

# U.S. Auto Industry Chartbook

BBVA Research USA

Houston, TX

Third Quarter 2015

## Key messages

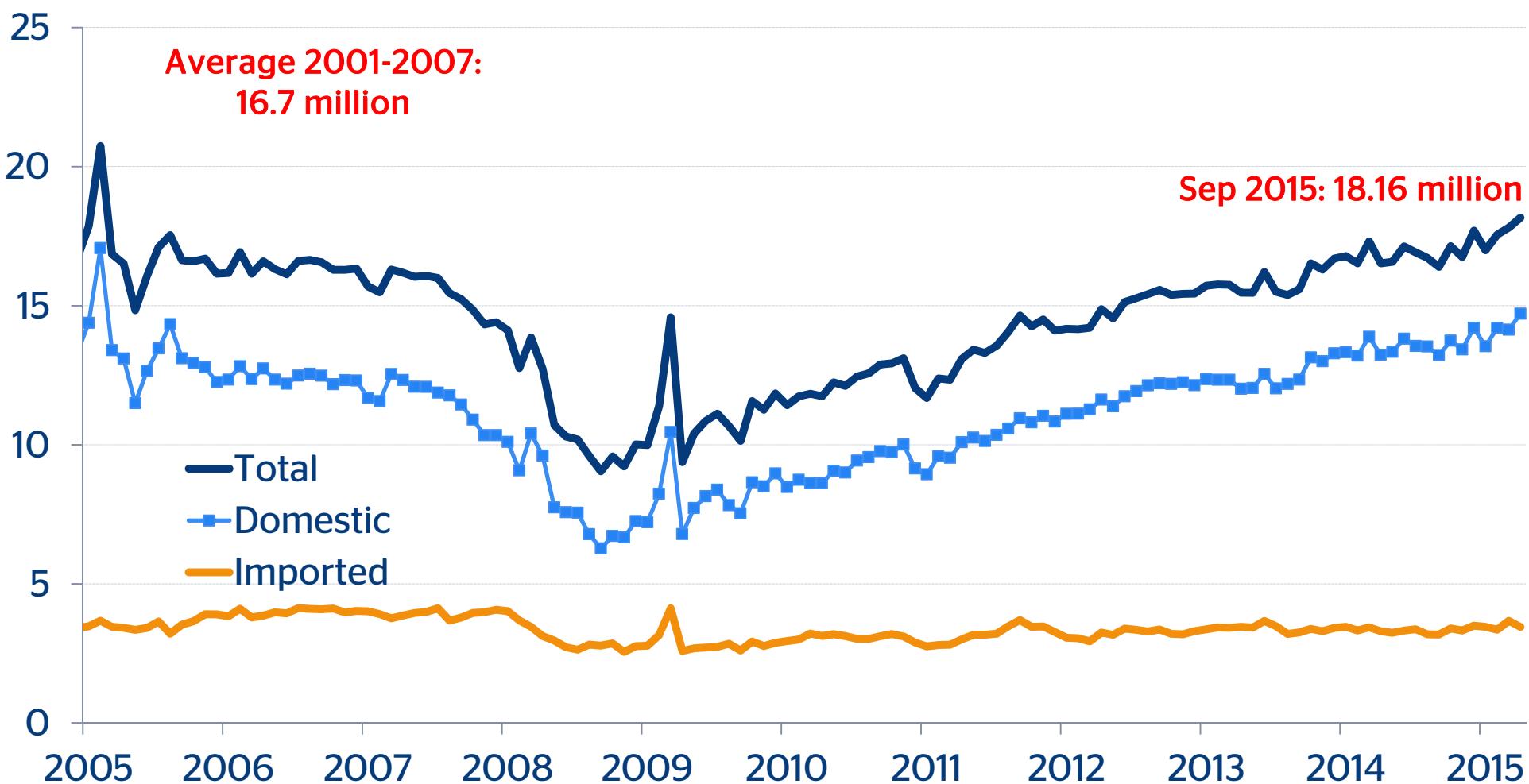
- Light motor vehicle sales reached 18.16 million in September, the highest level since July 2005
- Sales of light and heavy trucks follow an upward trend boosted by cheap fuel, employment growth and low interest rates
- Financial conditions are favorable, with rates still at historical lows and loan originations currently in pre-crisis levels
- Sustained economic growth and low energy prices will continue to support demand for light motor vehicle sales
- At 11.4, the average age of vehicle fleet could spur replacement in the short-term
- Demand for plug-in hybrids improved slightly in 3Q15, but remains constrained by the impact of low gasoline prices

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Sales

# Sales

U.S. Total light weight vehicle sales (SAAR\*, million units)

