



Economic Trends Affecting Automobile Insurance

**AIPSO 10th Residual Market Planning Conference
Providence, RI
April 10, 2012**

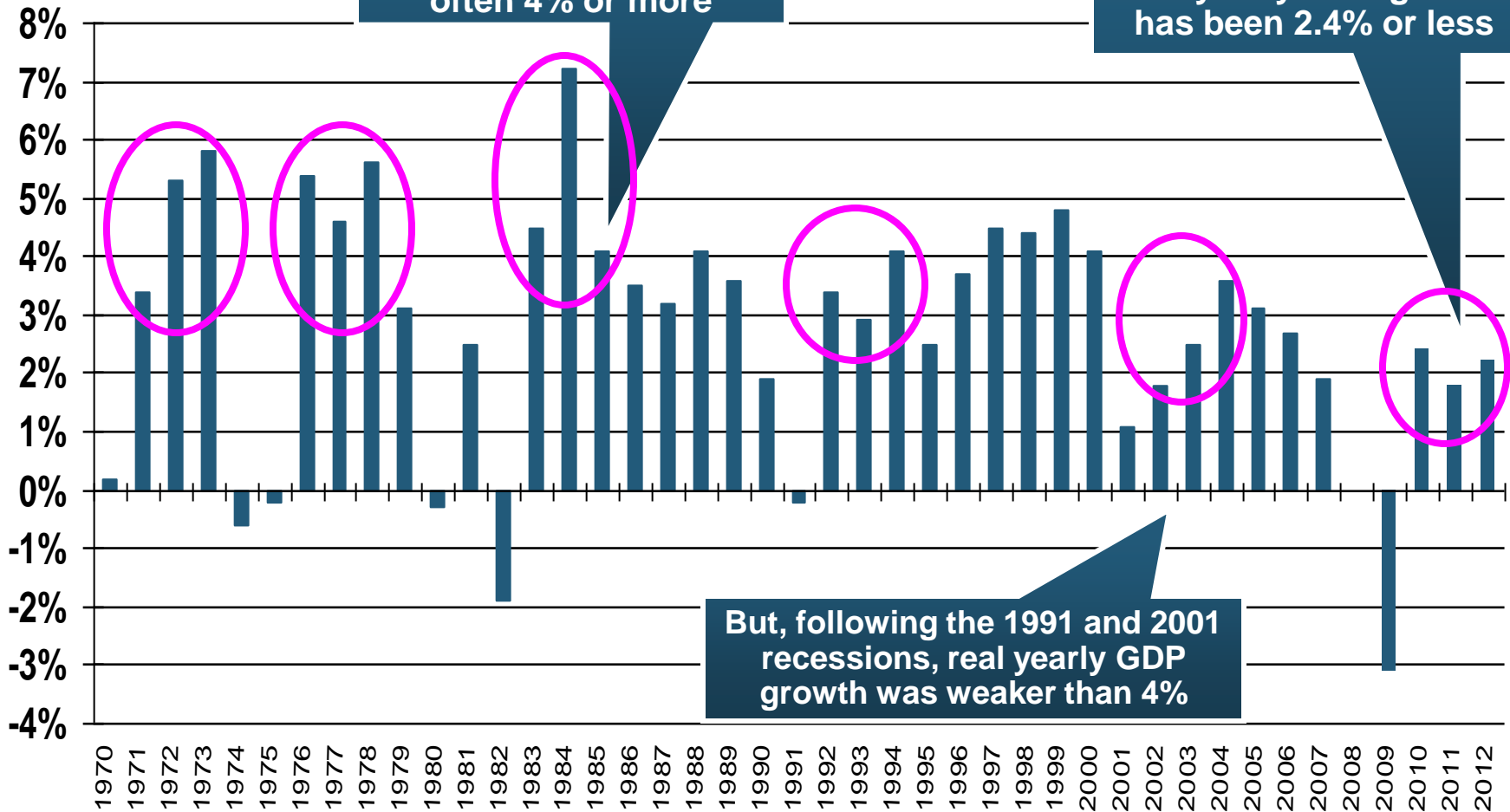
**Steven N. Weisbart, Ph.D., CLU, Senior Vice President & Chief Economist
Insurance Information Institute ♦ 110 William Street ♦ New York, NY 10038
Office: 212.346.5540 ♦ Cell: (917) 494-5945 ♦ stevenw@iii.org ♦ www.iii.org**

The Strength of the Economy Will Affect P/C Insurer Growth Opportunities

**Growth Will Expand Insurable Exposures
and Help Absorb Excess Capital**

Real GDP Growth: Past Recessions and Recoveries, Yearly, 1970-2012

Real GDP Growth (%)

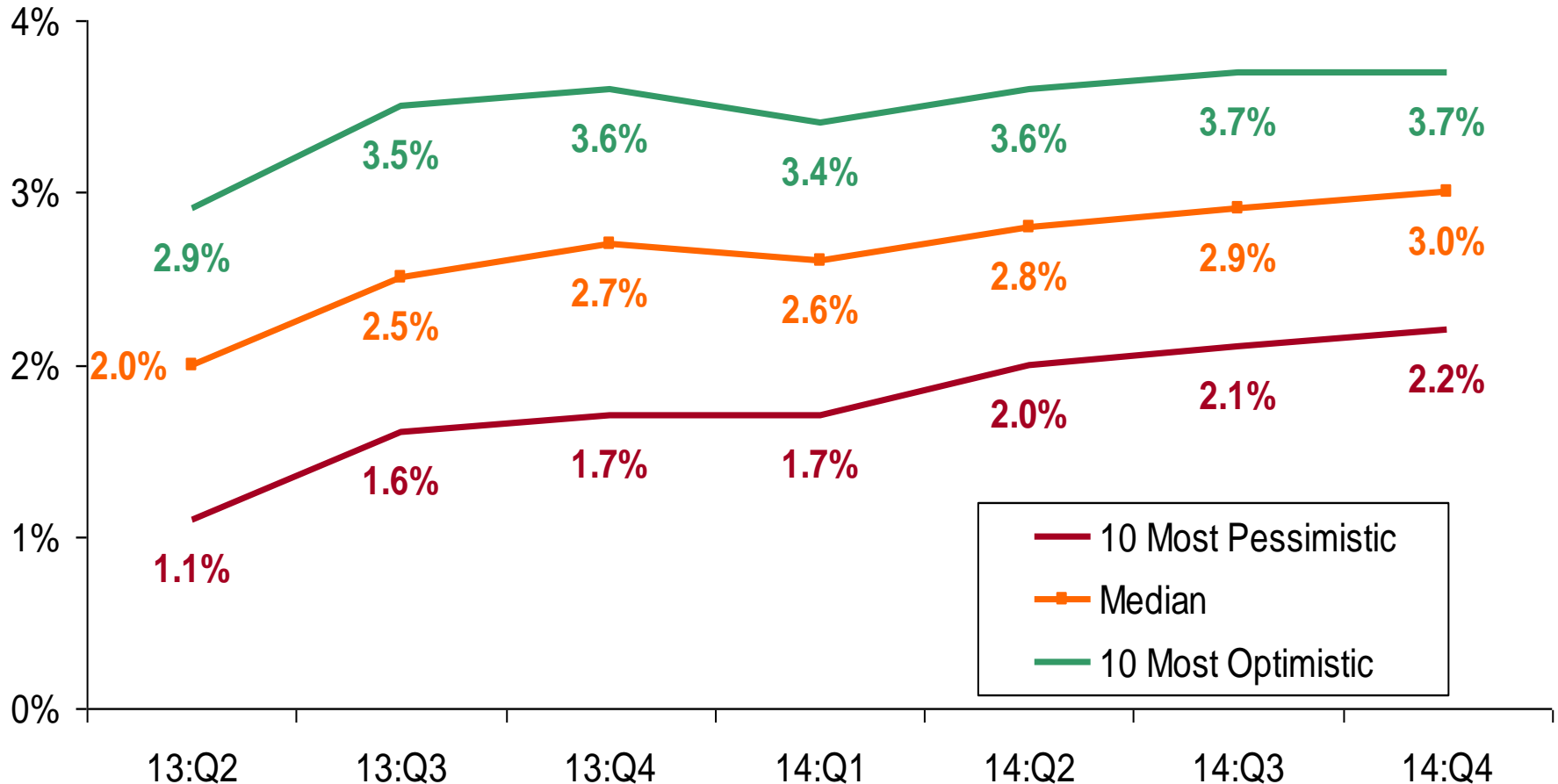


But, following the 1991 and 2001 recessions, real yearly GDP growth was weaker than 4%

Source: (GDP) U.S. Department of Commerce at <http://www.bea.gov/national/xls/gdpchg.xls>.

