

Property & Casualty Insurance Market Update Trends, Challenges & Opportunities for 2016 and Beyond

Casualty Actuaries of Greater New York
New York, NY
December 3, 2015

Download at www.iii.org/presentations

Robert P. Hartwig, Ph.D., CPCU, President & Economist Insurance Information Institute ◆ 110 William Street ◆ New York, NY 10038

Tel: 212.346.5520 ♦ Cell: 917.453.1885 ♦ bobh@iii.org ♦ www.iii.org

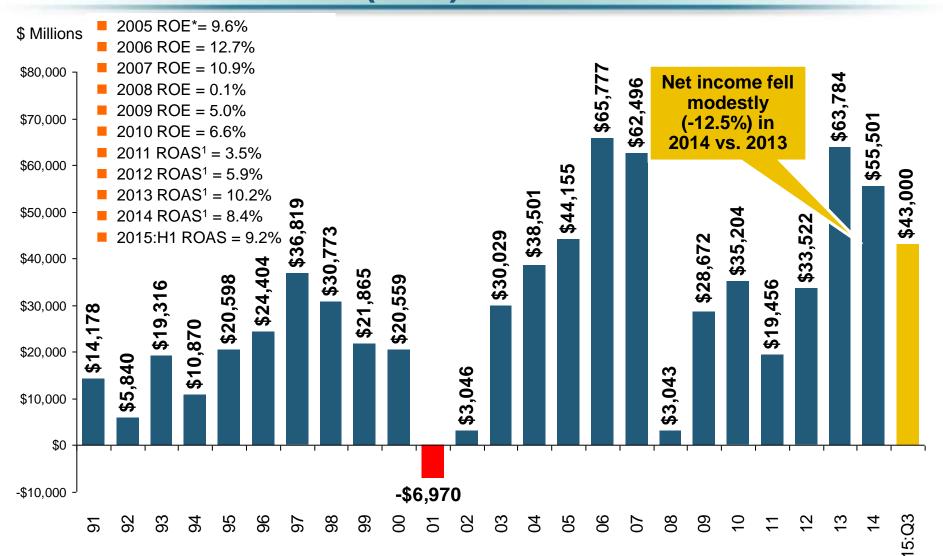


Insurance Industry Financial Performance

2014 Was a Reasonably Good Year 2015: A Repeat of 2014?

P/C Industry Net Income After Taxes 1991–2015:Q3 (Est.)



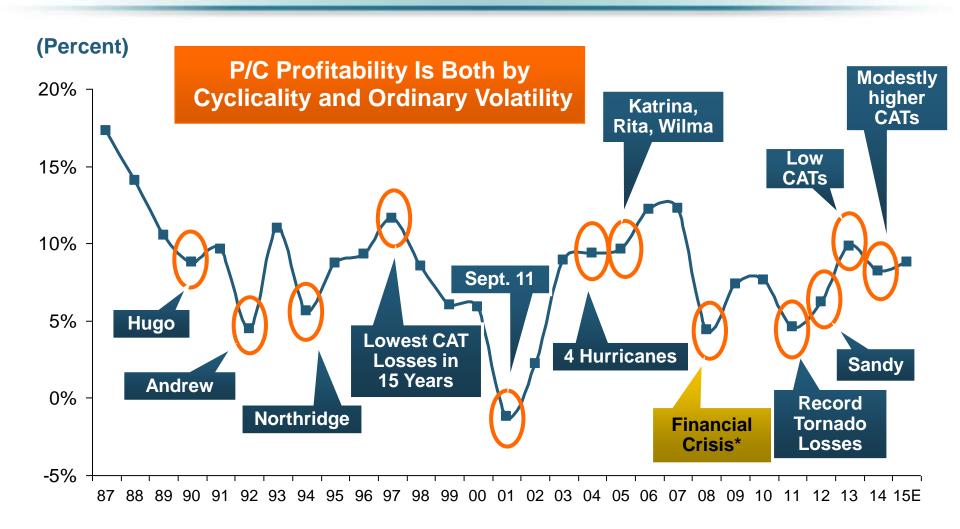


•ROE figures are GAAP; ¹Return on avg. surplus. Excluding Mortgage & Financial Guaranty insurers yields a 8.2% ROAS in 2014, 9.8% ROAS in 2013, 6.2% ROAS in 2012, 4.7% ROAS for 2011, 7.6% for 2010 and 7.4% for 2009.

Sources: A.M. Best, ISO; Insurance Information Institute

ROE: Property/Casualty Insurance by Major Event, 1987–2015E

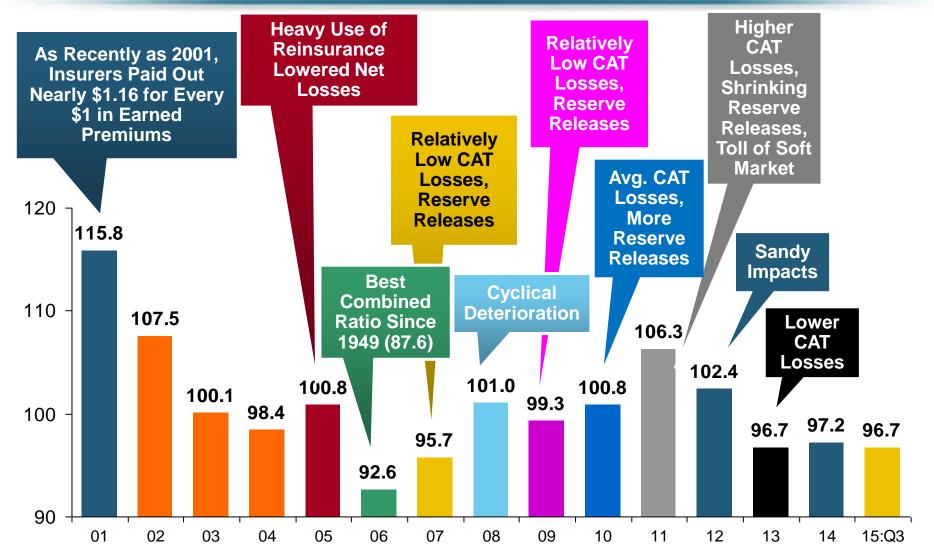




^{*} Excludes Mortgage & Financial Guarantee in 2008 – 2014. Sources: ISO, *Fortune*; Insurance Information Institute.

P/C Insurance Industry Combined Ratio, 2001–2015:Q3 (Est.)*



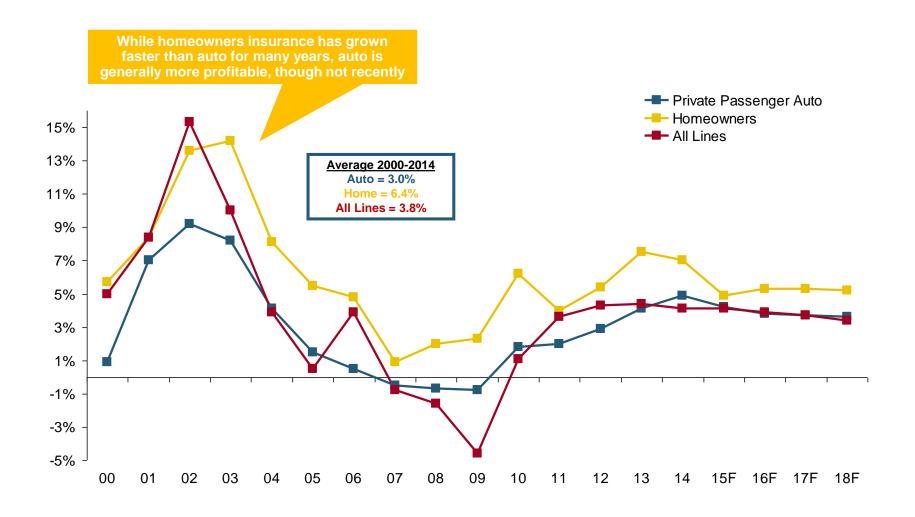


^{*} Excludes Mortgage & Financial Guaranty insurers 2008--2014. Including M&FG, 2008=105.1, 2009=100.7, 2010=102.4, 2011=108.1; 2012:=103.2; 2013: = 96.1; 2014: = 97.0.

Sources: A.M. Best, ISO.

Auto & Home vs. All Lines, Net Written Premium Growth, 2000–2018F



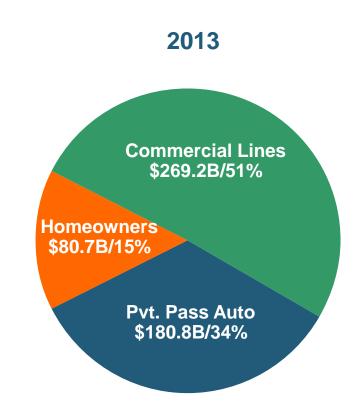


Distribution of Direct Premiums Written by Segment/Line, 2013



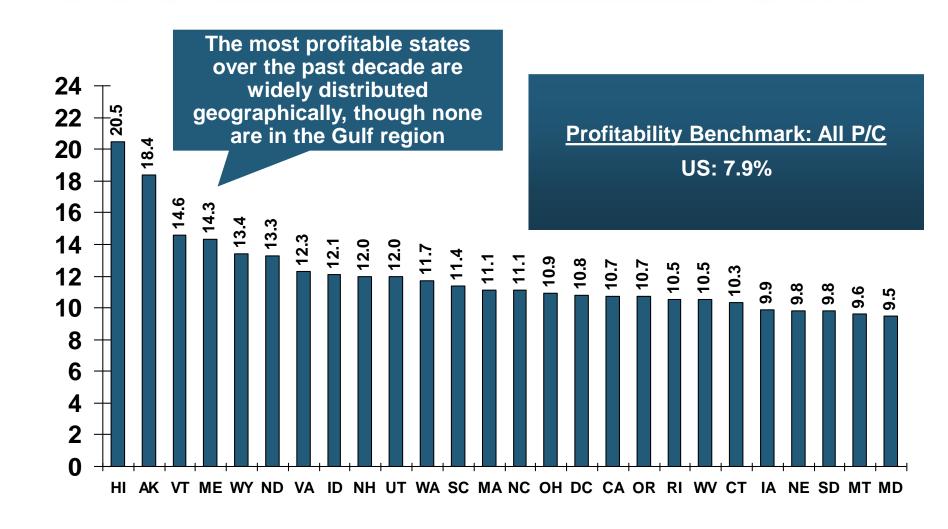
Distribution Facts

- Personal/Commercial lines split has been about 50/50 for many years
- Pvt. Passenger Auto is by far the largest line of insurance and is currently the most important source of industry profits
- Billions of additional dollars in homeowners insurance premiums are written by staterun residual market plans



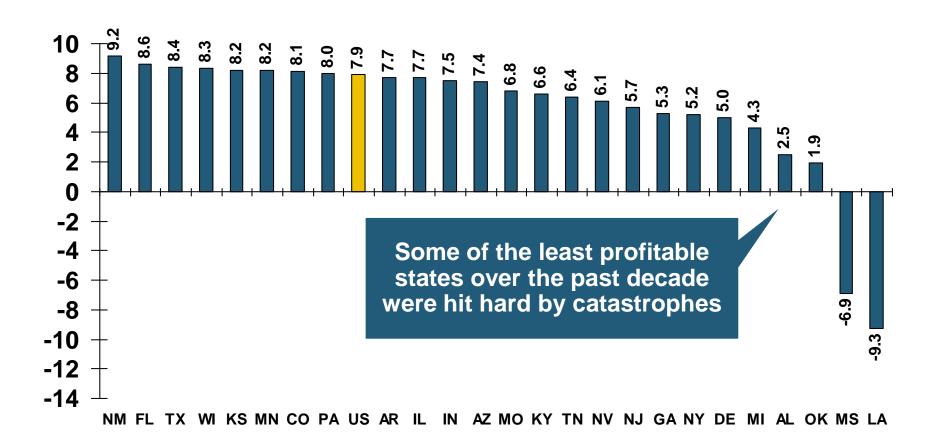
RNW All Lines by State, 2004-2013 Average: Highest 25 States





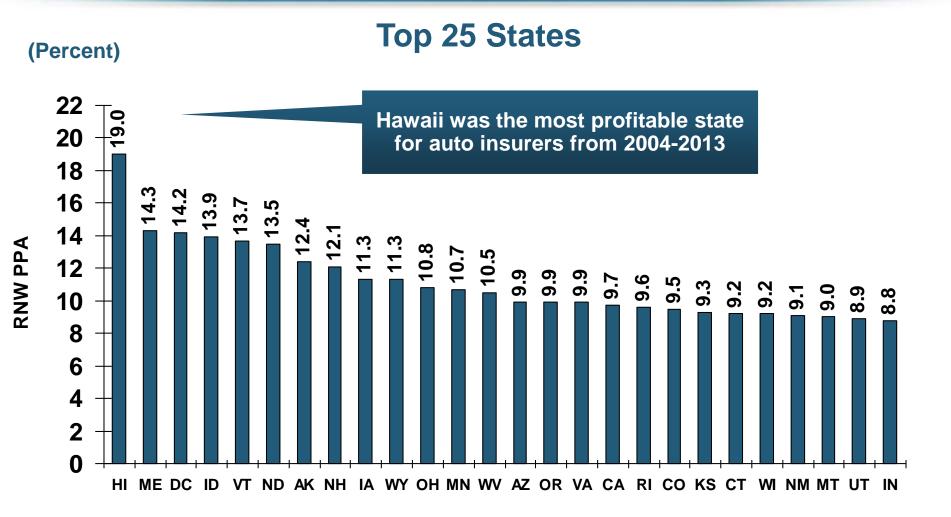
RNW All Lines by State, 2004-2013 Average: Lowest 25 States





Return on Net Worth: Pvt. Passenger Auto, 10-Year Average (2004-2013*)





Sources: NAIC.

^{*}Latest available.

Top Ten Most Expensive And Least Expensive States For Automobile Insurance, 2012 (1)



Rank	Most expensive states	Average expenditure	Rank	Least expensive states	Average expenditure
1	New Jersey	\$1,219.93	1	Idaho	\$534.56
2	D.C.	1,154.91	2	South Dakota	556.51
3	New York	1,152.45	3	lowa	561.26
4	Florida	1,127.93	4	North Dakota	576.08
5	Louisiana	1,112.53	5	Maine	582.43
6	Delaware	1,065.37	6	Wisconsin	598.84
7	Michigan	1,048.87	7	North Carolina	611.48
8	Rhode Island	1,034.50	8	Nebraska	616.78
9	Connecticut	986.73	9	Wyoming	618.81
10	Massachusetts	976.65	10	Kansas	632.07

Florida ranked 4th as the most expensive state in 2012, with an average expenditure for auto insurance of \$1,127.93.

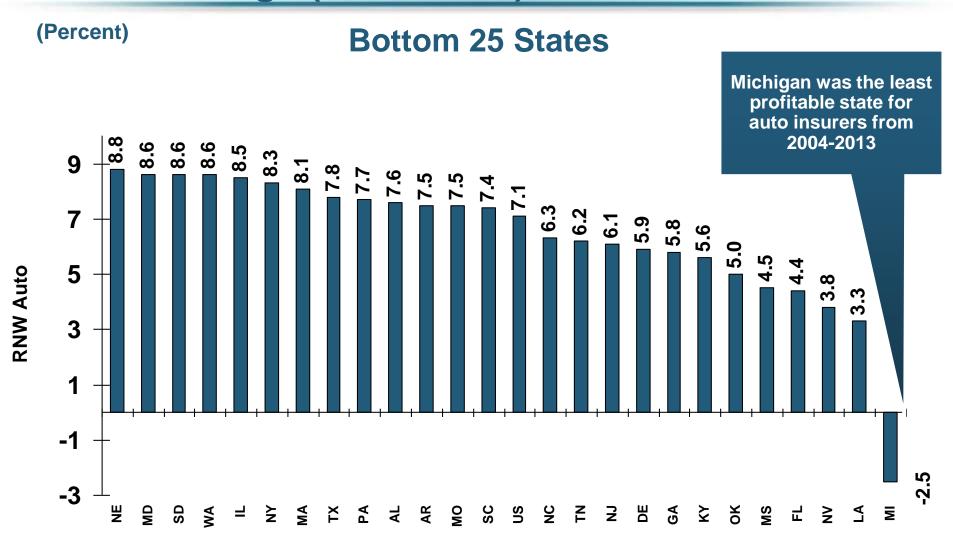
Source: © 2014 National Association of Insurance Commissioners.

⁽¹⁾ Based on average automobile insurance expenditures.

Return on Net Worth: Pvt. Passenger Auto, 10-Year Average (2004-2013*)



12

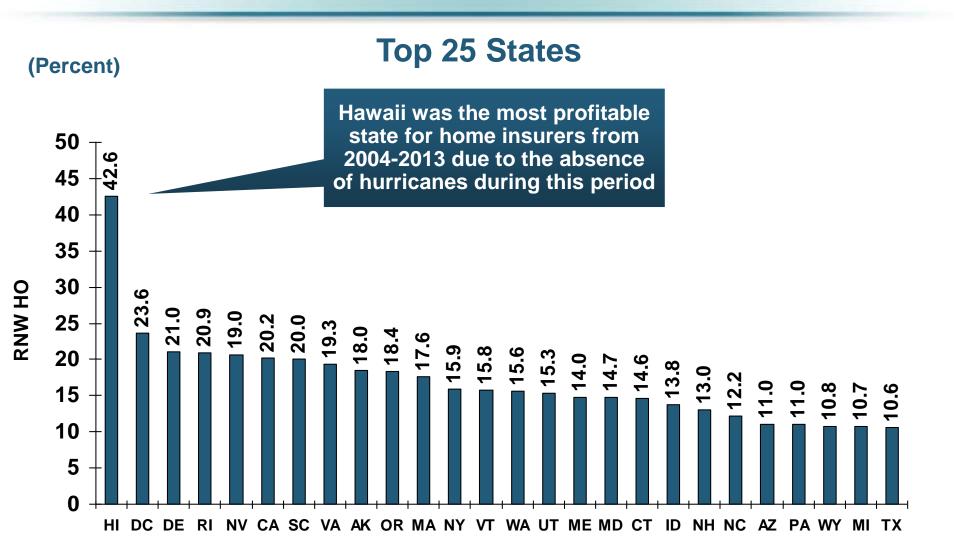


*Latest available.

Sources: NAIC

Return on Net Worth: Homeowners Insurance, 10-Year Average (2004-2013*)



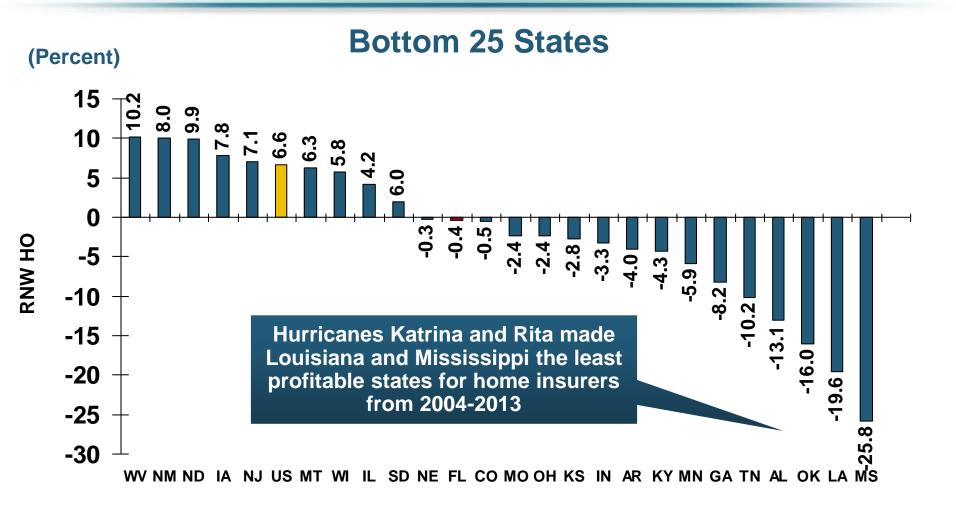


^{*}Latest available.

Sources: NAIC.

Return on Net Worth: Homeowners Insurance, 10-Year Average (2004-2013*)





*Latest available. Sources: NAIC

Top Ten Most Expensive And Least Expensive States For Homeowners Insurance, 2012 (1)



Florida ranked as the most expensive state for homeowners insurance in 2012, with an average expenditure of \$2,084.

Rank	Most expensive states	HO average premium	Rank	Least expensive states	HO average premium
1	Florida	\$2,084	1	Idaho	\$538
2	Louisiana	1,742	2	Oregon	567
3	Texas	1,661	3	Utah	580
4	Oklahoma	1,501	4	Wisconsin	631
5	Mississippi	1,314	5	Washington	648
6	Alabama	1,248	6	Nevada	674
7	Rhode Island	1,233	7	Delaware	678
8	Kansas	1,213	8	Arizona	691
9	Connecticut	1,160	9	Ohio	721
10	New York	1,158	10	Maine	741

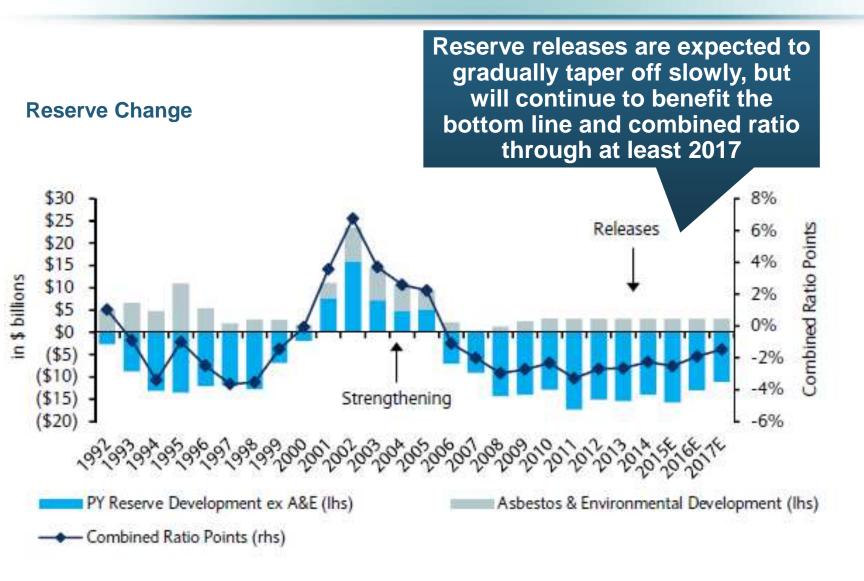
- (1) Includes policies written by Citizens Property Insurance Corp. (Florida) and Citizens Property Insurance Corp. (Louisiana), Alabama Insurance Underwriting Association, Mississippi Windstorm Underwriting Association, North Carolina Joint Underwriting Association and South Carolina Wind and Hail Underwriting Association. Other southeastern states have wind pools in operation and their data may not be included in this chart. Based on the HO-3 homeowner package policy for owner-occupied dwellings, 1 to 4 family units. Provides "all risks" coverage (except those specifically excluded in the policy) on buildings and broad named-peril coverage on personal property, and is the most common package written.
- (2) The Texas Department of Insurance developed home insurance policy forms that are similar but not identical to the standard forms. In addition, due to the Texas Windstorm Association (which writes wind-only policies) classifying HO-1, 2 and 5 premiums as HO-3, the average premium for homeowners insurance is artificially high.

