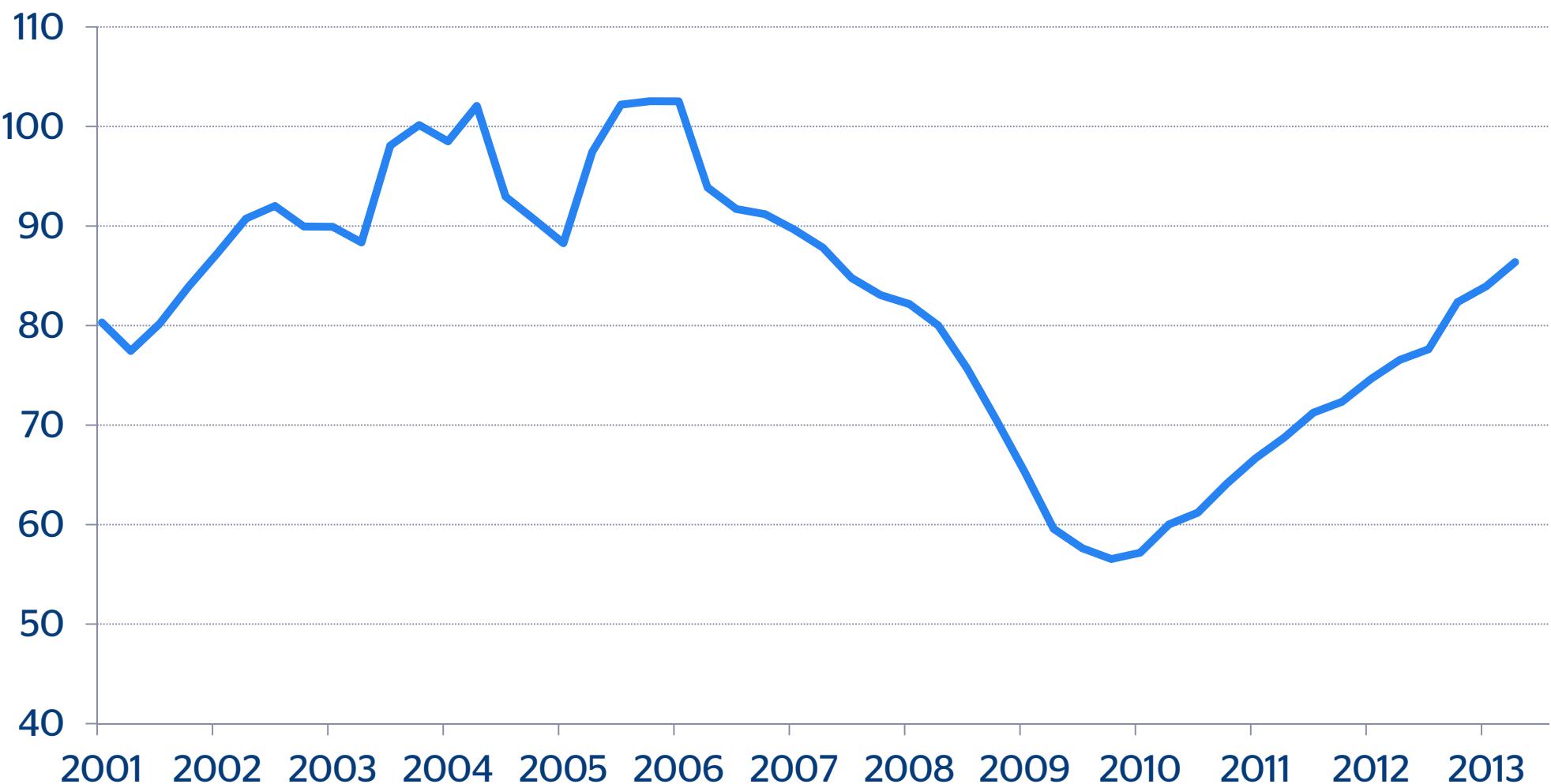
Financing conditions

Leasing penetration rate, %



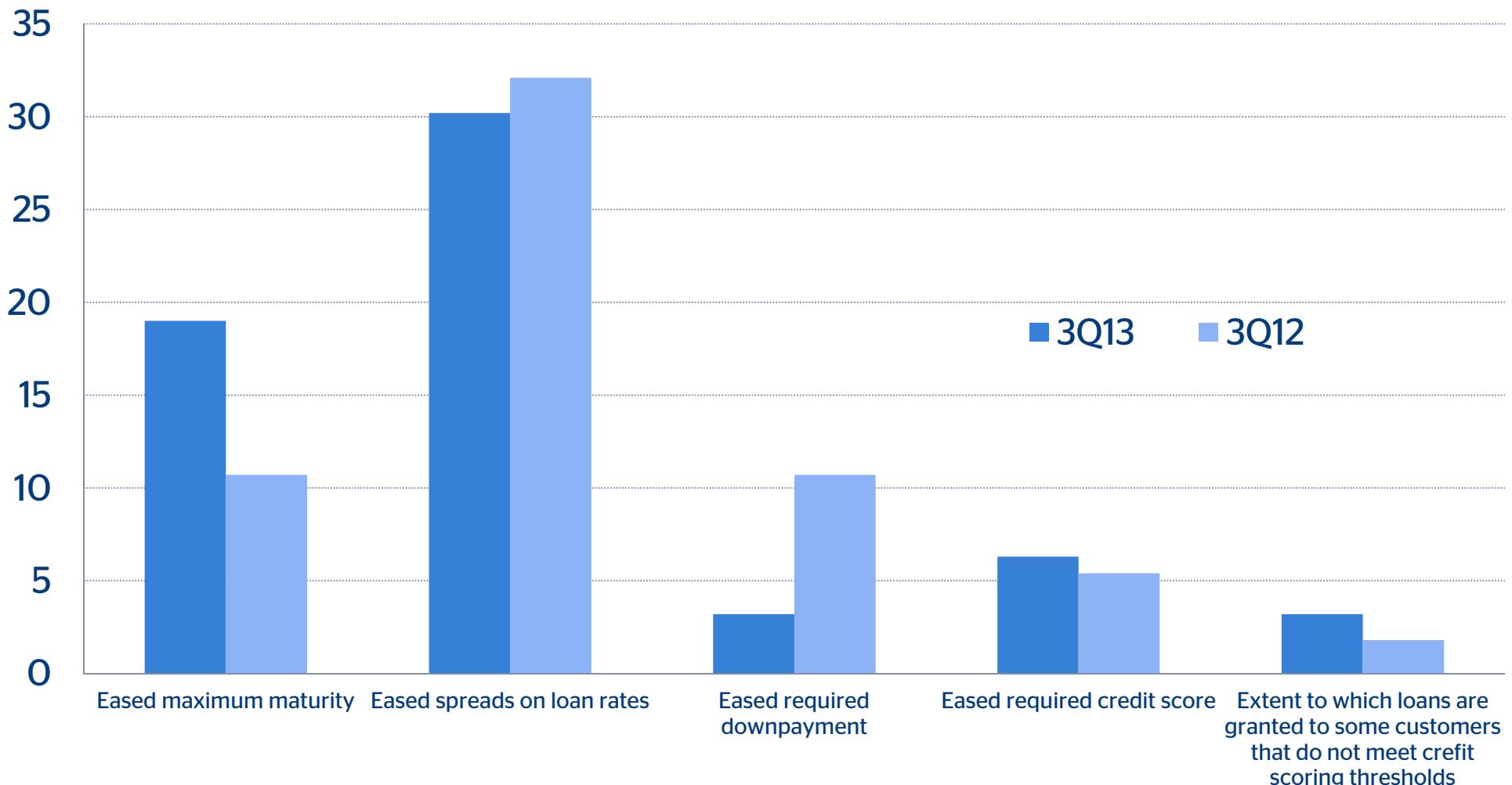
Financing conditions

Newly originated installment auto loans (\$ billion, eop, 4-qtr moving average)