March 2013 Forecasts of Quarterly US Real GDP for 2013-14

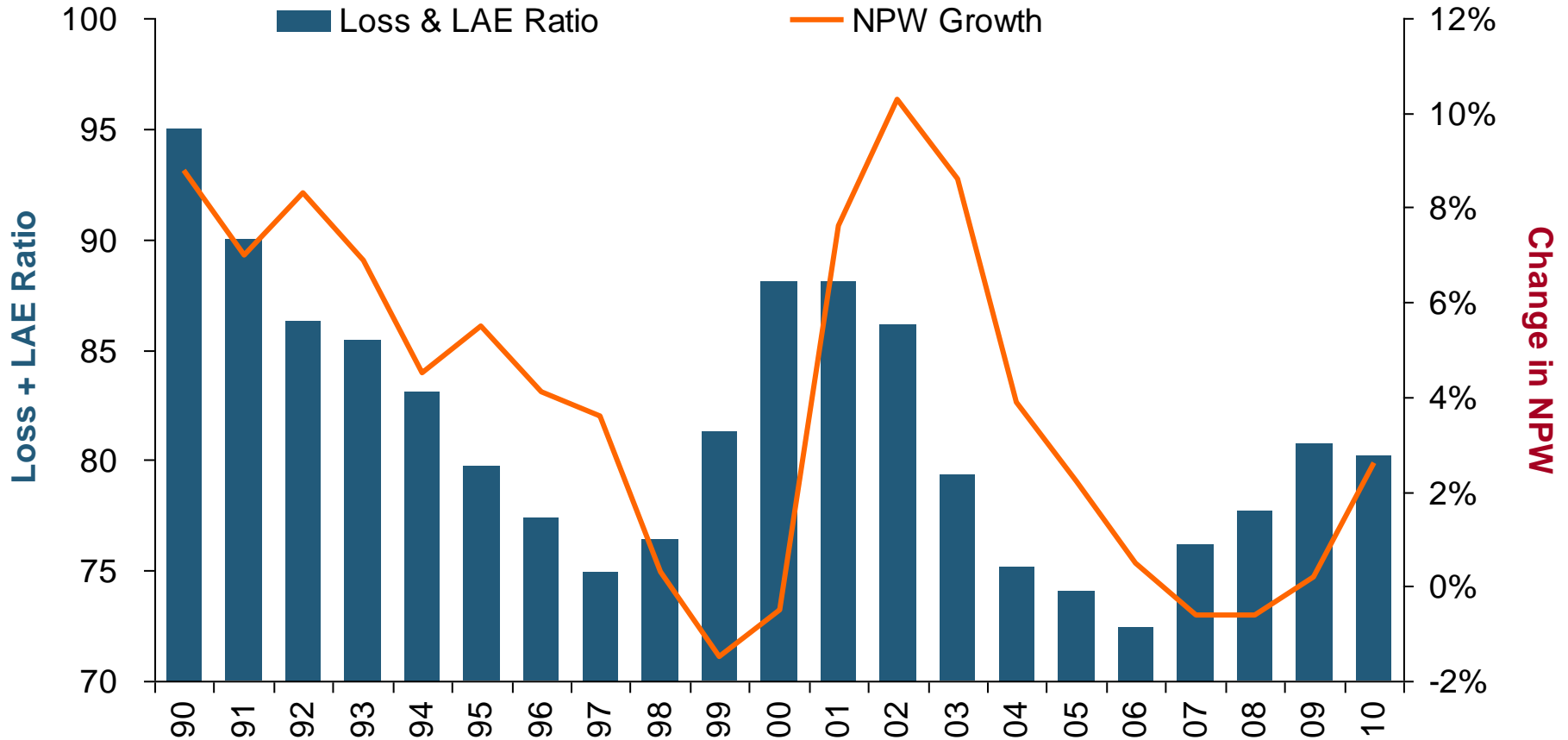
Real GDP Growth Rate



Personal Auto Insurance Premium Growth

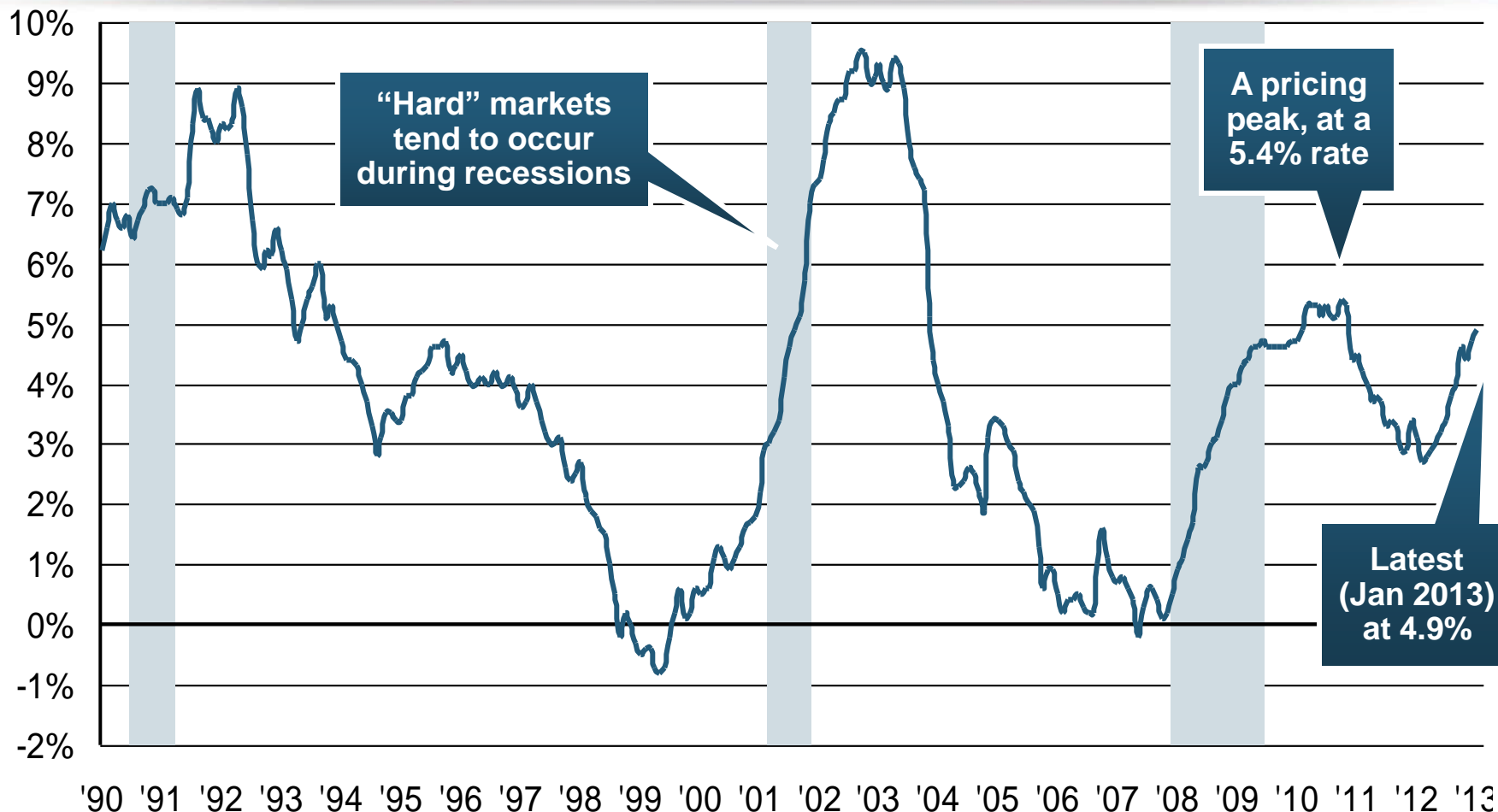
**Depends on Exposure Growth,
Price Level Changes, and Other Factors**

PP Auto Liability: Loss + LAE Ratio vs. Change in Net Premiums Written, 1990-2010



Historically, loss trends are a main driver of premium volume changes.