Note: Average premium=Premiums/exposure per house years. A house year is equal to 365 days of insured coverage for a single dwelling. The NAIC does not rank state average expenditures and does not endorse any conclusions drawn from this data.

Source: ©2014 National Association of Insurance Commissioners (NAIC). Reprinted with permission. Further reprint or distribution strictly prohibited without written permission of NAIC.

P/C Insurance Loss Reserve Development, 1992 – 2017E*





Source: A.M. Best; Barclays research for estimates.

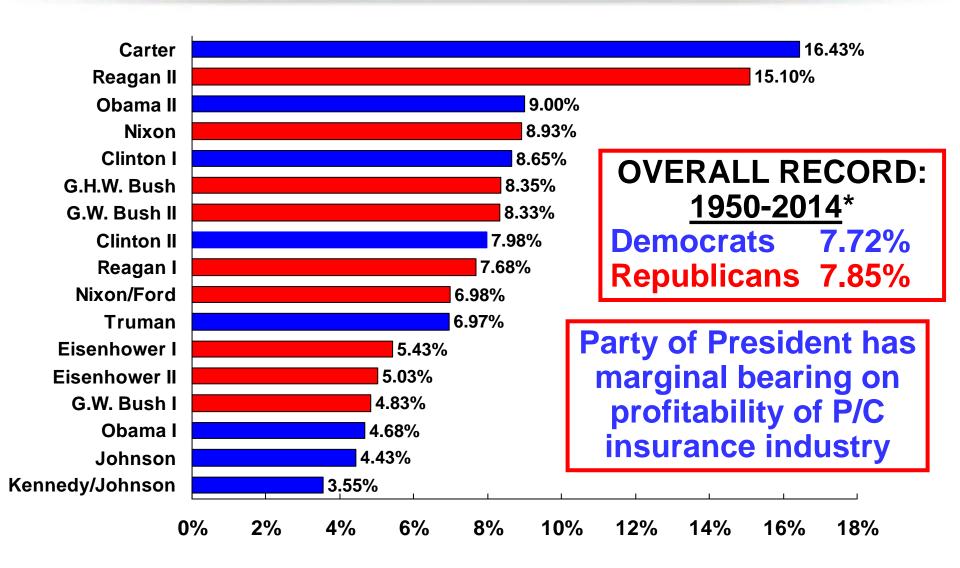


Profitability & Politics

How Is Profitability Affected by the President's Political Party?

P/C Insurance Industry ROE by Presidential Administration, 1950-2014*

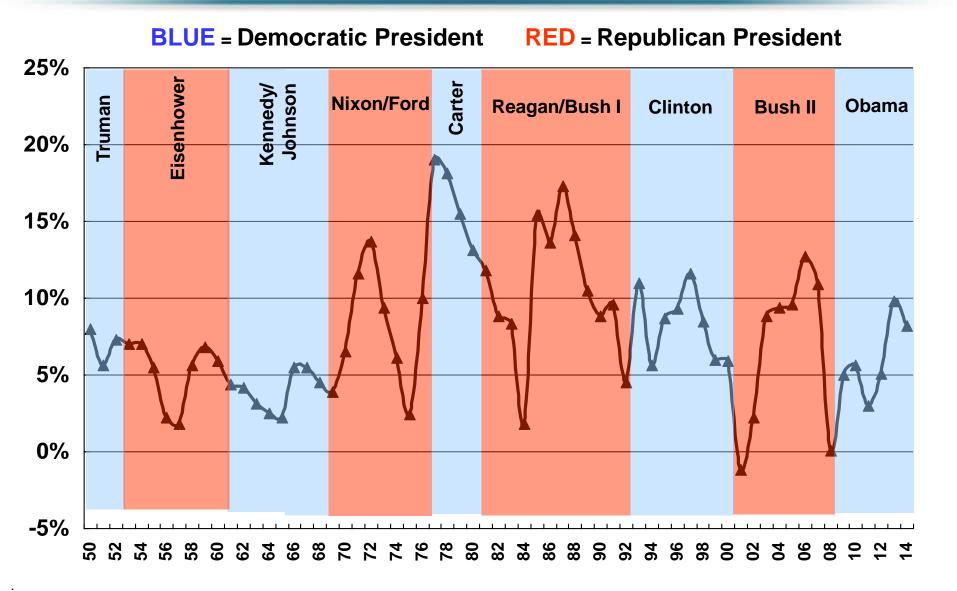




^{*}Truman administration ROE of 6.97% based on 3 years only, 1950-52;. Source: Insurance Information Institute

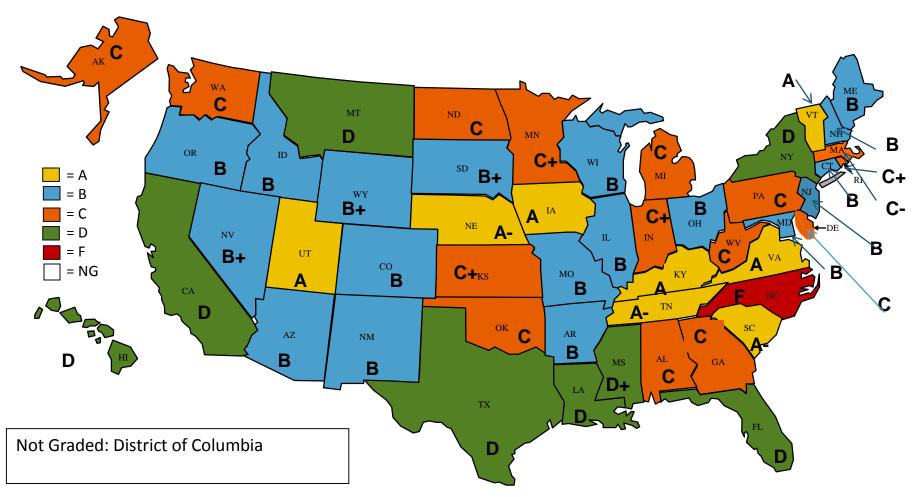
P/C insurance Industry ROE by Presidential Party Affiliation, 1950-2014





2015 Property and Casualty Insurance Regulatory Report Card





Source: R Street Insurance Regulation Report Card, December 2015



CURRENT ISSUES IN AUTO INSURANCE

Price Optimization Attacks on Underwriting Criteria

Price Optimization: The Latest



- Significant Discussion of Price Optimization Issue in Recent Months
- 15 States Have Issued Bulletins Addressing Its Use (as of 12/1/15)
 - Requests for information in several other states
- Each State Defines Price Optimization Differently
 - At least 10 definitions from states; NAIC, vendors and others
- States' Concerns Come Despite Absence of Any Discernable or Detectable Market Disruptions
 - Competition in auto insurance markets is intense, healthy and vigorous
 - More than 99% of drivers are insured through the voluntary market
 - Absence of consumer complaints
 - High degree of consumer satisfaction with auto insurers
 - Empowered Consumers: Have more tools available today than ever before to help them shop, collect and compare prices
 - Rates are not inadequate, excessive or unfairly discriminatory

I.I.I. Actions: NCOIL Hearing Testimony



PRICE OPTIMIZATION IN AUTO INSURANCE MARKETS

Actuarial, Economic and Regulatory Considerations

Robert P. Hartwig, Ph.D., CPCU

Testified as industry's witness at July 17
National Conference of Insurance Legislators' hearing on Price Optimization;

Worked very closely with PCI, AIA, NAMIC and independent companies.

Consumer Reports - #fixcarinsurance





September Consumer Reports, Released July 30.

- CR's complaint
 - Analyzed 2 billion quotes
 - Price-setting is "shrouded in secrecy and rife with inequities"
 - Credit Scoring
 - Price Optimization
 - "Little transparency and not enough fairness"

Consumer Reports: I.I.I Response

More +





Insurance Information
Institute responds to
Consumer Reports car
insurance article

Comment / f Shares / 21 Tweets / 2 Stumble / © Email

Auto insurance companies claim they can save you money, but in "The Truth"

About Car Insurance," Consumer Reports says otherwise. The magazine conducted research for two years in which they analyzed more than two billion car

In a statement, James Lynch, the Insurance Information Institute's chief actuary

"The prestiges highlighted in the Consumer Deports extials have been

insurance price quotes from more than 700 companies.

and director of information services said:

Non-Driving Factors
 Proved Effective, Have
 Been Used for
 Decades

- Gender
- Territory
- Age
- Grades
- Hundreds of Class Plan Filings Annually Reconfirm Their Value

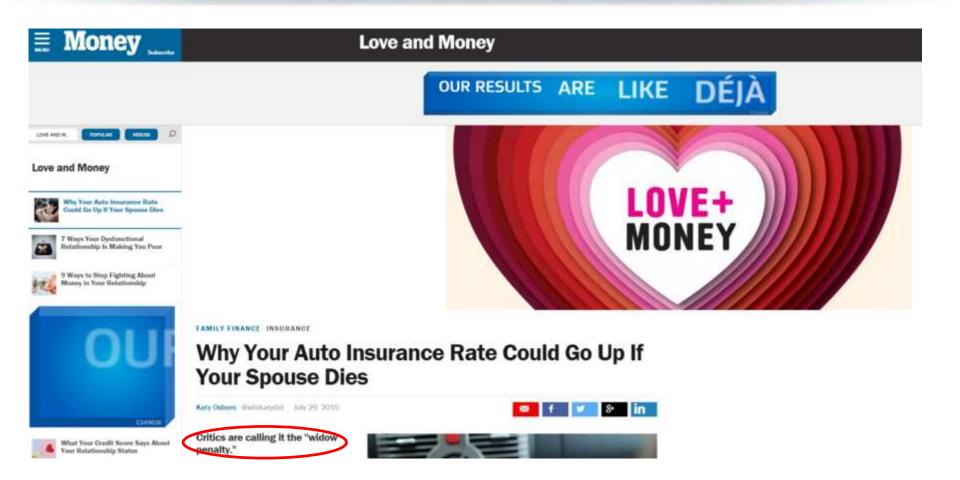


Recent Attacks on the Insurance Industry

Why Are Critics Suddenly More Aggressive?

CFA's Conclusion: The 'Widow Penalty' INSURANCE INFORMATION INSTITUTE





"a change in marital status from married to unmarried (through divorce or the death of a spouse) can cause a woman's auto insurance premiums to rise as much as 226%—suggesting a 'widow penalty' that CFA director of insurance Bob Hunter said in a press teleconference Monday with executive director Stephen Brobeck is 'immoral and should be stopped at once."

What's Driving Attacks on the Insurance Industry?



- Recent Surge in Attacks is Associated with Income Inequality Debate in the United States
 - Attacks not confined to auto insurance (e.g., Workers Comp, Health)
 - Not confined to insurance (banks, lending in general, student loans)
- Politics, Economics, Regulation & Demographics Are Principal Drivers
 - CFA/CR and others (ProPublica) emboldened in current environment
 - Dodd-Frank Act stuffed with income inequality mandates and studies
 - FIO now studying auto insurance affordability; Wants to create index.
 - Definition of "fairness" is shifting
- CFA Has Been Able to Attack Certain Rating Factors Based on New Perception of Fairness (which is independent of actual risk)
 - Education Occupation Marital Status Gender
 - Age Credit Profile Location "Price Optimization"
- All of These Are Vulnerable to Attack in the Current Environment
- Infinite Number of Quotes Online → CFA Uses to Highlight Perceived Inequities

Handout for Government Affairs Staff Attending NAIC Meeting





The Truth about Auto Insurance? Driving records alone offer an incomplete picture

Rating factors used by auto insurers to price policies have come under attack in recent months. Consumer Reports (CR) and the Consumer Federation of America (CFA) have made headlines by purporting to demonstrate U.S. auto

insurers use certain rating factors unfairly, including

a driver's credit-based insurance score, gender

and marital status. They have also criticized the

practice of "price optimization," a term defined

by the Casualty Actuarial Society (CAS) as "the supplementation of traditional actuarial loss cost models to include quantitative customer demand models for use in determining customer prices."

The CR and CFA analyses were misleading and overlooked the ways in which competition in auto insurance markets is enhanced and consumers benefit when a wide variety of rating factors beyond a person's driving record are used to determine risk

Key factors include:



Credit

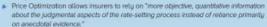
- Regulators in 47 U.S. states allow the use of creditbased insurance scores.
- "Credit scores are effective predictors of risk under automobile policies." (2007 Federal Trade Commission
- 76 percent of consumers exhibit good or fair credit management behavior

Chierciae

- Women drivers tend to get into fewer and less serious accidents than men.
- Men were behind the wheel in nearly three of every four total crashes nationwide (2003-2012).

Moritot Status

Married drivers tend to get Into fewer and less serious accidents than unmarried drivers, based on the claims experience U.S. auto insurers have complied over a period of decodes.



▶ Consumers benefit because, "Price optimization may improve rate stability and lower. an insurer's long-term cost for providing coverage and limit policyholder disruption. If consumers realize more stability through price optimization, policyholder discounts for longevity may increase over time.*

(Fellipsed Association of Insurance Commissioners' Conucity Actualist and Statebook Task Force draft. White popert.

Resources

Consumers who believe

or underserved by their

insurance company can-

and should-shop around

for a better deal. The U.S.

precisely because different insurers give different

auto insurance industry

is highly competitive,

weights to a variety of

underwriting criteria.

they are being overcharged

I.I.I. consumer education articles

- · What Determines the Price of My Auto Insurance Policy? www.li.org/article/what-determines-price-my-auto-insurance-
- How Can I Save Money on Auto Insurance? www.iii.org/article/how-can-i-save-money-auto-insurance

I.I.I. presentations and research

- · Price Optimization in Auto Insurance Markets: Actuarial, Economic. and Regulatory Considerations: www.ii.org/presentation/price-optimization-in-auto-Insurance-markets-actuarial-economic-and-regulatoryconsiderations-071715
- · Facts & Statistics: Auto Insurance: www.ll.org/fact-statistic/auto-insurance
- Issues Update: Credit Scoring and Insurance: www.ll.org/issue-update/credit-scoring

The I's on Insurance-Auto Coverage: You're in the Driver's Seat: www.)ii.org/video/the-is-on-insurance-auto-coverage-youre-in-thedrivers-seat

LLL subject matter experts

- . Dr. Robert Hartwig, president & economist: bobh@iii.org
- . James Lynch, FCAS MAAA, chief actuary and director of Information Services: james@ill.org

I.I.I. medio contact

Michael Barru, vice president, Media Relations: michaelb@iii.org

For more information about insurance; www.lil.org



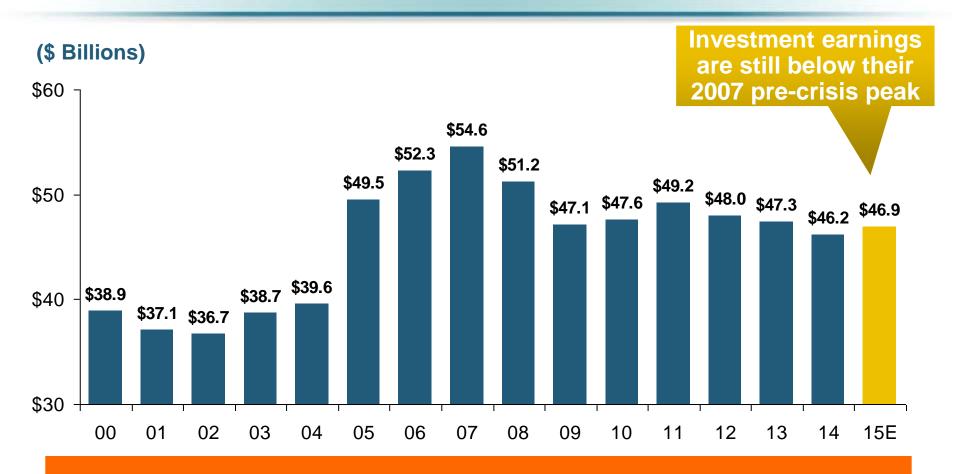
INVESTMENTS: THE NEW REALITY

Investment Performance is a Key Driver of Profitability

Depressed Yields Will Necessarily Influence Underwriting & Pricing

Property/Casualty Insurance Industry Investment Income: 2000–2015E¹





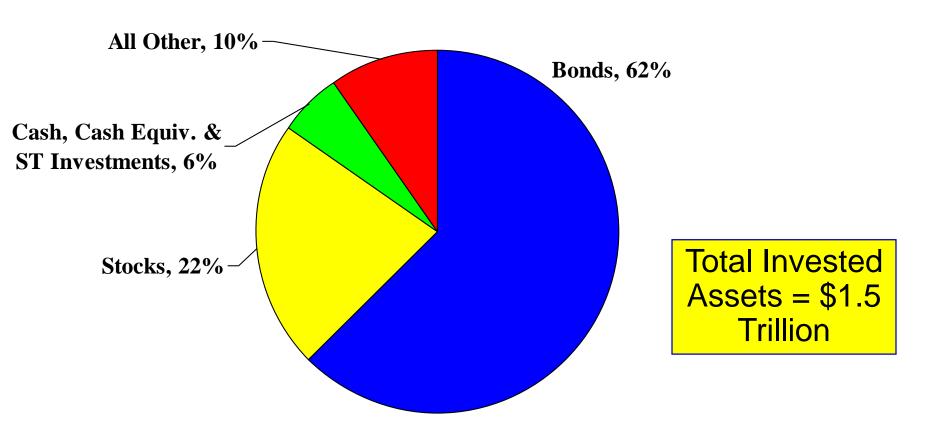
Due to persistently low interest rates, investment income fell in 2012, 2013 and 2014.

¹ Investment gains consist primarily of interest and stock dividends. Sources: ISO; Insurance Information Institute.

Distribution of Invested Assets: P/C Insurance Industry, 2013



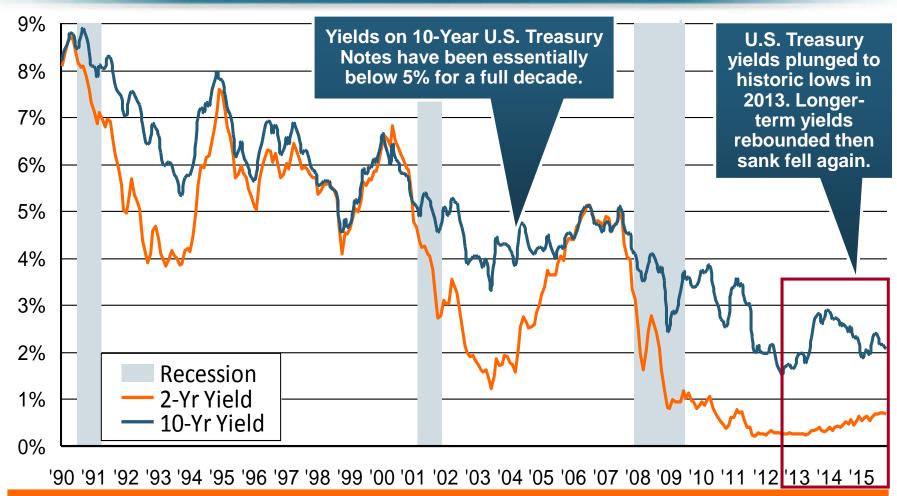
\$ Billions



Source: Insurance Information Institute Fact Book 2015, A.M. Best.

U.S. Treasury Security Yields: A Long Downward Trend, 1990–2015*





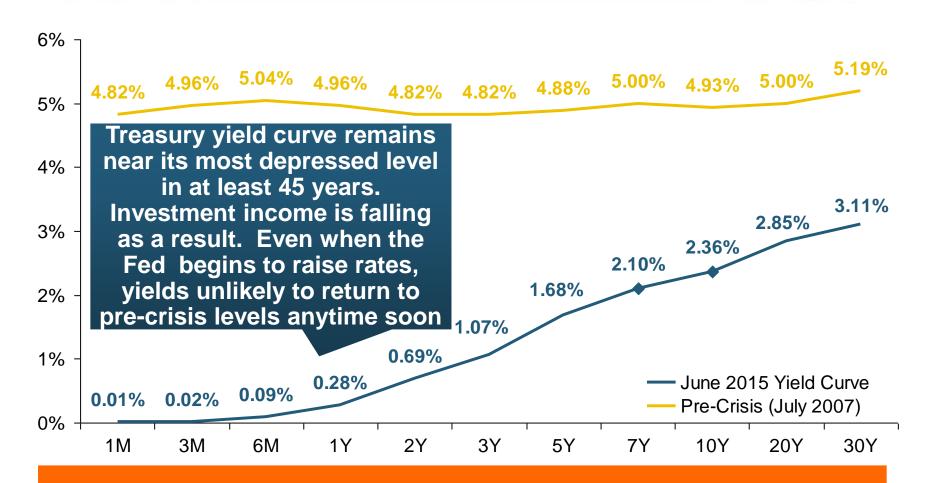
Since roughly 80% of P/C bond/cash investments are in 10-year or shorter durations, most P/C insurer portfolios will have low-yielding bonds for years to come.

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

^{*}Monthly, constant maturity, nominal rates, through October 2015.