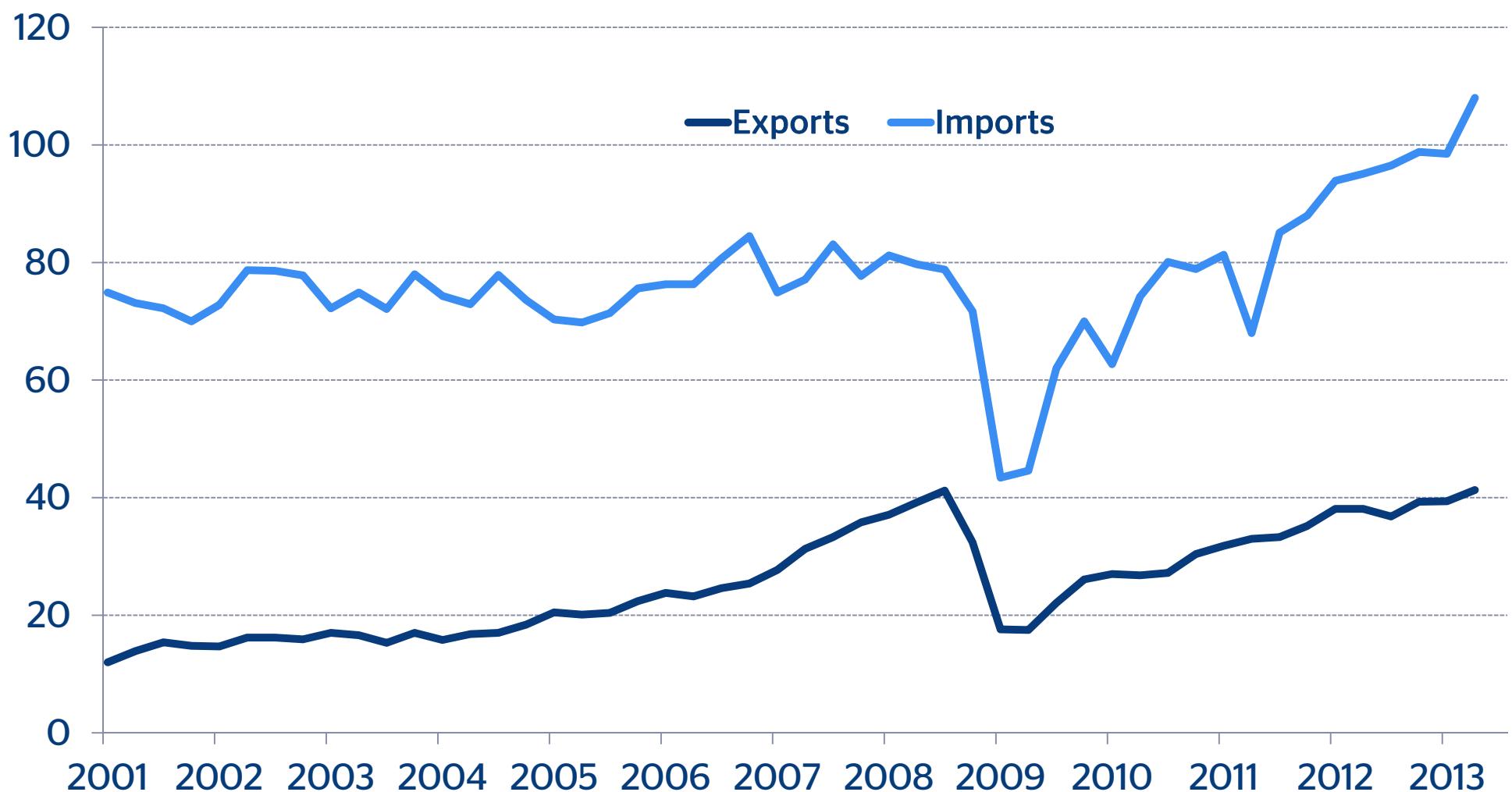
Financing conditions

Terms and conditions on auto loans, percentage of respondents (%)



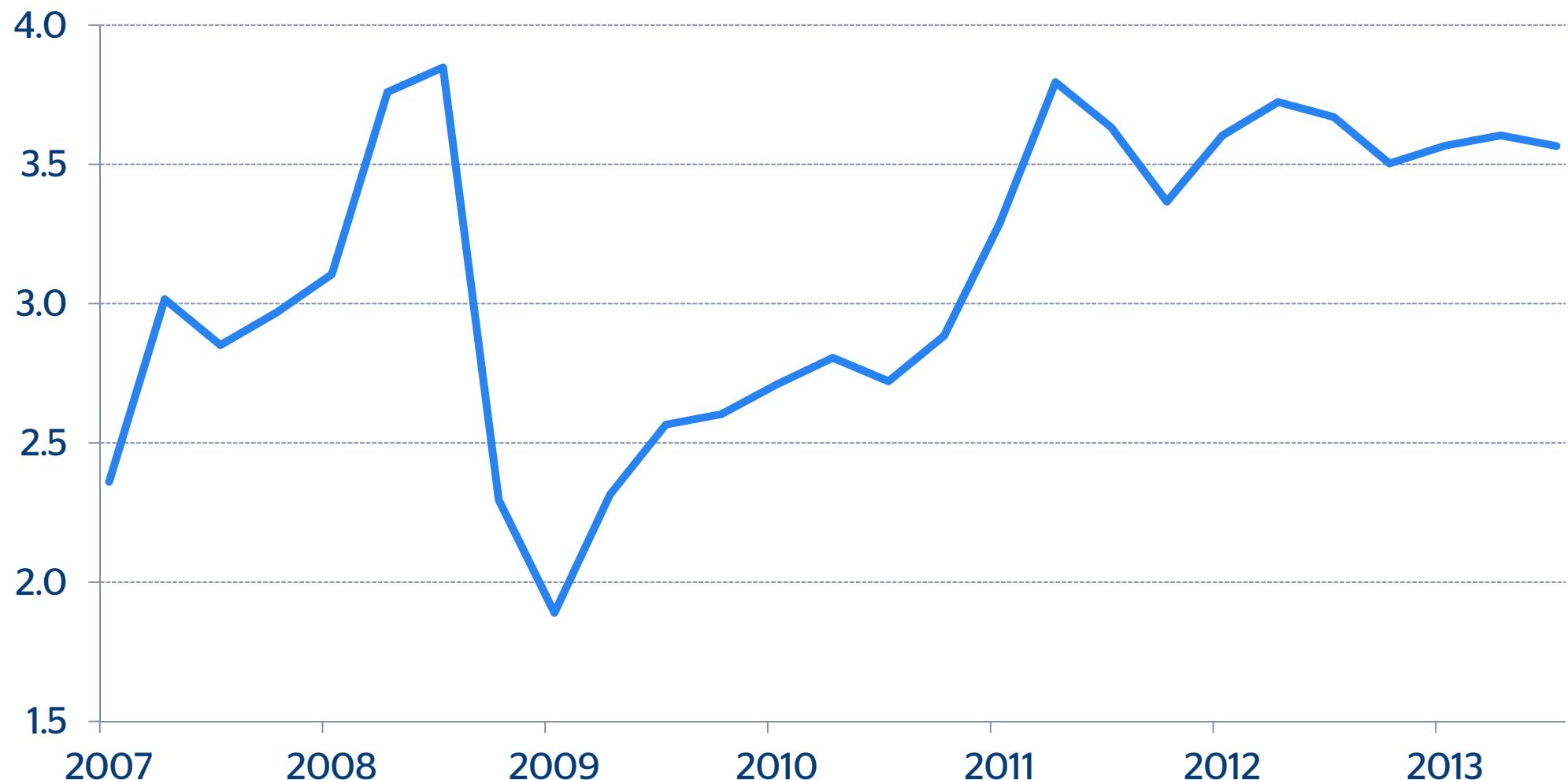
International trade

Exports and imports of autos (SAAR, \$ billion, chained 2009 dollars)