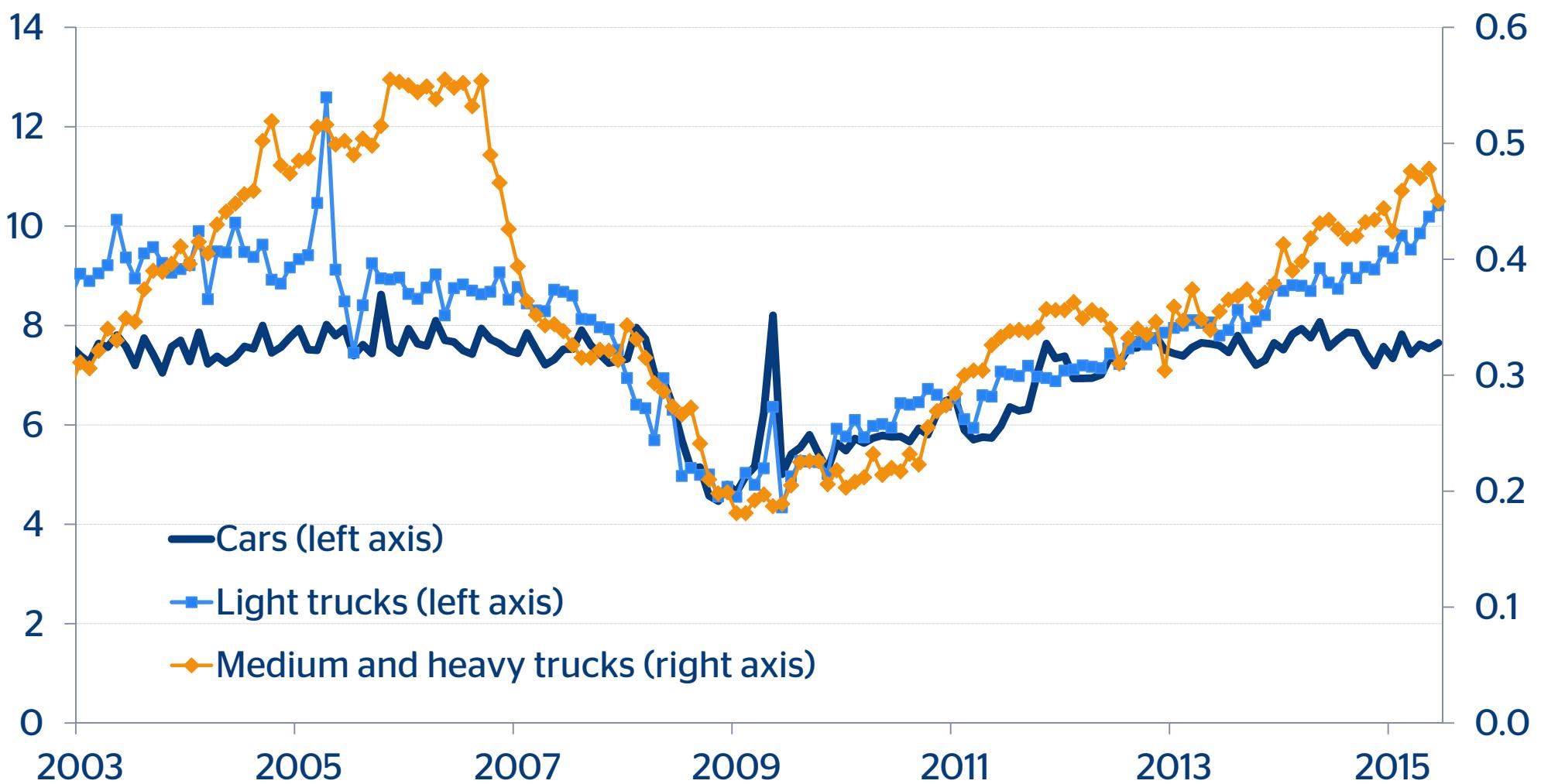


\*SAAR = seasonally adjusted annual rate

Source: BBVA Research & Haver Analytics

# Sales

## U.S. Total vehicle sales (SAAR, million units)

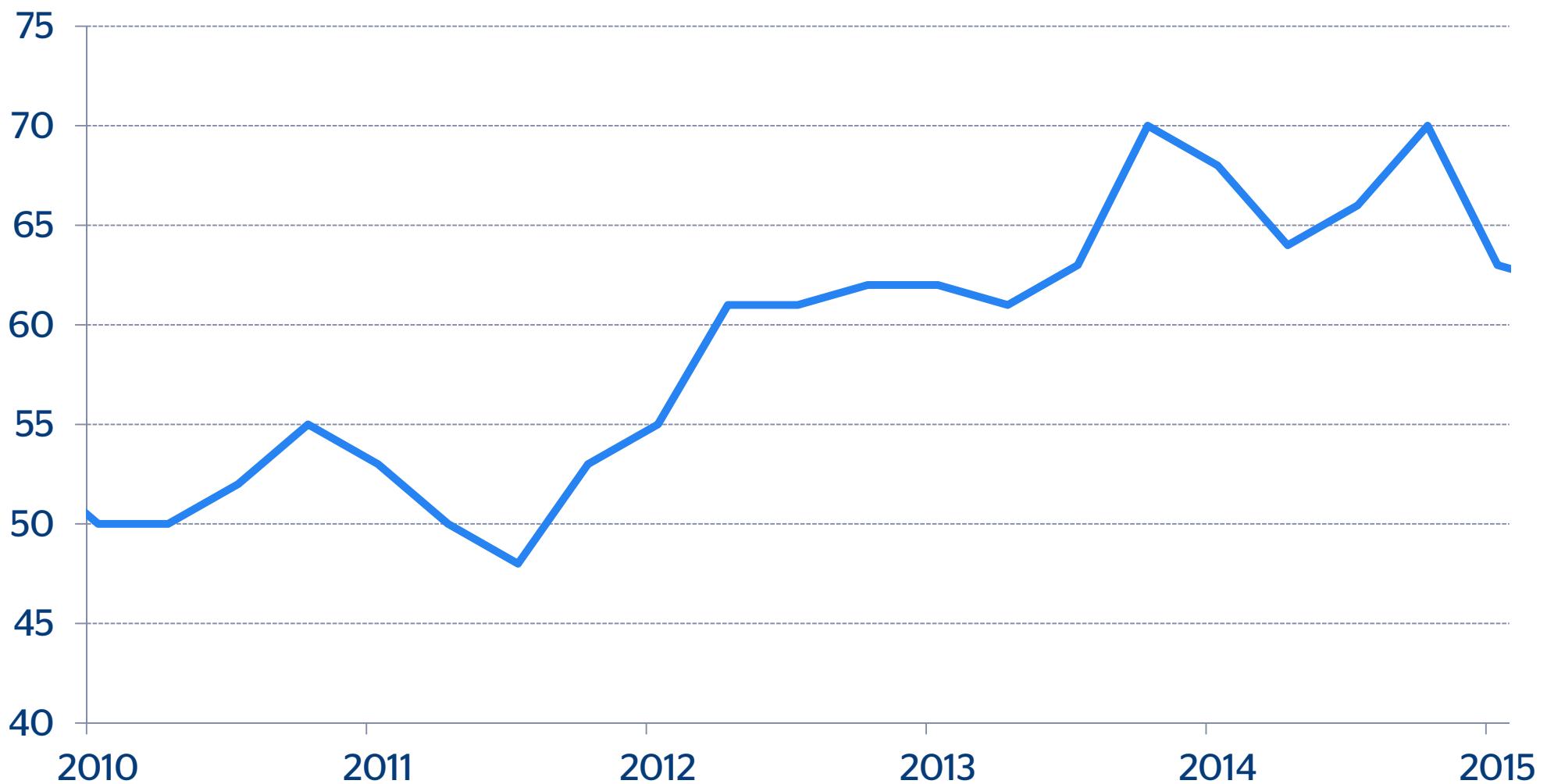


\*SAAR = seasonally adjusted annual rate

Source: BBVA Research & Haver Analytics

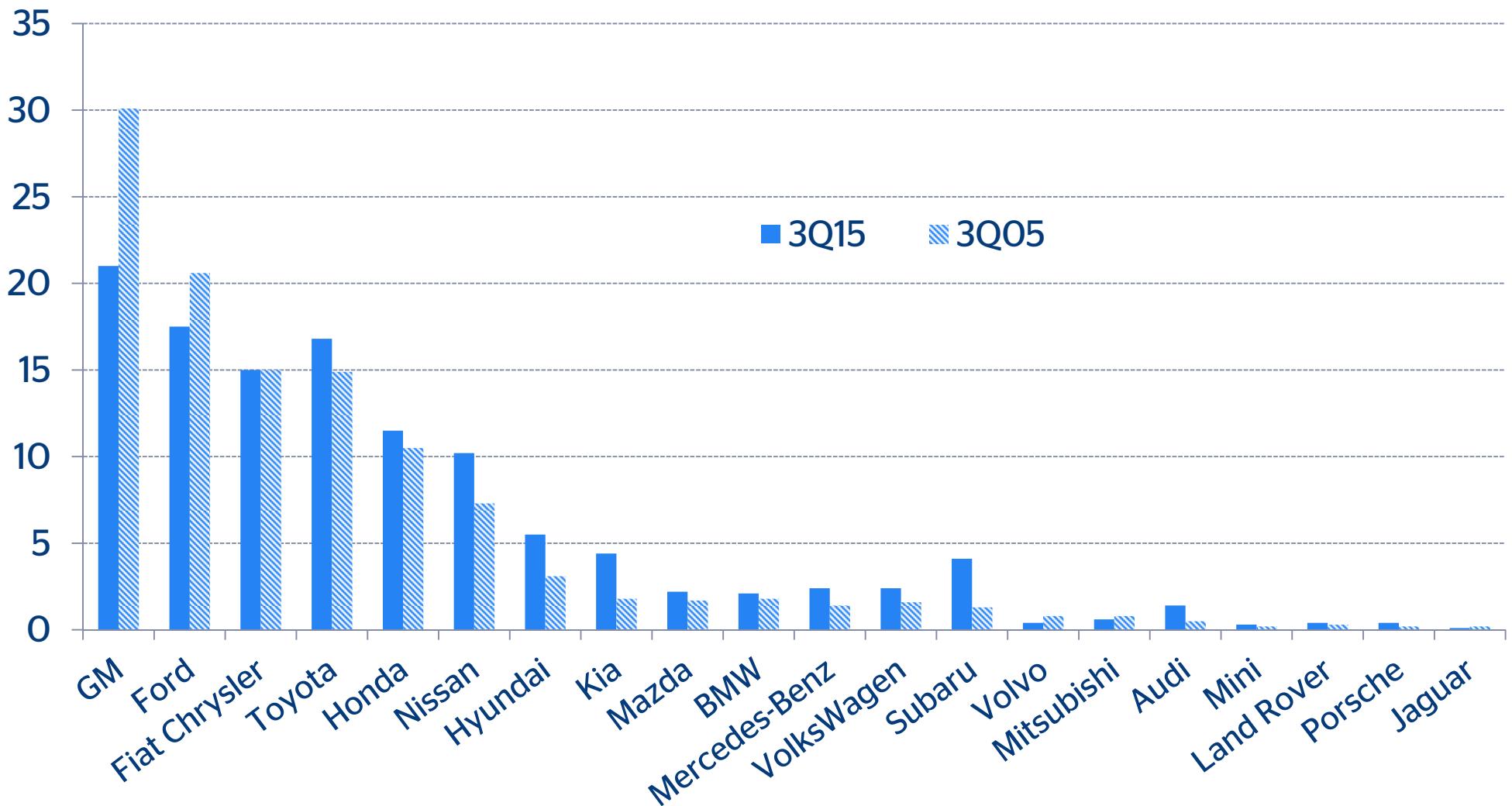
# Sales

U.S. Vehicle days to turn (industry average)