Treasury Yield Curves: Pre-Crisis (July 2007) vs. June 2015



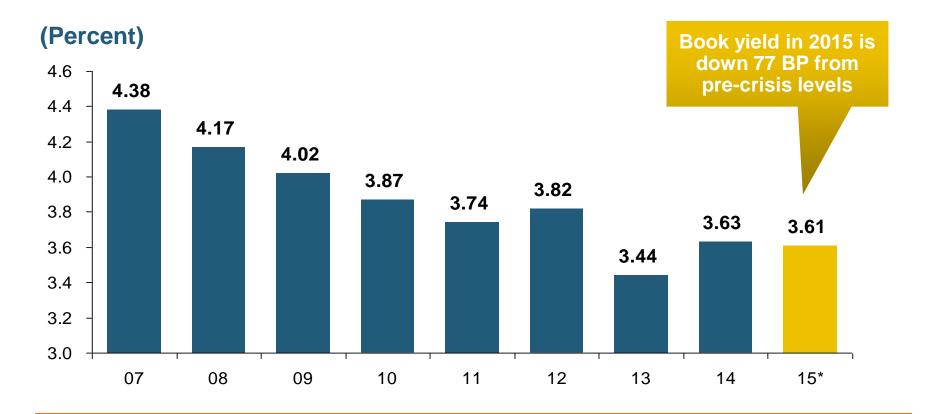


The Fed Is Actively is Signaling that it Is Likely to Begin Raising Rates

Later in 2015 but Only Very Gradually

Net Yield on Property/Casualty Insurance Invested Assets, 2007–2015*

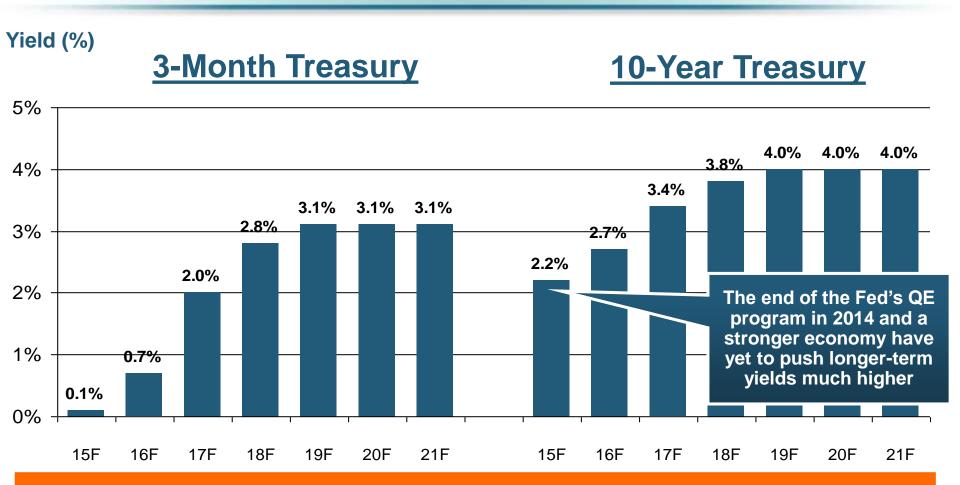




The yield on invested assets remains low relative to pre-crisis yields. The Fed's plan to raise interest rates in late 2015 has already pushed up some yields, albeit quite modestly.

Interest Rate Forecasts: 2015 - 2021



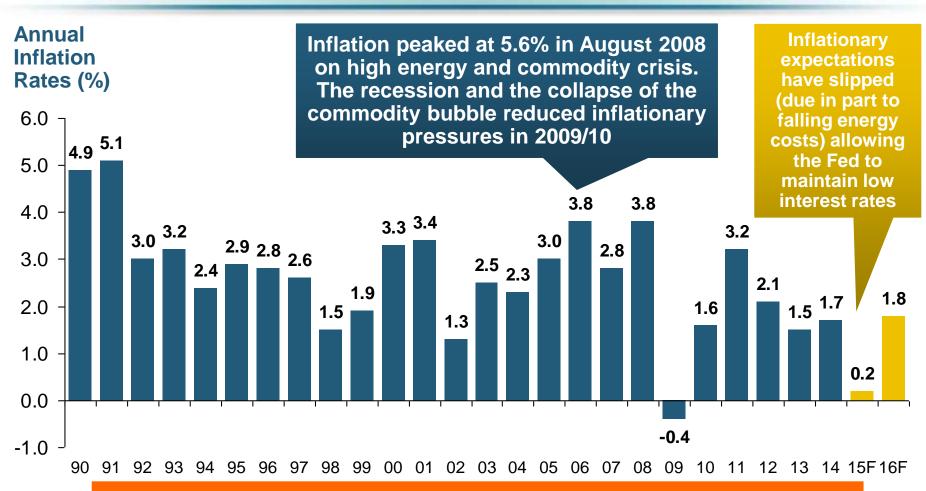


A full normalization of interest rates is unlikely until the 2020s, more than a decade after the onset of the financial crisis.

Sources: Blue Chip Economic Indicators (11/15 for 2015 and 2016; for 2017-2021 10/15 issue); Insurance Info. Institute.

Annual Inflation Rates, (CPI-U, %), 1990–2016F

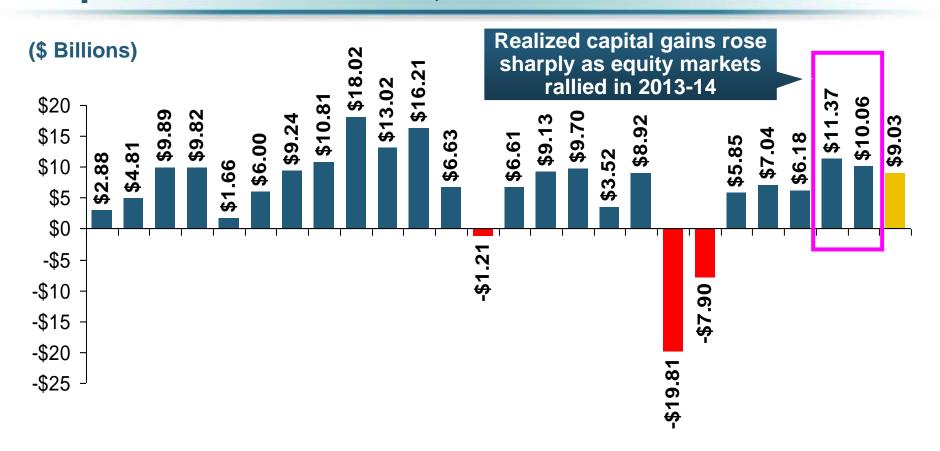




Slack in the U.S. economy and falling energy prices suggests that inflationary pressures should remain subdued for an extended period of times

P/C Insurer Net Realized Capital Gains/Losses, 1990-2015:Q3*





90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15*

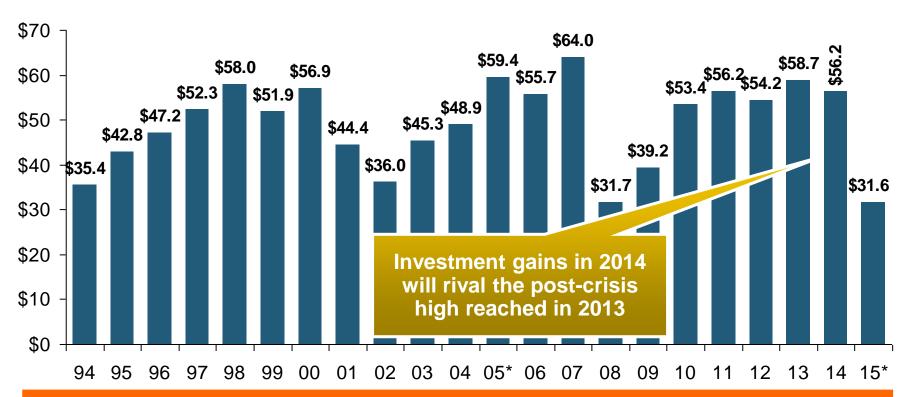
Insurers Posted Net Realized Capital Gains in 2010 - 2014 Following Two Years of Realized Losses During the Financial Crisis. Realized Capital Losses Were a Primary Cause of 2008/2009's Large Drop in Profits and ROE.

^{*}Through Q3 2015 (preliminary) Sources: A.M. Best, ISO, SNL, Insurance Information Institute.

Property/Casualty Insurance Industry Investment Gain: 1994–2015:Q2¹



(\$ Billions)



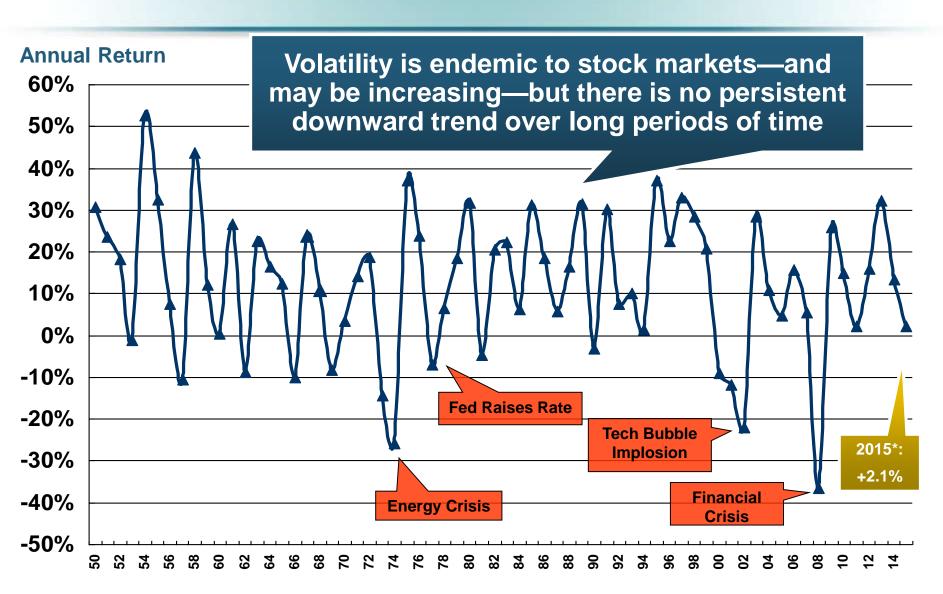
Total Investment Gains Were Down Slightly in 2014 as Low Interest Rates Pressured Investment Income but Realized Capital Gains Remained Robust

¹ Investment gains consist primarily of interest, stock dividends and realized capital gains and losses.

^{* 2005} figure includes special one-time dividend of \$3.2B; 2015 figure is through Q2 2015. Sources: ISO, SNL; Insurance Information Institute.

S&P 500 Index Returns, 1950 – 2015*





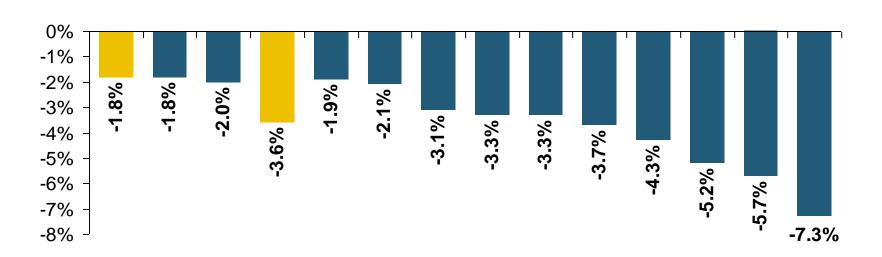
^{*}Through Dec. 1, 2015.

Source: NYU Stern School of Business: http://pages.stern.nyu.edu/~adamodar/New_Home_Page/datafile/histretSP.html Ins. Info. Inst.

Reduction in Combined Ratio Necessary to Offset 1% Decline in Investment Yield to Maintain Constant ROE, by Line*







Lower Investment Earnings Place a Greater Burden on Underwriting and Pricing Discipline

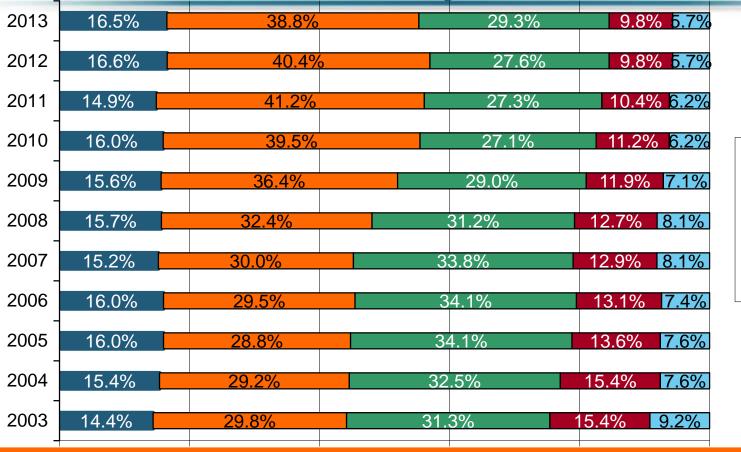
Source: A.M. Best; Insurance Information Institute.

^{*}Based on 2008 Invested Assets and Earned Premiums

^{**}US domestic reinsurance only

Distribution of Bond Maturities, P/C Insurance Industry, 2003-2013







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 15.5% in 2012) and then trimmed bonds in the 5-10-year category (from 31.3% in 2003 to 27.6% in 2012). Falling average maturity of the P/C industry's bond portfolio is contributing to a drop in investment income along with lower yields.

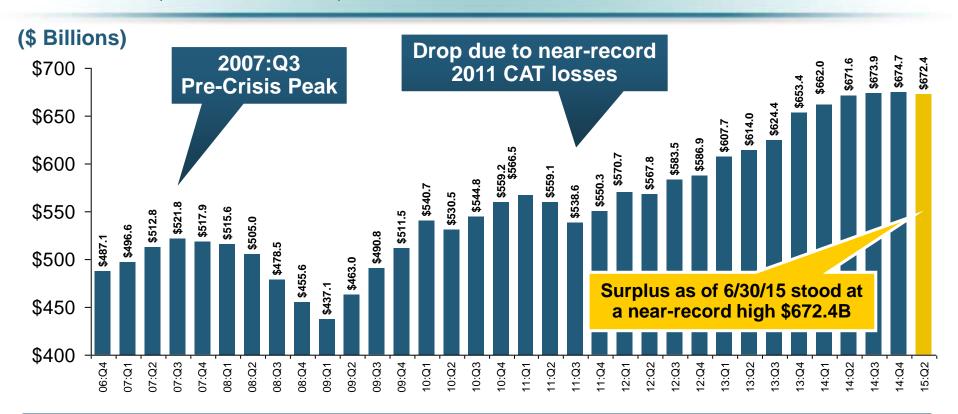


CAPITAL/CAPACITY

Capital Accumulation Has Multiple Impacts Alternative Capital Impacts?

Policyholder Surplus, 2006:Q4–2015:Q2





The industry now has \$1 of surplus for every \$0.73 of NPW, close to the strongest claims-paying status in its history.

2010:Q1 data includes \$22.5B of paid-in capital from a holding company parent for one insurer's investment in a non-insurance business.

The P/C insurance industry entered 2015 in very strong financial condition.

Sources: ISO, A.M .Best.



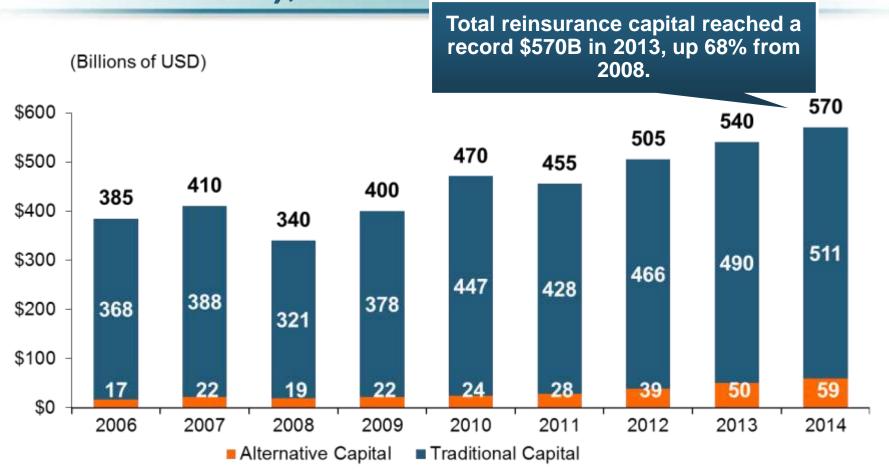
Alternative Capital

New Investors Continue to Change the Reinsurance Landscape

First I.I.I. White Paper on Issue Was Released in March 2015

Global Reinsurance Capital (Traditional and Alternative), 2006 - 2014





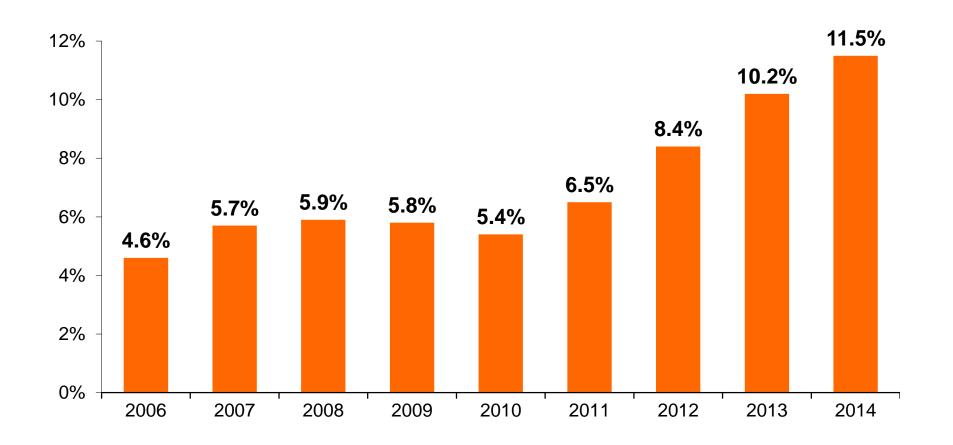
But alternative capacity has grown 210% since 2008, to \$50B. It has more than doubled in the past three years.

2014 data is as of June 30, 2014.

Source: Aon Benfield Analytics; Insurance Information Institute.

Alternative Capital as a Percentage of Traditional Global Reinsurance Capital





Alternative Capital's Share of Global Reinsurance Capital Has More Than Doubled Since 2010.

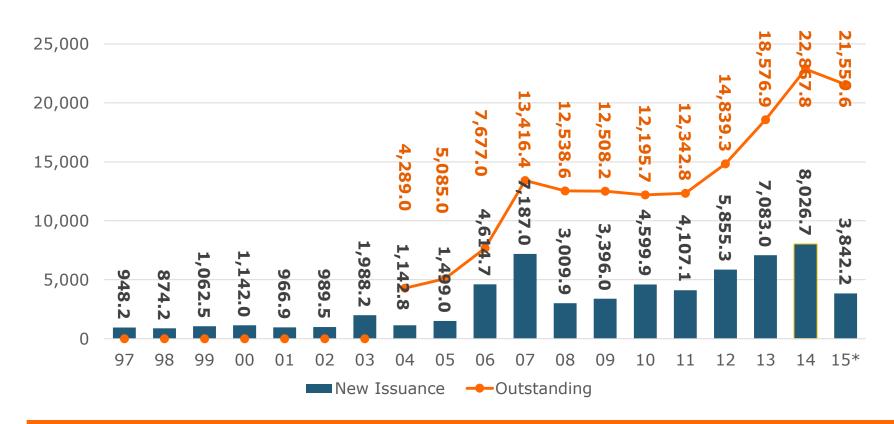
2014 data is as of June 30, 2014.

Source: Aon Benfield Analytics; Insurance Information Institute.

Catastrophe Bond Issuance and Outstanding: 1997-2015:Q2



Risk Capital Amount (\$ Millions)



Cat Bond Issuance Appears to Be Slowing Down in 2015 from 2014's Record Pace. Lower Yields on Bonds Explain Some of the Contraction.

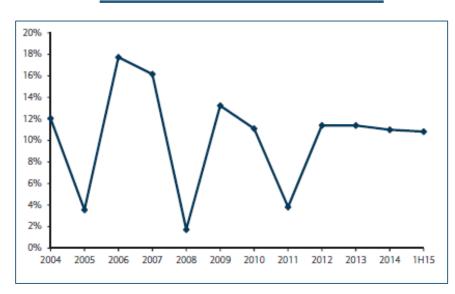
US Property CAT Rate on Line Index & Global Reinsurance ROE



US Property CAT ROL



Global Reinsurance ROE



Record traditional capacity, alternative capital and low CAT activity have pressured reinsurance prices; ROEs are own only very modestly

Source: Barclays PLC from Guy Carpenter; Insurance Information Institute.

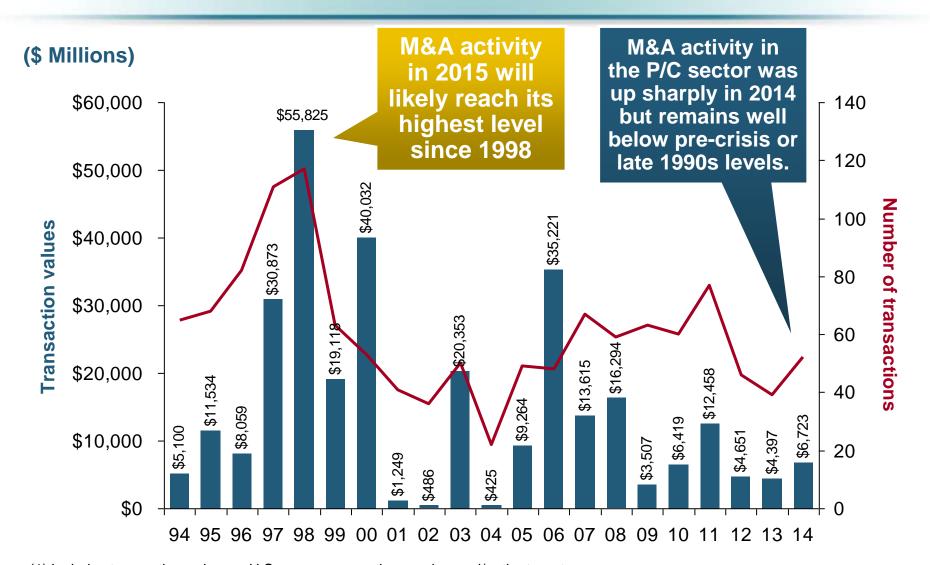


M&A UPDATE: A PATH TO GROWTH?