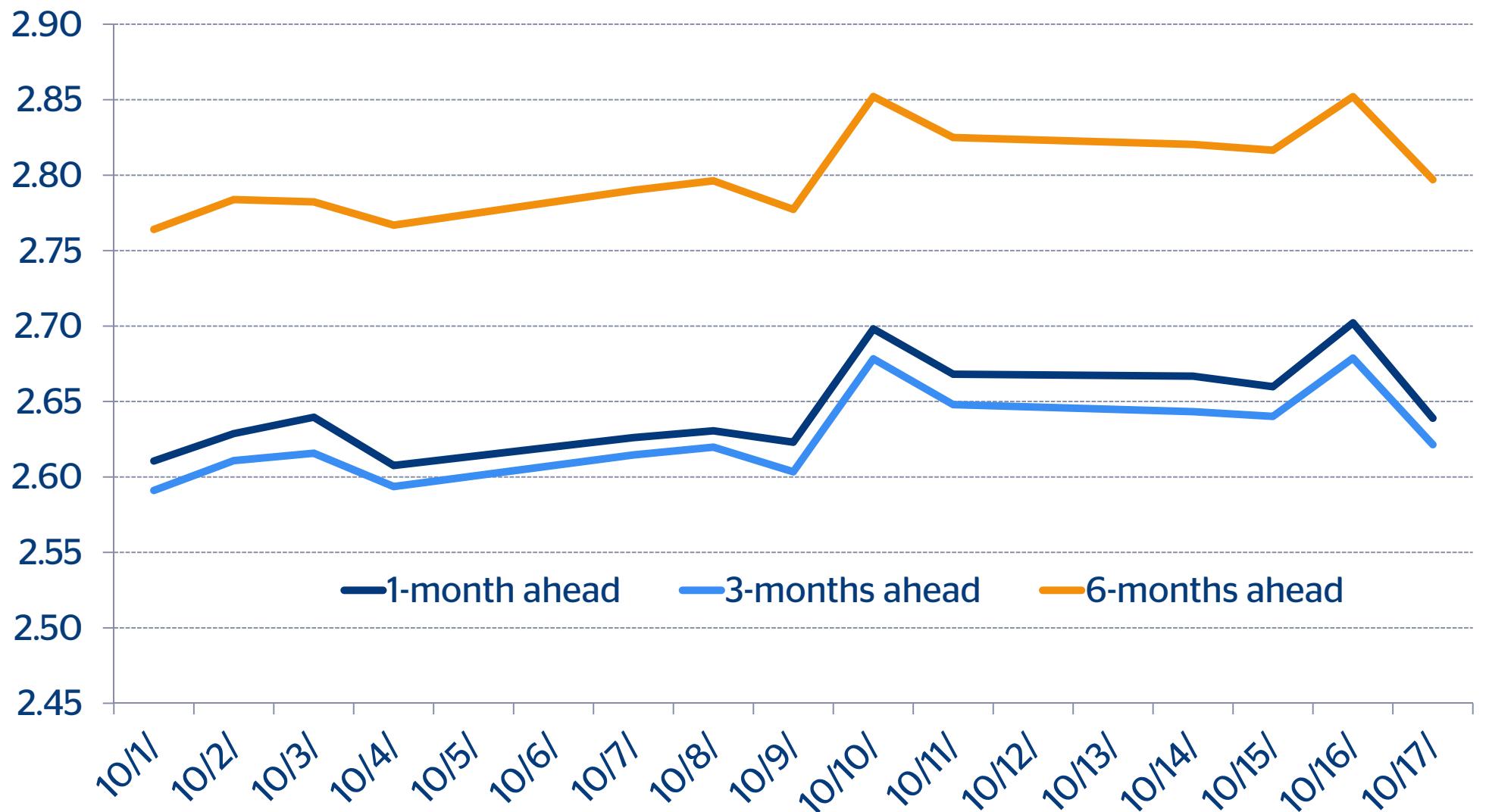
Gasoline

Spot price (\$/gallon)



Gasoline

Future prices (\$/gallon)