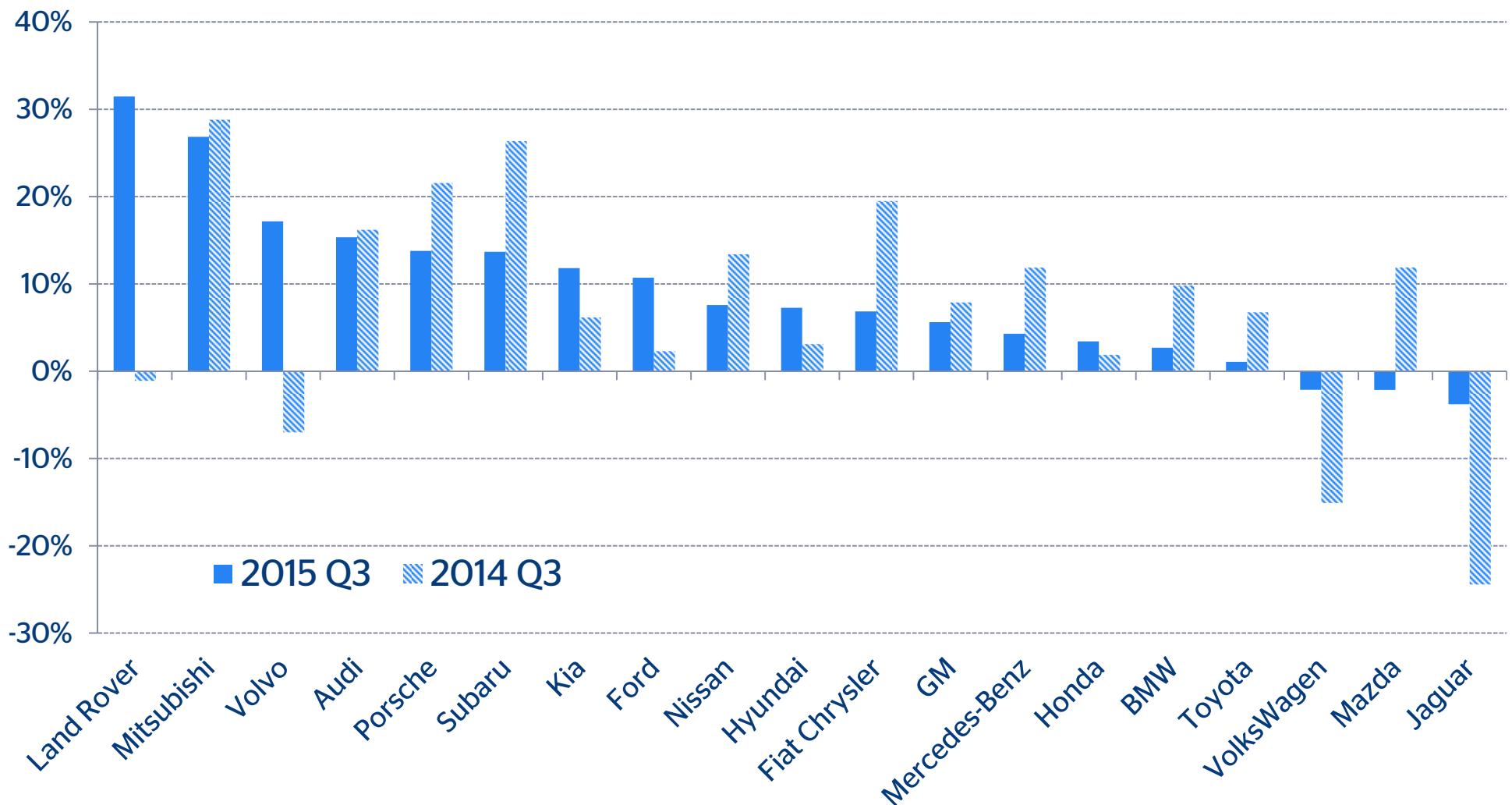
# Sales

## U.S. Market share by brand (%)



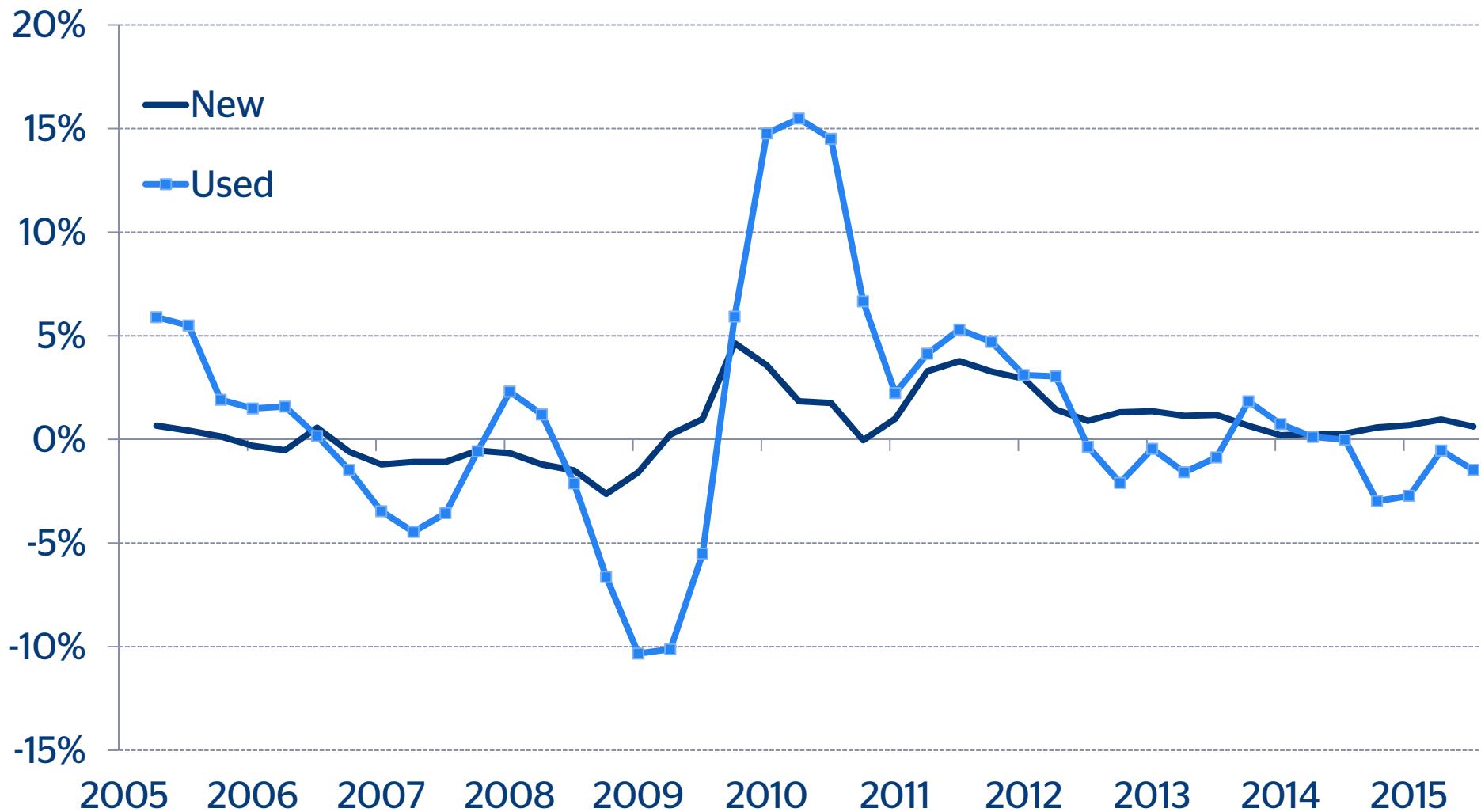
# Sales

## U.S. Quarterly unit sales (yoY % change)



# Prices

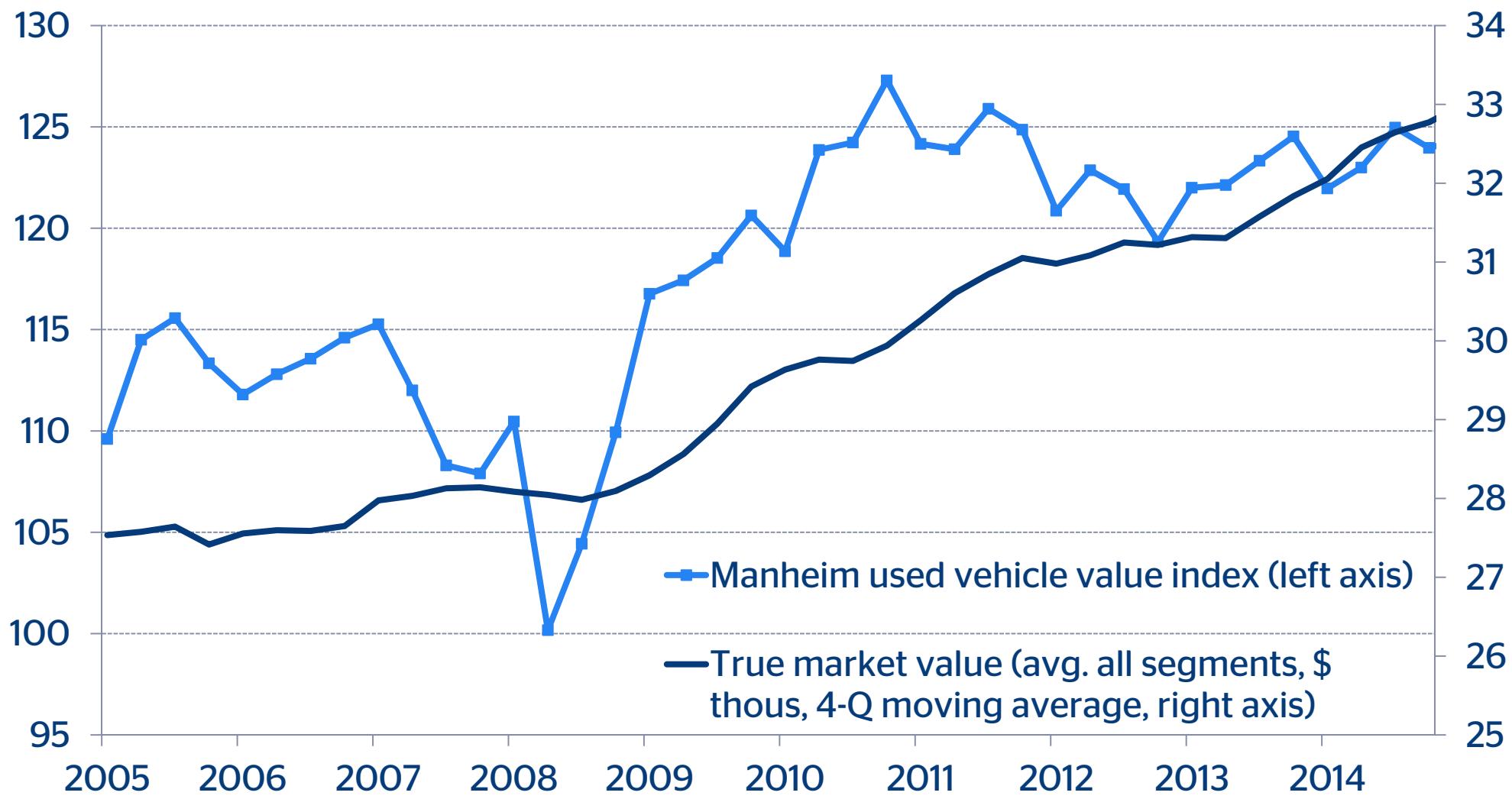
U.S. Consumer price index: cars and trucks (yoY % change)