Are Capital Accumulation, Drive for Growth and Scale Stimulating M&A Activity?

U.S. INSURANCE MERGERS AND ACQUISITIONS, P/C SECTOR, 1994-2014 (1)





(1) Includes transactions where a U.S. company was the acquirer and/or the target.

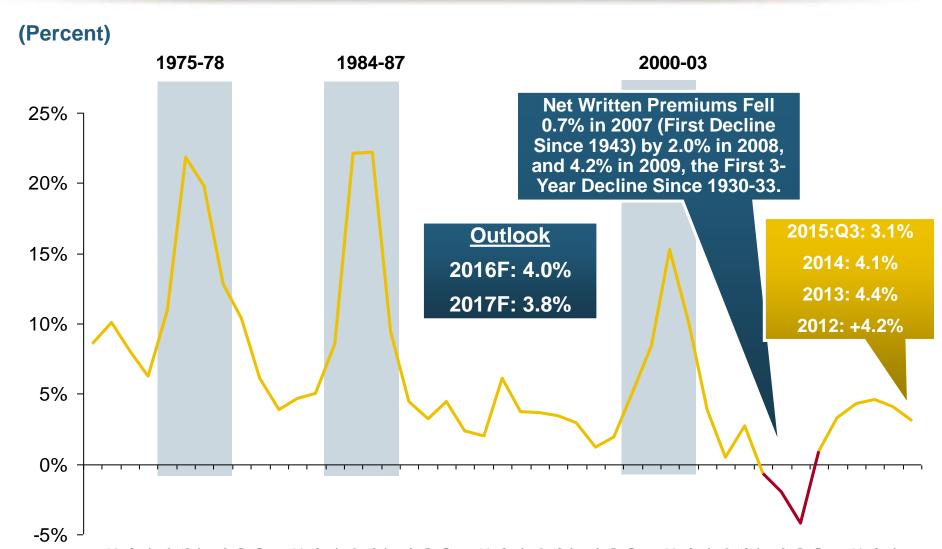


Growth

Premium Growth Rates Vary Tremendously by State and Over Time, But...

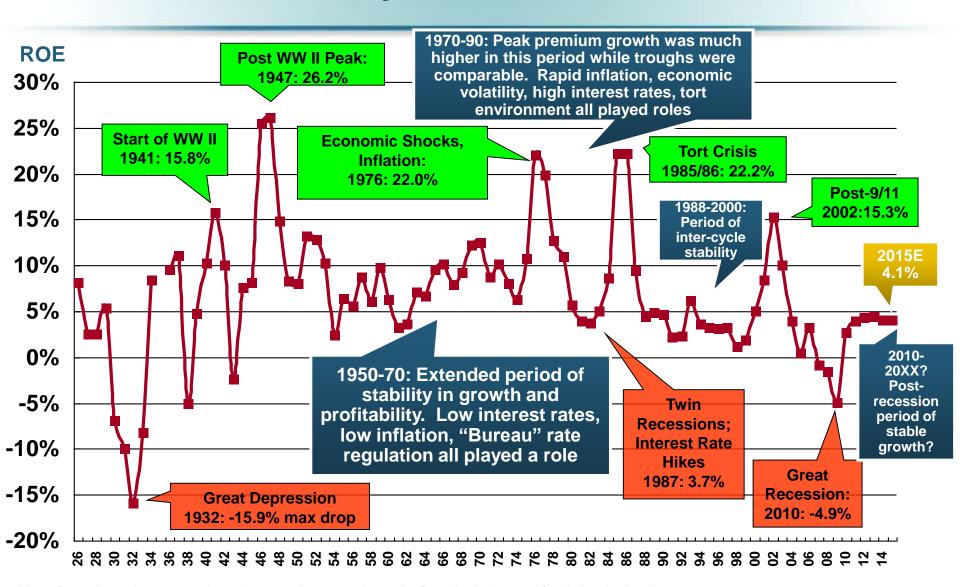
Net Premium Growth (All P/C Lines): Annual Change, 1971—2015:Q3P





NPW Premium Growth: Peaks & Troughs in the P/C Insurance Industry, 1926 – 2015E





Note: Data through 1934 are based on stock companies only. Data include state funds beginning in 1998. Source: A.M. Best: Insurance Information Institute.

Direct Premiums Written: Total P/C Percent Change by State, 2007-2014

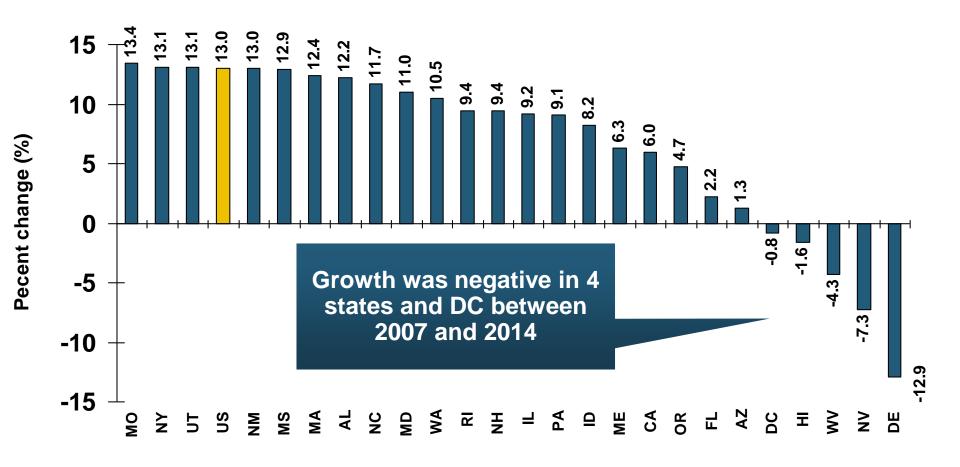




Direct Premiums Written: Total P/C Percent Change by State, 2007-2014



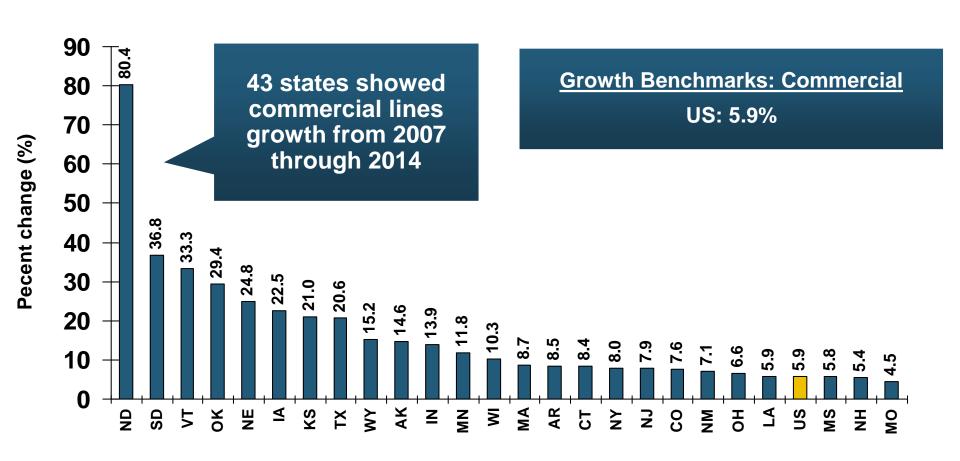
Bottom 25 States



Direct Premiums Written: Comm. Lines Percent Change by State, 2007-2014



Top 25 States

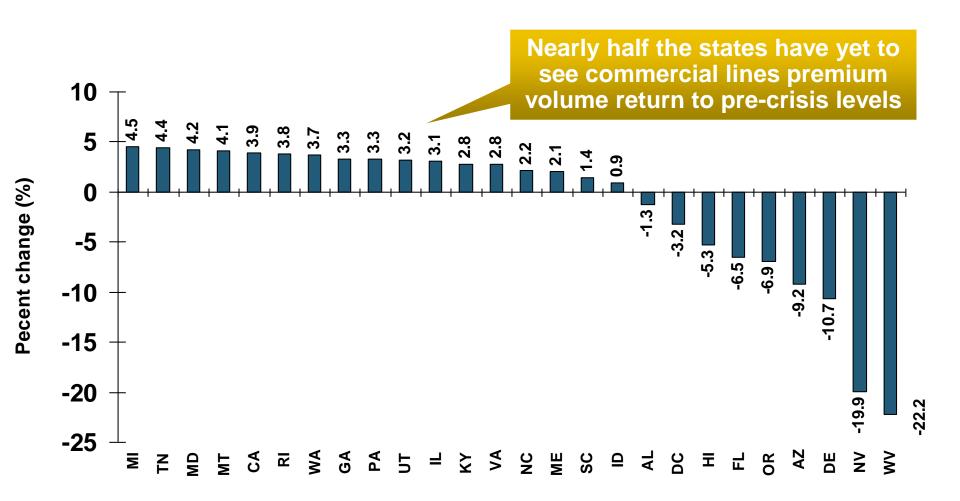


Sources: SNL Financial LLC.; Insurance Information Institute.

Direct Premiums Written: Comm. Lines Percent Change by State, 2007-2014



Bottom 25 States



Sources: SNL Financial LLC.; Insurance Information Institute.

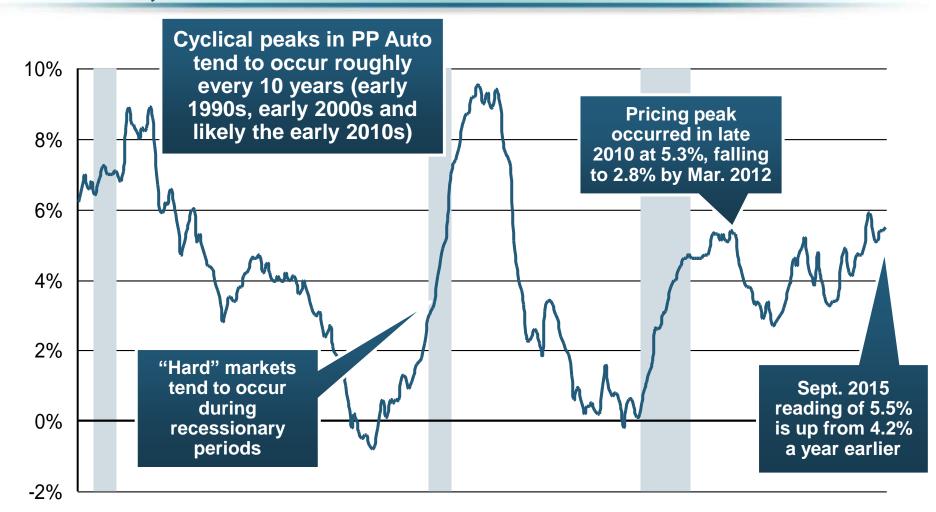


Pricing Trends

Personal Lines Pricing Is Up Survey Results Suggest Commercial Pricing Has Flattened Out

Monthly Change in Auto Insurance Prices, 1991–2015*





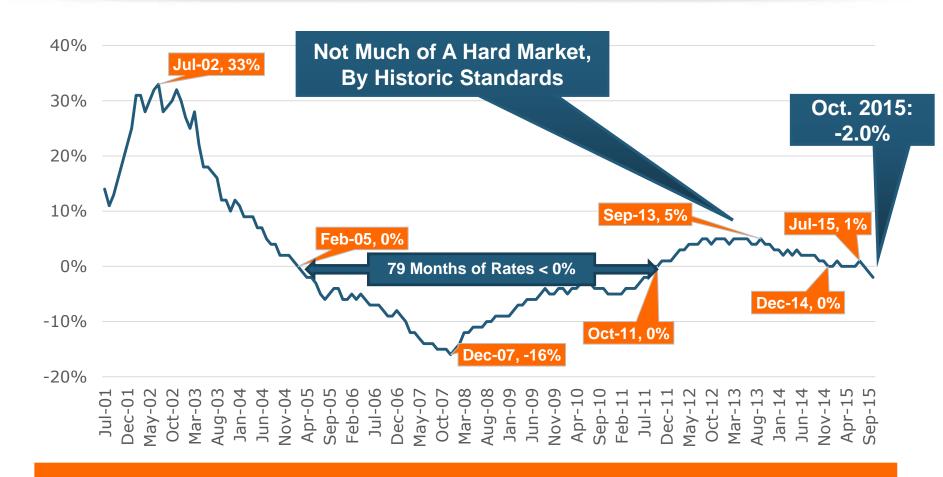
'90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15

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

^{*}Percentage change from same month in prior year; through Sept. 2015; seasonally adjusted Note: Recessions indicated by gray shaded columns.

Commercial Lines Rate Change by Month (vs. Year Earlier), July 2001 – Oct. 2015

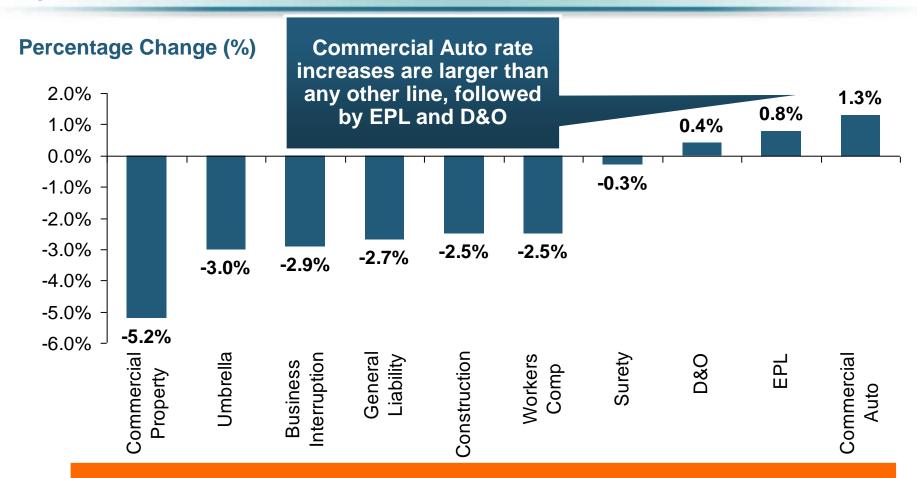




Commercial Insurance Rate Changes Are Flat to Slightly Down

Change in Commercial Rate Renewals, by Line: 2015:Q3

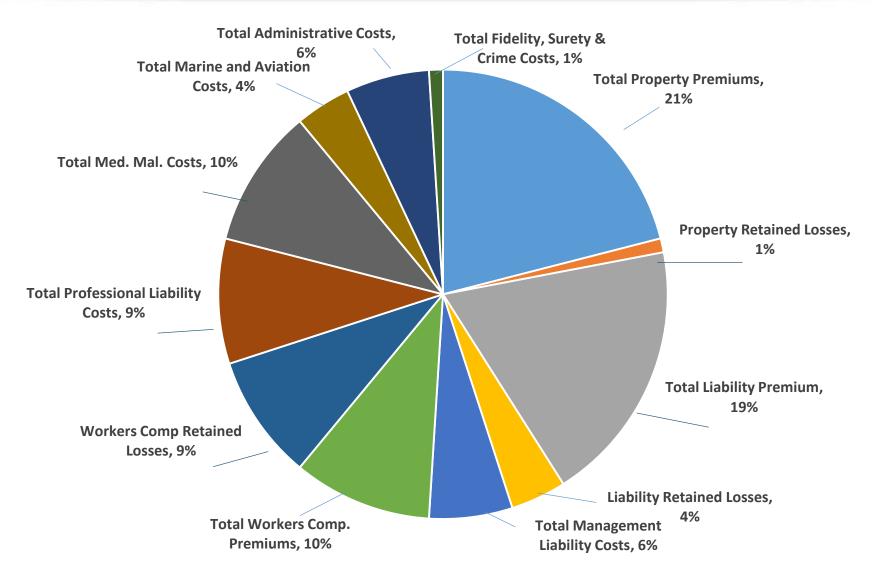




Major Commercial Lines Renewals Were Mixed to Down in Q3:2015; EPL, D&O and Commercial Saw Gains

How the Risk Dollar is Spent (U.S. Firms with Revenues Under \$1 Bill)



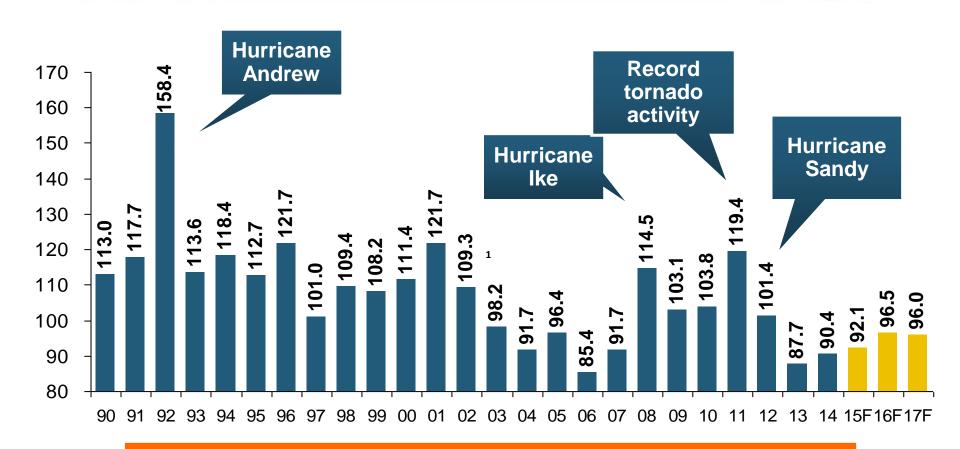




Underwriting Performance

Homeowners Insurance Combined Ratio: 1990–2017F

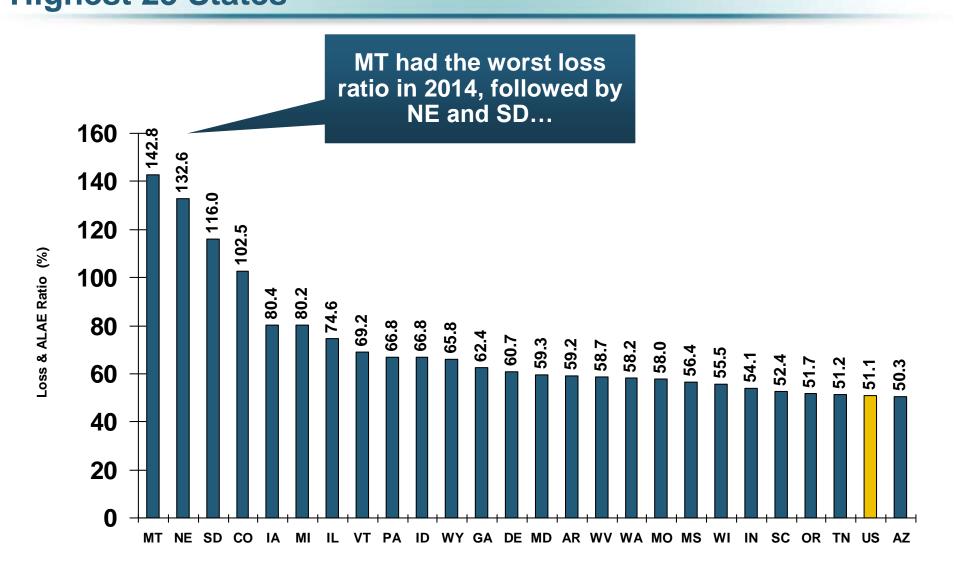




Homeowners Performance in 2011/12 Impacted by Large Cat Losses. Extreme Regional Variation Can Be Expected Due to Local Catastrophe Loss Activity

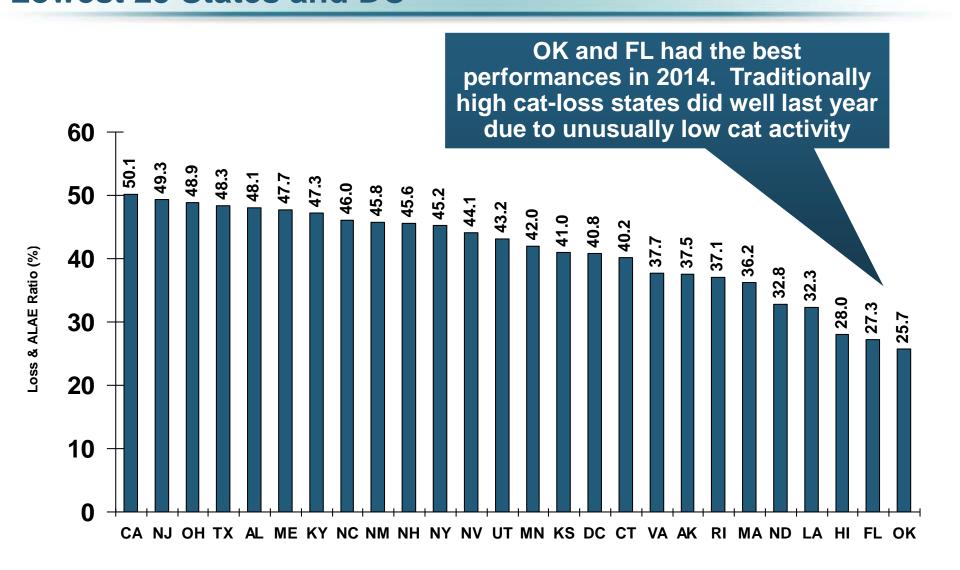
Homeowners Multi-Peril Loss & ALAE Ratio, 2014: Highest 25 States





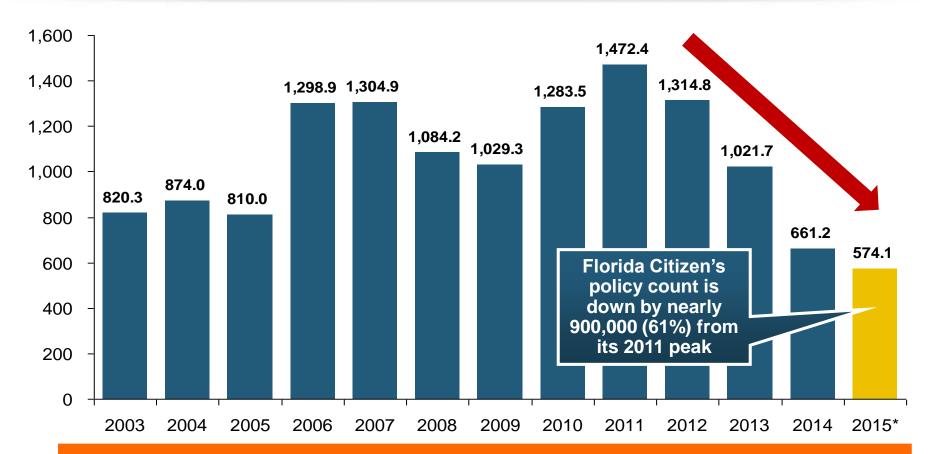
Homeowners Multi-Peril Loss & ALAE Ratio, 2014: The Lowest 25 States and DC





Florida Citizens Policy Count, 2003 – 2015* (Thousands)





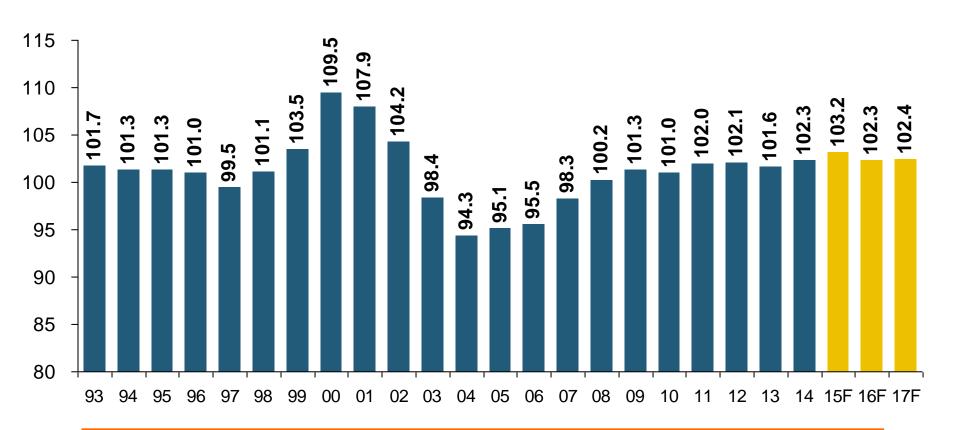
A lack of major hurricanes, ample private sector/reinsurer capital and capital market interest—combined with structural changes to Citizens—have combined to take Citizens policy count and exposure to their lowest levels in many years

Source: Florida Citizens https://www.citizensfla.com/about/bookofbusiness/; Insurance Information Institute (I.I.I.).