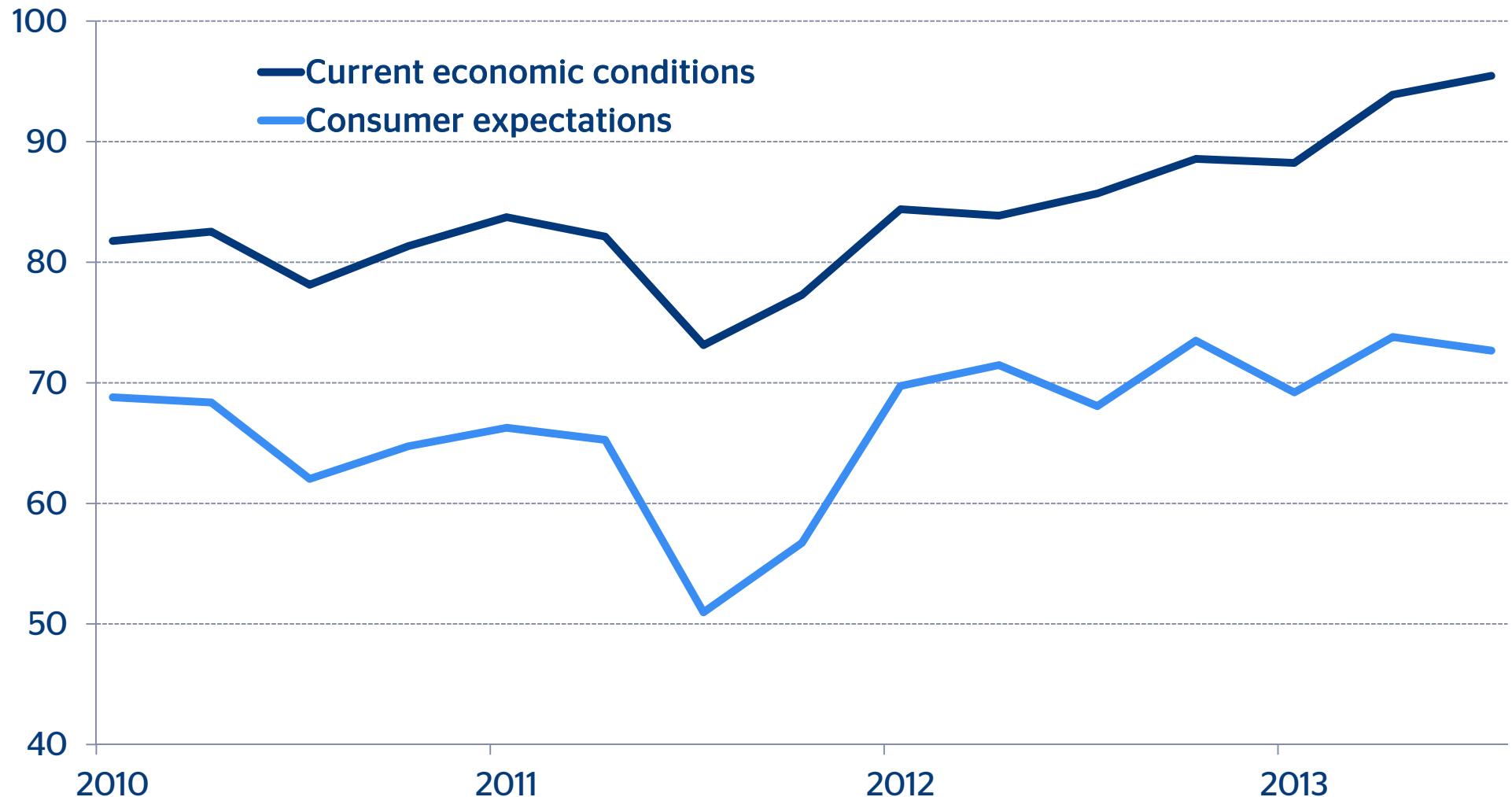


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Consumers

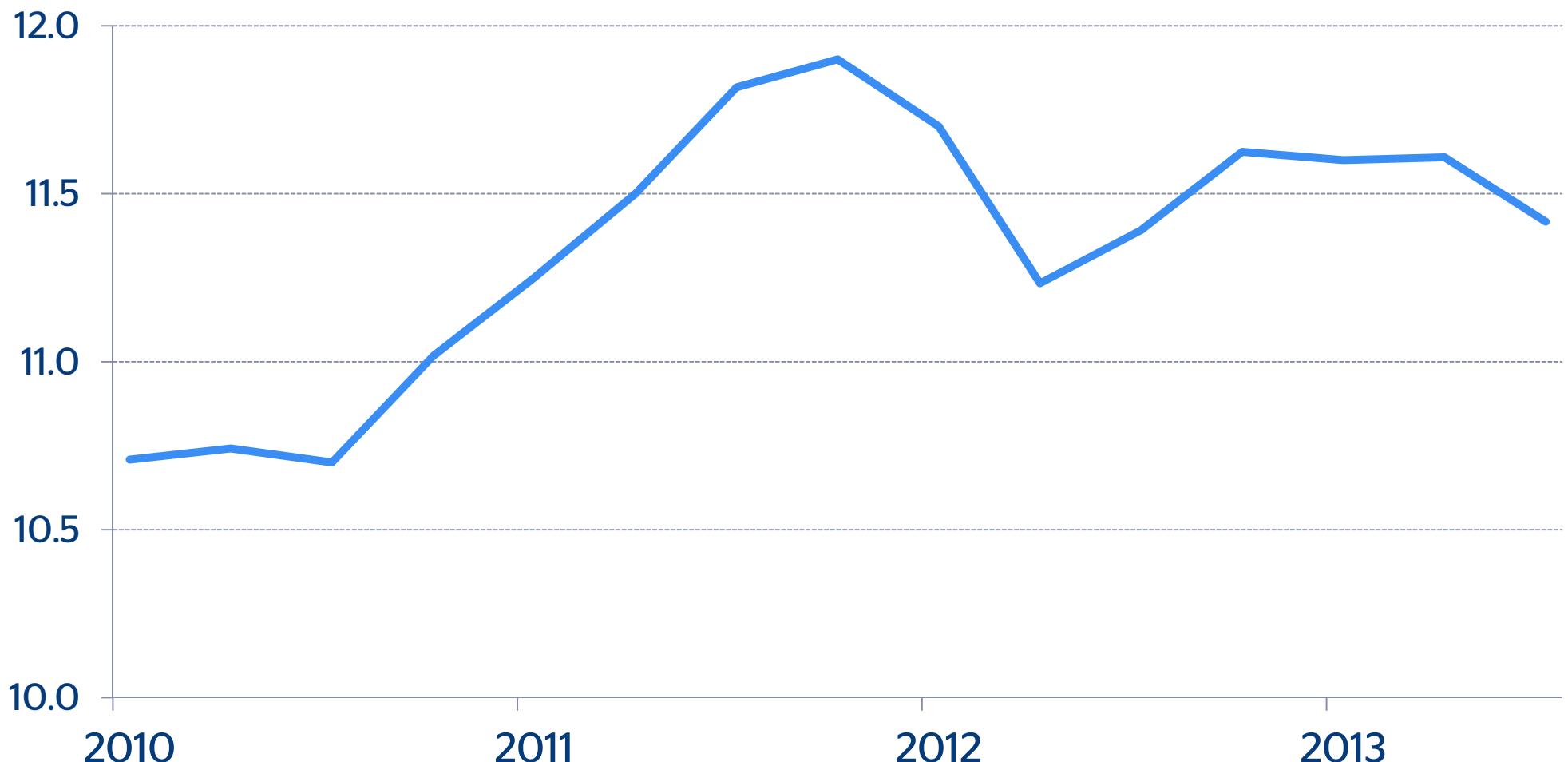
Consumers

Consumer sentiment index



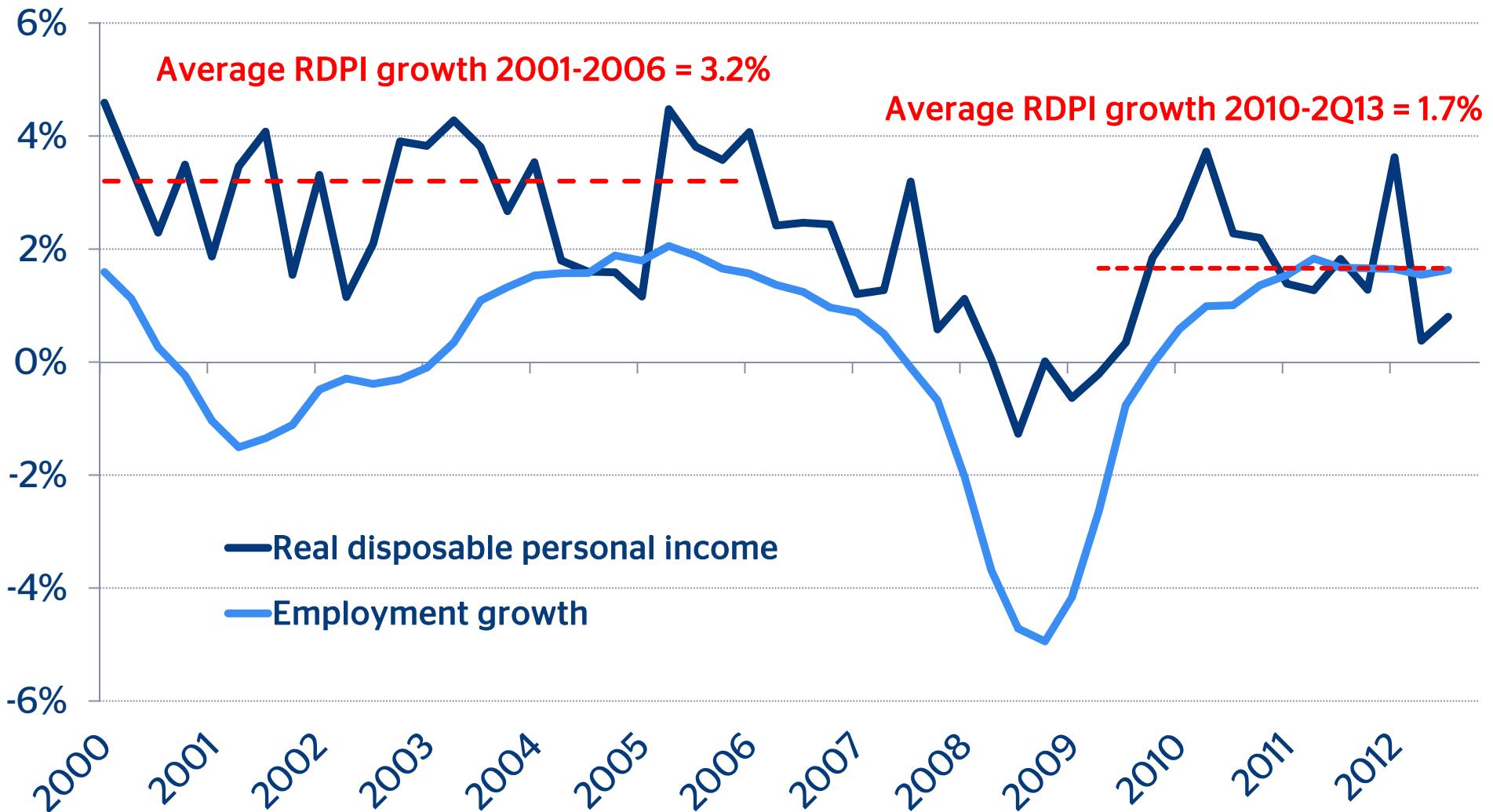
Consumers

Plan to buy a car within 6 months, % of respondents



Consumers

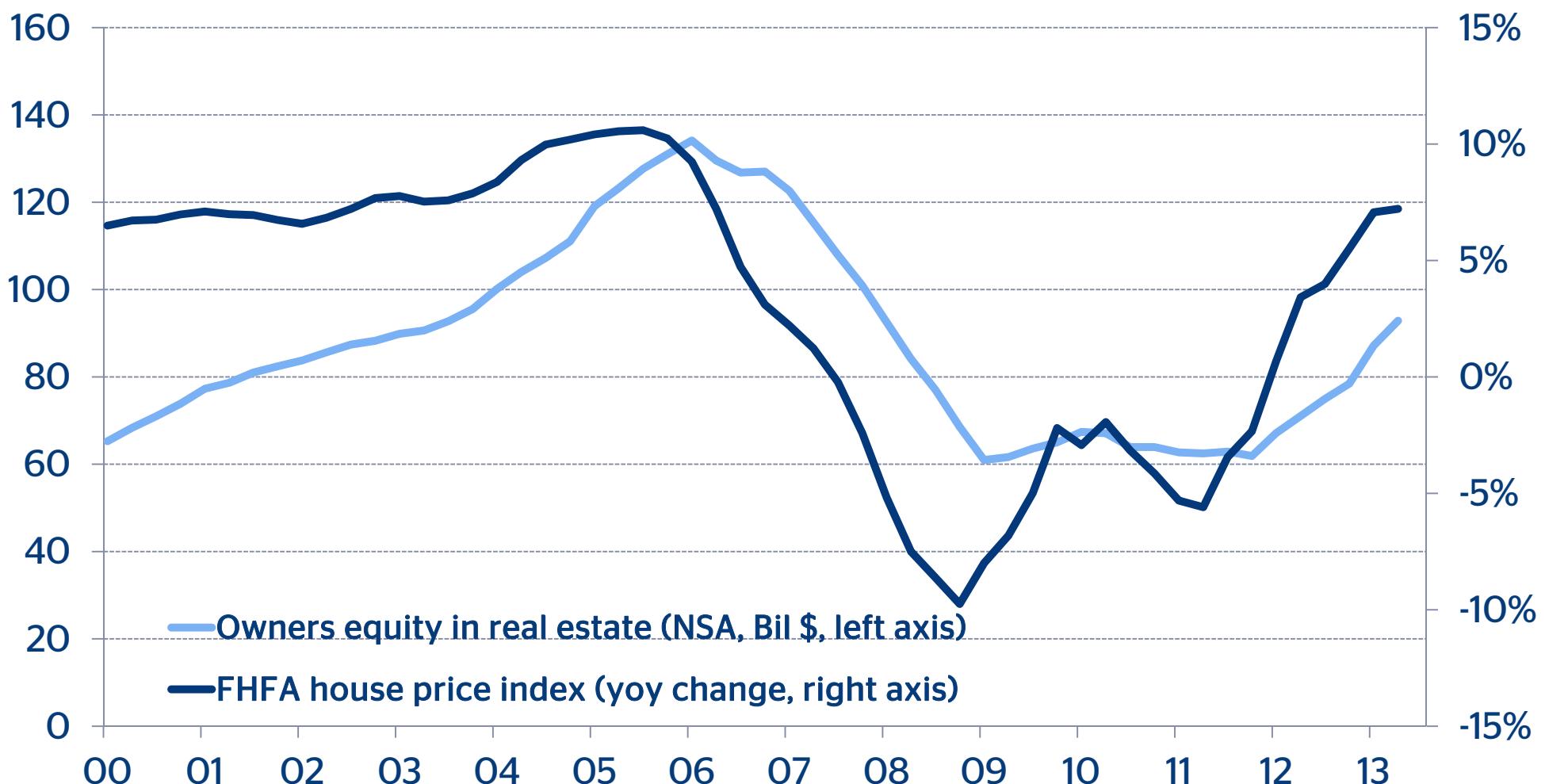
Employment and real disposable personal income growth (yo-y change)



