

us AUTO INDUSTRY

CHARTBOOK AUGUST 2017



- Despite supportive economic fundamentals and generous incentives, demand for new vehicles continues to slow down
- Increasing off-lease returns exert downward pressures on sales and prices of new cars and trucks
- Consumers continue to show a strong bias towards light-trucks, which reached 63% of total sales in July
- The shift to light-trucks has kept transaction prices high, supporting profitability in spite of lower volumes
- Leasing could wane as the industry struggles with lower terminal values and a glut of pre-owned units, opening opportunities for traditional auto lending
- The alternative fuel segment continues to expand, a substitution effect is taking place between hybrid-gasoline and increasingly reliable PHEV and BEV



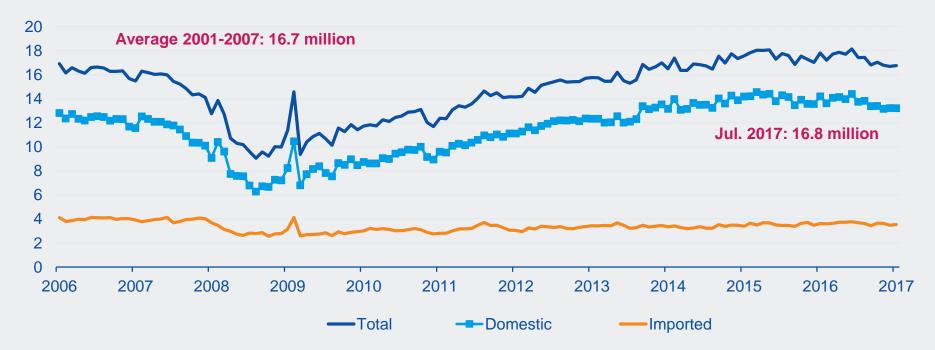
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SALES

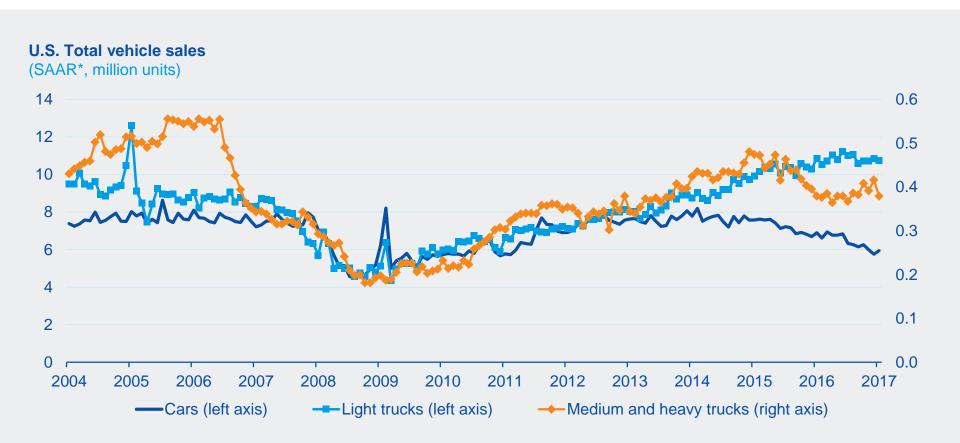


U.S. Total light weight vehicle sales

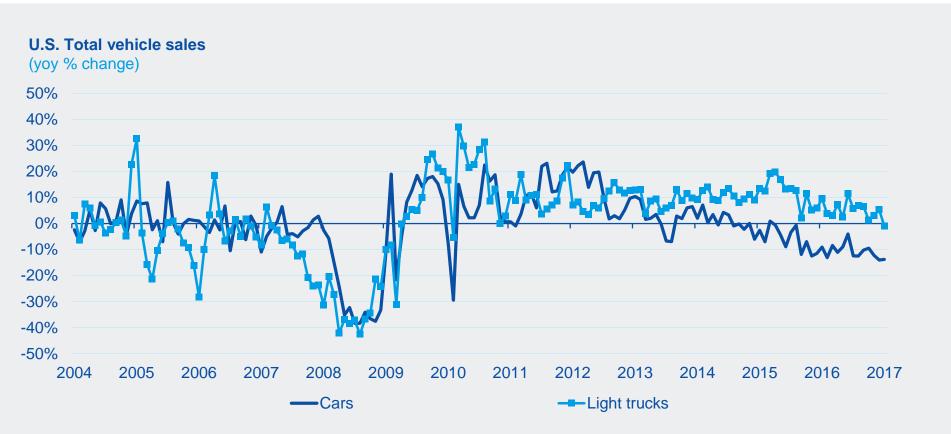
(SAAR*, million units)