Monthly Change* in Auto Insurance Prices, 1991–2013



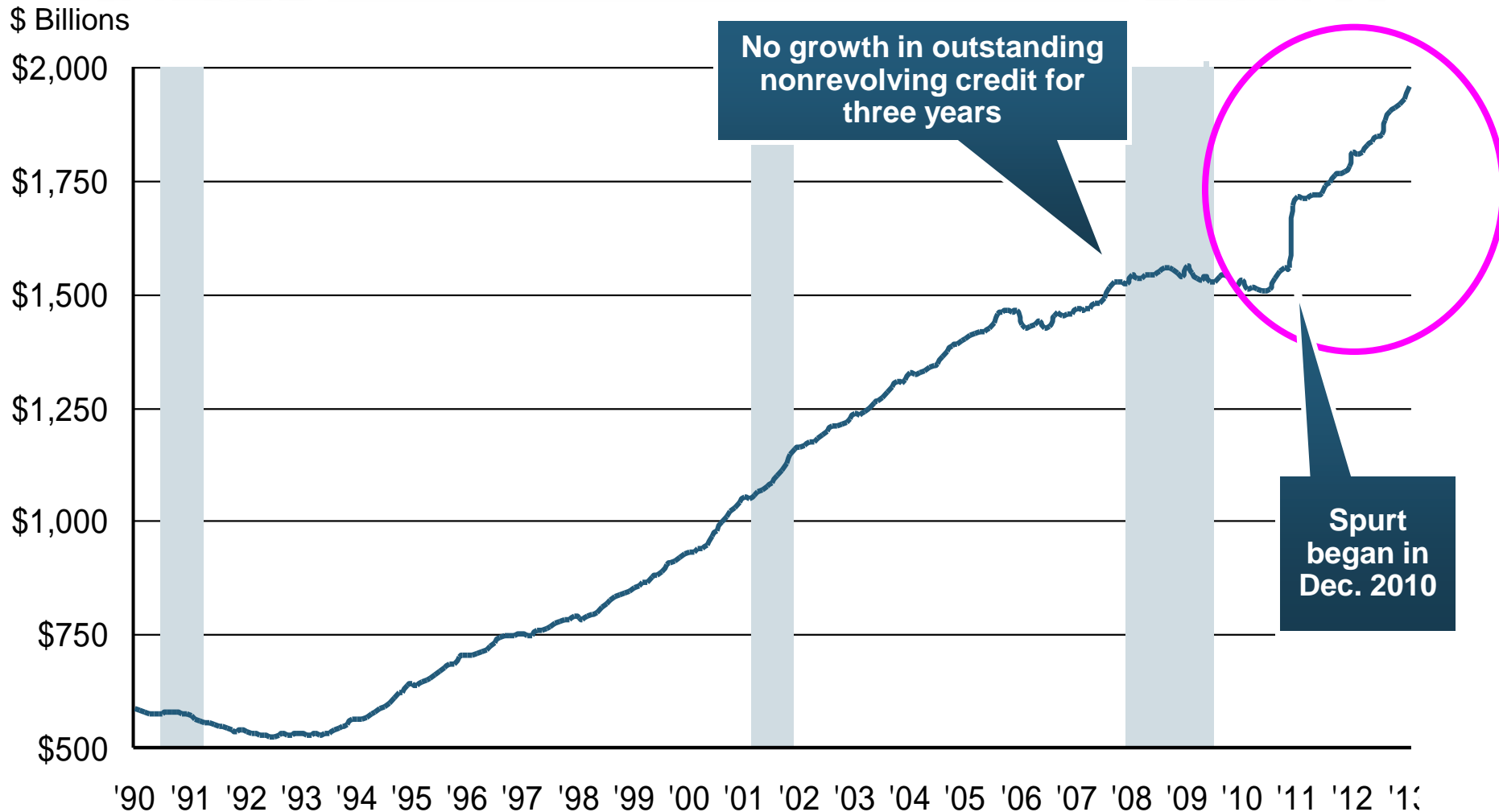
Cyclical peaks in PP Auto tend to occur approximately every 10 years (early 1990s, early 2000s, and possibly the early 2010s)

*Percentage change from same month in prior year; through January 2013; seasonally adjusted

Note: Recessions indicated by gray shaded columns.

Sources: US Bureau of Labor Statistics; National Bureau of Economic Research (recession dates); Insurance Information Institute.

Auto Loans and other Nonrevolving Credit Outstanding, 1990–2013*



Note: Recessions indicated by gray shaded columns. *Latest data is for January 2013, preliminary

Sources: Federal Reserve at

<http://www.federalreserve.gov/datadownload/Download.aspx?rel=G19&series=8ee7aa36107a130bcc862d44824a3b86&lastObs=&from=&to=&filetype=csv&label=include&layout=seriescolumn&type=package>

National Bureau of Economic Research (recession dates); Insurance Information Institutes.

Auto/Light Truck Exposure Changes, 2000-2014F

Millions of Units

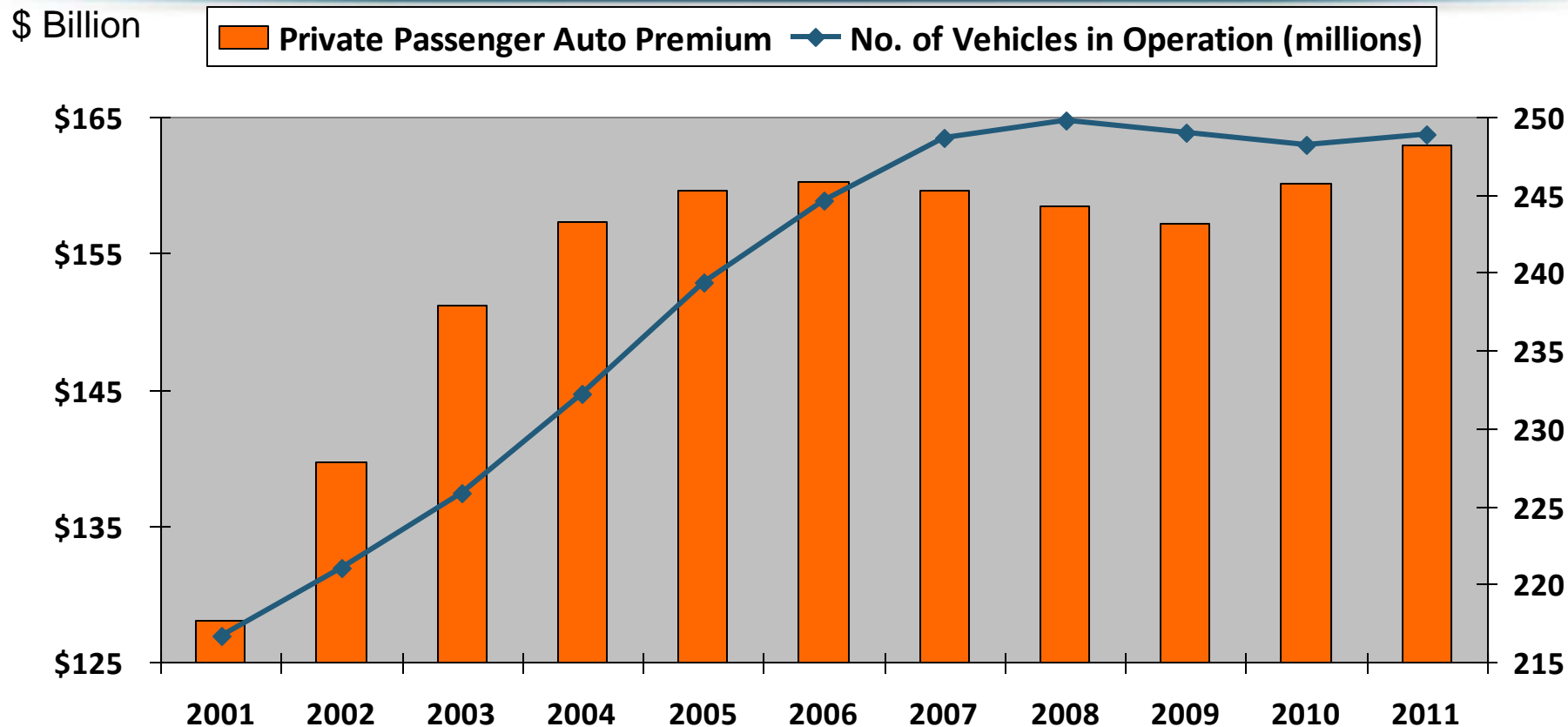
■ new vehicle registrations ■ scrappage



In a “normal” 2-year span, new cars would replace about 25 million old cars, but in 2009-10 only about 17 million old cars were replaced