Source: Haver Analytics

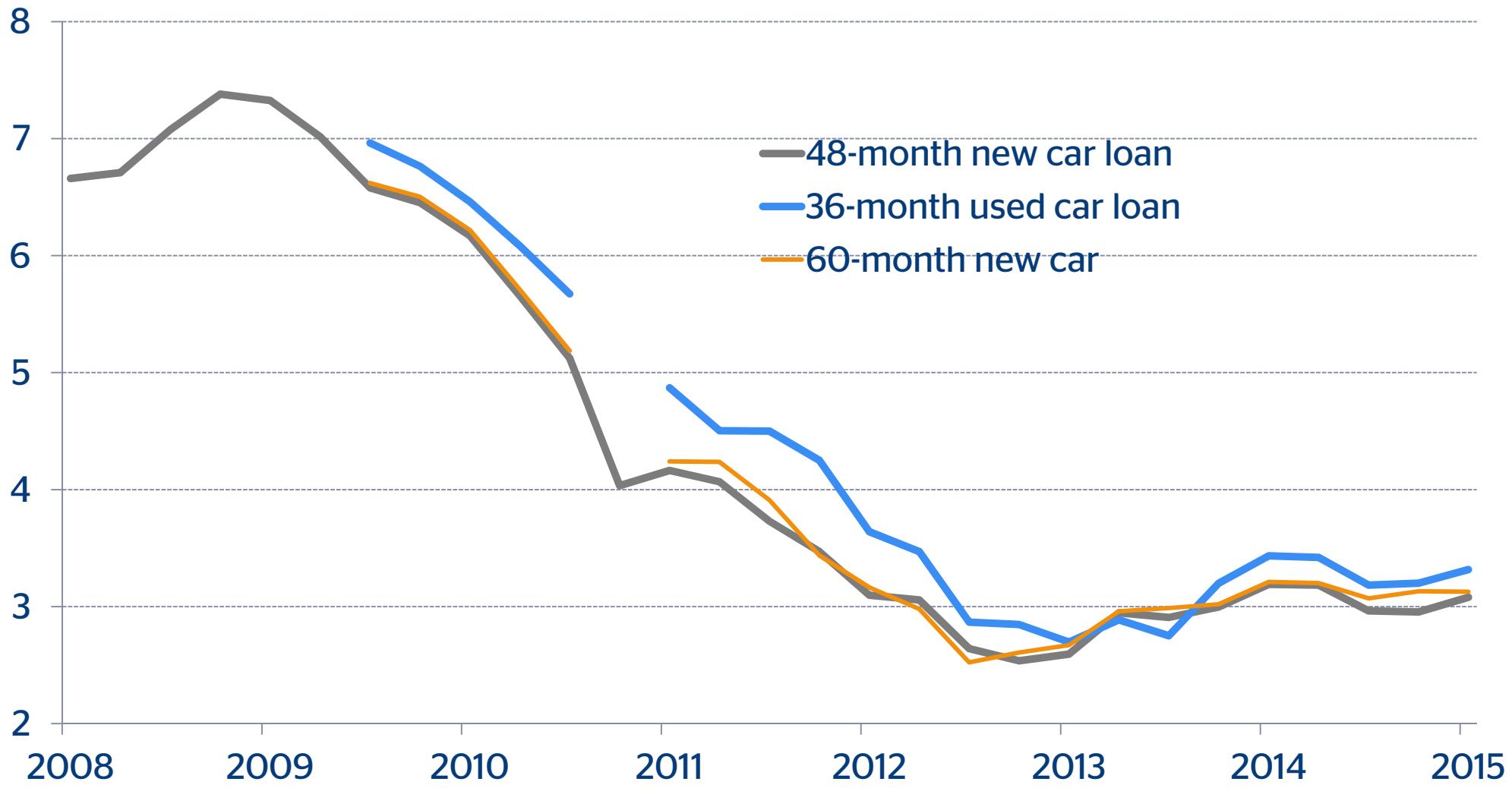
# Prices

## U.S. Auto prices



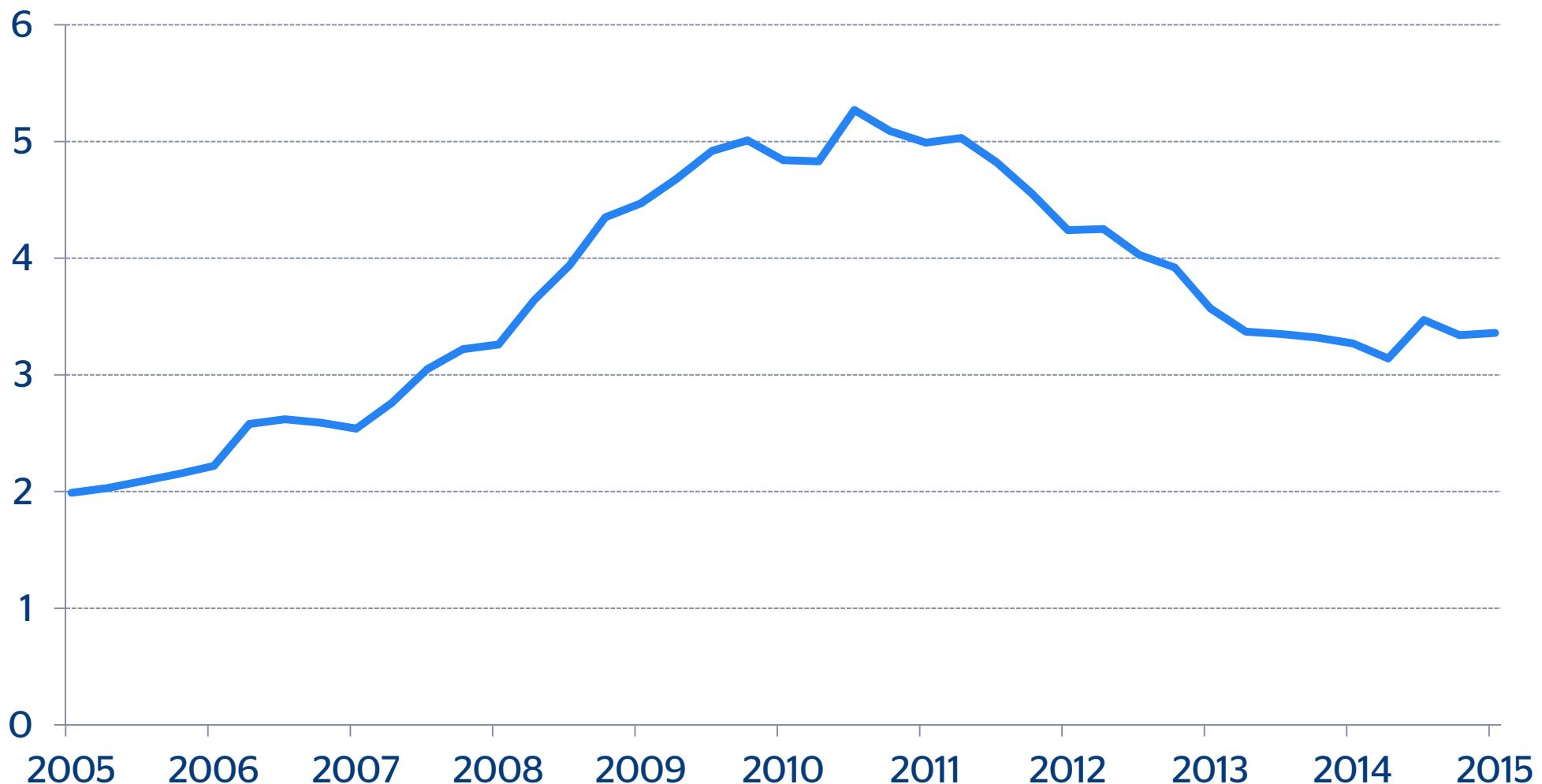
# Financing conditions

## U.S. Car loan rates (%)



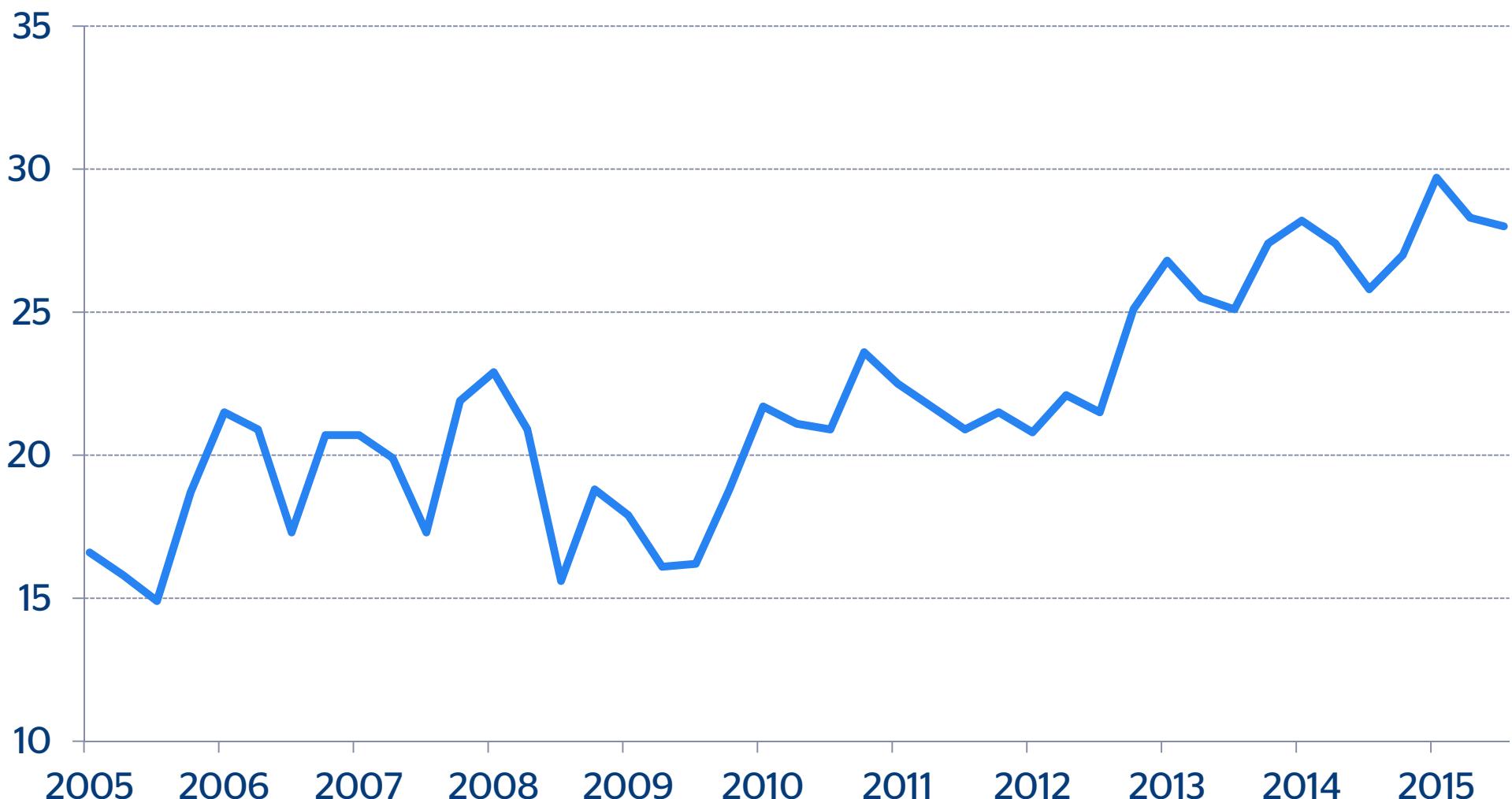
# Financing conditions

U.S. Auto loan 90+ days delinquent (% of balance)