U.S. Total light weight vehicle sales (share of total)

*SAAR = seasonally adjusted annual rate Source: Haver Analytics

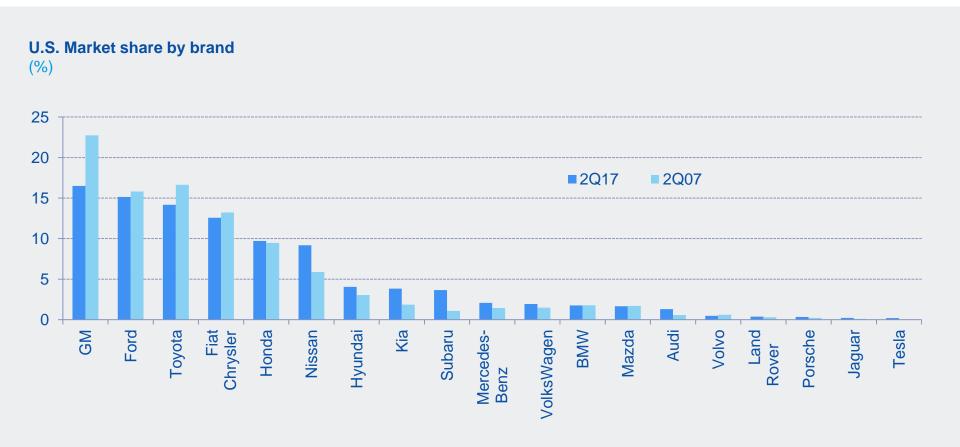


U.S. Domestic auto inventory/sales ratio

Sales



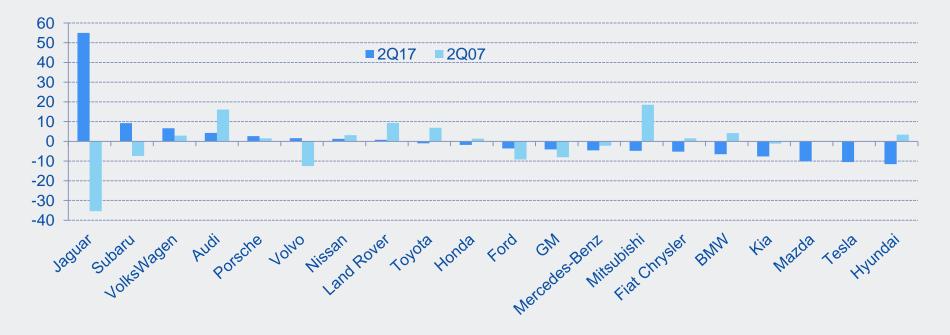






U.S. Quarterly unit sales

(yoy % change)