Source: BBVA Research and Haver Analytics

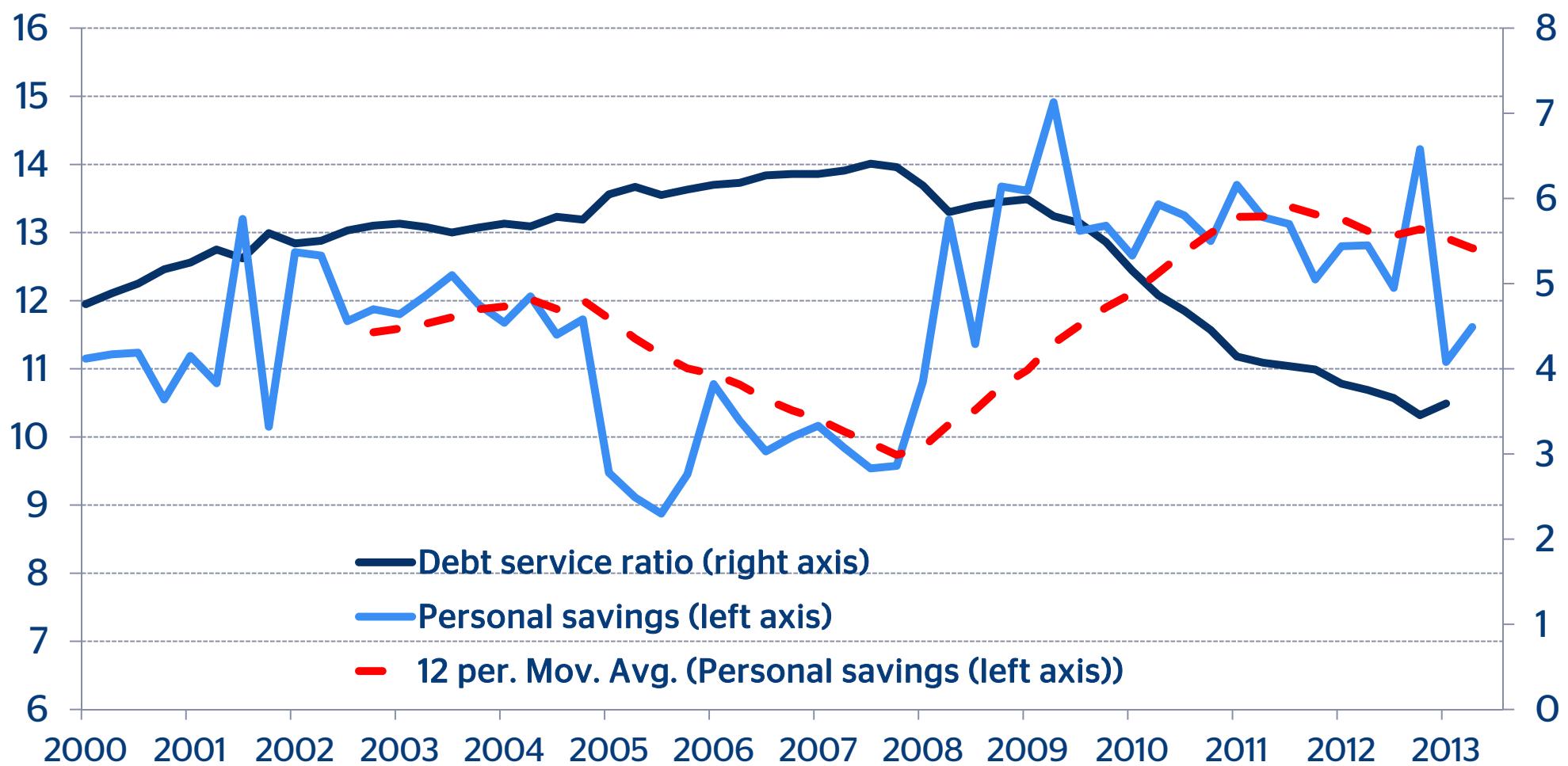
Household equity

Household equity and home prices



Savings and deleverage

Debt-to-income ratio and savings rate

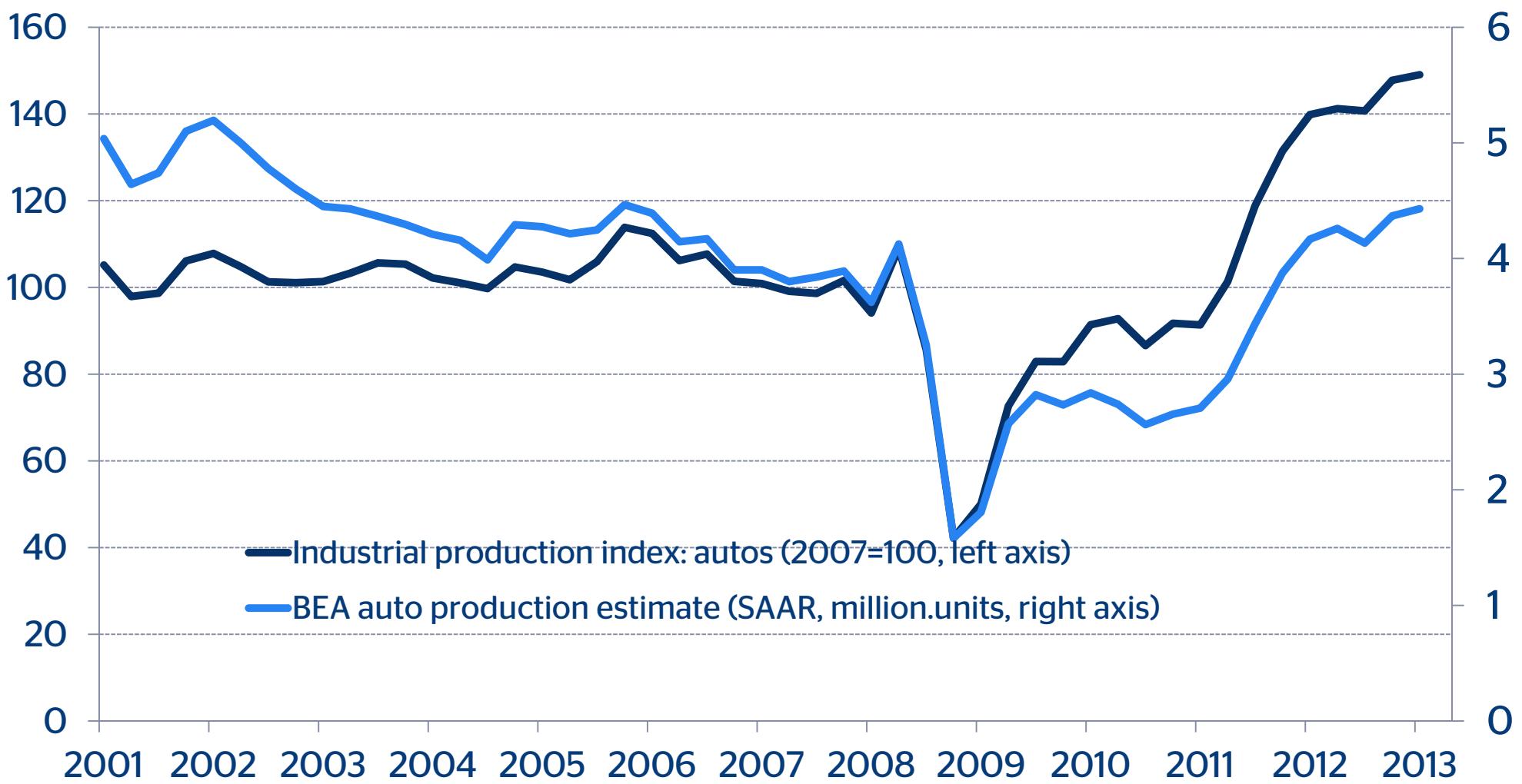


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Production