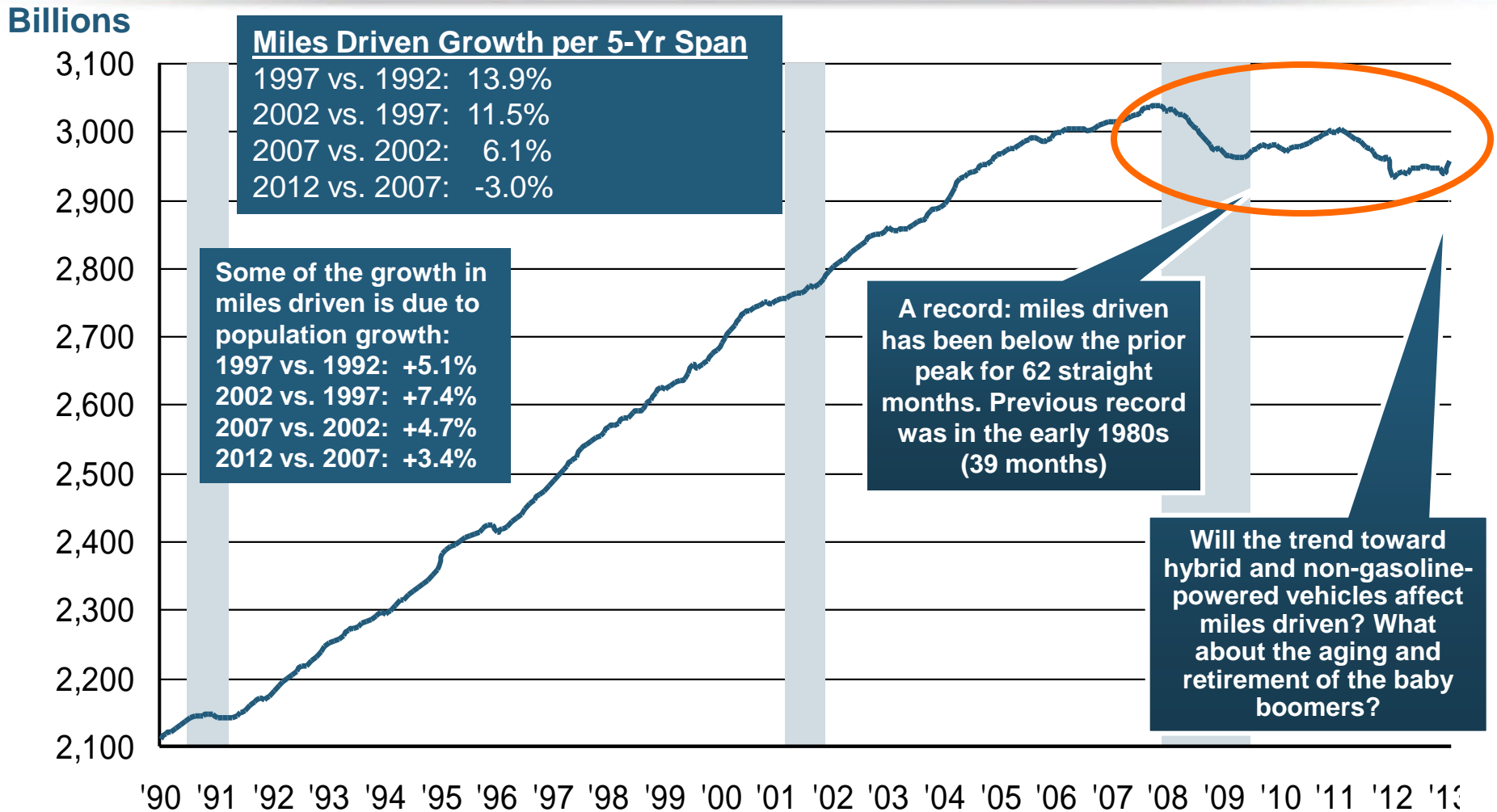
Sources: NADA, *State of the Industry Report 2012*, p. 16, at www.nada.org/nadadata citing R. L. Polk; new vehicle estimate/forecasts from Blue Chip Economic Indicators, 3/2013 issue; scrappage estimates/forecasts from Insurance Information Institute.

PP Auto NWP vs. # of Vehicles in Operation, 2001–2011



PP Auto premiums written are recovering from a period of no growth attributable to the weak economy affecting new vehicle sales, car choice, and increased price sensitivity among consumers

Something Unusual is Happening: Miles Driven*, 1990–2013



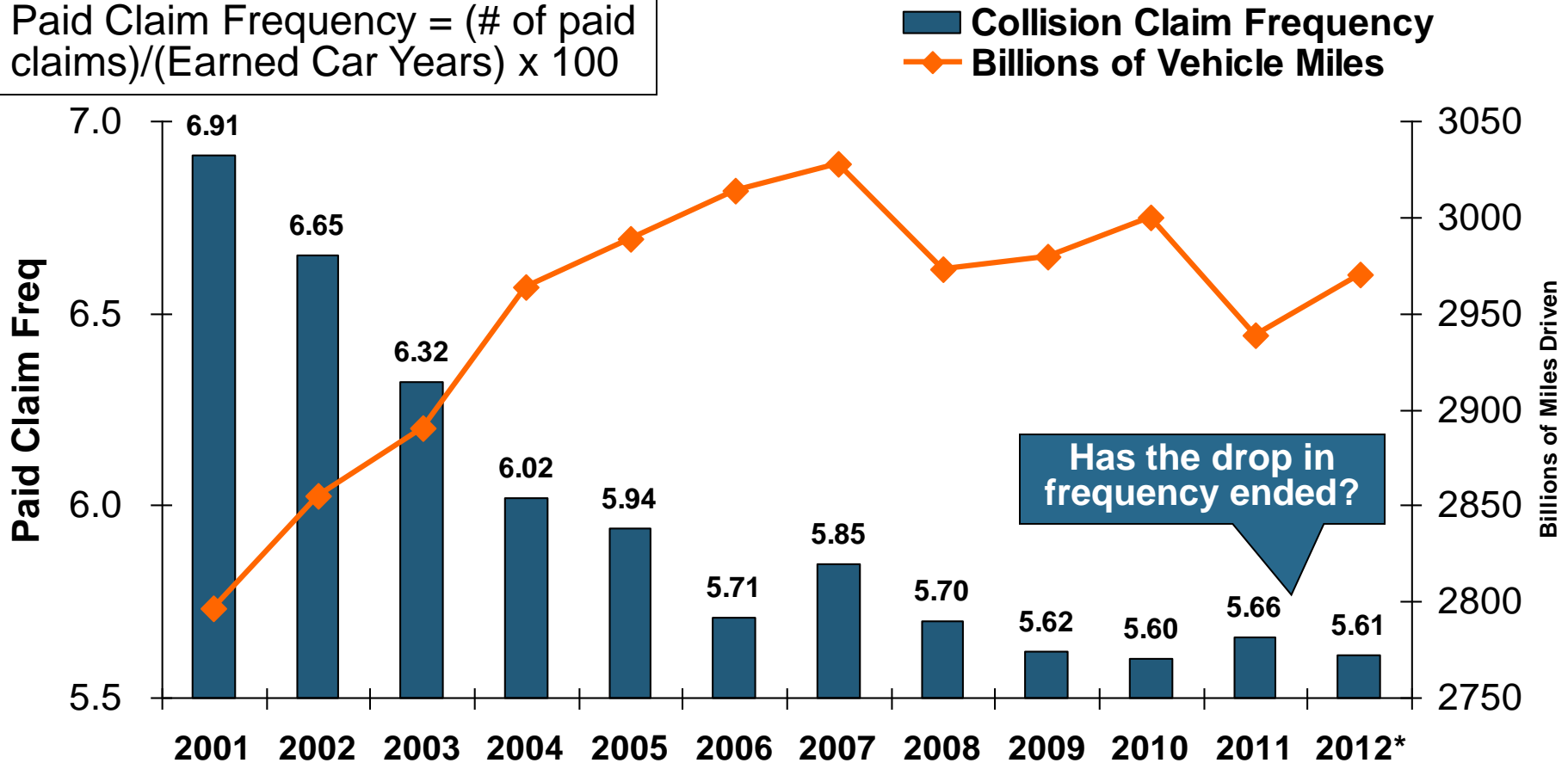
*Moving 12-month total. The latest data is for January 2013.

Note: Recessions indicated by gray shaded columns..

Sources: Federal Highway Administration (<http://www.fhwa.dot.gov/ohim/tvtw/tvtpage.cfm>); National Bureau of Economic Research (recession dates); Insurance Information Institute.

Do Changes in Miles Driven Affect Auto Collision Claim Frequency?

Paid Claim Frequency = (# of paid claims)/(Earned Car Years) x 100



“Pay-As-You-Go” Auto Insurance: Fluctuations in miles driven will affect exposure