Prices

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





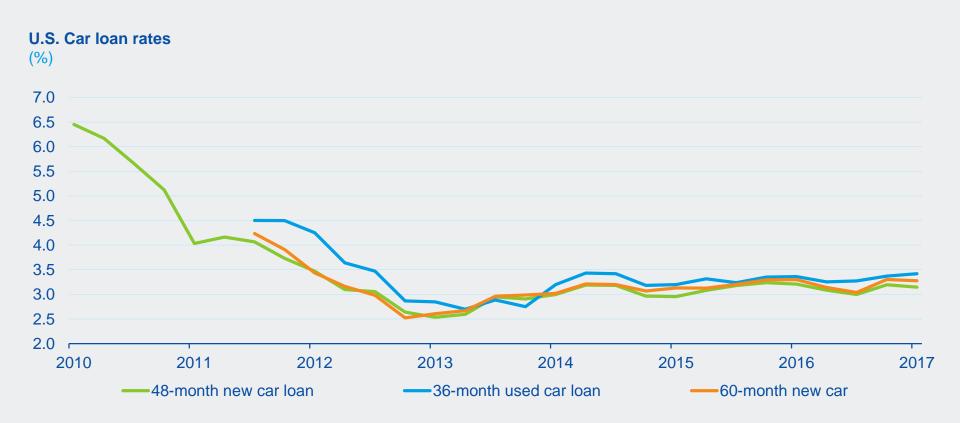
Prices

U.S. Auto prices





Financing Conditions





Financing Conditions

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





Leasing

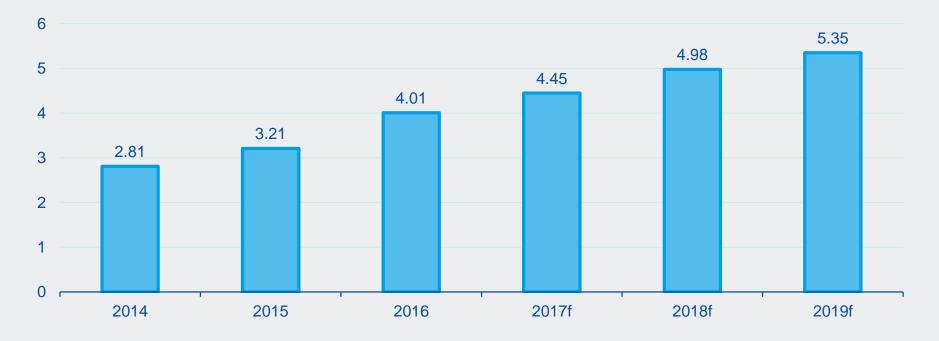




Leasing

Off-Lease returns and supply*

(Fiscal years, millions of units)



*Assumes 36-month lease terms Source: Bloomberg with data from company filings and Edmunds.com



Financing Conditions

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





Gasoline





CONSUMERS



Consumers

U.S. Consumer sentiment index





Consumers



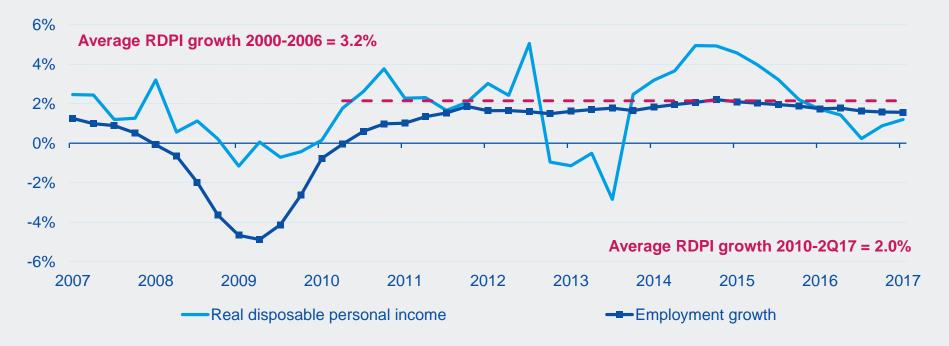






Consumers

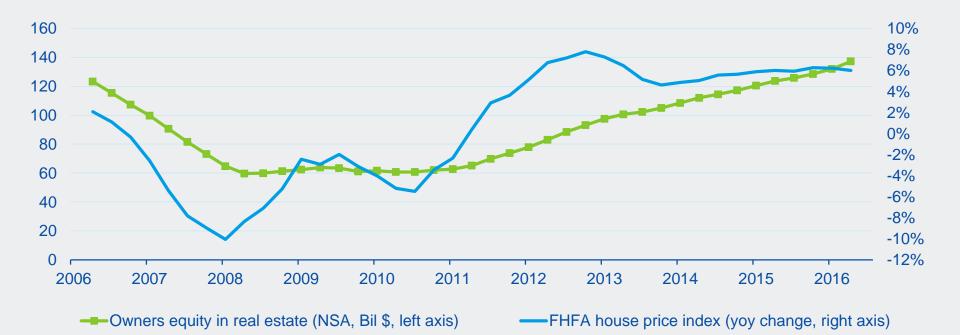
U.S. Employment and real disposable personal income (yoy % change)