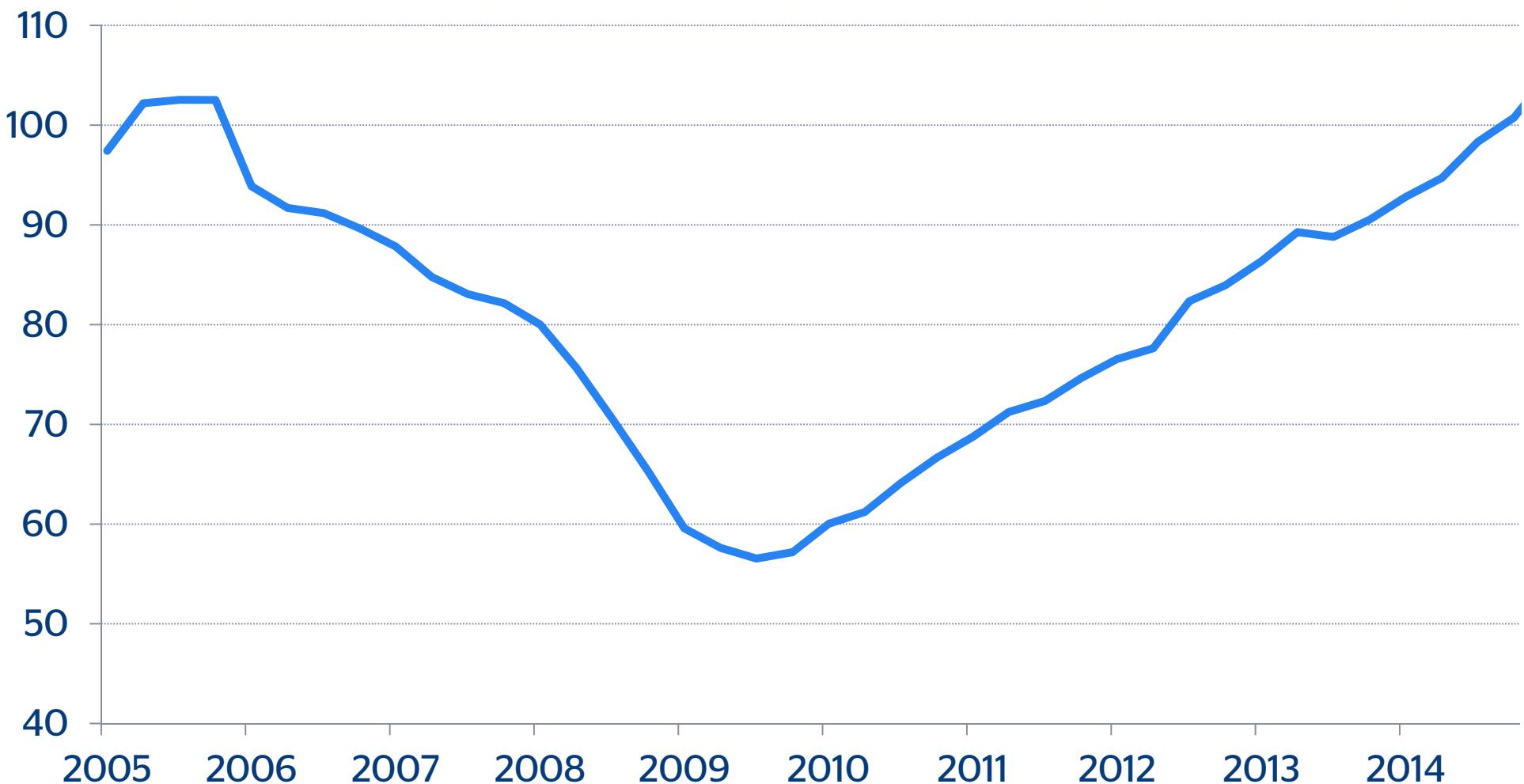
# Financing conditions

U.S. Leasing penetration rate, %



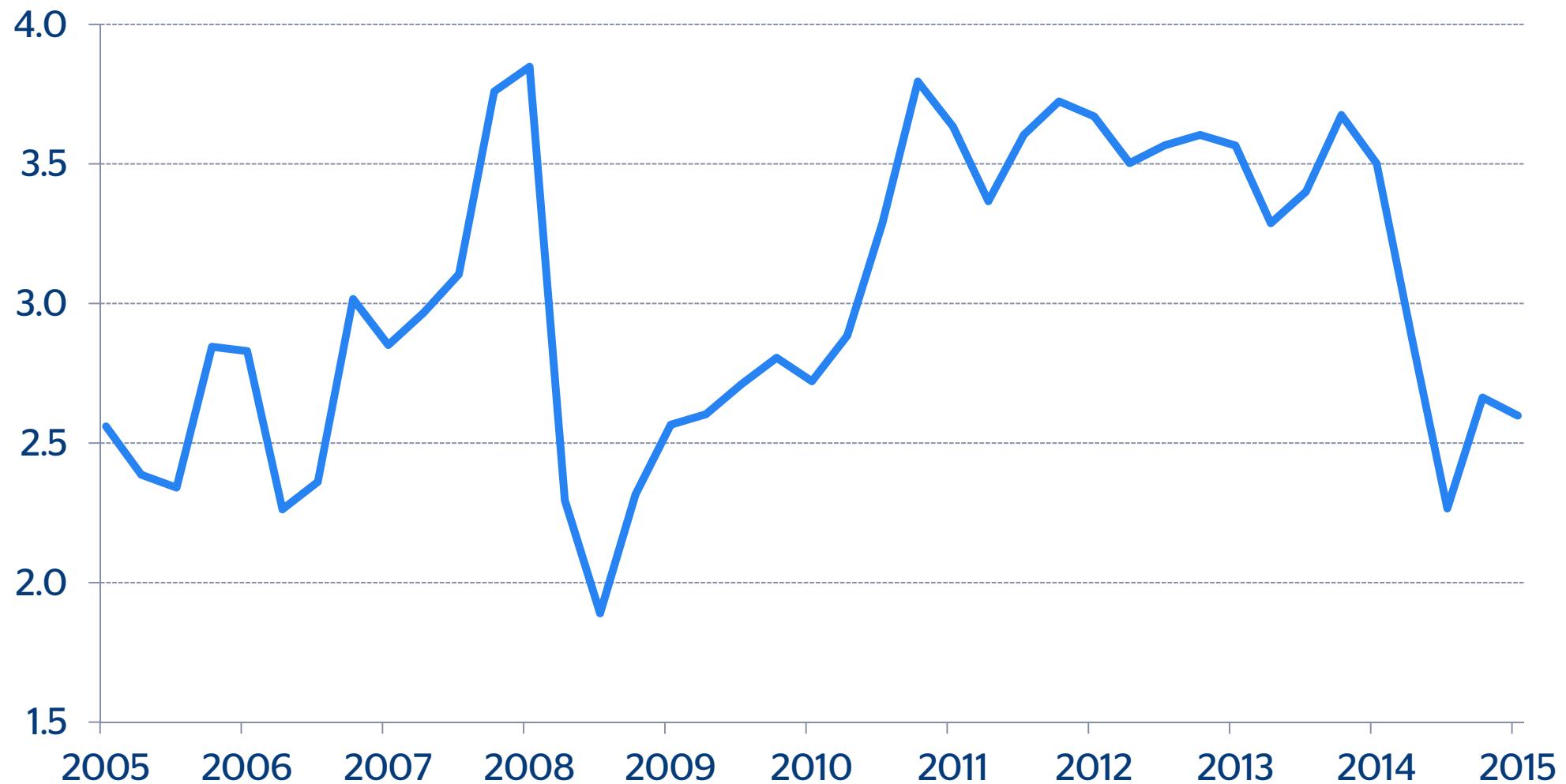
# Financing conditions

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



# Gasoline

U.S. Spot price (\$/gallon)