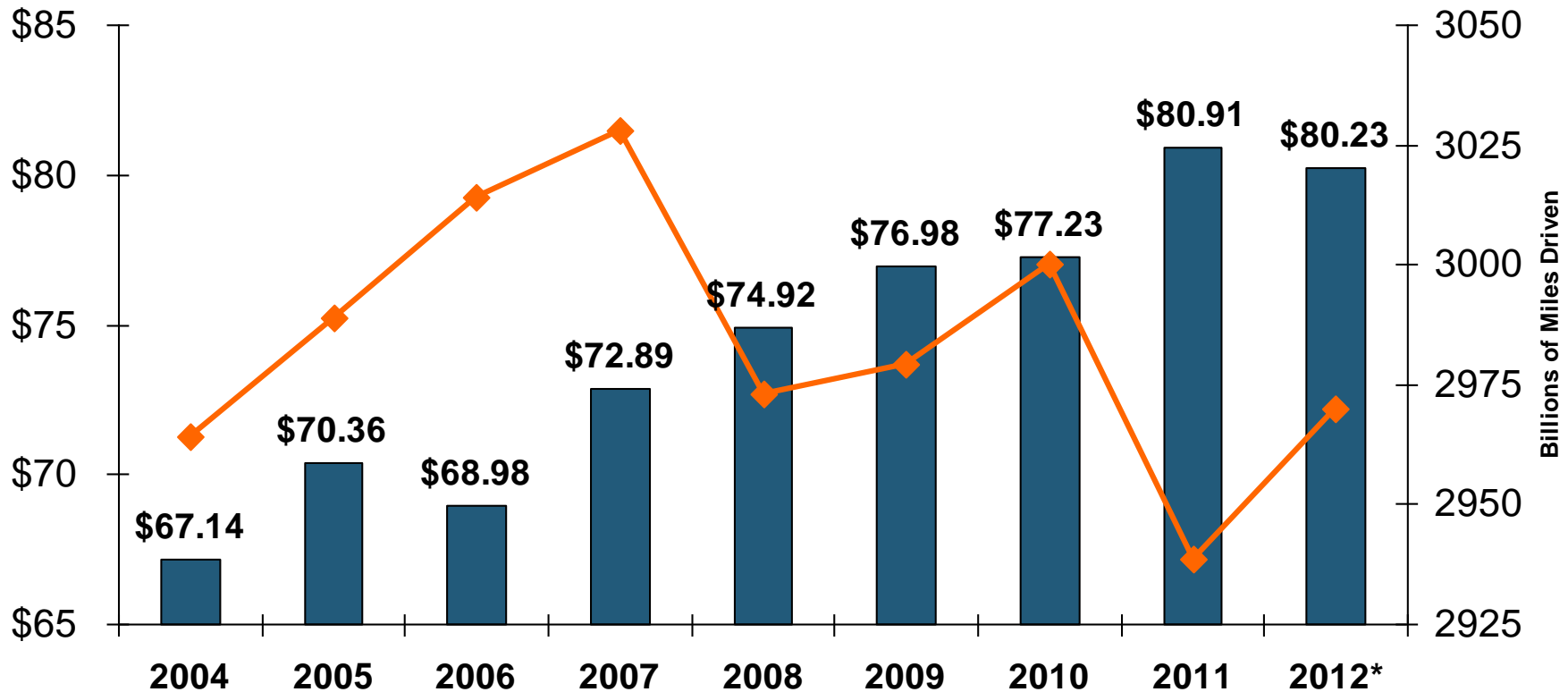
*2012 collision claim frequency data is for twelve months ending September 2012.

Sources: Federal Highway Administration (<http://www.fhwa.dot.gov/ohim/tvtw/tvtpage.cfm>); ISO Fast Track Monitoring System, *Private Passenger Automobile Fast Track Data: 3rd Qtr. 2012*, published January 8, 2013, and earlier reports.

Do Changes in Miles Driven Affect Auto Claims Payments (BI+PhysDam)?

Incurring Losses
(\$ Billions)

■ Incurring Losses
◆ Billions of Vehicle Miles



The sharp drop in miles driven in 2008 and the smaller drop in 2011 didn't slow the growth of auto insurance incurred losses

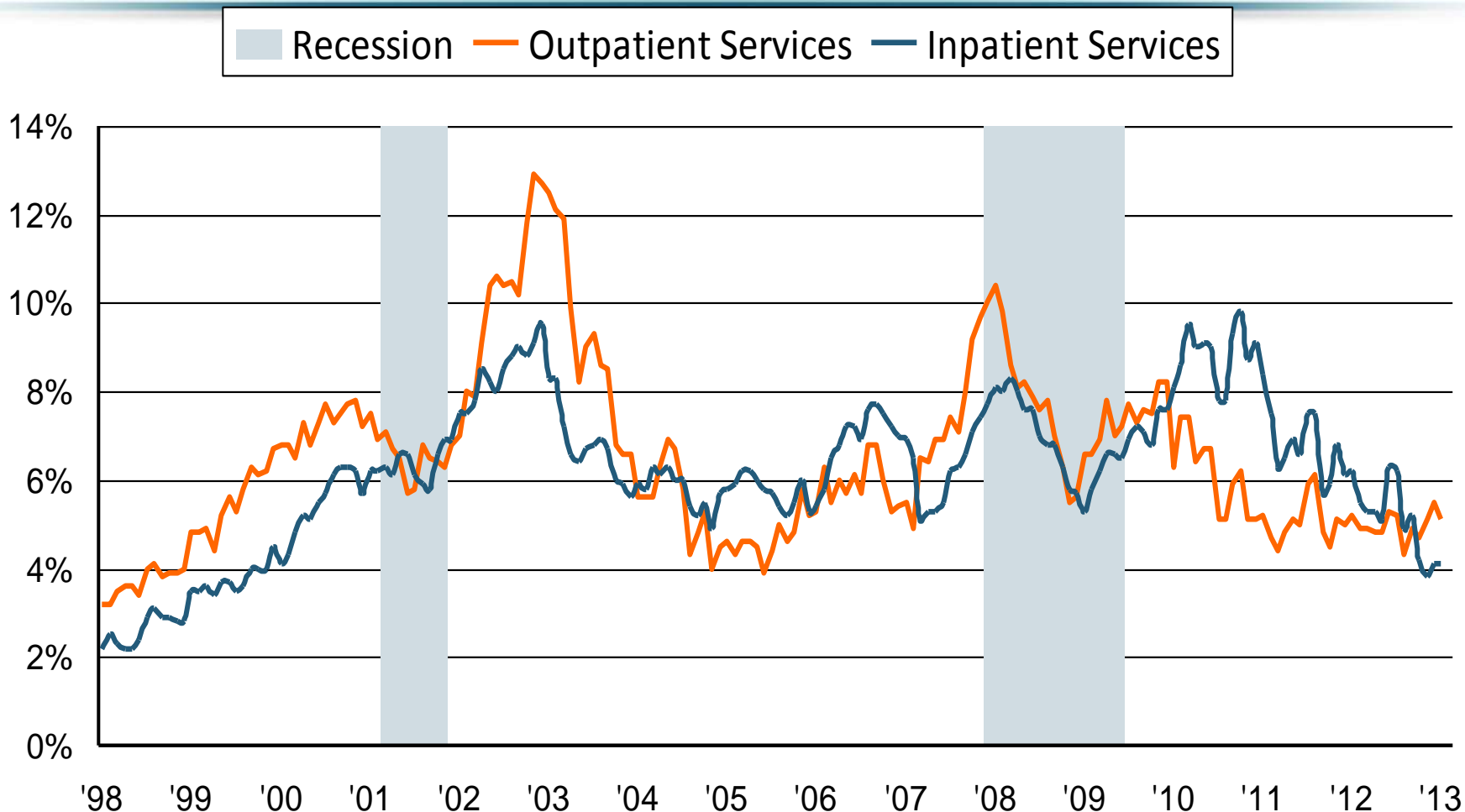
*2012 claims data is for twelve months ending September 2012.

Sources: Federal Highway Administration (<http://www.fhwa.dot.gov/ohim/tvtw/tvtpage.cfm>); ISO Fast Track Monitoring System, *Private Passenger Automobile Fast Track Data: 3rd Qtr. 2011*, published January 8, 2013, and earlier reports.