^{*}As of October 6, 2015. All other figures are as of Dec. 31.

Private Passenger Auto Combined Ratio: 1993–2017F



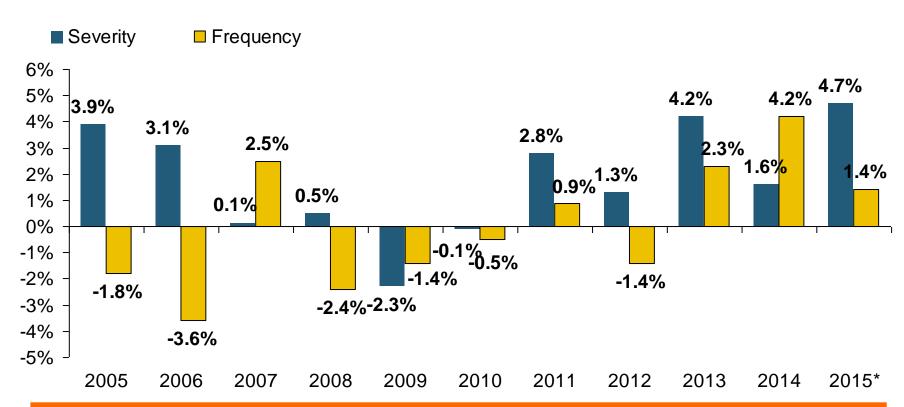


Private Passenger Auto Underwriitng Performance Is Exhibiting Remarkable Stability

Collision Coverage: Severity & Frequency Trends Are Both Higher in 2015*



Annual Change, 2005 through 2015*

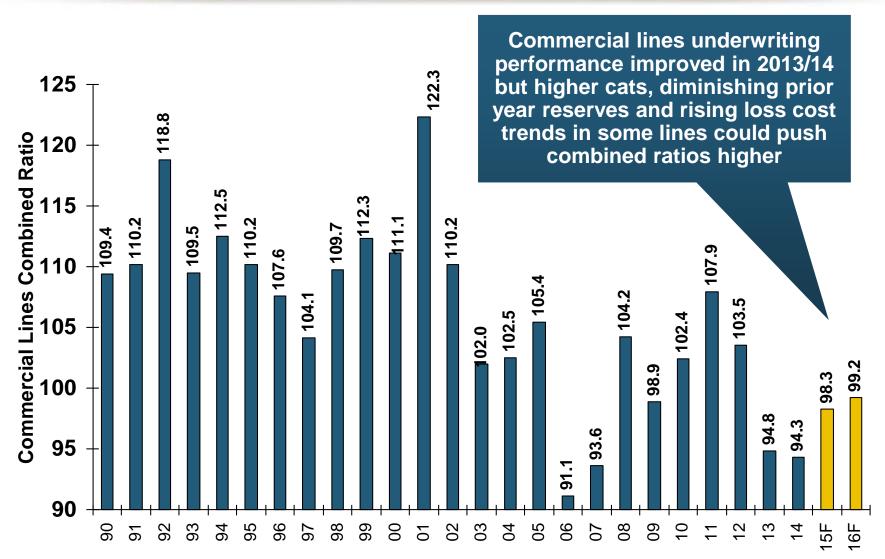


The Recession, High Fuel Prices Helped Temper Frequency and Severity, But this Trend Will Likely Be Reversed Based on Evidence from Past Recoveries

*2015 figure is for the 4 quarters ending with 2015:Q2. Source: ISO/PCI *Fast Track* data; Insurance Information Institute

Commercial Lines Combined Ratio, 1990-2016F*

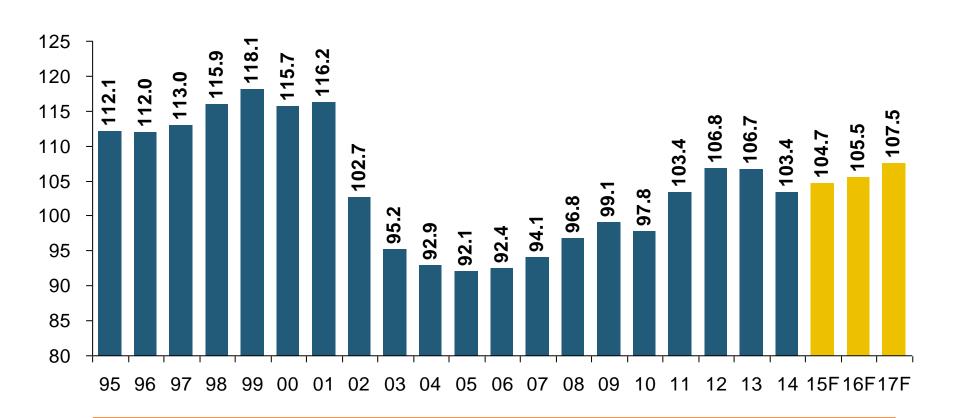




*2007-2012 figures exclude mortgage and financial guaranty segments. Source: A.M. Best (1990-2014); Conning (2015-16F) Insurance Information Institute.

Commercial Auto Combined Ratio: 1993–2017F

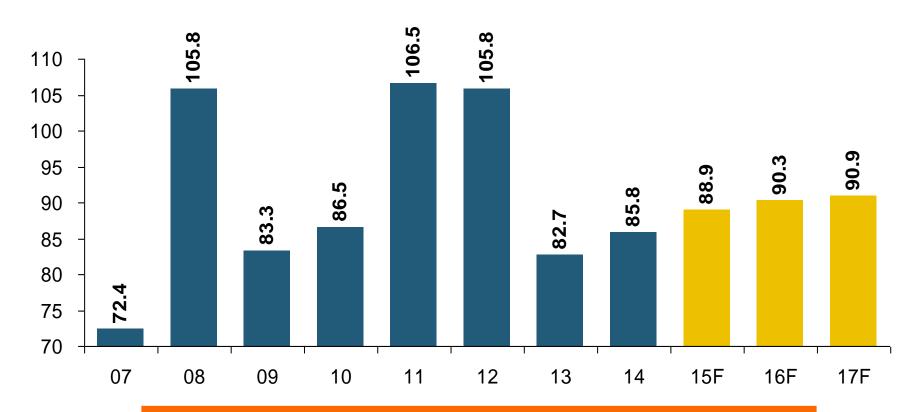




Commercial Auto is Expected to Improve Only Slowly as Rate Gains Barely Offset Adverse Frequency and Severity Trends

Commercial Property Combined Ratio: 2007–2017F

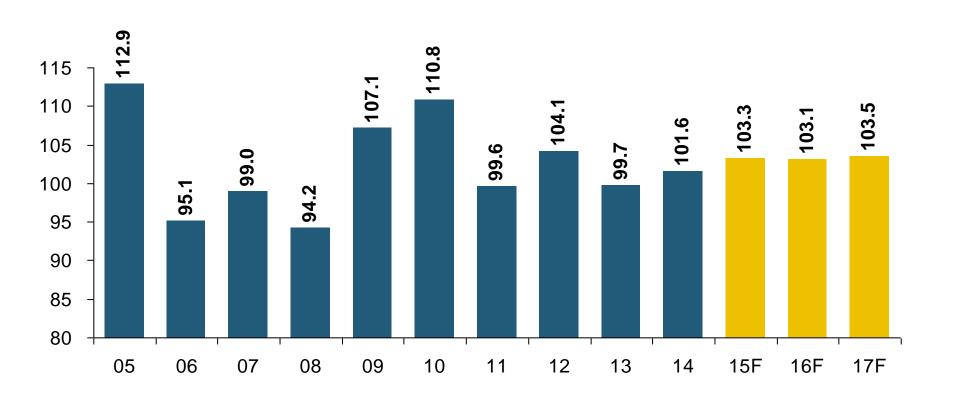




Commercial Property Underwriting Performance
Has Been Volatile in Recent Years, Largely Due to
Fluctuations in CAT Activity

General Liability Combined Ratio: 2005–2017F

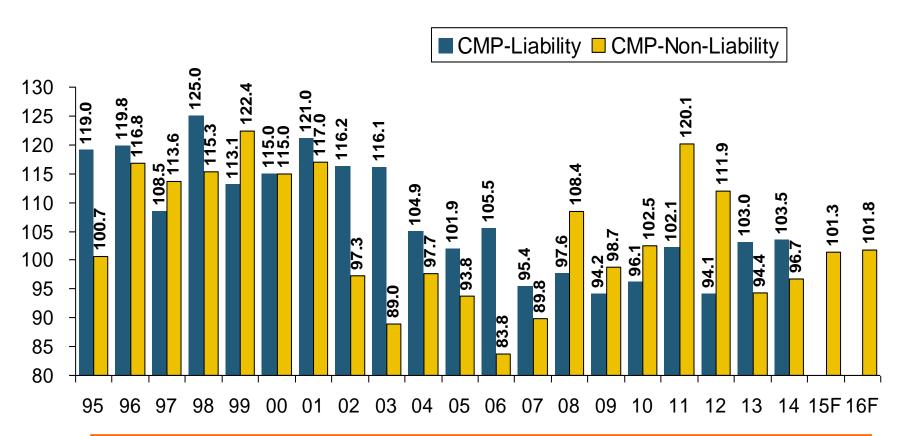




Commercial General Liability Underwriting Performance Has Been Volatile in Recent Years

Commercial Multi-Peril Combined Ratio: 1995–2016F



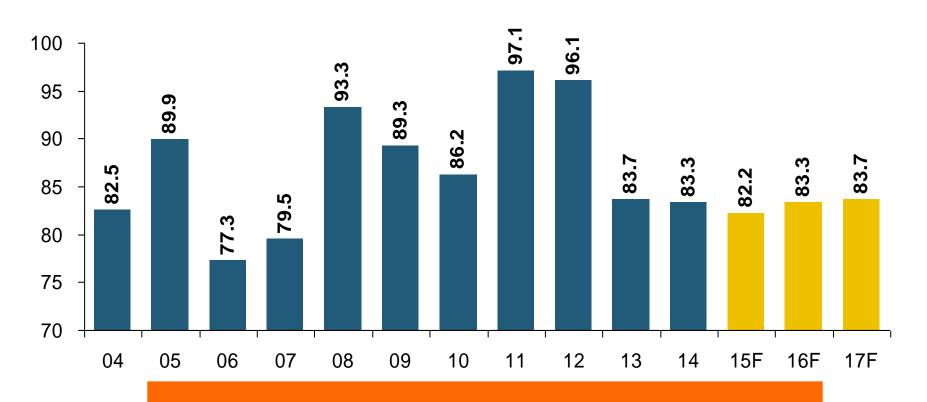


Commercial Multi-Peril Underwriting Performance is Expected to Remains Stable in 2015 Assuming Normal Catastrophe Loss Activity

^{*2015}F-2016F figures are Conning figures for the combined liability and non-liability components. Sources: A.M. Best; Conning; Insurance Information Institute.

Inland Marine Combined Ratio: 2004–2017F

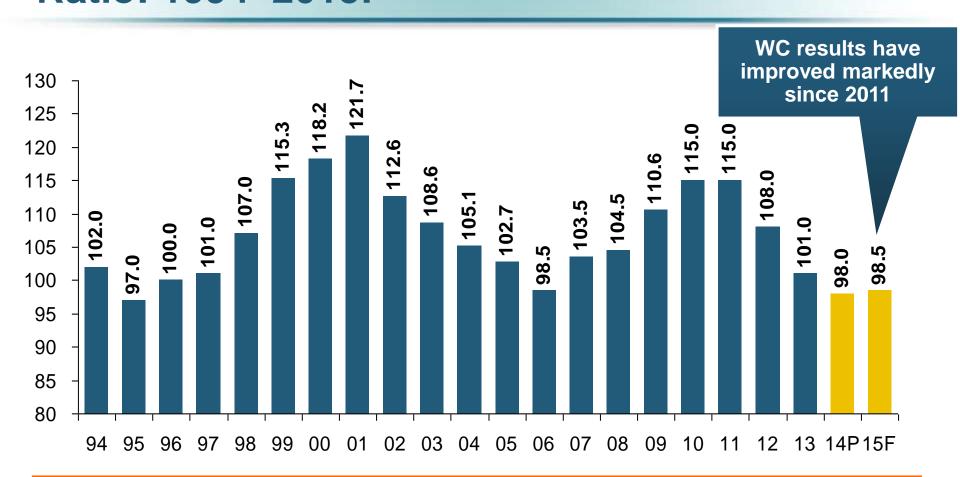




Inland Marine Underwriting Performance Has Been Consistently Strong for Many Years

Workers Compensation Combined Ratio: 1994–2015F





Workers Comp Results Began to Improve in 2012. Underwriting Results Deteriorated Markedly from 2007-2010/11 and Were the Worst They Had Been in a Decade.

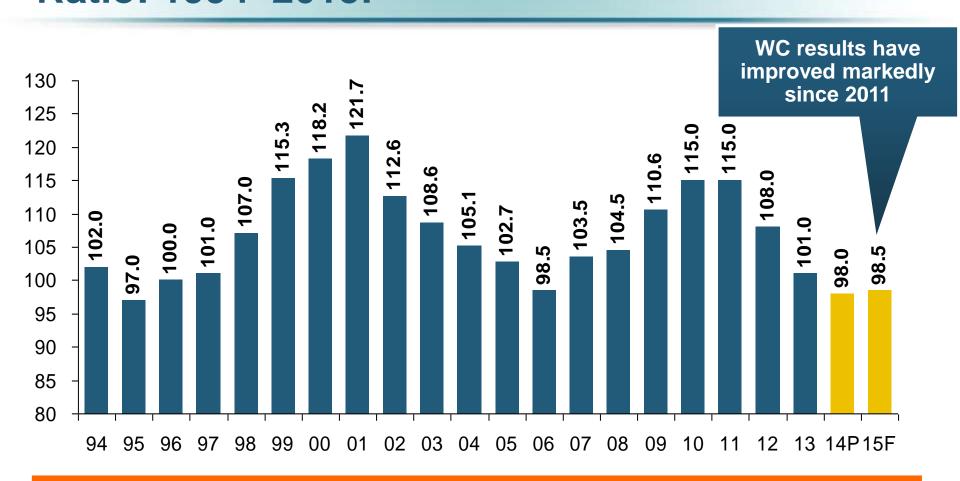


Workers Compensation Operating Environment

Workers Comp Results Have Improved Substantially in Recent Years

Workers Compensation Combined Ratio: 1994–2015F

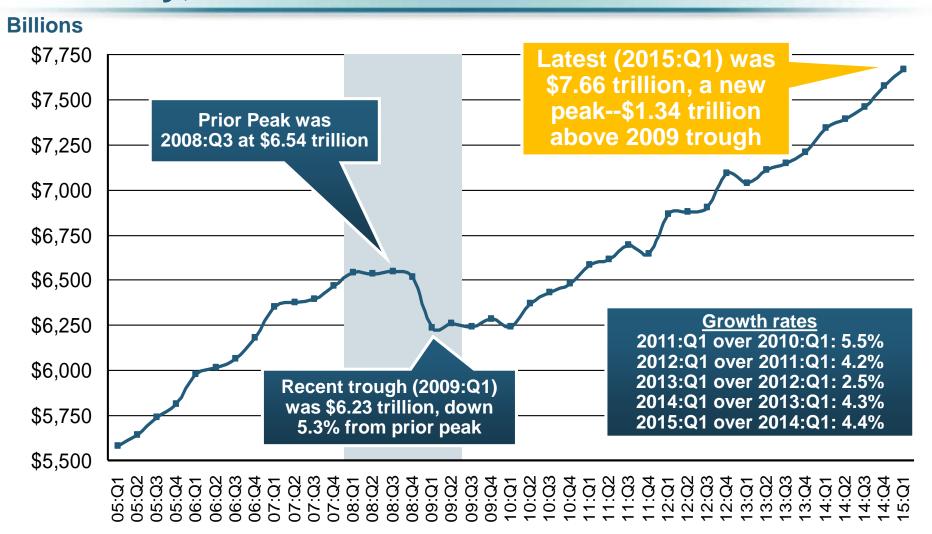




Workers Comp Results Began to Improve in 2012. Underwriting Results Deteriorated Markedly from 2007-2010/11 and Were the Worst They Had Been in a Decade.

Nonfarm Payroll (Wages and Salaries): Quarterly, 2005–2015:Q1



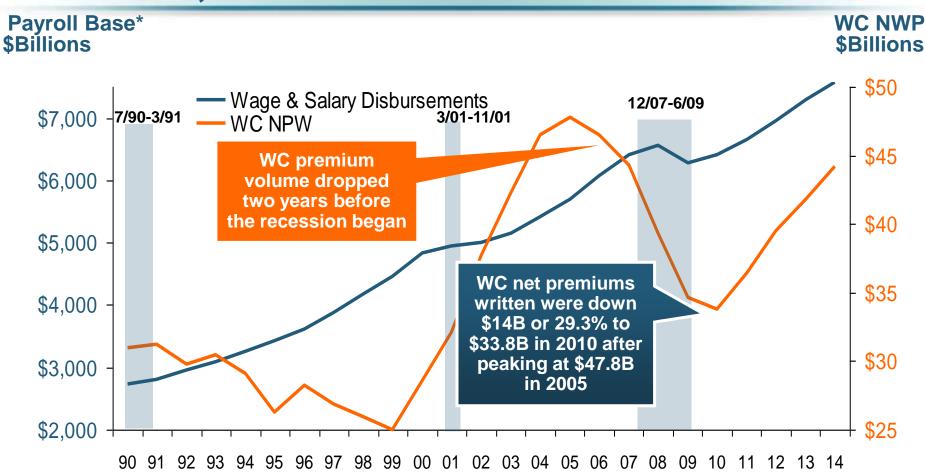


Note: Recession indicated by gray shaded column. Data are seasonally adjusted annual rates.

Sources: http://research.stlouisfed.org/fred2/series/WASCUR; National Bureau of Economic Research (recession dates); Insurance Information Institute.

Payroll vs. Workers Comp Net Written Premiums, 1990-2014P





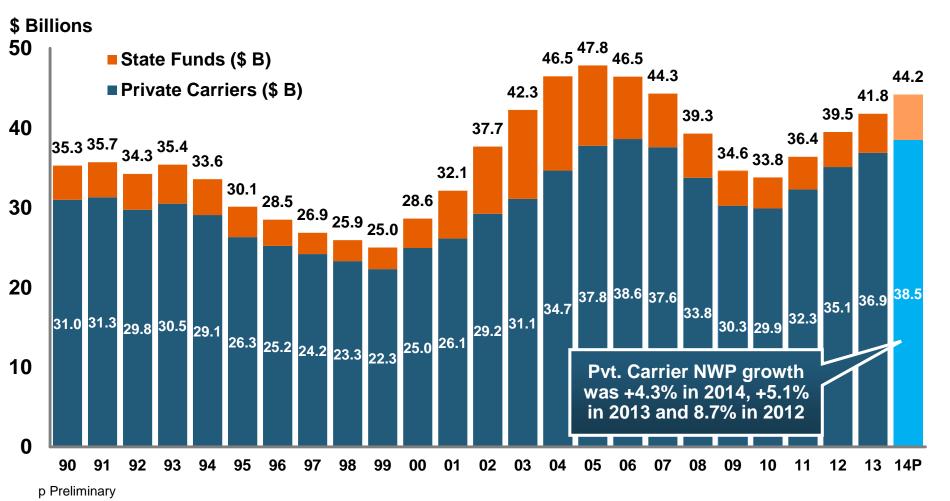
Continued Payroll Growth and Rate Gains Suggest WC NWP Will Grow Again in 2015

^{*}Private employment; Shaded areas indicate recessions. WC premiums for 2014 are from NCCI.
Sources: NBER (recessions); Federal Reserve Bank of St. Louis at http://research.stlouisfed.org/fred2/series/WASCUR; NCCI; I.I.I.