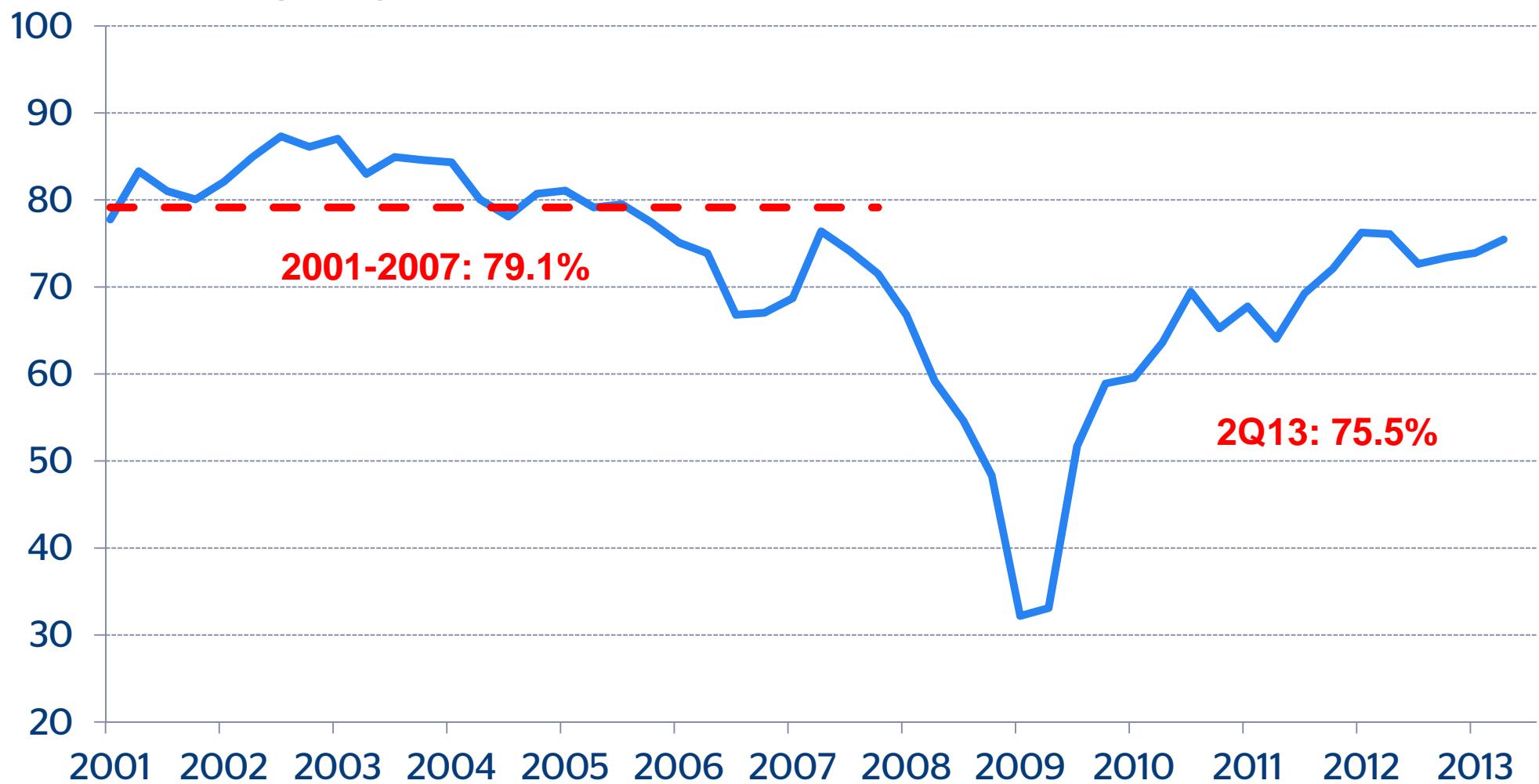
Production

Auto production



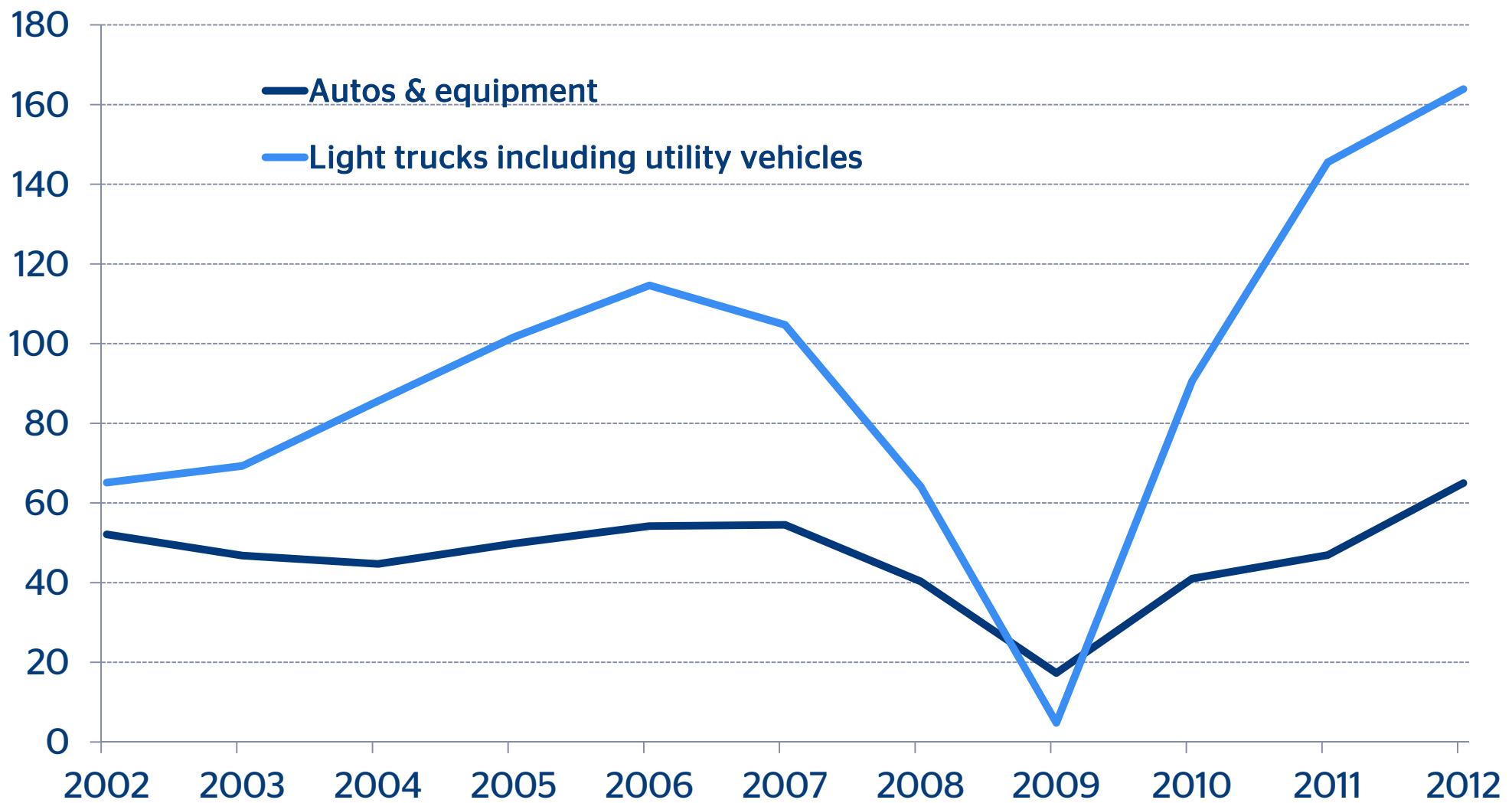
Capacity utilization

Industrial production: automobile and light duty motor vehicles
(SA, % of capacity)



Investment

Private fixed investment: autos & equipment (billions of chained 2009 dollars)