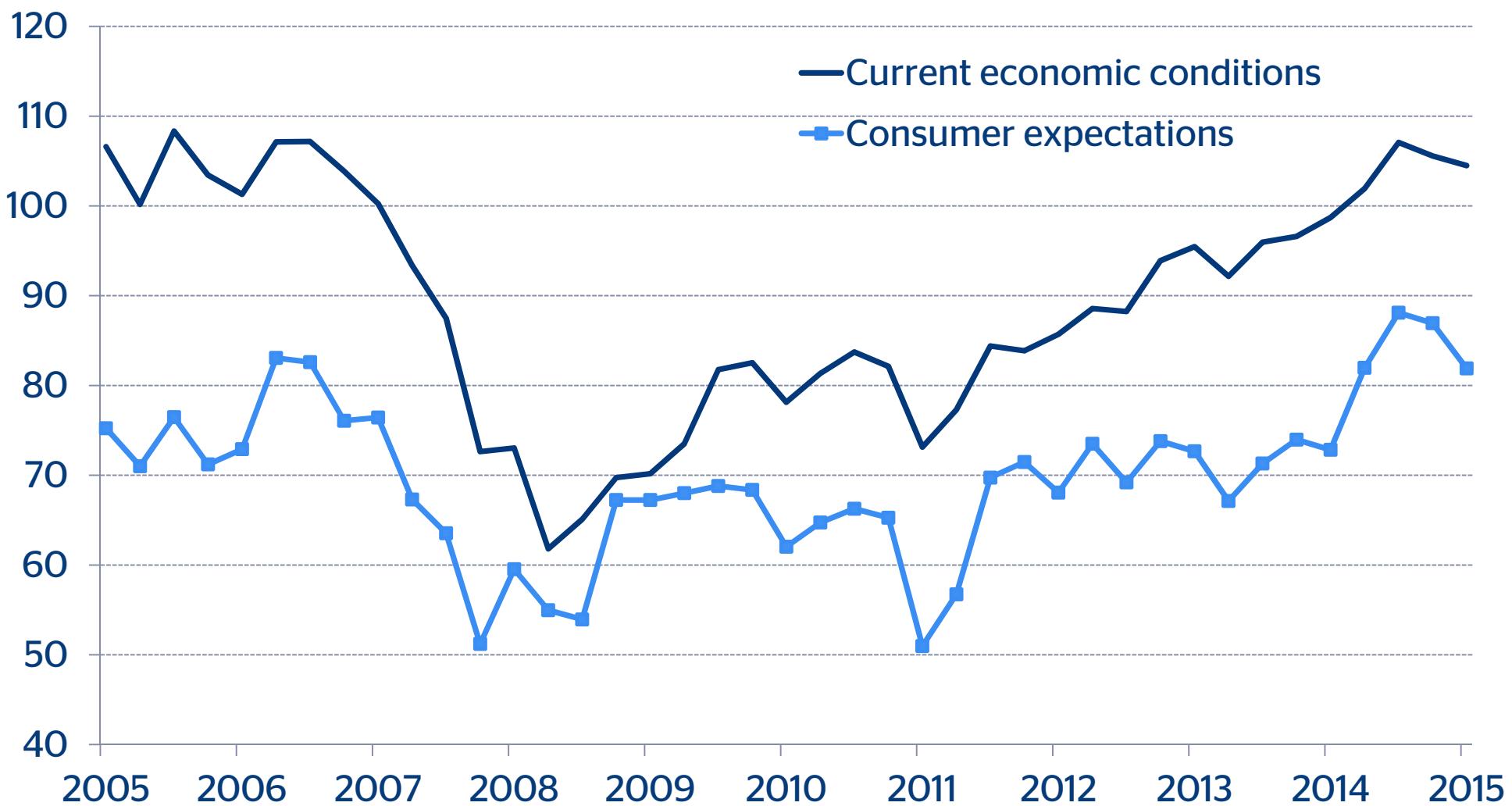


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# Consumers

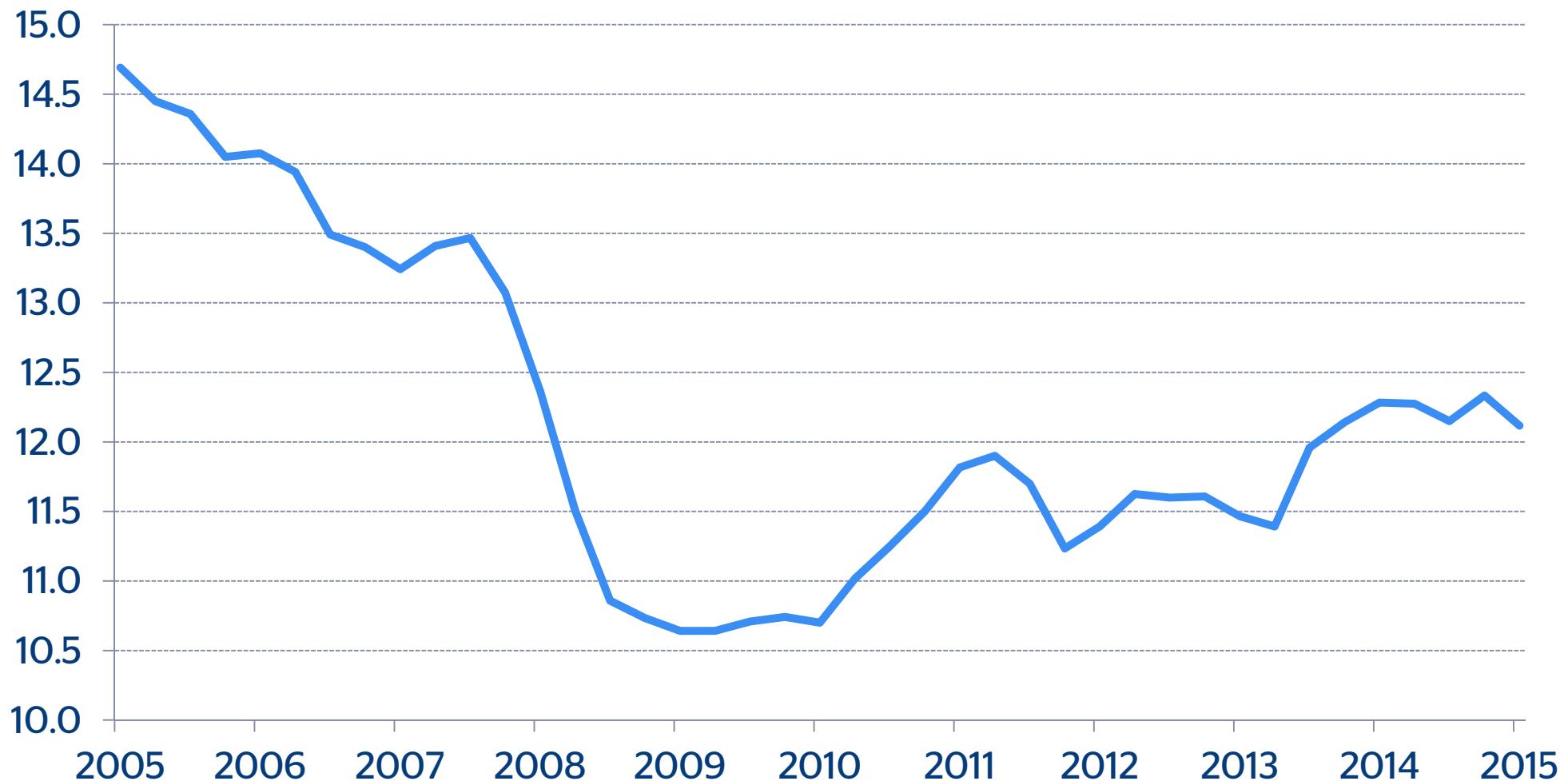
# Consumers

## U.S. Consumer sentiment index



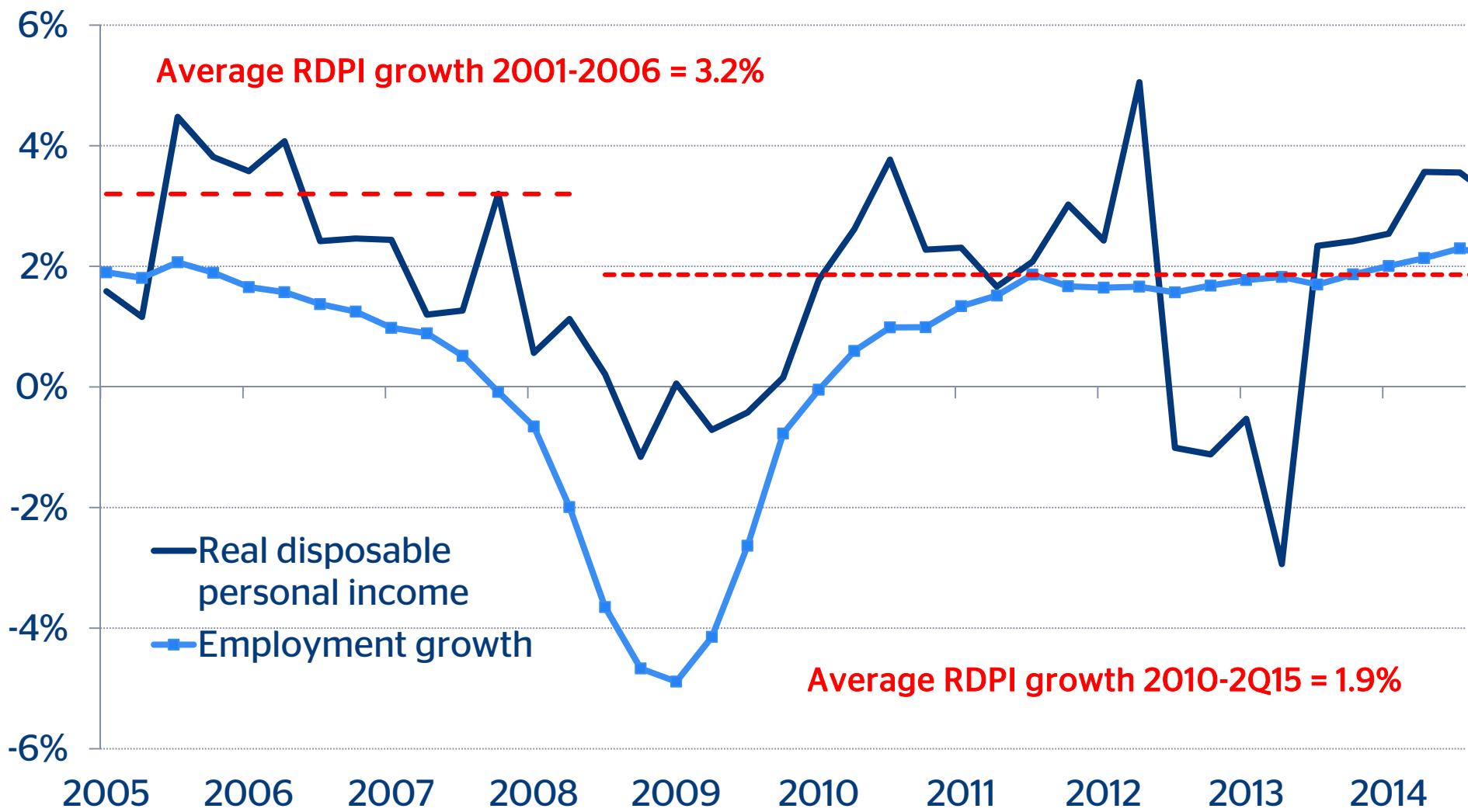
# Consumers

**U.S. Plans to buy a car within 6 months, % of respondents**



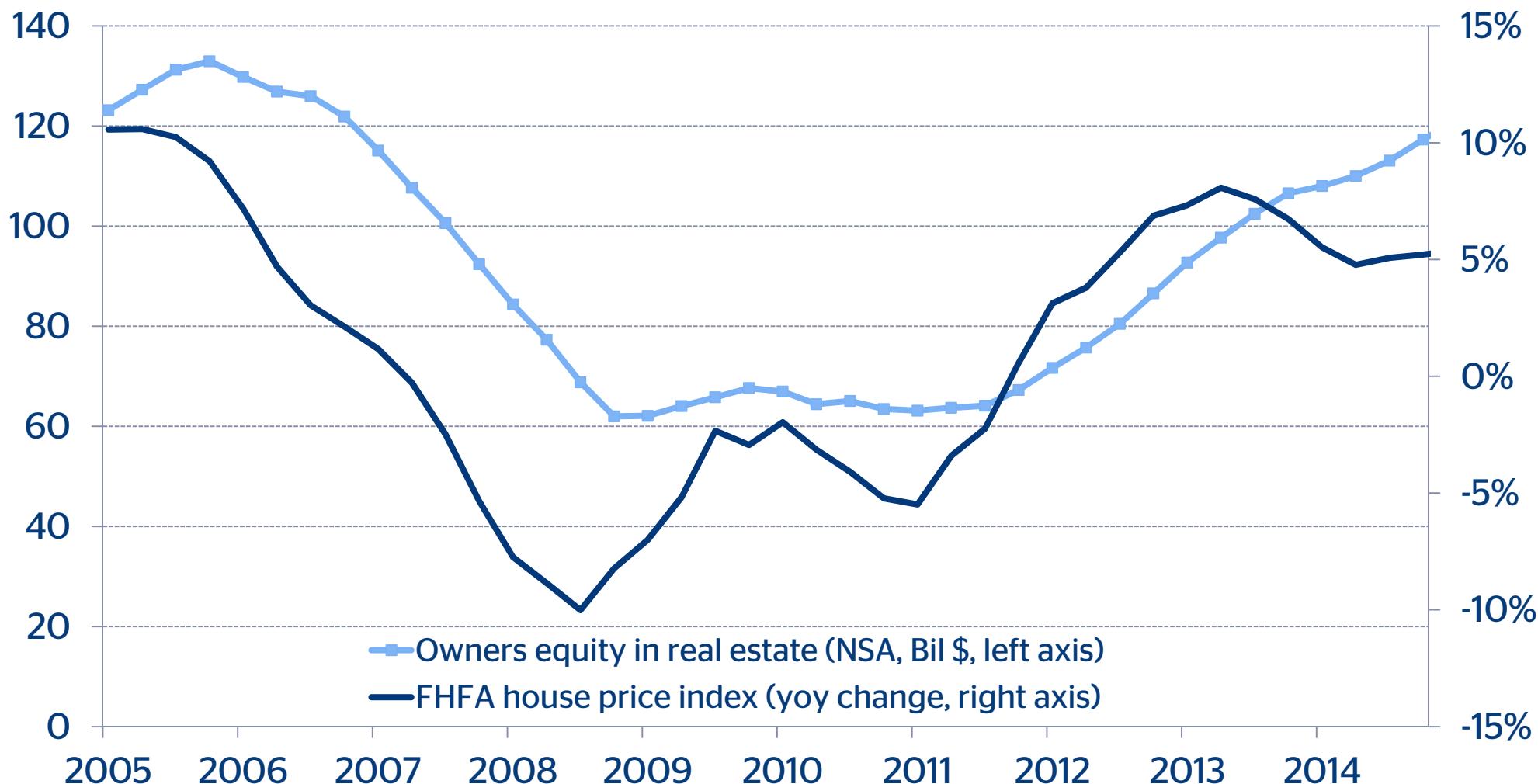
# Consumers

## U.S. Employment and real disposable personal income growth (yoY % change)



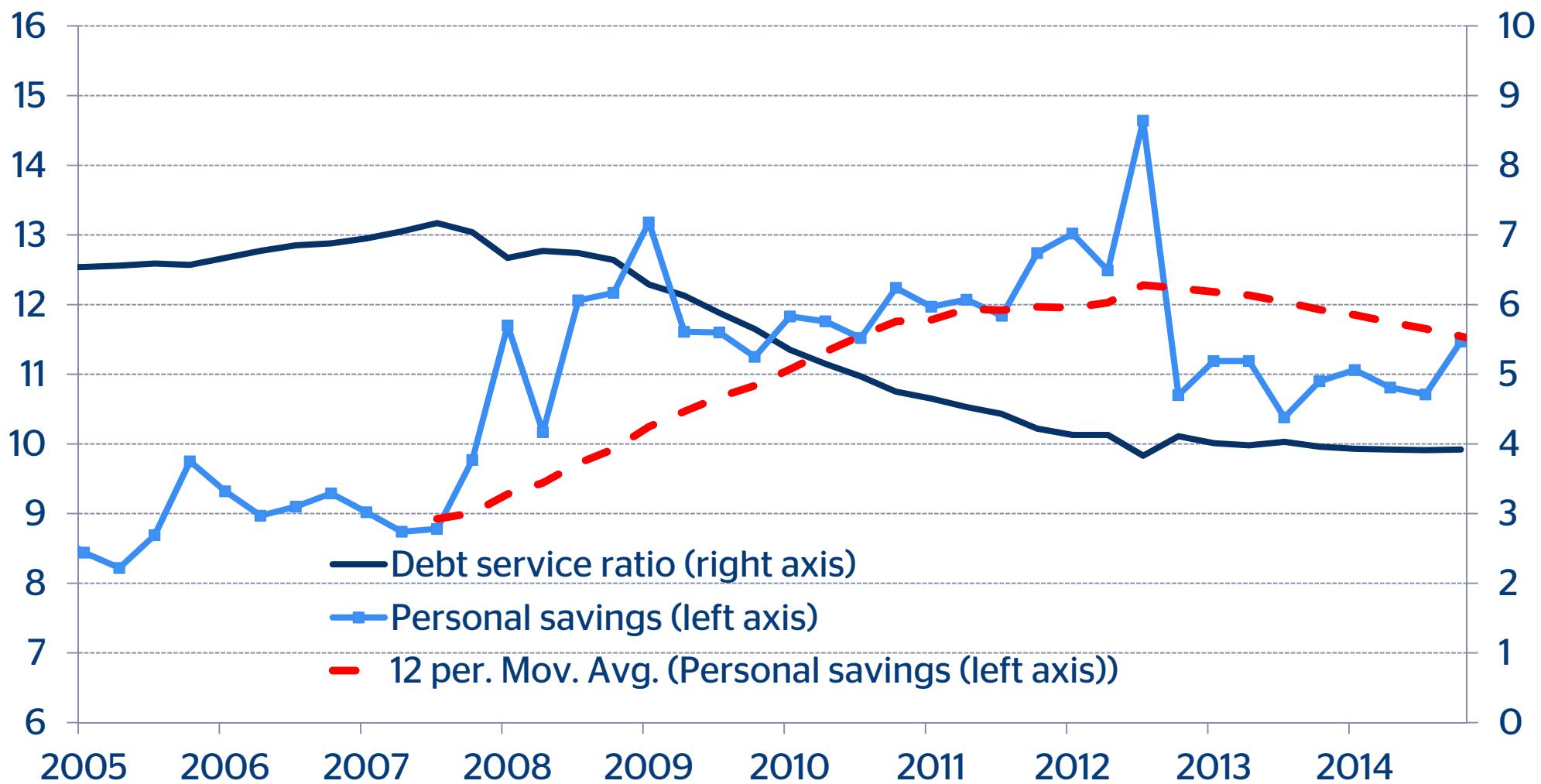
# Household equity

## U.S. Household equity and home prices



# Savings and deleverage

## U.S. Debt-to-income ratio and savings rate

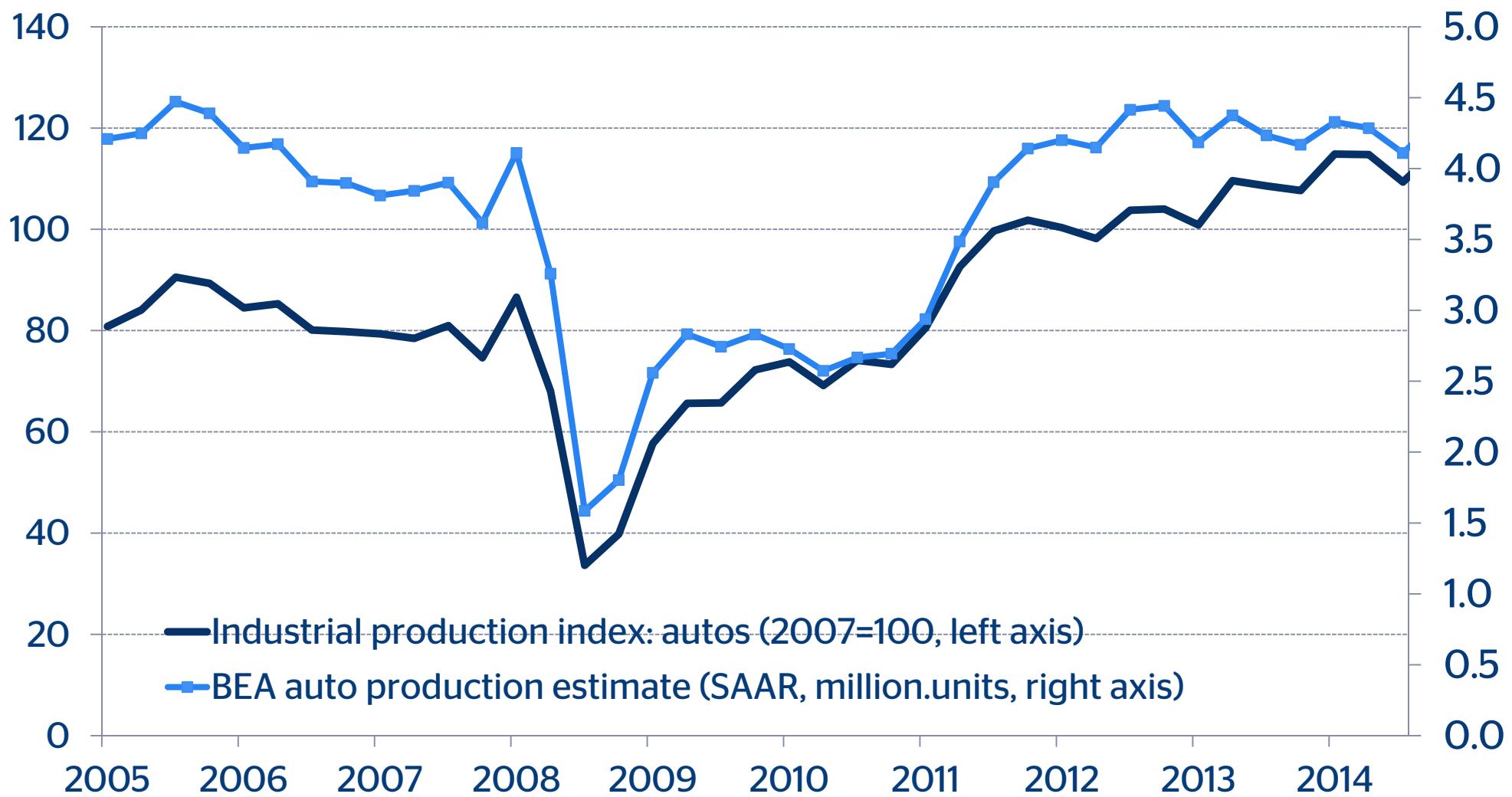