Inflation and Claims Trends

Prices for Hospital Services: 12-Month Change,* 1998–2013

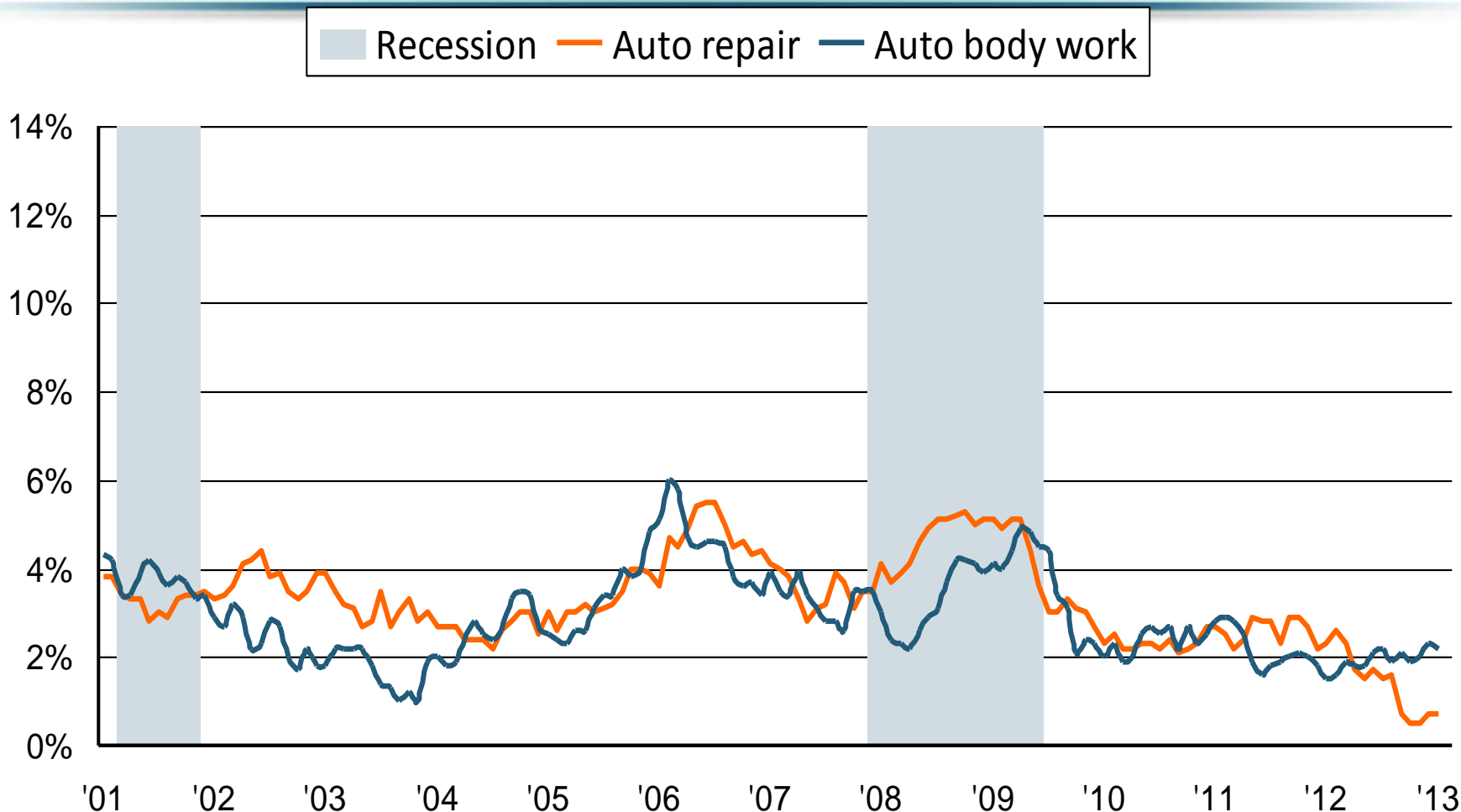


Cyclical peaks in PP Auto tend to occur approximately every 10 years (early 1990s, early 2000s, and possibly the early 2010s)

*Percentage change from same month in prior year; through January 2013; seasonally adjusted

Sources: US Bureau of Labor Statistics; National Bureau of Economic Research (recession dates); Insurance Information Institute.

Forces that Drive Car Repair Costs: 12-Month Change,* 2001–2013



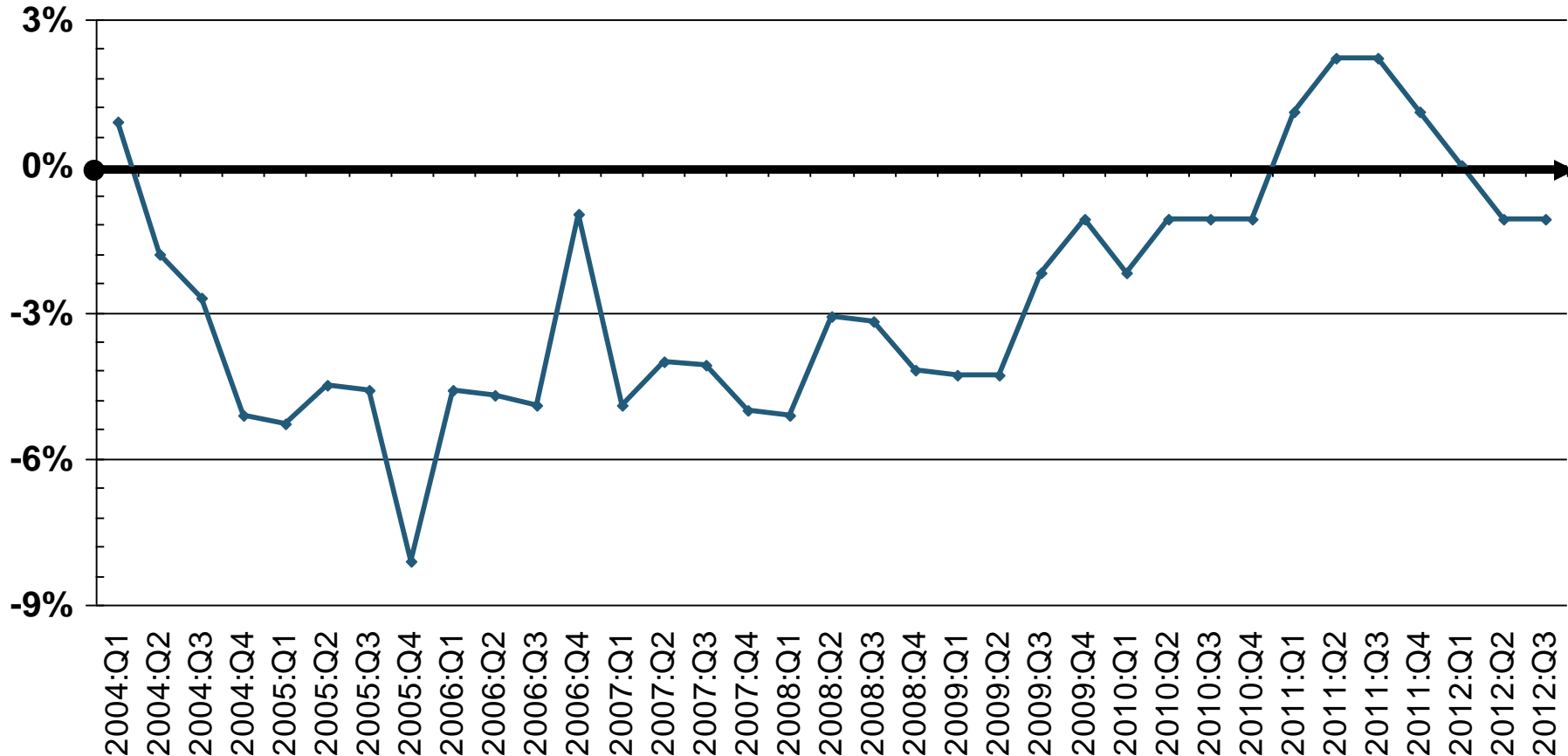
Cyclical peaks in PP Auto tend to occur approximately every 10 years (early 1990s, early 2000s, and possibly the early 2010s)

*Percentage change from same month in prior year; through January 2013; seasonally adjusted

Sources: US Bureau of Labor Statistics; National Bureau of Economic Research (recession dates); Insurance Information Institute.

PP Auto BI Liability Paid Claim Frequency*, 2004:Q1-2012:Q3

% Change from same quarter, prior year



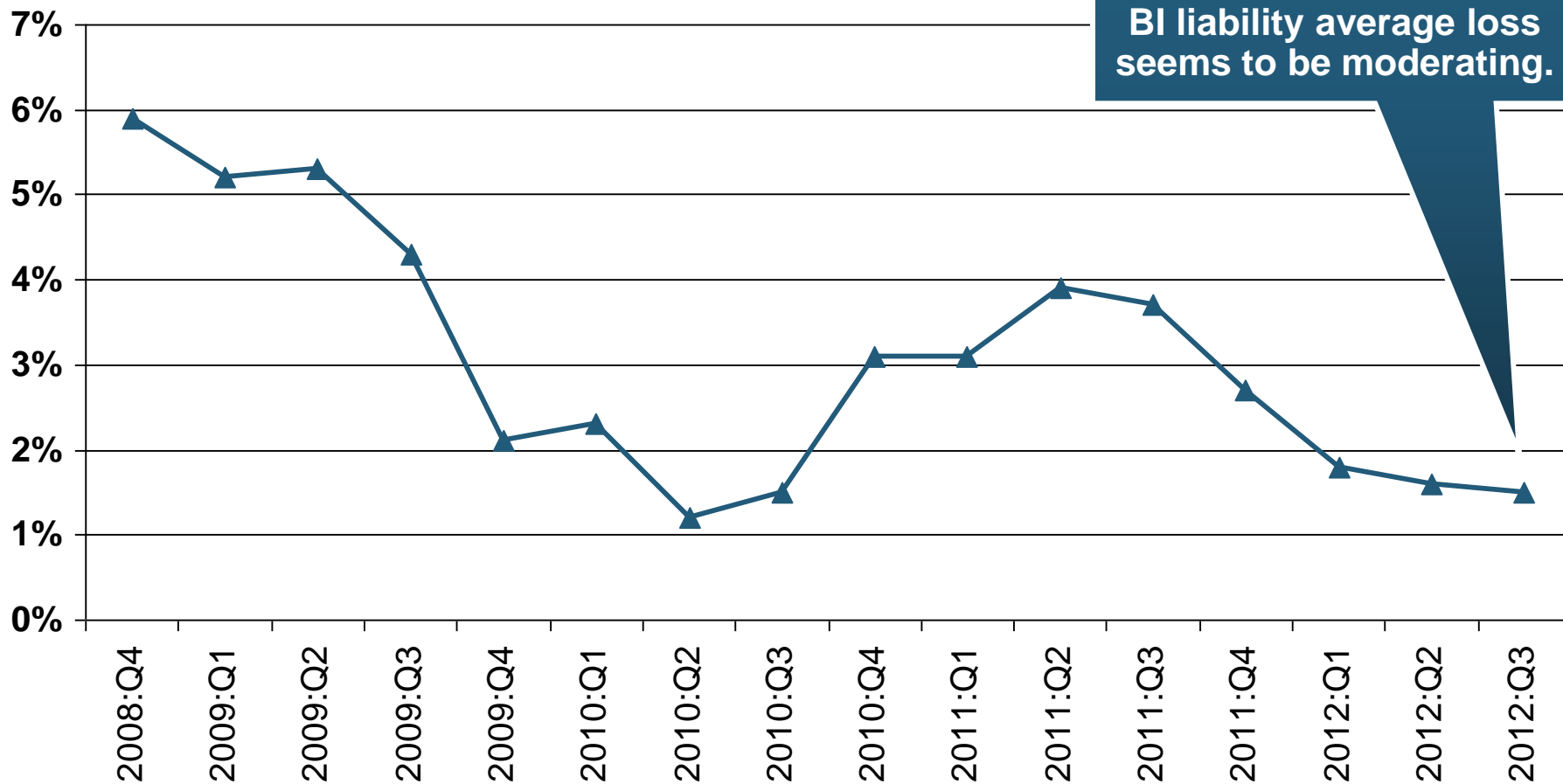
The frequency of PP Auto BI paid claims (paid claims as a percent of earned-car-years) fell (at a slowing rate) from 2004-2010, rose in 2011, fell again.