Household Equity

U.S. Household equity and home prices





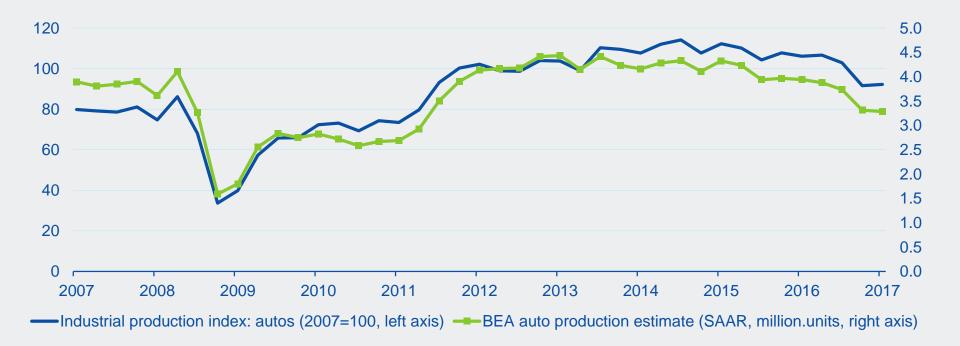
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PRODUCTION



Production

U.S. Auto production





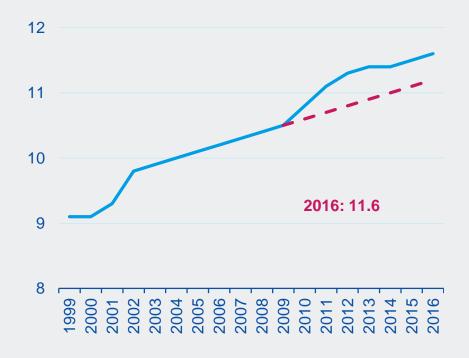
STRUCTURAL



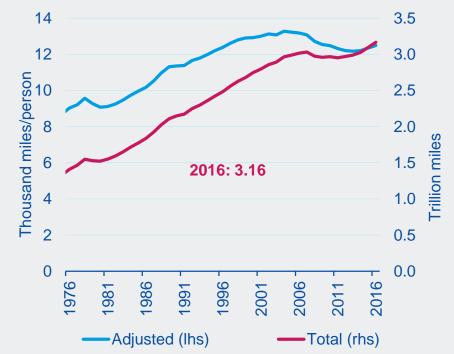


Fundamentals

Mean age of passenger cars in operation (years)



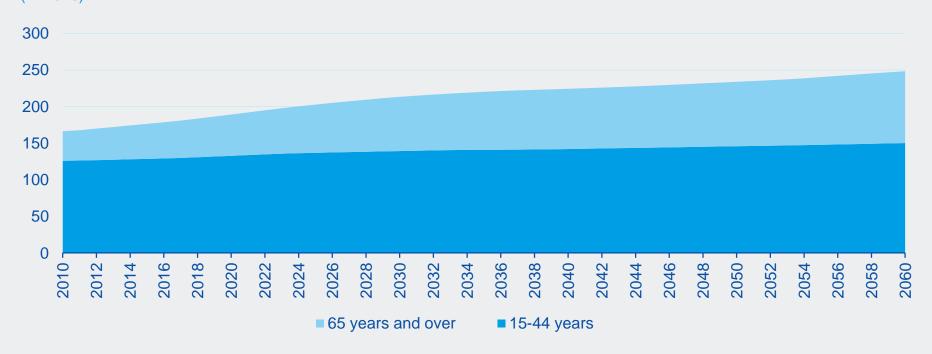
Vehicle miles of travel (total and adjusted by labor force)





Demographics

U.S. Population projections by age (millions)