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# Production

# Production

## U.S. Auto production



SAAR = seasonally adjusted annual rate, BEA = U.S. Bureau of Economic Analysis

Source: BBVA Research & Haver Analytics

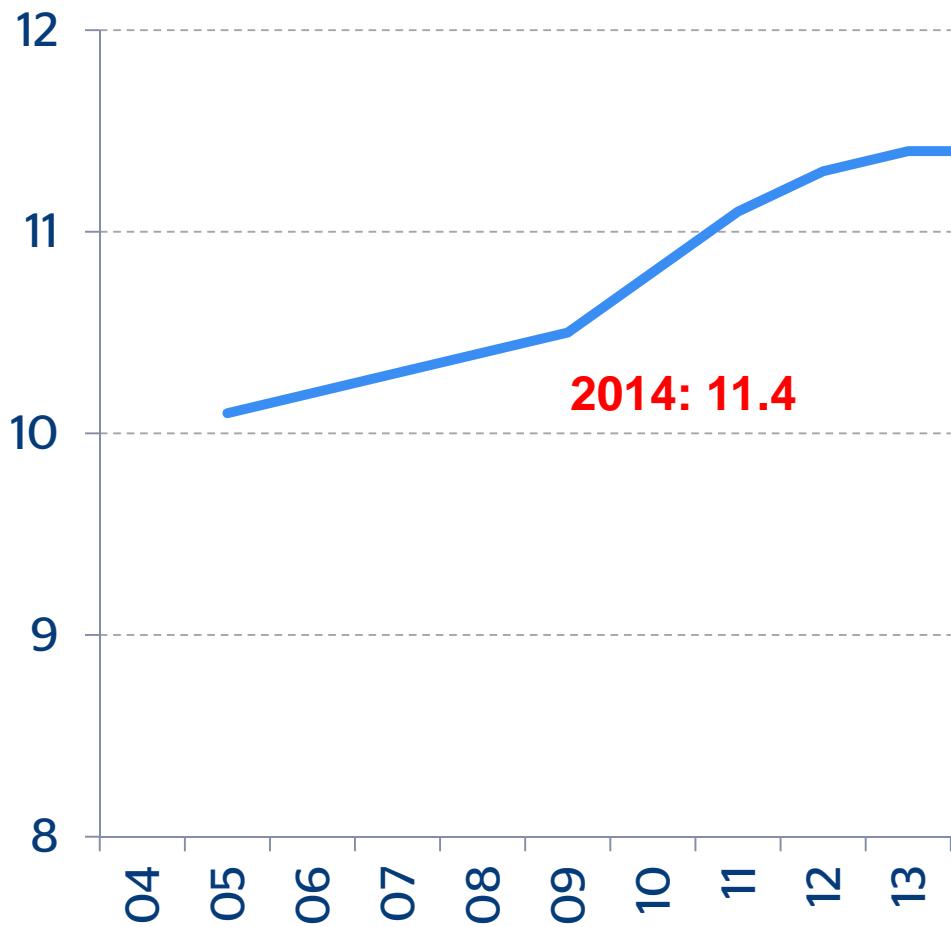
# 4

# Structural

# Fundamentals

U.S. Mean age of passenger cars in operation

Years



Source: Haver Analytics

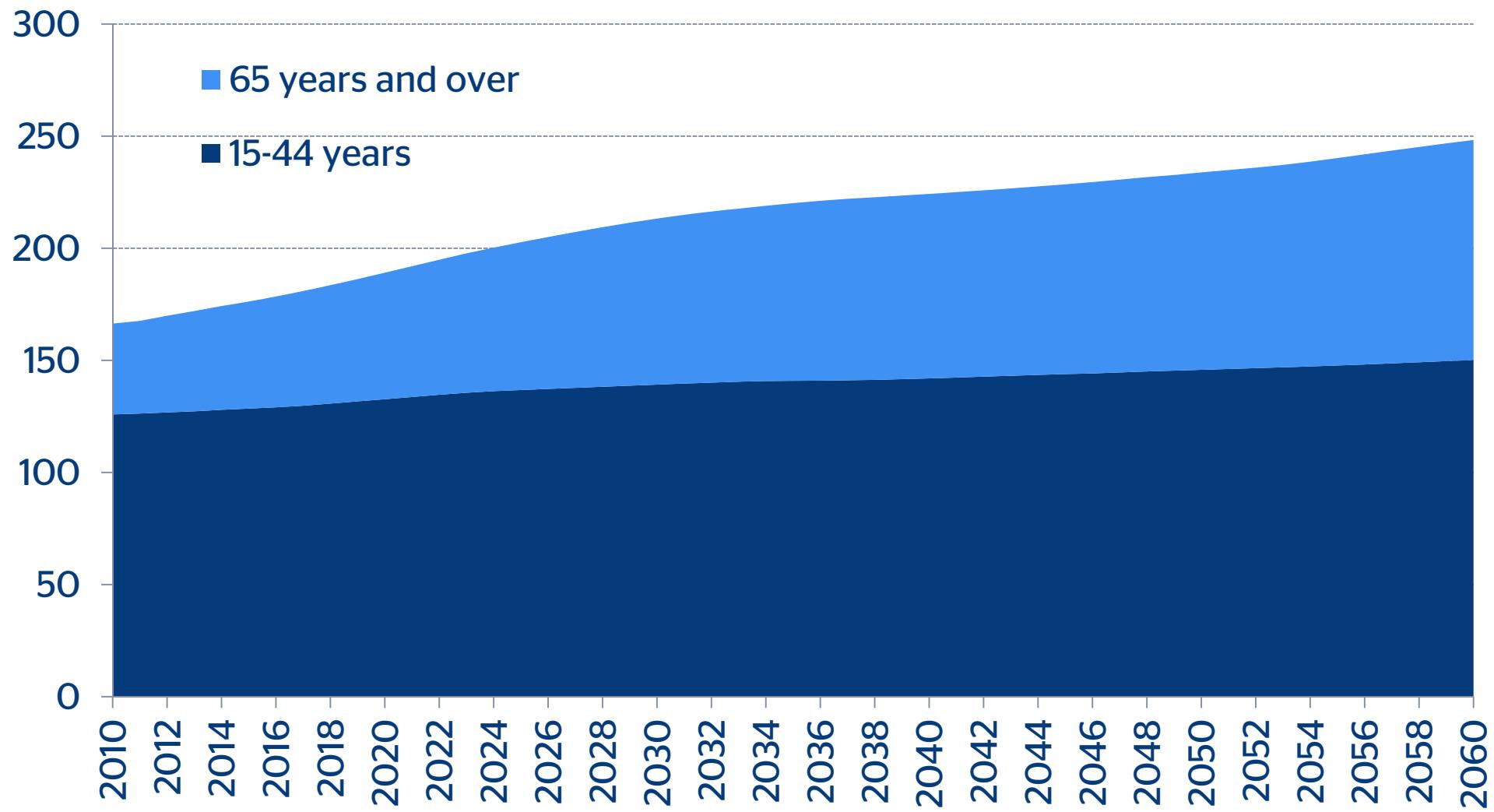
U.S. Vehicle miles of travel

Trillions



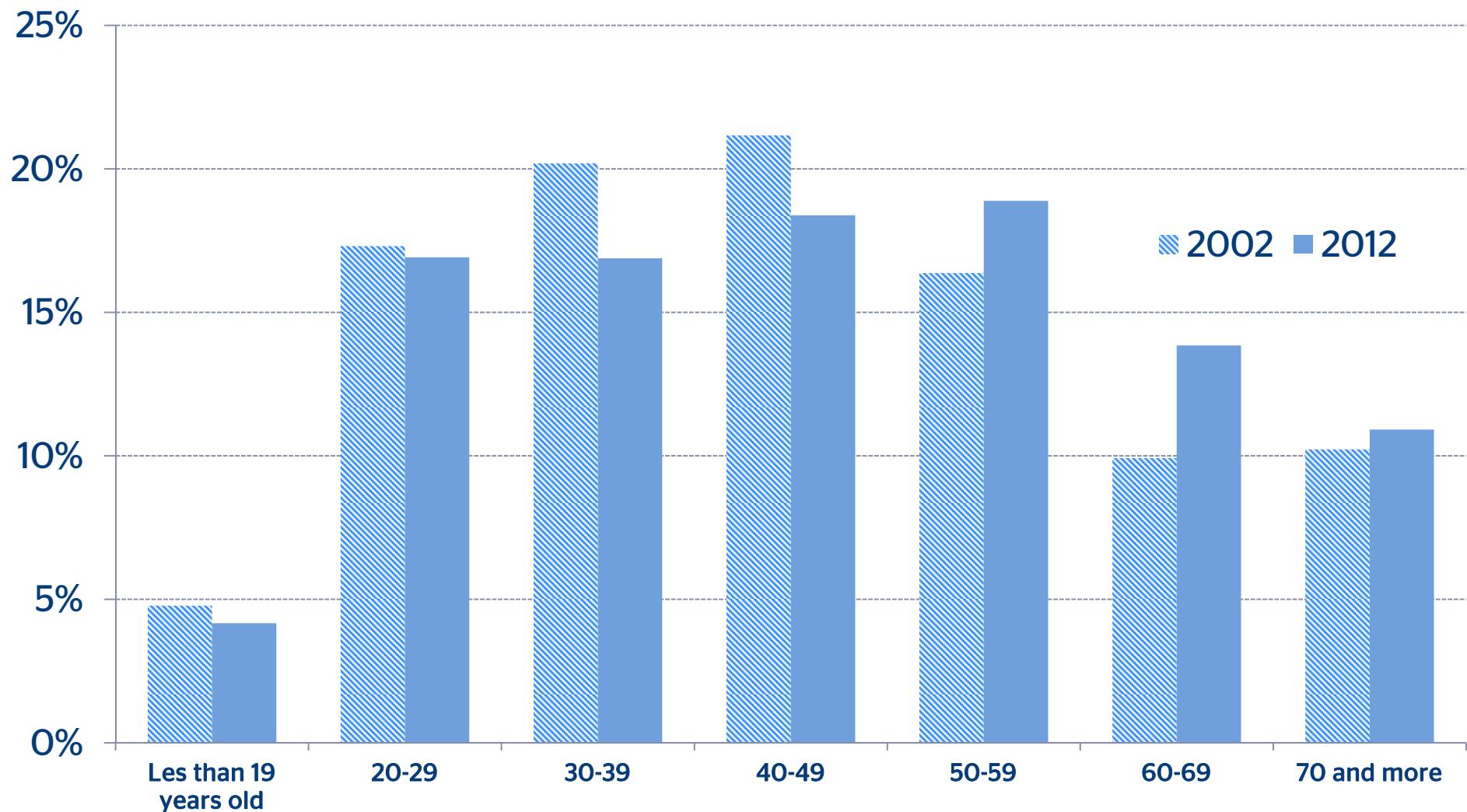
# Demographics

## U.S. Population projections by age (millions)



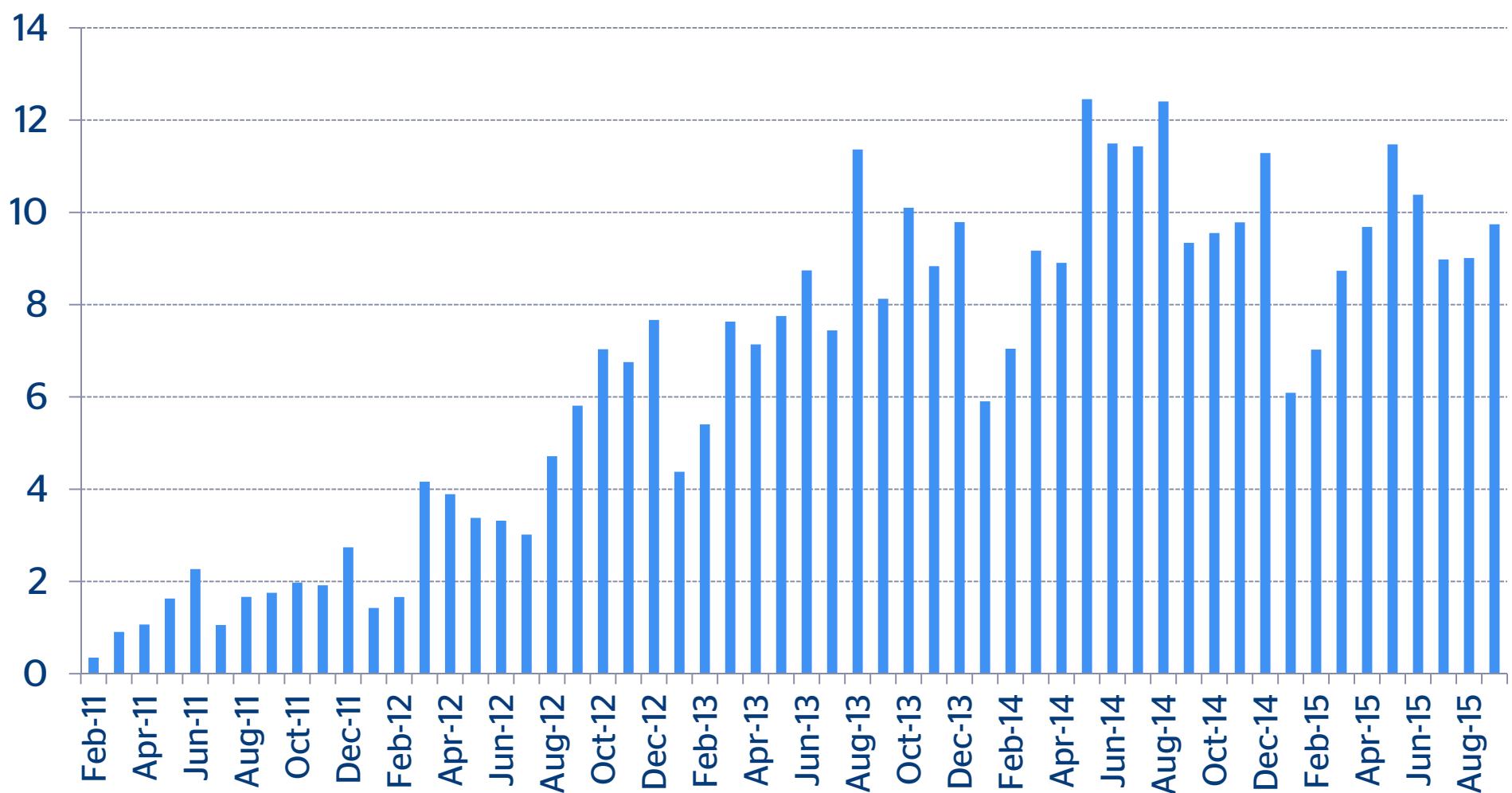
# Demographics

## U.S. Licensed drivers by age



# Alternative vehicles

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





# Forecasts

# Forecasts

Average	2012	2013	2014	2015	2016
<b>Auto sales</b> (millions units)	14.5	15.6	16.5	<b>17.4</b>	<b>17.2</b>
<b>GDP growth</b> (% change)	2.3	2.2	2.4	<b>2.5</b>	<b>2.8*</b>
<b>Unemployment rate</b> (% avg.)	8.1	7.4	6.2	<b>5.3</b>	<b>4.9</b>
<b>Fed funds</b> (%, eop)	0.25	0.25	0.25	<b>0.50</b>	<b>1.00</b>
<b>5-year Treasuries</b> (%, avg)	0.76	1.17	1.64	<b>1.51</b>	<b>1.79</b>

\* Currently under revision

Source: BBVA Research

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Third Quarter 3Q15