*measured as % change from same quarter, prior year

Source: ISO Fast Track data.

Trend in PP Auto BI Liability Average Loss* 2008:Q4-2012:Q3

% Change from same
quarter, prior year



*measured as % change from same quarter, prior year

Source: ISO Fast Track data.

PP Auto PD Liability Paid Claim Frequency*, 2008:Q4-2012:Q3

% Change from same
quarter, prior year



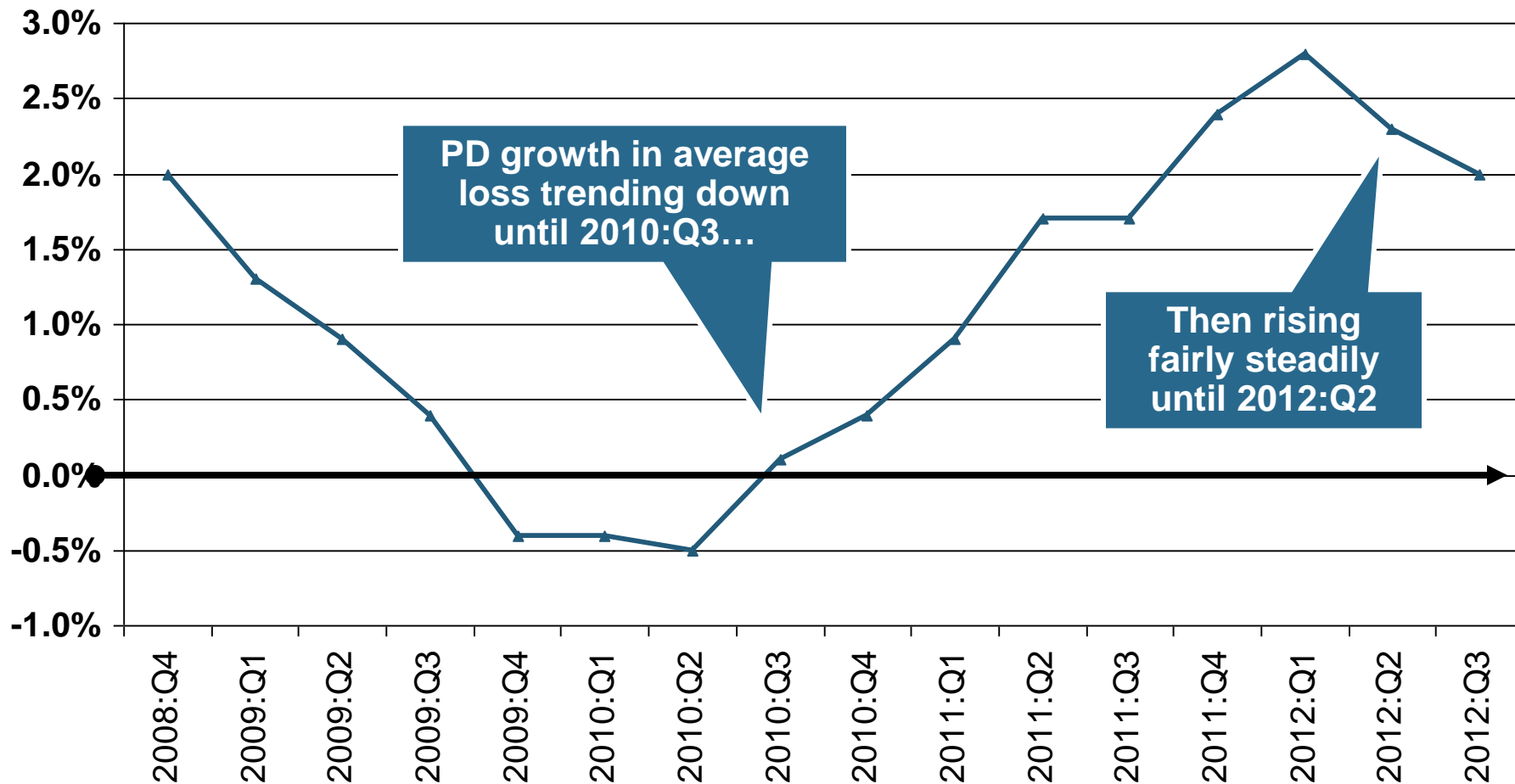
The frequency of PP Auto PD liability paid claims fell in 2008-09 but has been essentially flat 10 the last 12 quarters.

*measured as % change from same quarter, prior year

Source: ISO Fast Track data.

Trend in PP Auto PD Liability Average Loss 2008:Q4-2012:Q3

% Change from same
quarter, prior year



*measured as % change from same quarter, prior year

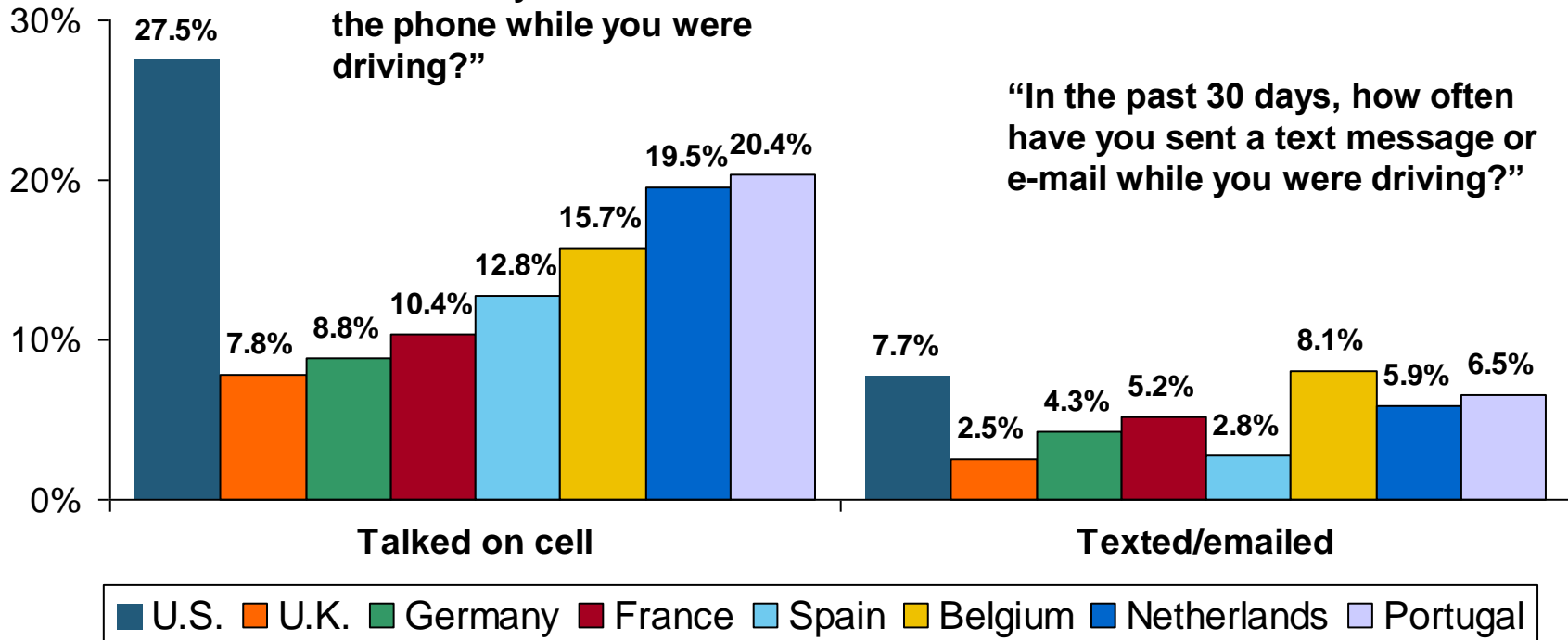
Source: ISO Fast Track data.