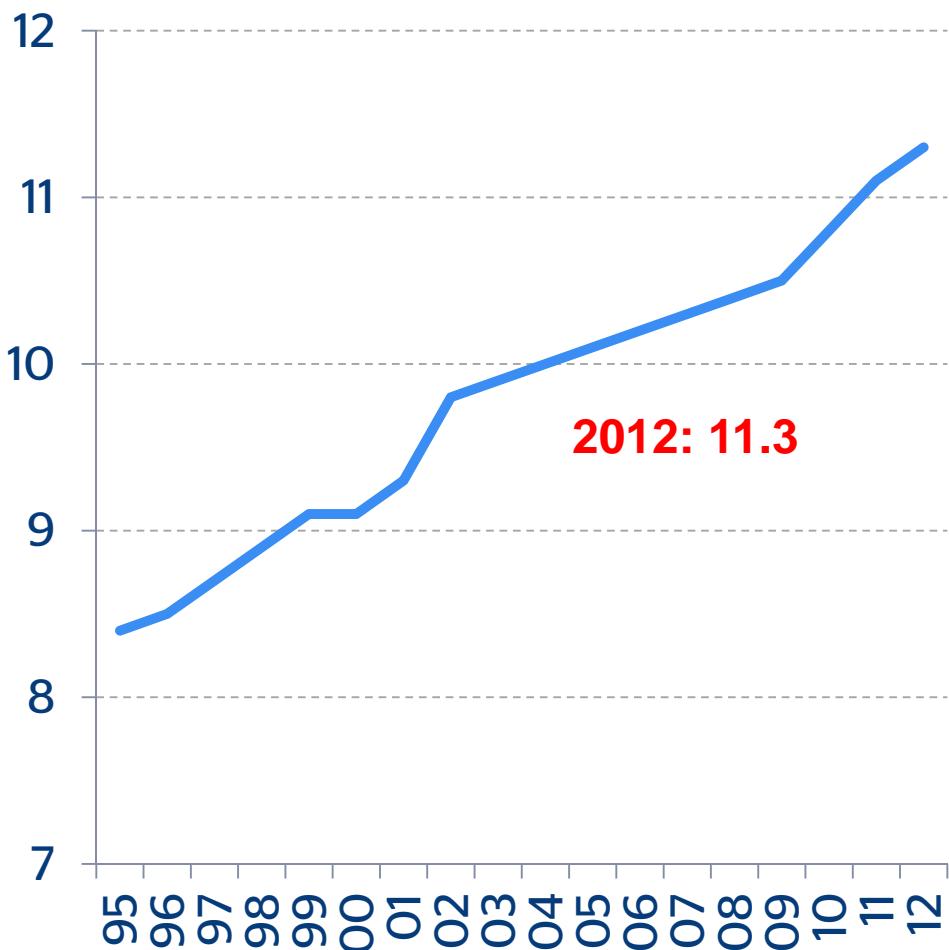
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Structural