Workers Compensation Premium: Fourth Consecutive Year of Increase



Net Written Premium



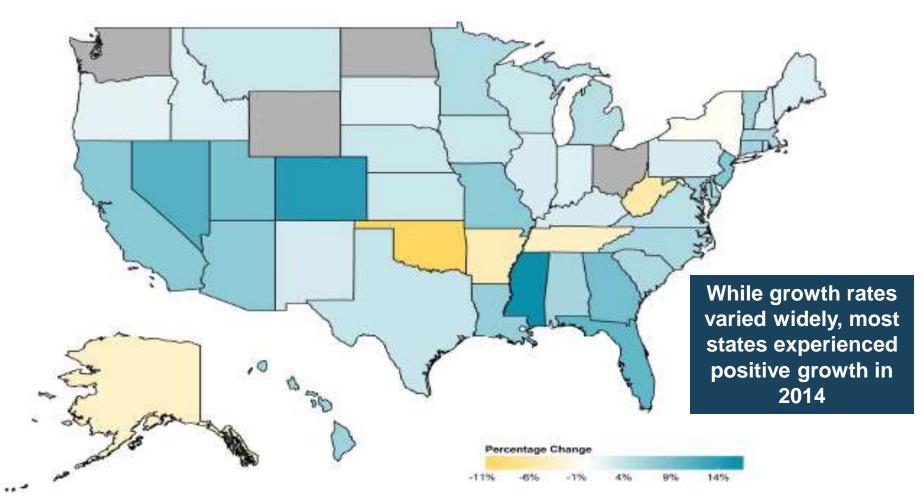
Source: NCCI from Annual Statement Data.

Includes state insurance fund data for the following states: AZ, CA, CO, HI, ID, KY, LA, MD, MO, MT, NM, OK, OR, RI, TX, UT. Each calendar year total for State Funds includes all funds operating as a state fund that year.

2014 Workers Compensation Direct Written Premium Growth, by State*



PRIVATE CARRIERS: Overall 2014 Growth = +4.6%



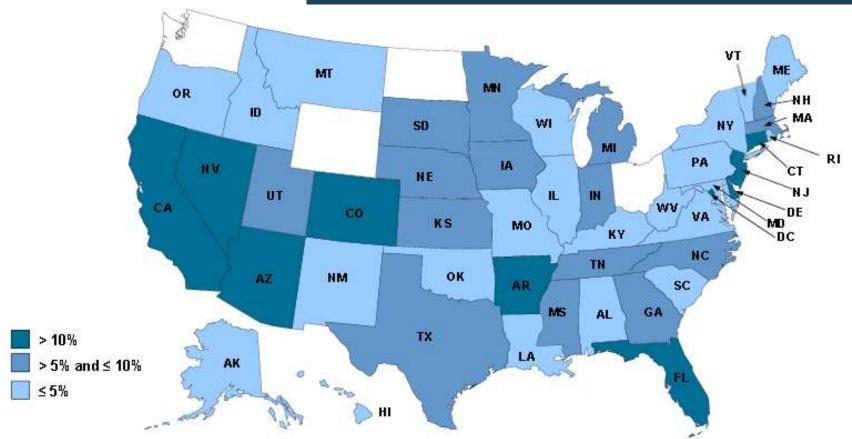
^{*}Excludes monopolistic fund states (in gray): OH, ND, WA and WY. Source: NCCI.

2013 Workers Compensation Direct Written Premium Growth, by State*



PRIVATE CARRIERS: Overall 2013 Growth = +5.4%





^{*}Excludes monopolistic fund states (in white): OH, ND, WA and WY. Source: NCCI.

Workers Compensation Components of Written Premium Change, 2013 to 2014



Written Premium Change from 2013 to 2014	
Net Written Premium—Countrywide	+4.6%
Direct Written Premium—Countrywide	+4.6%
Direct Written Premium—NCCI States	+4.5%
Components of DWP Change for NCCI States	
Change in Carrier Estimated Payroll	+4.7%
Change in Bureau Loss Costs and Mix	-1.4%
Change in Carrier Discounting	+0.4%
Change in Other Factors	+0.8%
Combined Effect	+4.5%

Growth is now almost entirely payroll driven

Sources: Countrywide: Annual Statement data.

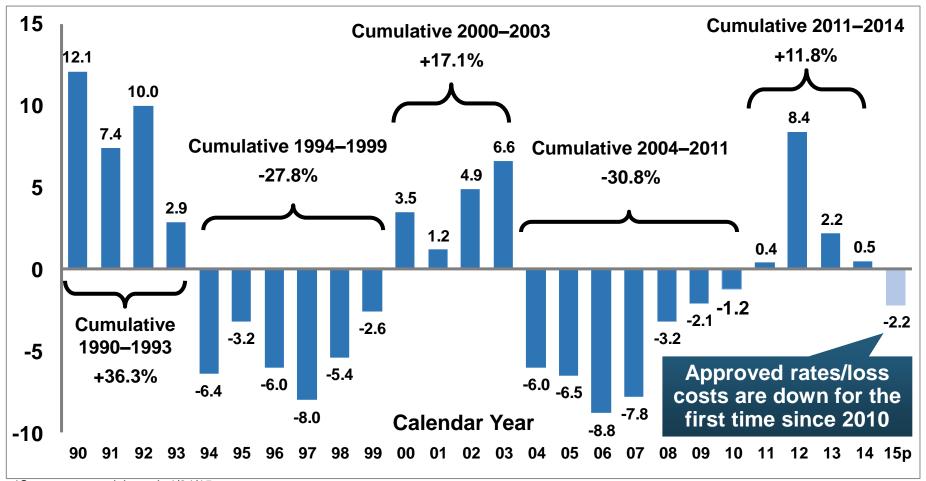
NCCI States: Annual Statement Statutory Page 14 for all states where NCCI provides ratemaking services.

Components: NCCI Policy data.

WC Approved Changes in Bureau Premium Level (Rates/Loss Costs)







^{*}States approved through 4/24/15.

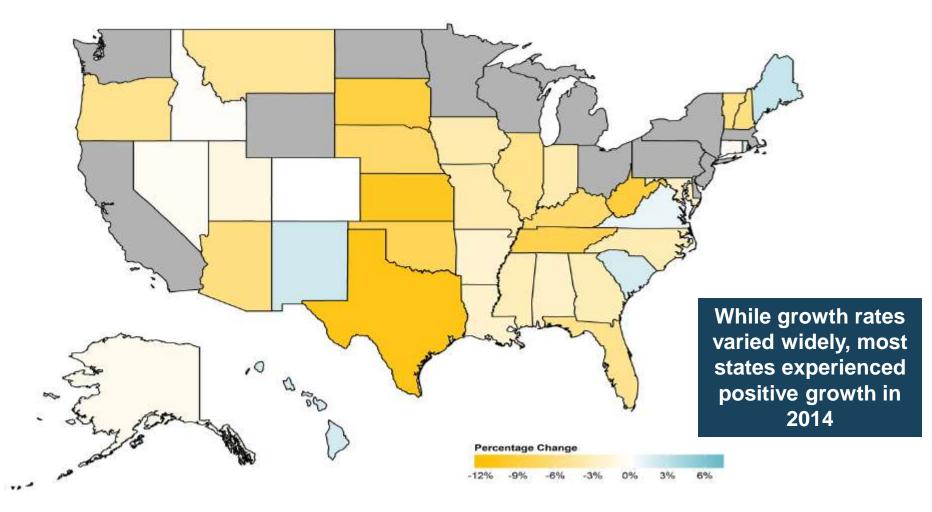
Note: Bureau premium level changes are countrywide approved changes in advisory rates, loss costs and assigned risk rates as filed by applicable rating organization, relative to those previously approved.

Source: NCCI.

WC Approved or Filed and Pending Change in NCCI Premium Level by State



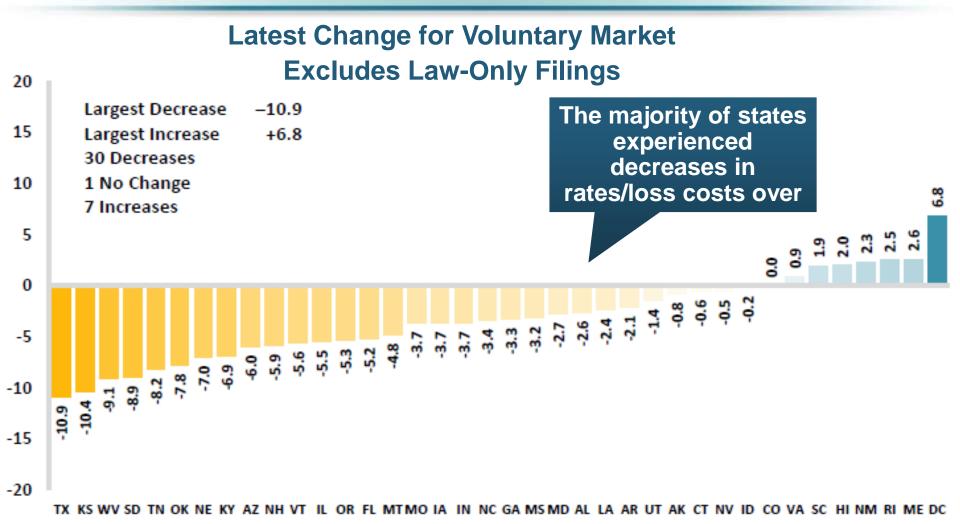
Latest Change for Voluntary Market



^{*}Excludes monopolistic fund states (in gray): OH, ND, WA and WY. Source: NCCI.

WC Approved or Filed and Pending Change in NCCI Premium Level by State



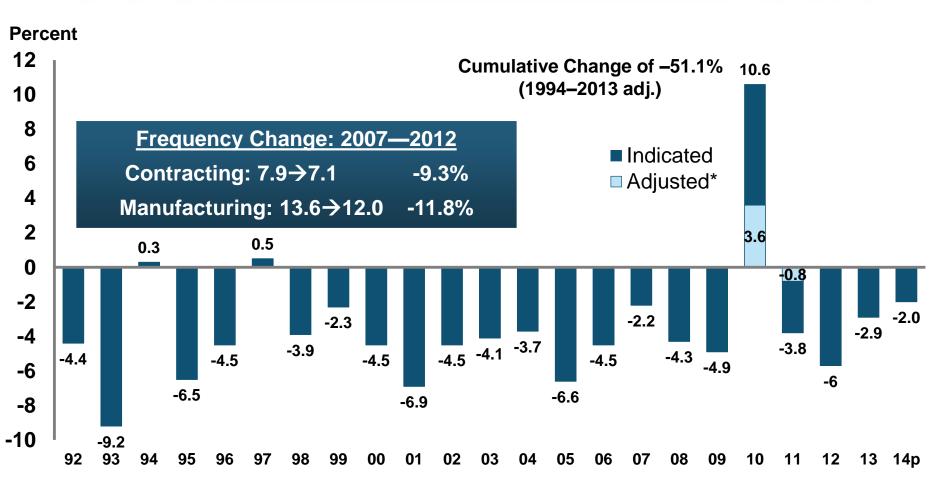


Note: Premium level changes are approved changes are approved or filed and pending changes in advisory rates, loss costs and rating values as of 4/24/15 as filed by applicable rating organization, relative to those previously approved. SC is filed and pending. IN and NC are in cooperation with state rating bureaus.

Source: NCCL

Workers Compensation Lost-Time Claim Frequency Declined in 2014





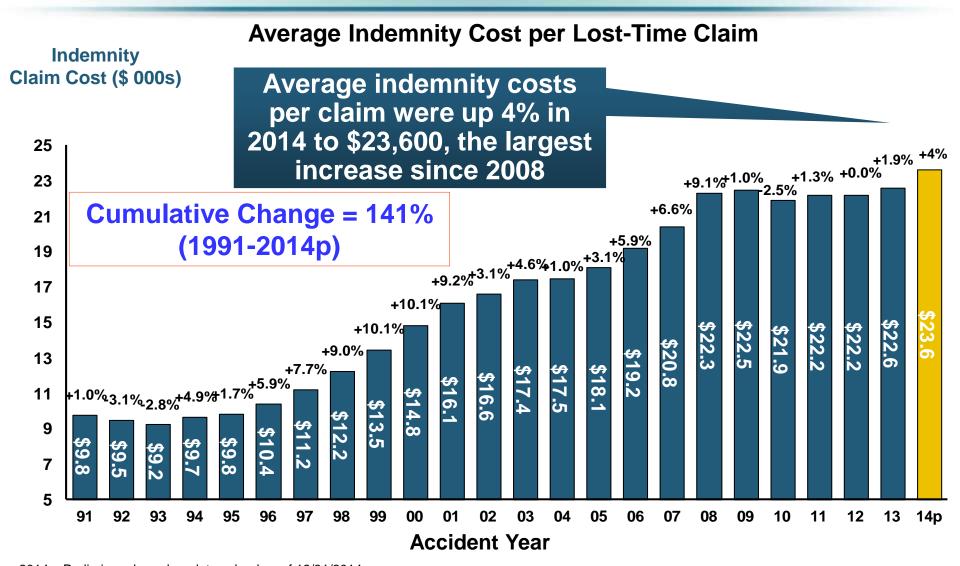
*Adjustments primarily due to significant audit activity. 2014p: Preliminary based on data valued as of 12/31/2014.

Accident Year

Source: NCCI Financial Call data, developed to ultimate and adjusted to current wage an voluntary loss cost level; Excludes high deductible policies; 1994-2013: Based on data through 12/31/13. Data for all states where NCCI provides ratemaking services, excluding WV. Frequency is the number of lost-time claims per \$1M pure premium at current wage and voluntary loss cost level

Workers Comp Indemnity Claim Costs: Modest Increase in 2014





2014p: Preliminary based on data valued as of 12/31/2014.

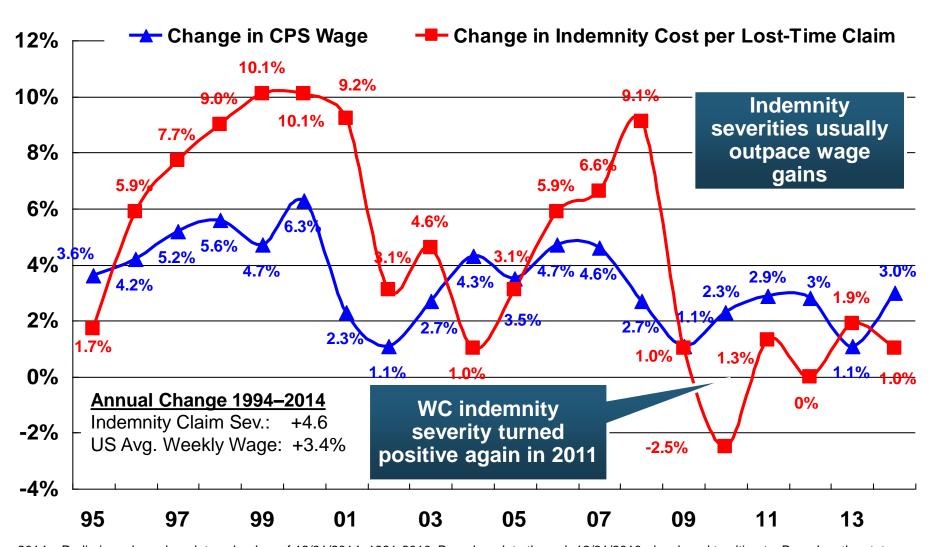
1991-2013: Based on data through 12/31/2013, developed to ultimate

Pased on the states where NCCI provides retempling sonices including state funds, evaluding W

Based on the states where NCCI provides ratemaking services including state funds, excluding WV; Excludes high deductible policies.

WC Indemnity Severity vs. Wage Inflation, 771



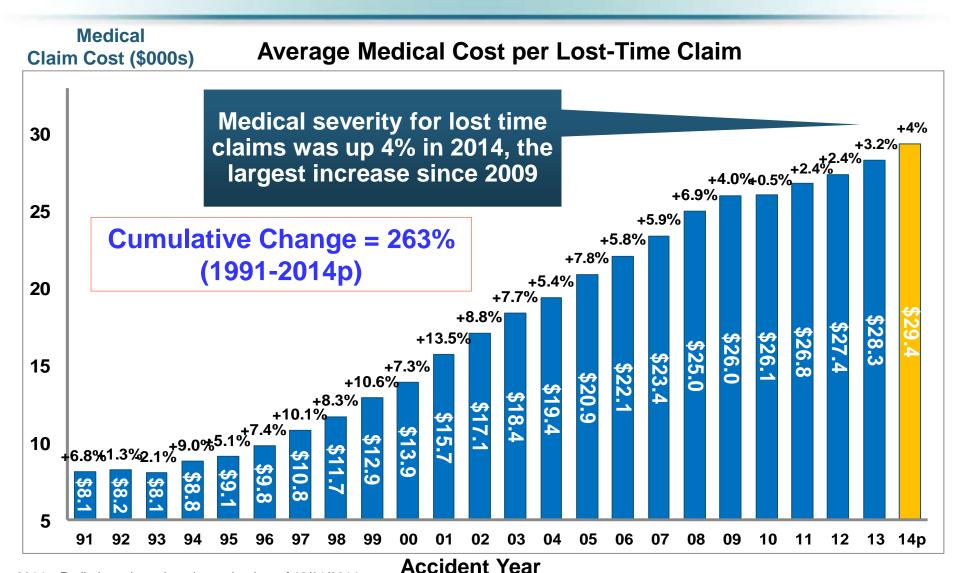


2014p: Preliminary based on data valued as of 12/31/2014; 1991-2010: Based on data through 12/31/2010, developed to ultimate. Based on the states where NCCI provides ratemaking services. Excludes the effects of deductible policies. CPS = Current Population Survey.

Source: NCCI

Workers Compensation Medical Severity: Moderate Increase in 2014





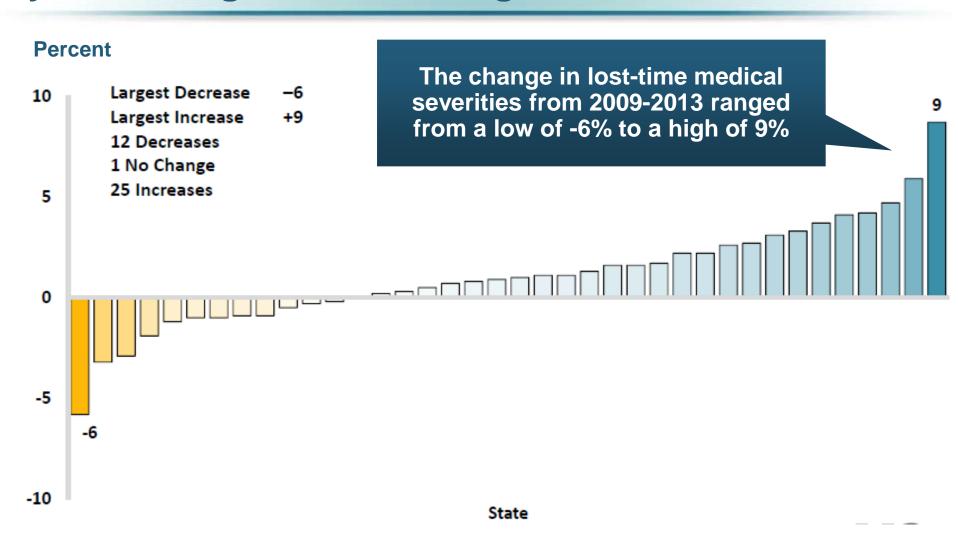
2014p: Preliminary based on data valued as of 12/31/2014.

1991-2013: Based on data through 12/31/2013, developed to ultimate

Based on the states where NCCI provides ratemaking services including state funds, excluding WV; Excludes high deductible policies.

Workers Comp Change in Medical Severity by State, Avg. Annual Change, 2009-2013



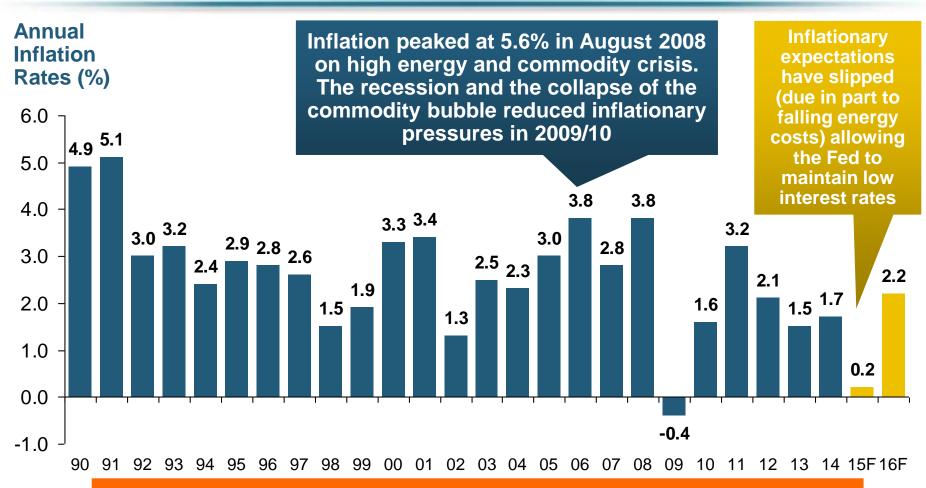


Source: NCCI's Analysis of Frequency and Severity of Claims Across the Country as of 12/31/13 on ncci.com. Values reflect methodology and state data underlying the most recent rate/lost cost filing.

TX changes are for the years 2010-2013.