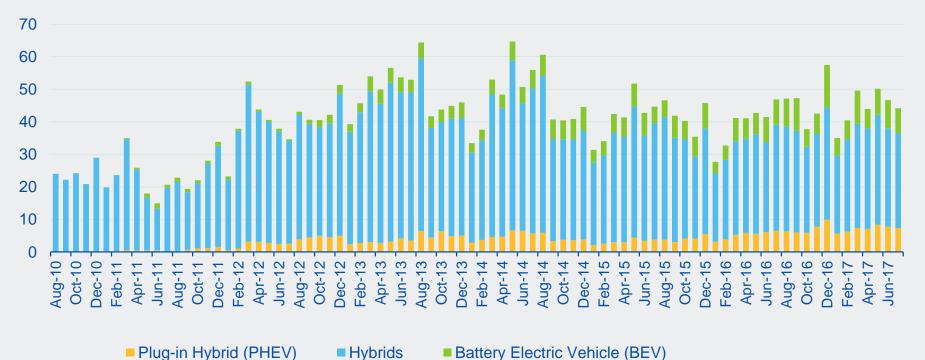




Alternative vehicles

U.S. New plug-in vehicle sales

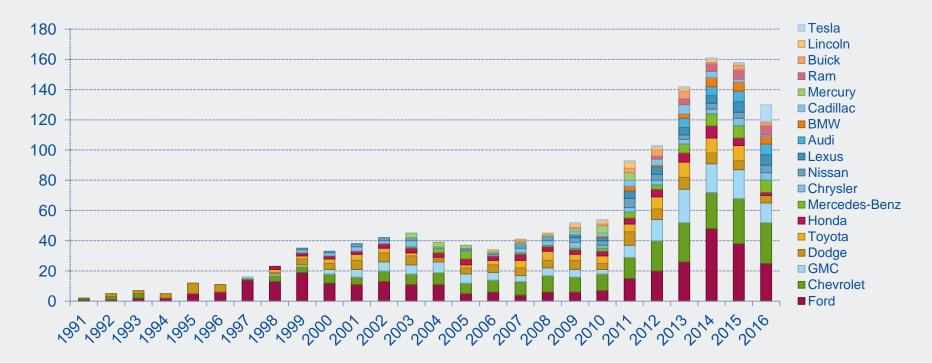
(thousands)





Alternative vehicles

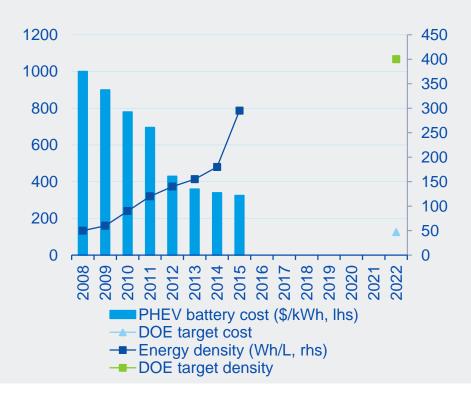
Alternative fueled vehicle/hybrid electric vehicle models by OEMs (units)*



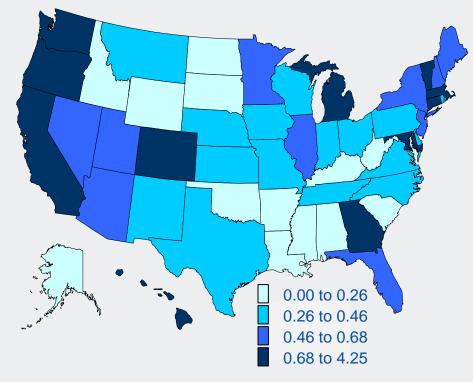


Alternative vehicles

PHEV Battery Cost and Energy Density



PEV registrations per 1,000 people





FORECASTS

BBVA

RESEARCH





Forecasts

	2014	2015	2016	2017	2018	2019
Auto sales (millions units)	16.5	17.4	17.5	16.8	16.3	16.6
Real GDP growth (% change)	2.4	2.6	1.6	2.1	2.2	2.1
Unemployment rate (% avg.)	6.2	5.3	4.8	4.3	3.9	4.0
Fed funds (%, eop)	0.25	0.50	0.75	1.50	2.00	2.50
5-year Treasuries (%, avg)	1.64	1.53	1.34	1.90	2.31	2.71



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