Fundamentals

Mean age of passenger cars in operation

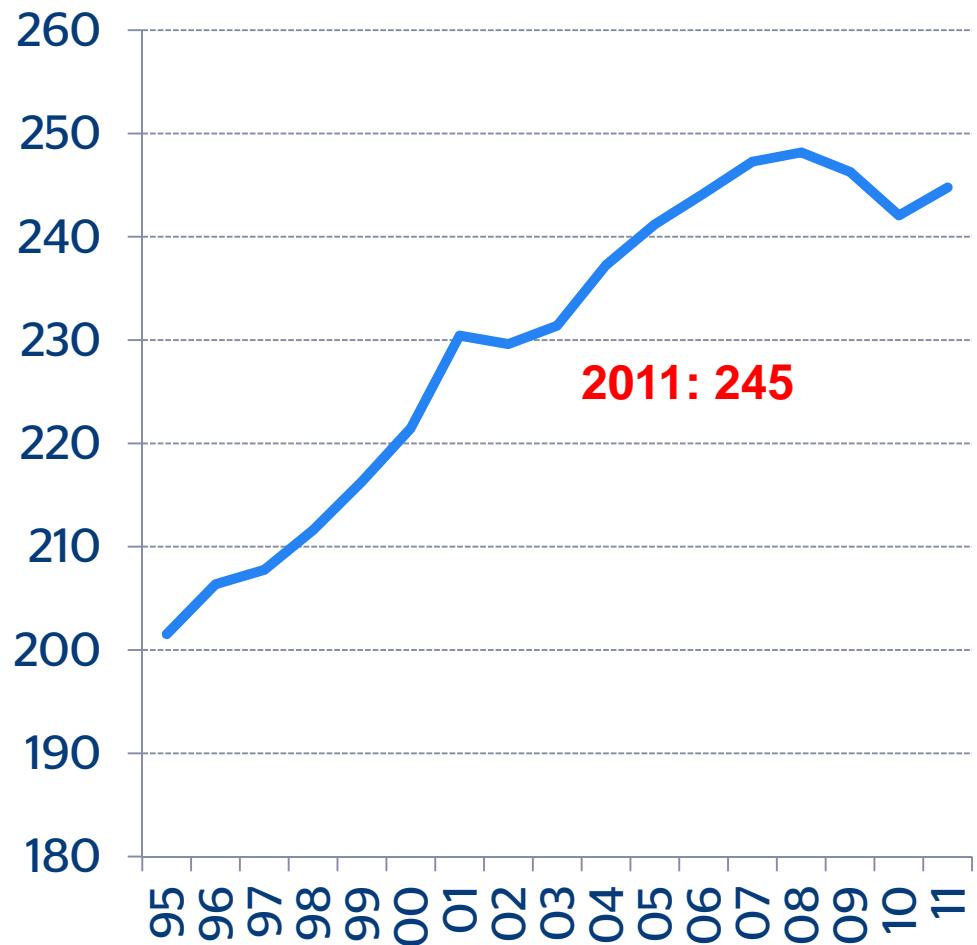
Years



Source: Haver Analytics

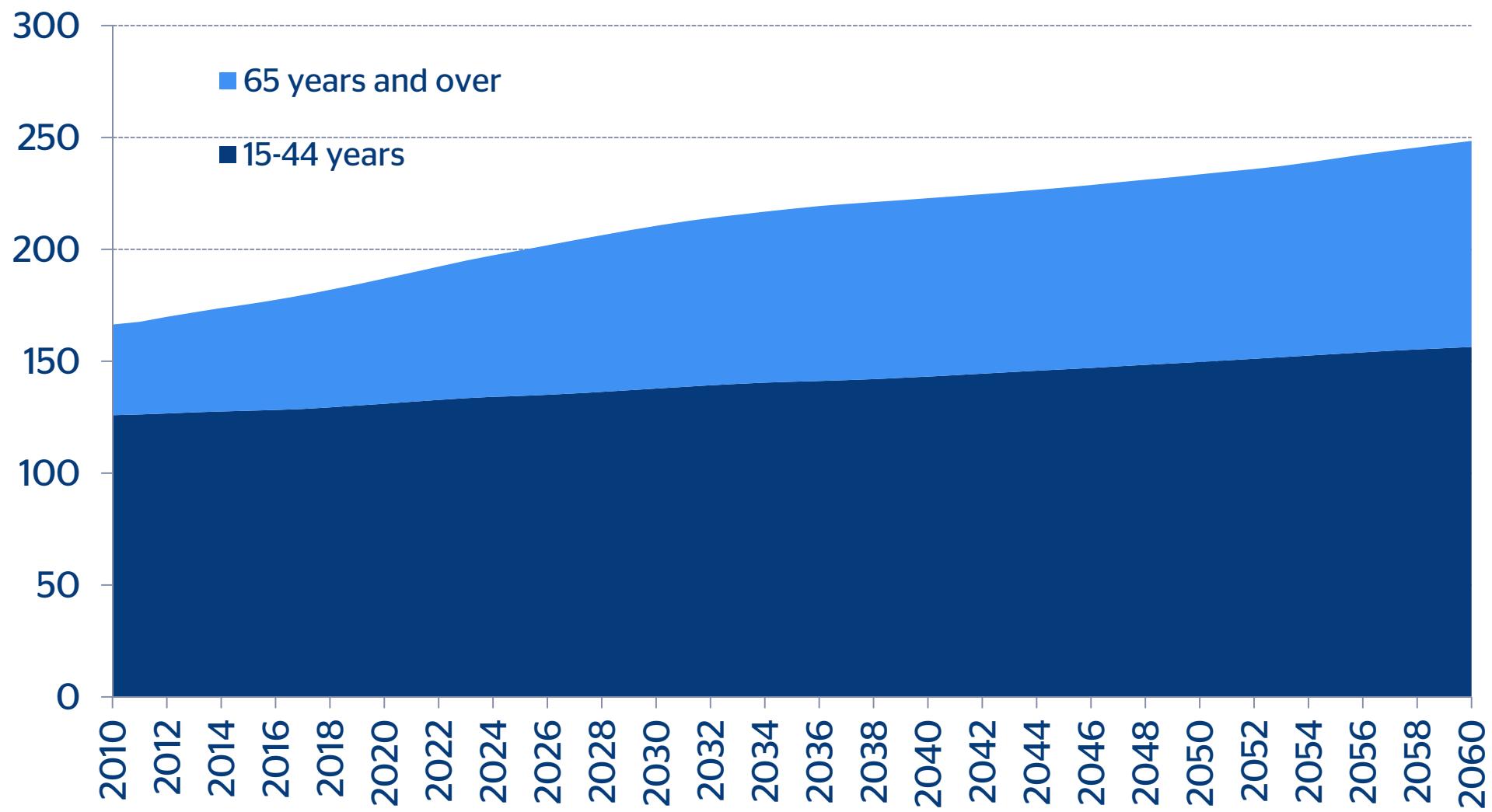
Vehicle registrations

Millions



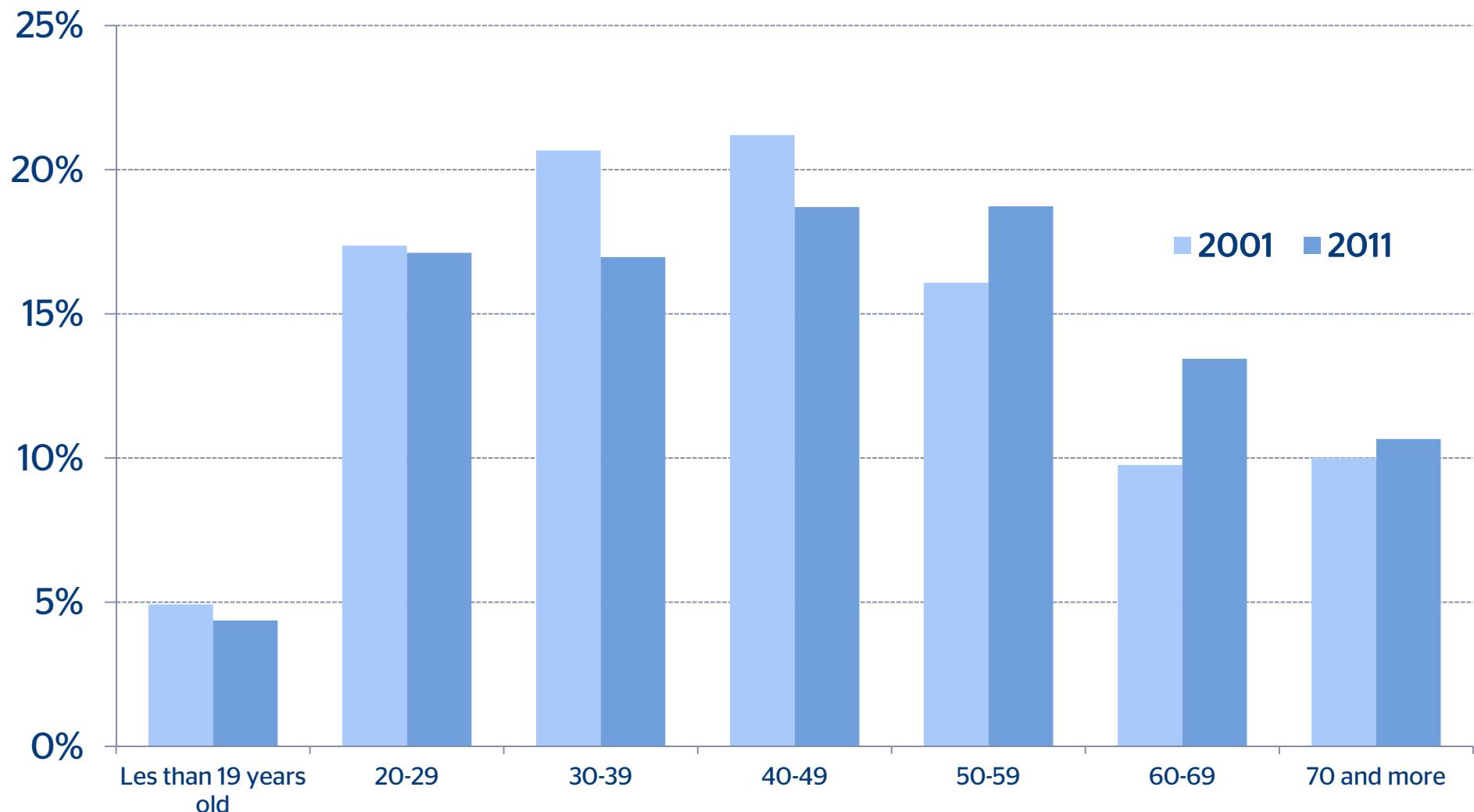
Demographics

Population projections by age (millions)



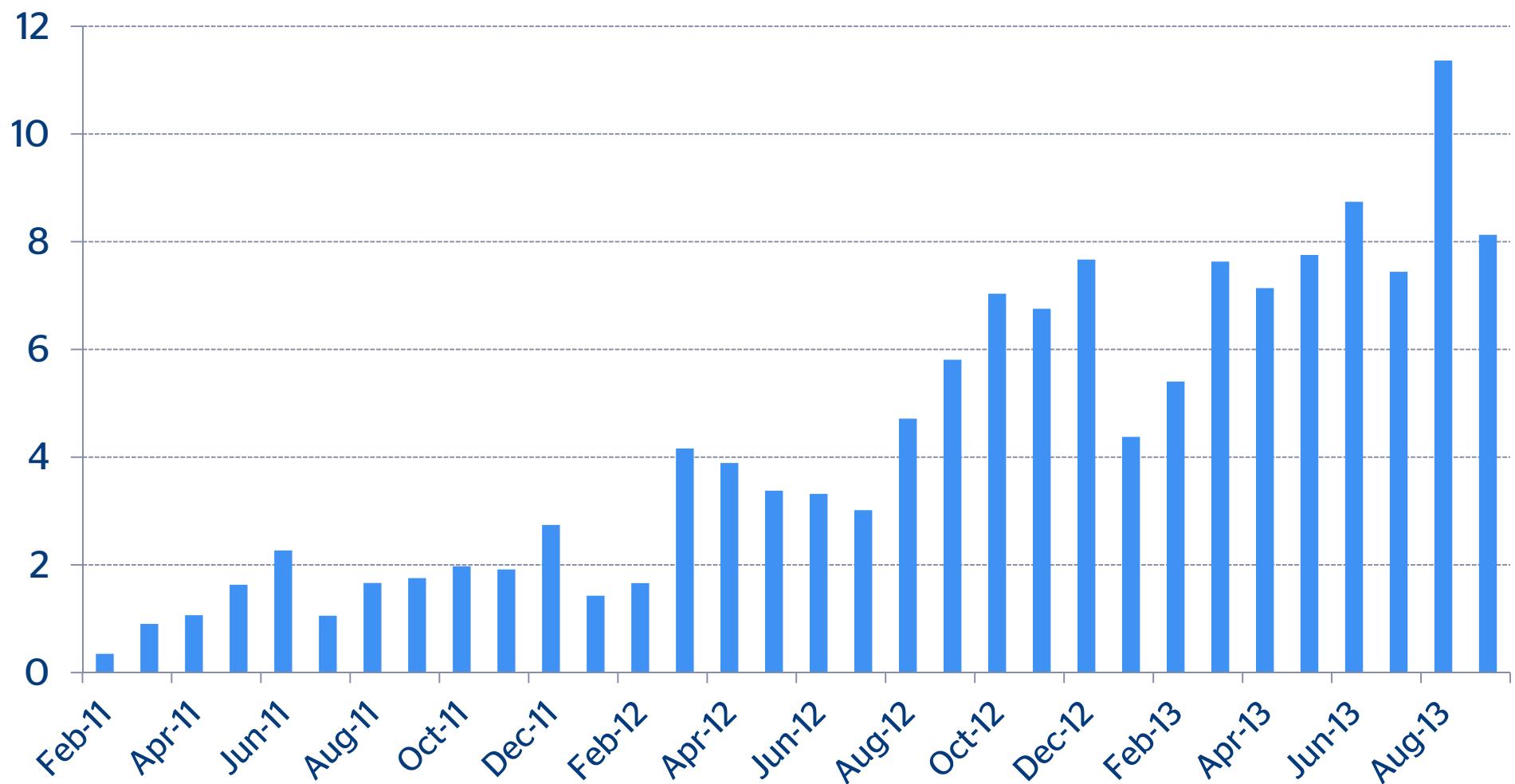
Demographics

U.S. licensed drivers by age



Electric cars

New U.S. plug-in vehicle sales (thousands)





Forecasts

Forecasts

Average	2012	2013	2014	2015
Auto sales (millions units)	14.4	15.6	16.3	16.7
GDP growth (% change)	2.8	1.6	2.3	2.5
Unemployment rate (%)	8.1	7.5	7.0	6.4
Fed funds (%)	0.14	0.19	0.25	0.33
3-year Treasuries (%)	0.38	0.62	1.07	1.78

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