Annual Inflation Rates, (CPI-U, %), 1990–2016F





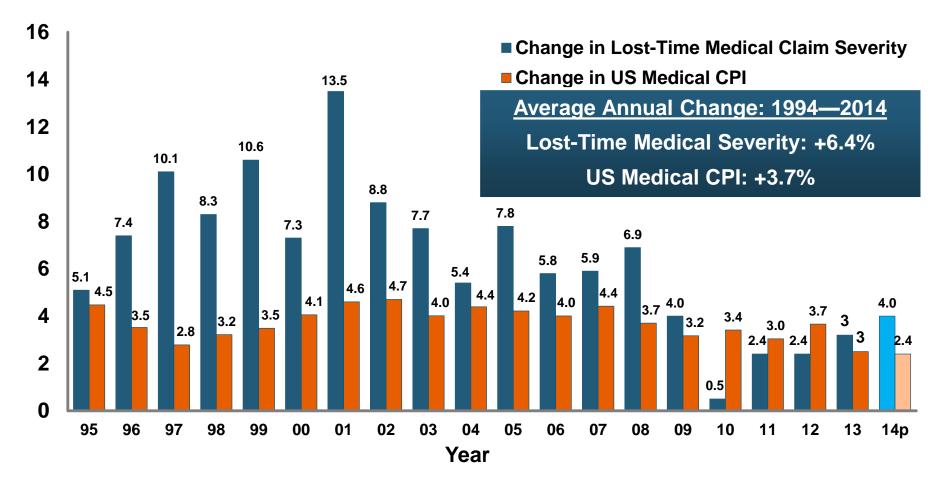
Slack in the U.S. economy and falling energy prices suggests that inflationary pressures should remain subdued for an extended period of times

Workers Compensation Change in Medical Severity



Comparison to Change in Medical Consumer Price Index (CPI)

Percent Change



2014p: Preliminary based on data valued as of 12/31/2014.

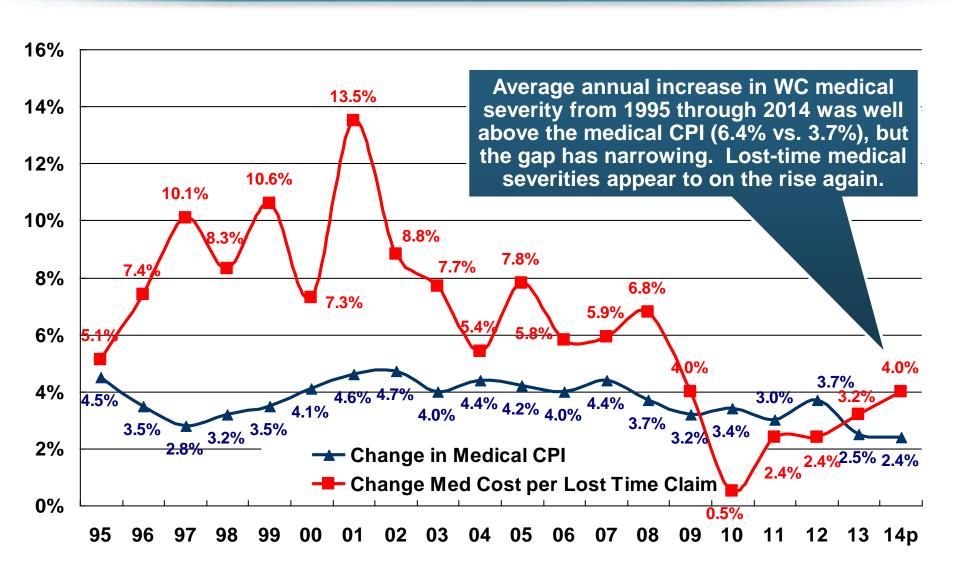
Sources: Severity: 995-2013: Based on data through 12/31/2013, developed to ultimate

Based on the states where NCCI provides ratemaking services including state funds, excluding WV; Excludes high deductible policies.

US Medical CPI: US Bureau of Labor Statistics.

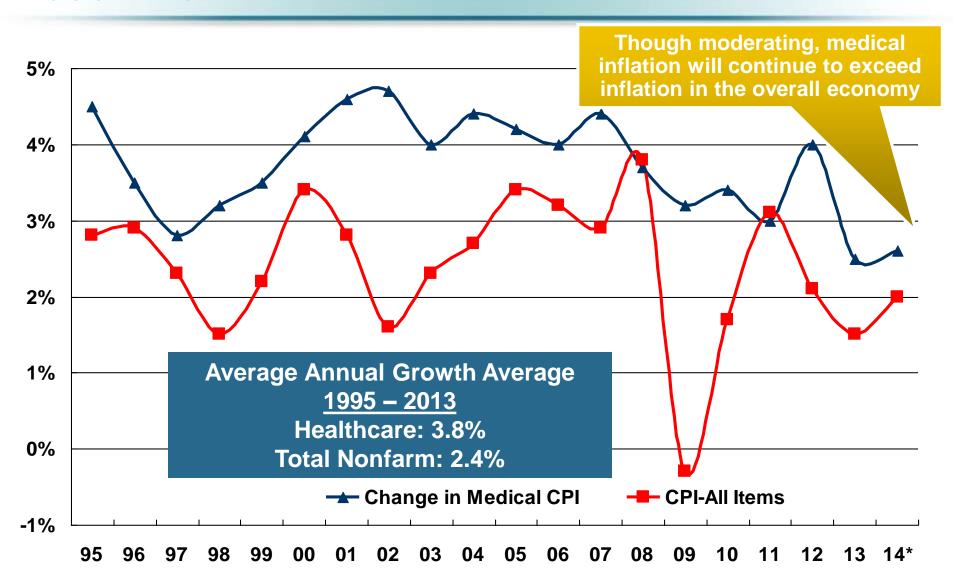
WC Medical Severity Generally Outpaces the Medical CPI Rate





Medical Cost Inflation vs. Overall CPI, 1995 – 2014*



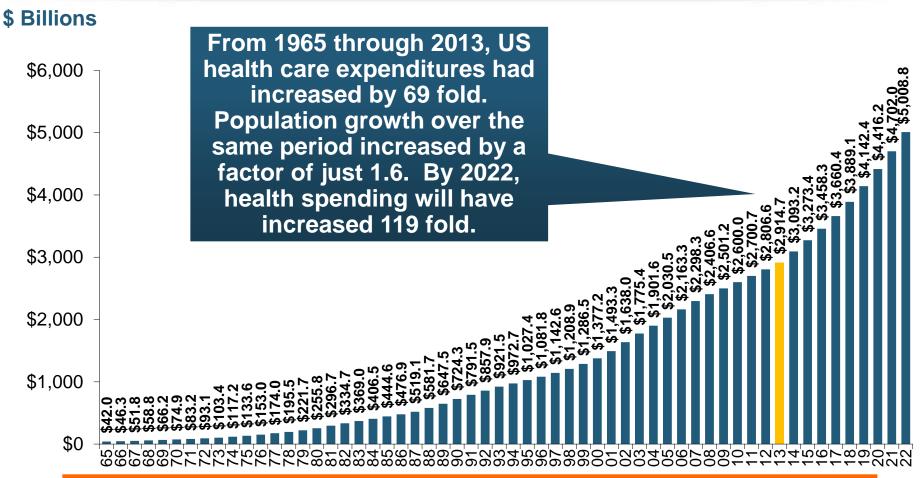


^{*}July 2014 compared to July 2013.

Sources: Med CPI from US Bureau of Labor Statistics, WC med severity from NCCI based on NCCI states.

U.S. Health Care Expenditures, 1965–2022F



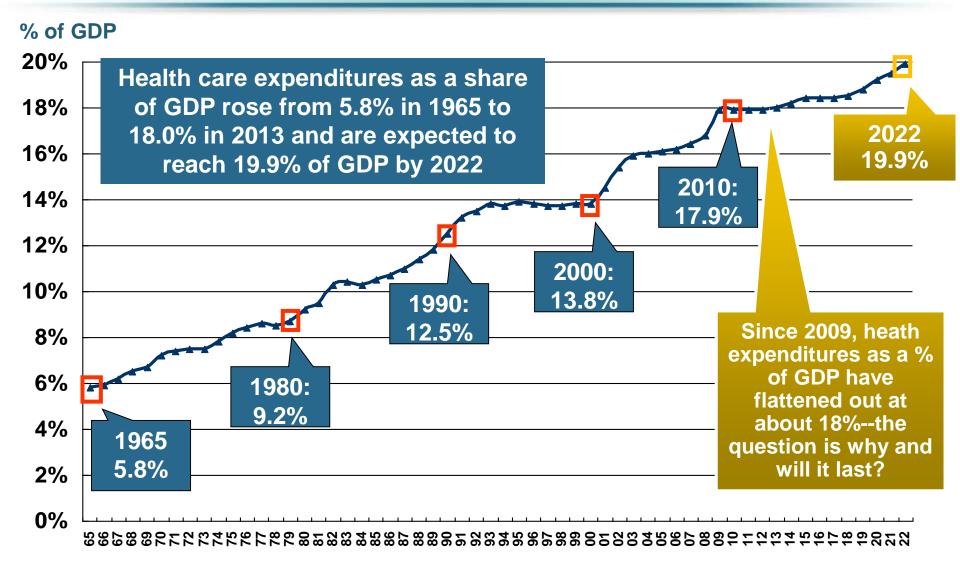


U.S. health care expenditures have been on a relentless climb for most of the past half century, far outstripping population growth, inflation of GDP growth

Sources: Centers for Medicare & Medicaid Services, Office of the Actuary at <a href="http://www.cms.gov/Research-Statistics-Data-and-Systems/S

National Health Care Expenditures as a Share of GDP, 1965 – 2022F*





Sources: Centers for Medicare & Medicaid Services, Office of the Actuary at http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/NationalHealthExpendData/NationalHealthAccountsProjected.html accessed 3/14/14; Insurance Information Institute.

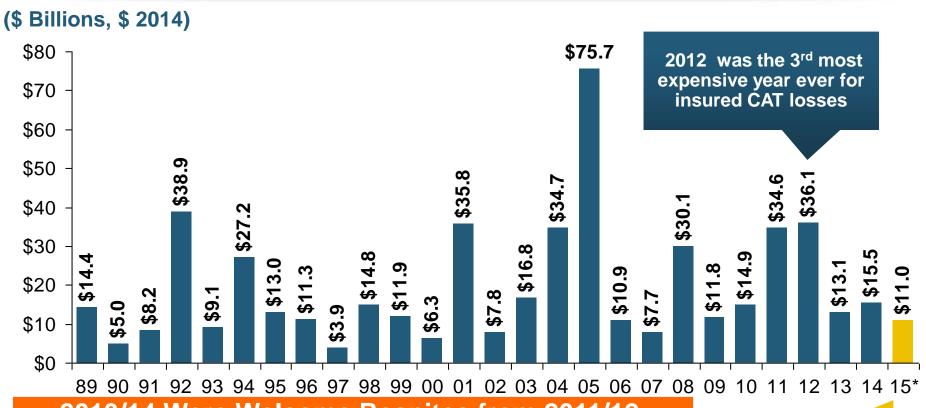


Insured Catastrophe Losses

2013/14 and YTD 2015 Experienced Below Average CAT Activity After Very High CAT Losses in 2011/12 Winter Storm Losses Far Above Average in 2014 and 2015

U.S. Insured Catastrophe Losses





2013/14 Were Welcome Respites from 2011/12, among the Costliest Years for Insured Disaster Losses in US History. Longer-term Trend is for more—not fewer—Costly Events

\$11.0B in insured CAT losses though 9/30/15

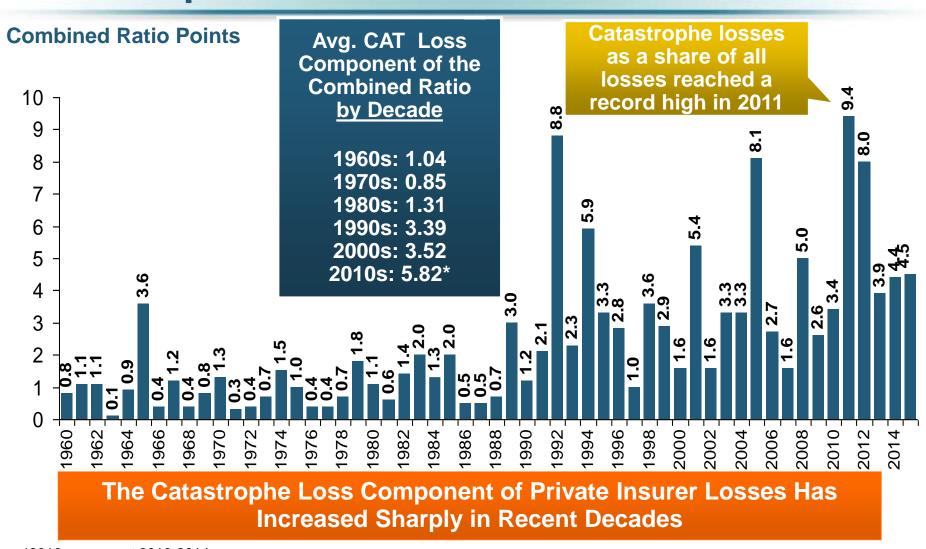
Note: 2001 figure includes \$20.3B for 9/11 losses reported through 12/31/01 (\$25.9B 2011 dollars). Includes only business and personal property claims, business interruption and auto claims. Non-prop/BI losses = \$12.2B (\$15.6B in 2011 dollars.)

Sources: Property Claims Service/ISO; Insurance Information Institute.

^{*}Through 9/30/15 in 2015 dollars.

Combined Ratio Points Associated with Catastrophe Losses: 1960 – 2015F*





^{*2010}s represent 2010-2014.

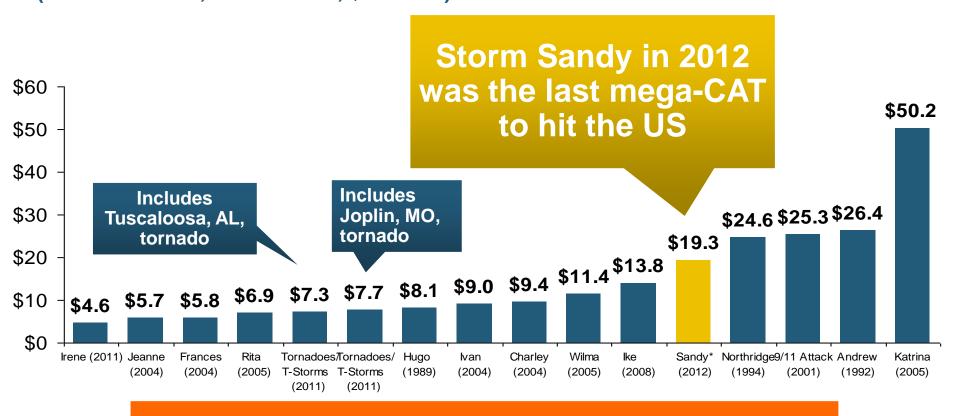
Notes: Private carrier losses only. Excludes loss adjustment expenses and reinsurance reinstatement premiums. Figures are adjusted for losses ultimately paid by foreign insurers and reinsurers.

Source: ISO (1960-2010); A.M. Best (2011-15E) Insurance Information Institute.

Top 16 Most Costly Disasters in U.S. History—Katrina Still Ranks #1



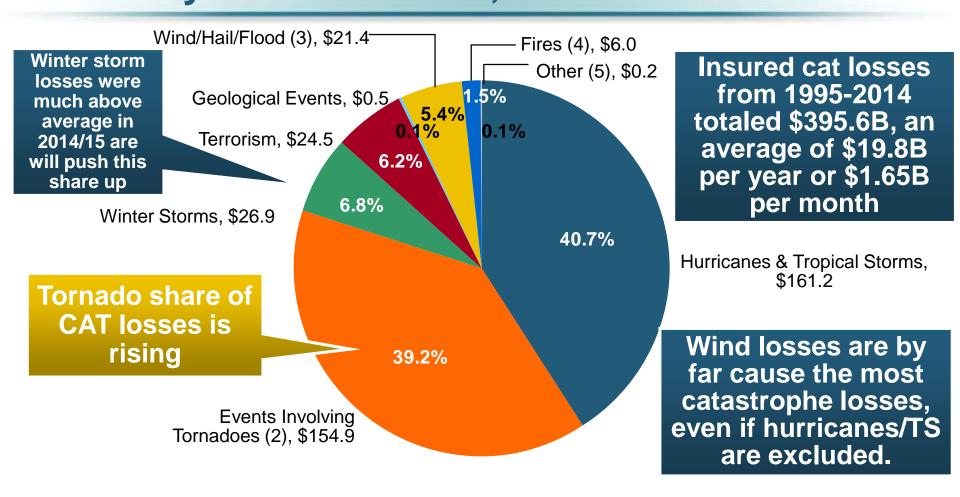
(Insured Losses, 2014 Dollars, \$ Billions)



12 of the 16 Most Expensive Events in US History
Have Occurred Since 2004

Inflation Adjusted U.S. Catastrophe Losses by Cause of Loss, 1995–2014¹



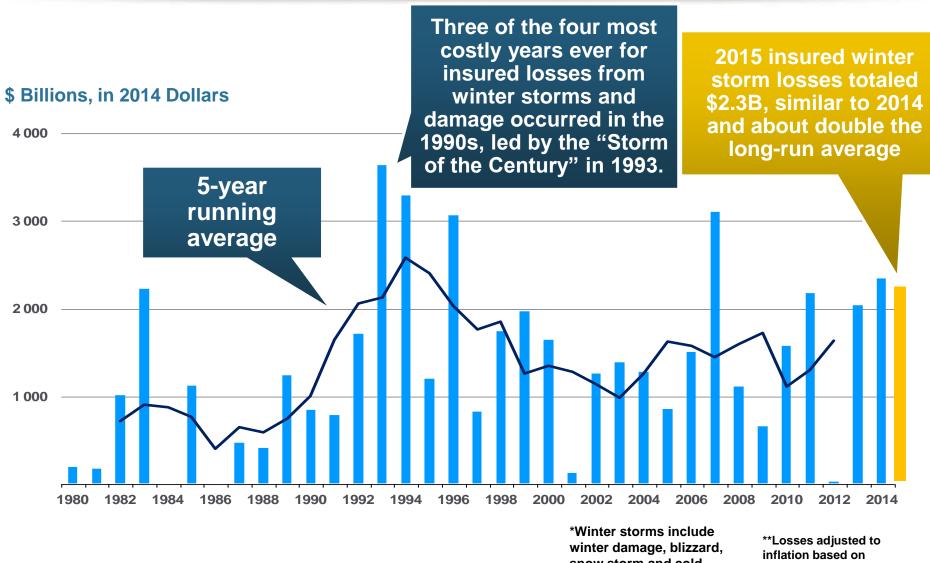


- 1. Catastrophes are defined as events causing direct insured losses to property of \$25 million or more in 2014 dollars.
- 2. Excludes snow.
- 3. Does not include NFIP flood losses
- Includes wildland fires
- 5. Includes civil disorders, water damage, utility disruptions and non-property losses such as those covered by workers compensation.

Source: ISO's Property Claim Services Unit.

Winter Storm and Winter Damage Events in the US, 1980-2015 (2014 US\$)





Source: Property Claim Services, MR NatCatSERVICE.

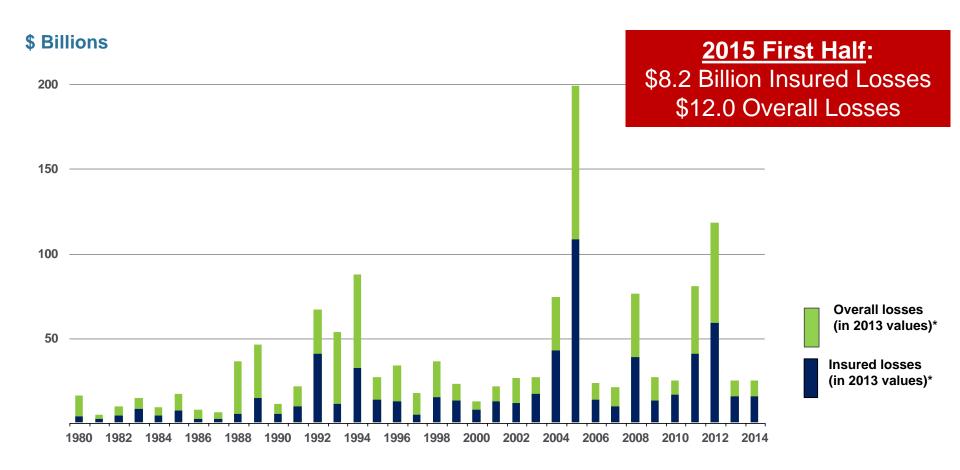
snow storm and cold country CPI

wave

Loss Events in the US, 1980 – 2014 Overall and Insured Losses

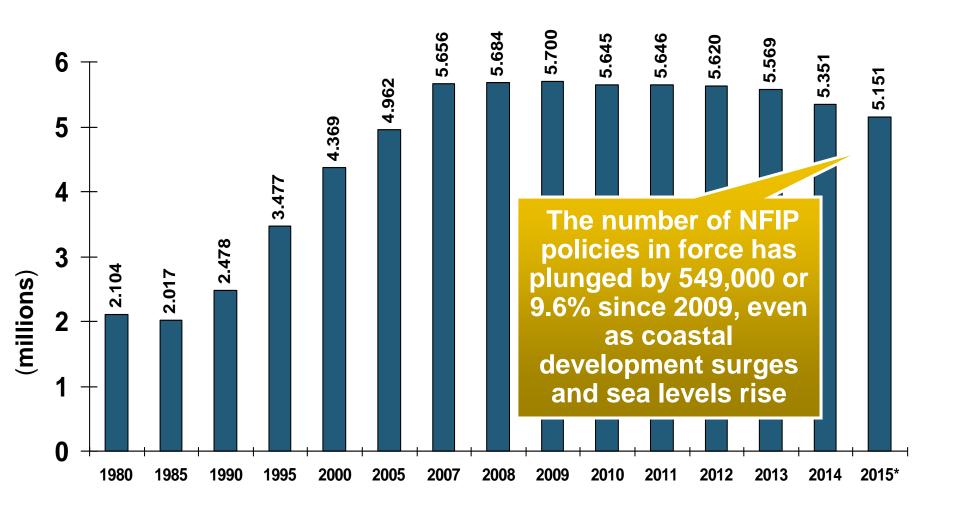


Overall losses totaled \$25bn; Insured losses totaled \$15.3bn



Number of National Flood Insurance Program Policies in Force at Year-End, 1980-2015*





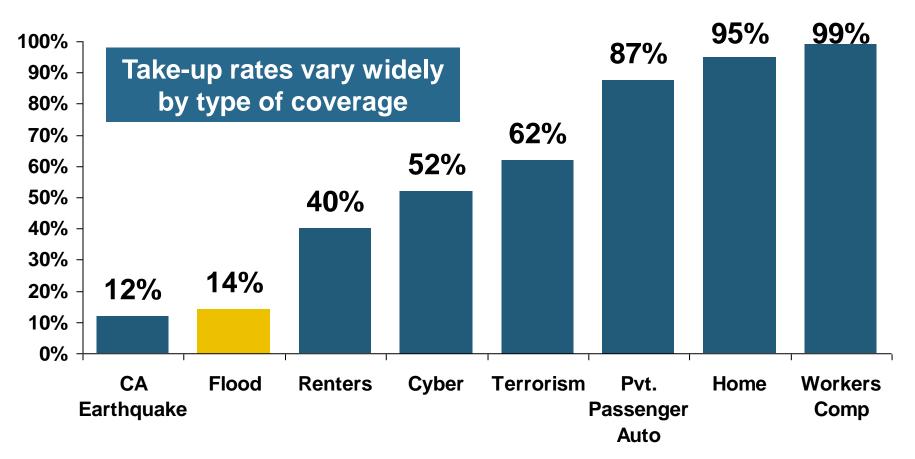
Source: National Flood Insurance Program.