CDC Report: Cell Phone Use While Driving, US and Europe, Fall 2011

Percent saying “regularly” or “fairly often”

“In the past 30 days, how often have you talked on the phone while you were driving?”

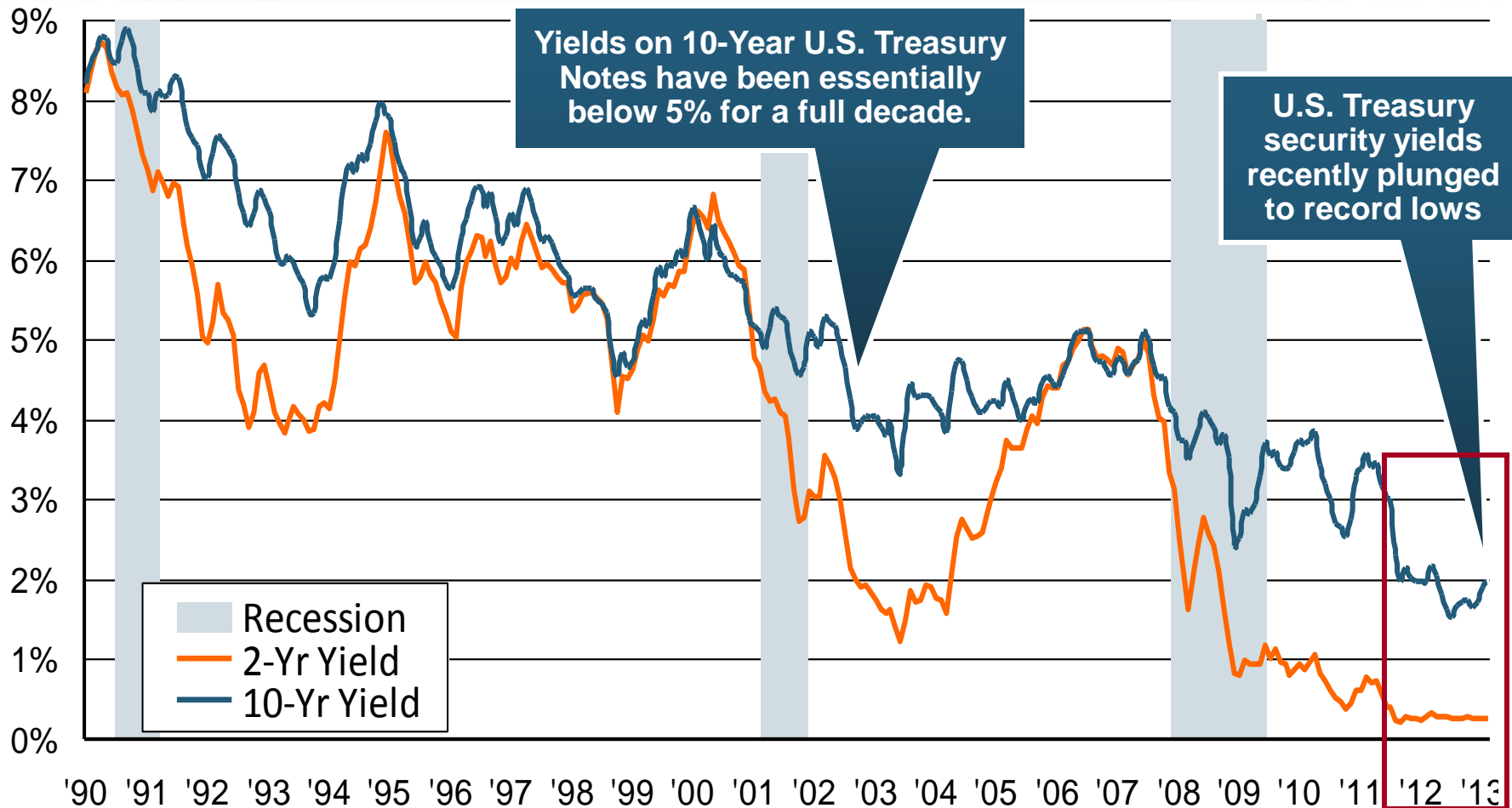
“In the past 30 days, how often have you sent a text message or e-mail while you were driving?”



Sources: “Mobile Device Use While Driving—United States and Seven European Countries, 2011,” in *Morbidity and Mortality Weekly Report*, Centers for Disease Control and Prevention, Vol. 62, No. 10, (March 15, 2013) available at http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6210a1.ht5m?s_cid=6210a1_e; Insurance Information Institute

Investments

U.S. Treasury Security Yields*: A Long Downward Trend, 1990–2013

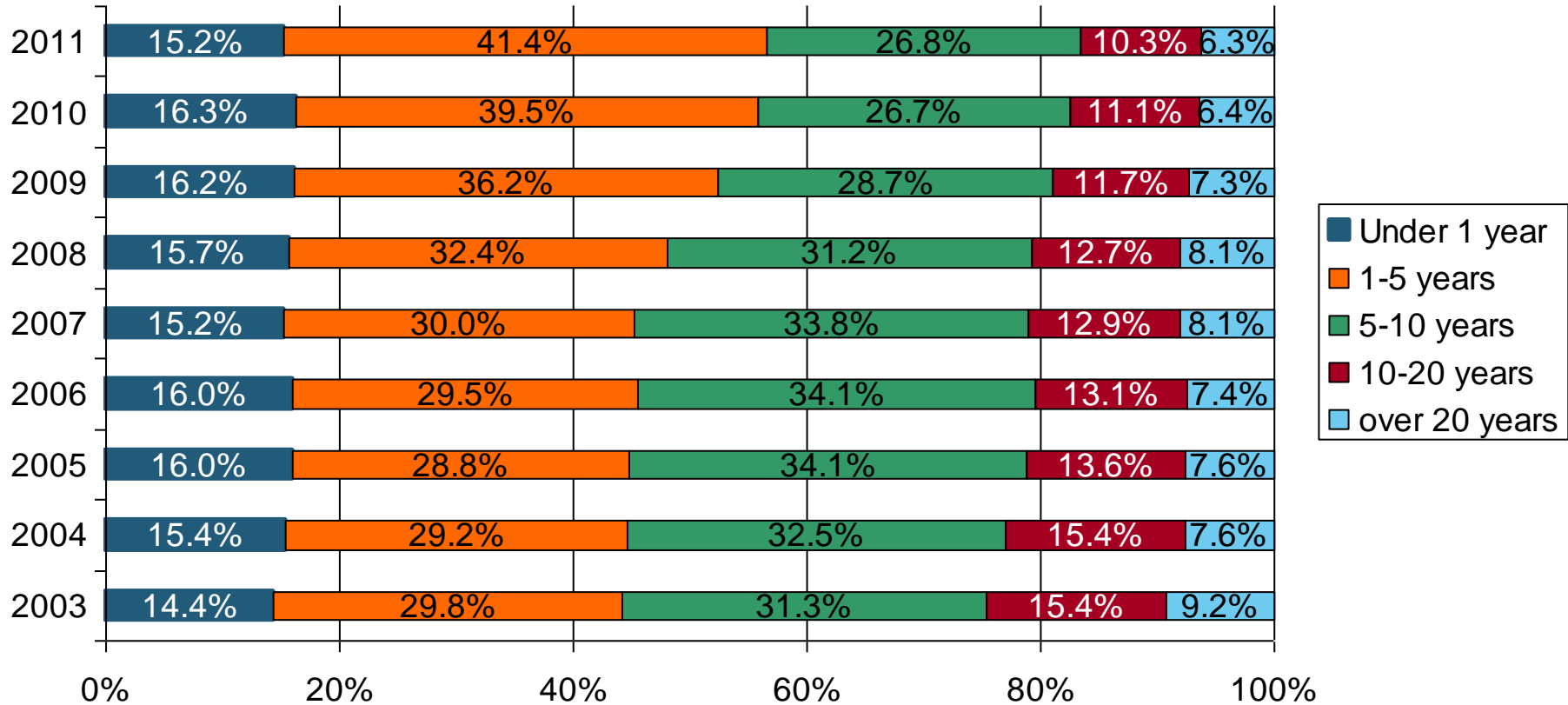


Since roughly 80% of P/C bond/cash investments are in 10-year or shorter durations, most P/C insurer portfolios will have low-yielding bonds for years to come.

*Monthly, constant maturity, nominal rates, through Feb 2013.

Sources: Federal Reserve Bank at <http://www.federalreserve.gov/releases/h15/data.htm>.
National Bureau of Economic Research (recession dates); Insurance Information Institutes.

Distribution of Bond Maturities, P/C Insurance Industry, 2003-2011



The main shift over these years has been from bonds with longer maturities to bonds with shorter maturities. The industry first trimmed its holdings of over-10-year bonds (from 24.6% in 2003 to 16.9% in 2011) and then trimmed bonds in the 5-10-year category. Falling average maturity of the P/C industry's bond portfolio is contributing to a drop in investment income along with lower yields.

Insurance Information Institute Online:

www.iii.org

***Thank you for your time
and your attention!***