^{*} As of July, 2015

Take-Up Rates for Various Types of Insurance in the U.S.



Take-Up Rate



Sources: CA Earthquake (WSJ, http://www.wsj.com/articles/california-pushes-homeowners-to-insure-against-earthquakes-1440980138); Flood and Renters (I.I.I. June 2015 Pulse Survey); Cyber (Advisen, 2015); Terrorism (Marsh Global Analytics, 2014 Terrorism Risk Insurance Report, April 2014; data for 2013); Pvt. Passenger Auto (Insurance Research Council, Uninsured Motorists, 2014 Edition, data for 2012); Home and Workers Comp (I.I.I. estimates); Insurance Information Institute research.

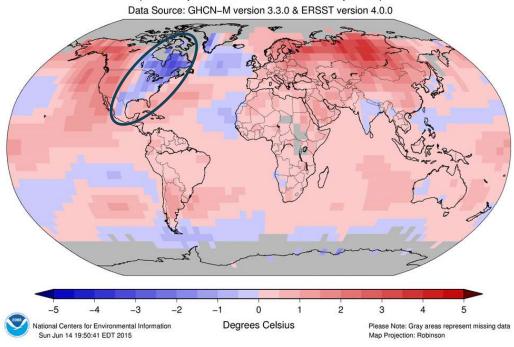
The World is Warmer...With One Big Exception!



HIGHLIGHTS

- 2014 was the warmest year across global land and ocean surfaces since records began in 1880.
- 9 of the 10 warmest years in the 135-year period of record have occurred in the 21st century. 1998 currently ranks as the fourth warmest year on record.
- 2015 will likely also be one of the warmest years on record as well

Land & Ocean Temperature Departure from Average Jan–May 2015 (with respect to a 1981–2010 base period)



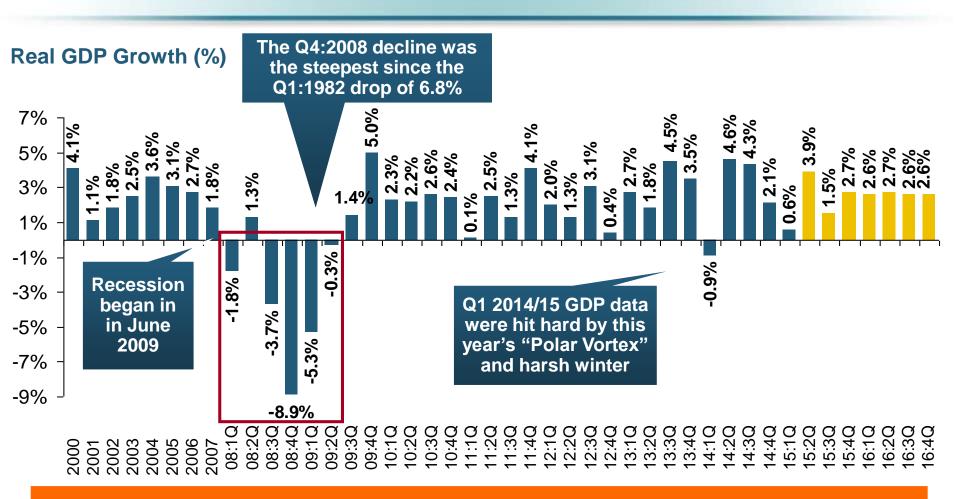


THE ECONOMY

The Strength of the Economy Will Greatly Influence Insurer Exposure Base Across Most Lines

US Real GDP Growth*



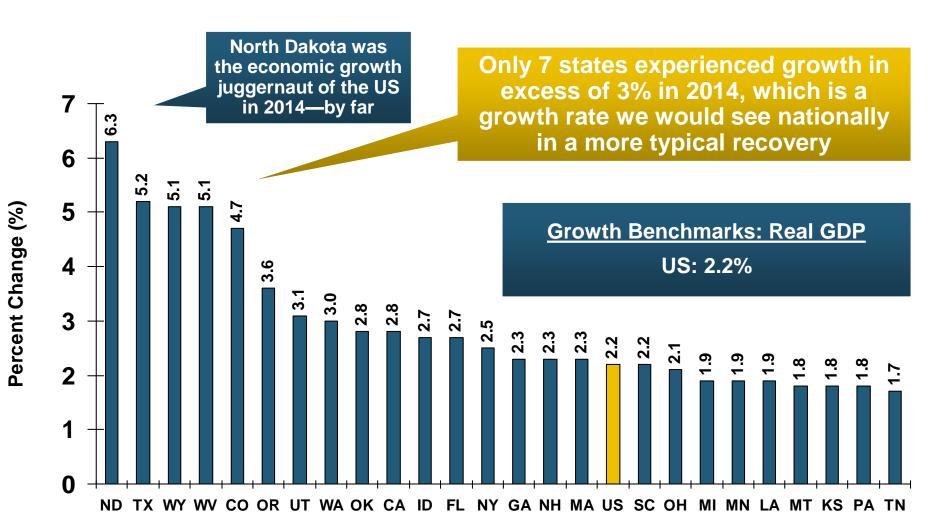


Demand for Insurance Should Increase in 2016 as GDP Growth Continues at a Steady, Albeit Moderate Pace and Gradually Benefits the Economy Broadly

^{*} Estimates/Forecasts from Blue Chip Economic Indicators.

Real GDP by State Percent Change, 2014*: Highest 25 States

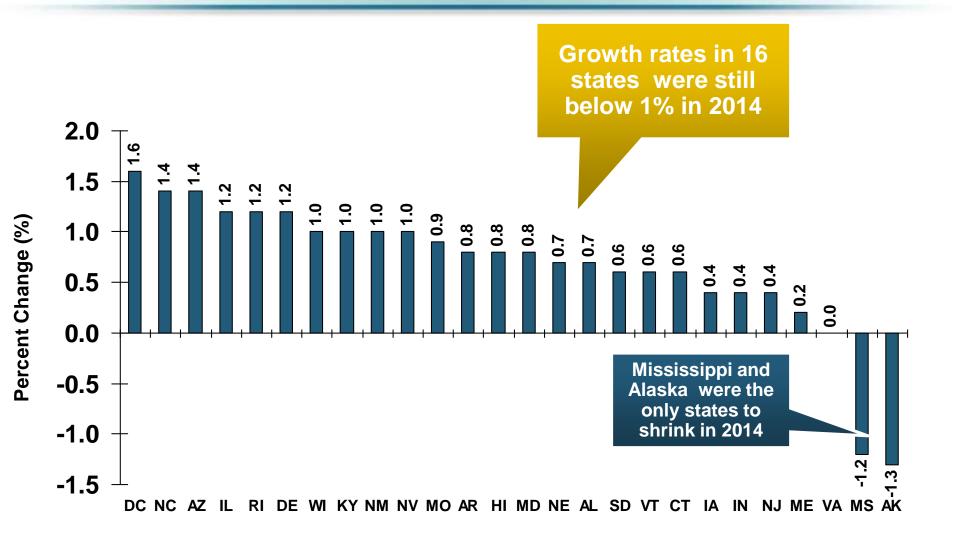




^{*}Advance statistics

Real GDP by State Percent Change, 2014*: Lowest 25 States

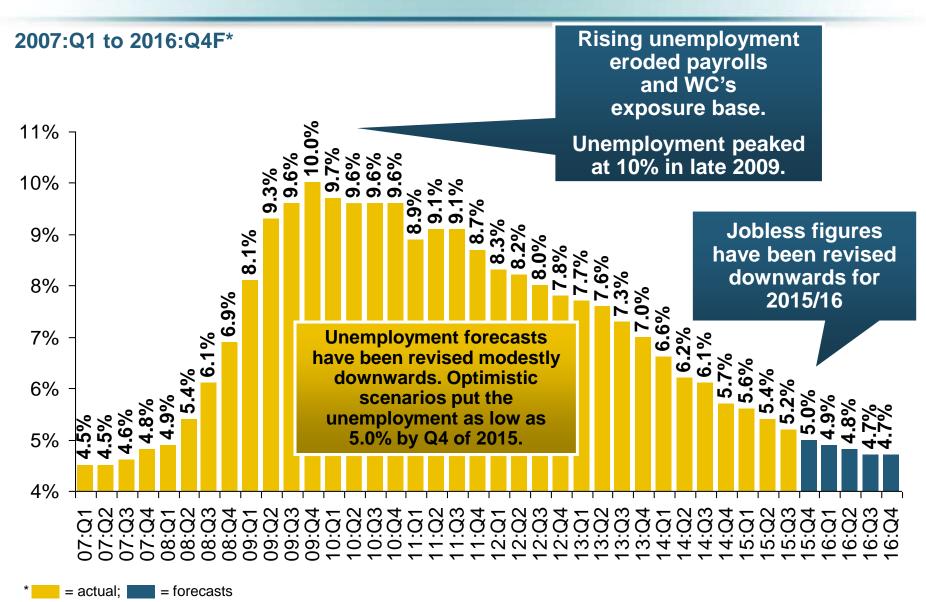




^{*}Advance statistics
Sources: <u>US Bureau of Economic Analysis</u>; Insurance Information Institute.

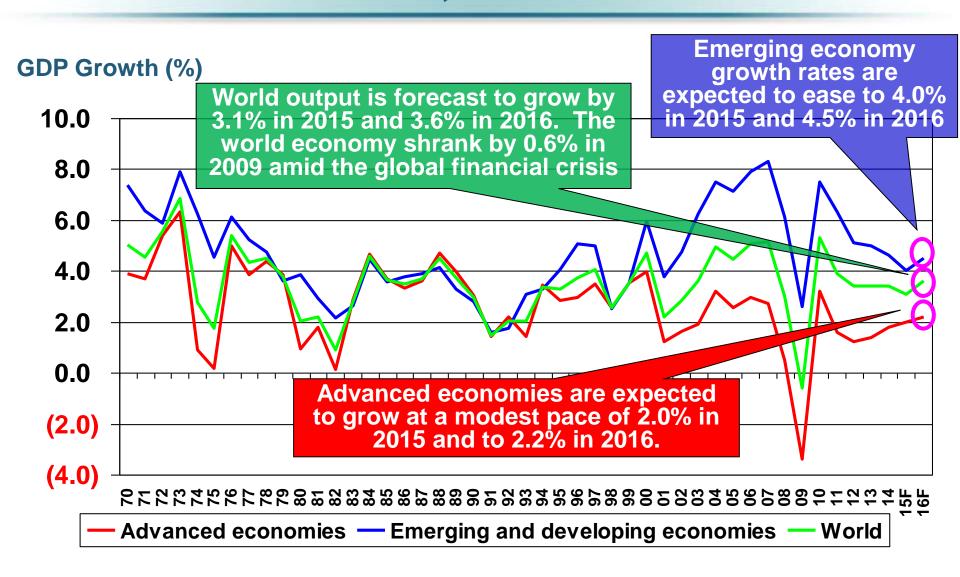
US Unemployment Rate Forecast





GDP Growth: Advanced & Emerging Economies vs. World, 1970-2016F

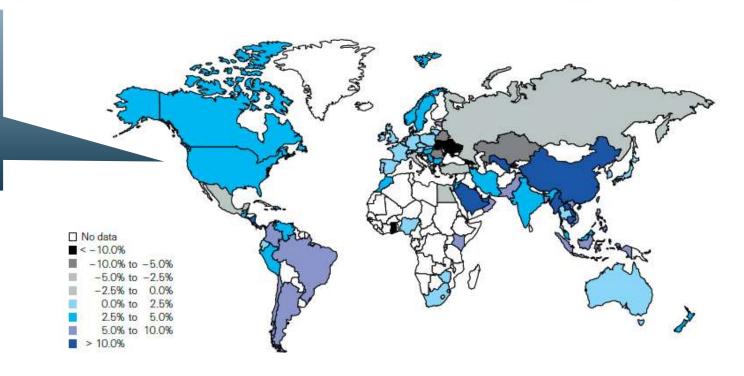




Non-Life Insurance: Global Real (Inflation Adjusted) Premium Growth, 2014



Real nonlife premium growth was stronger in the US in 2014 than in most of Europe



Market	Life	Non-Life	Total
Advanced	3.8	1.8	2.9
Emerging	6.9	8.0	7.4
World	4.3	2.9	3.7

Source: Swiss Re, sigma, No. 4/2015.

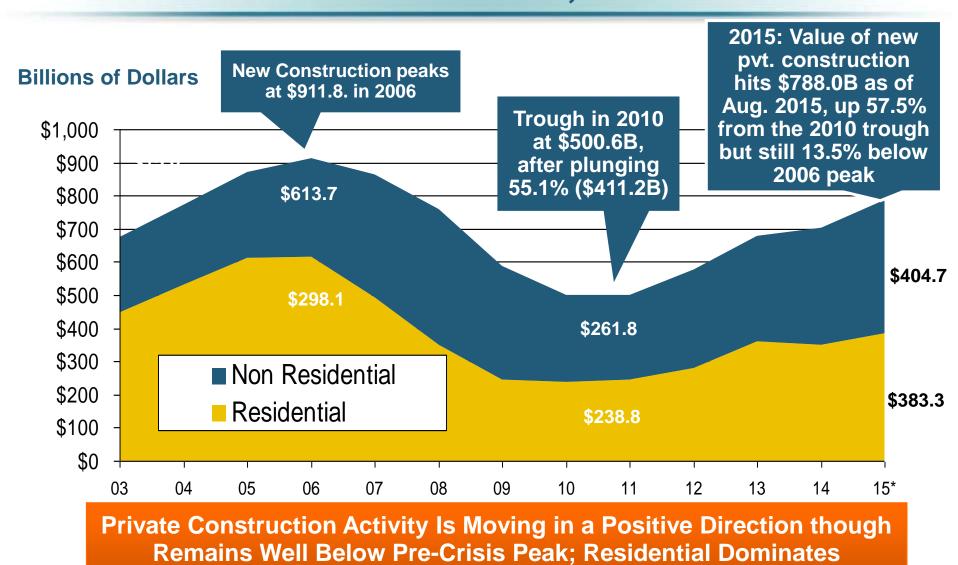


CONSTRUCTION INDUSTRY OVERVIEW & OUTLOOK

The Construction Sector Is Critical to the Economy and the P/C Insurance Industry

Value of New Private Construction: Residential & Nonresidential, 2003-2015*

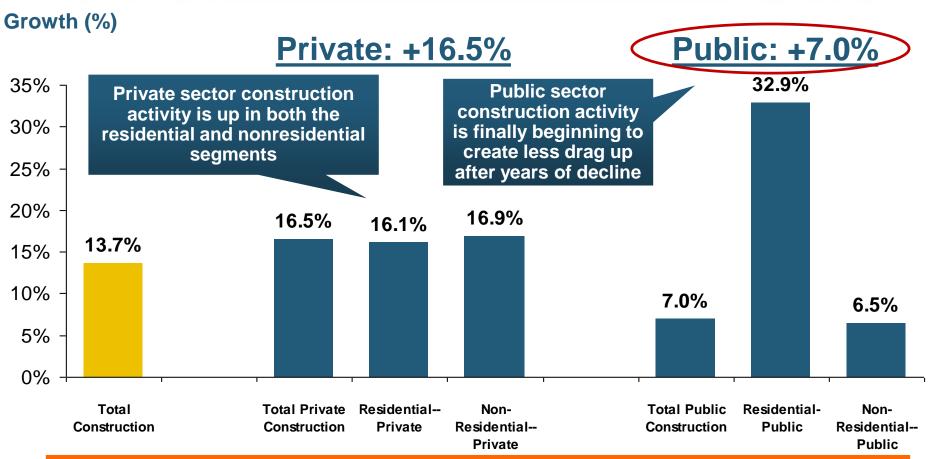




^{*2015} figure is a seasonally adjusted annual rate as of August.

Value of Construction Put in Place, August 2015 vs. August 2014*



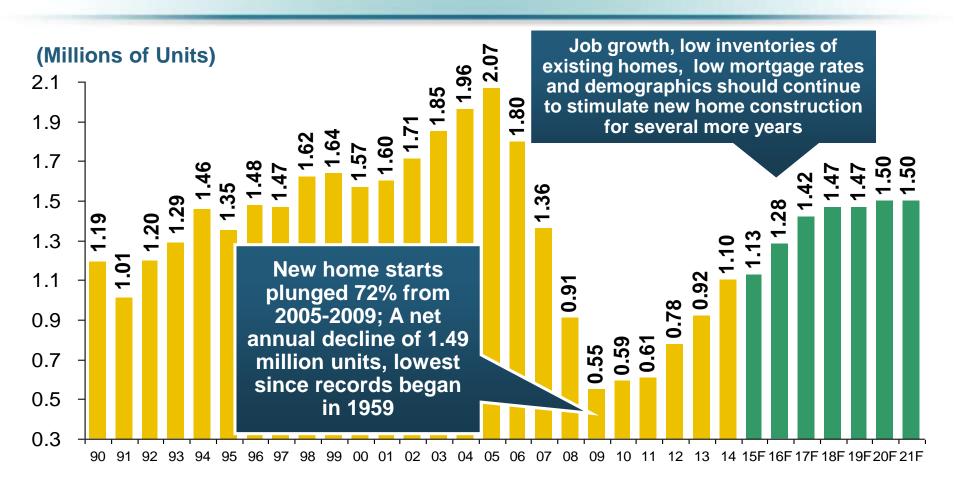


Overall Construction Activity is Up Again After Languishing in Early 2015; State/Local Sector Government Sector May Be Recovering as Budget Woes Ease in Some Jurisdictions

^{*}seasonally adjusted Source: U.S. Census Bureau, http://www.census.gov/construction/c30/c30index.html; Insurance Information Institute.

New Private Housing Starts, 1990-2021F

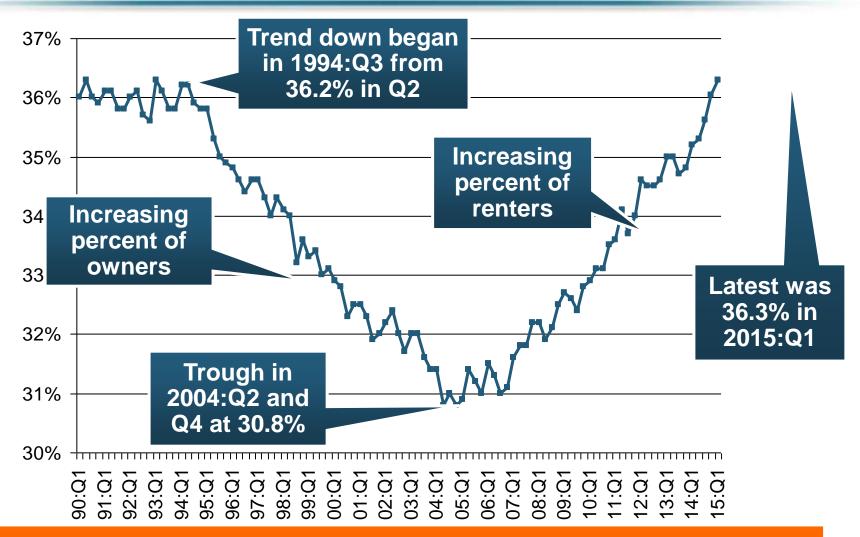




Insurers Are Continue to See Meaningful Exposure Growth in the Wake of the "Great Recession" Associated with Home Construction: Construction Risk Exposure, Surety, Commercial Auto; Potent Driver of Workers Comp Exposure

Rental-Occupied Housing Units as % of Total Occupied Units, Quarterly, 1990:Q1-2015:Q1





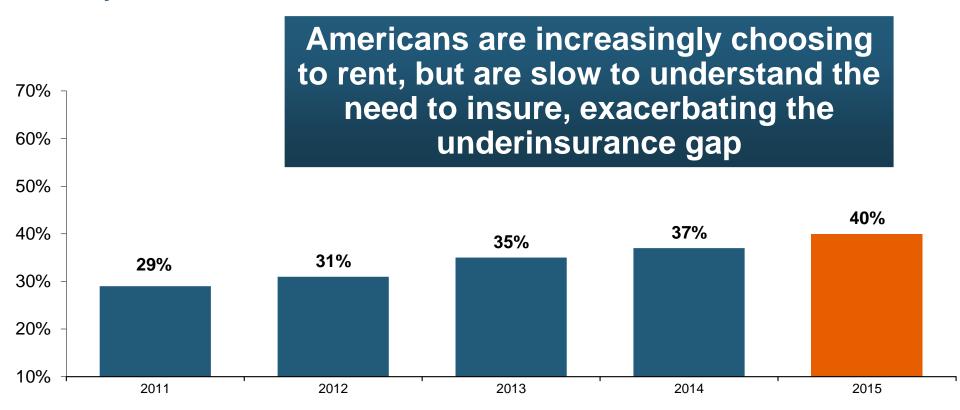
Since the Great Recession ended in June 2009, renters occupied 5.7 million more units (+15.6%).

Sources: US Census Bureau, Residential Vacancies & Home Ownership in the First Quarter of 2015 (released April 28, 2015) and earlier issues; Insurance Information Institute. Next Census Bureau report to be released on July 28, 2015.

I.I.I. Poll: Renter's Insurance



Q. Do you have renters insurance? 1



The Percentage of Renters Who Have Renters Insurance Has Been Rising Since 2011.

Source: Insurance Information Institute Annual *Pulse* Survey.

¹Asked of those who rent their home.

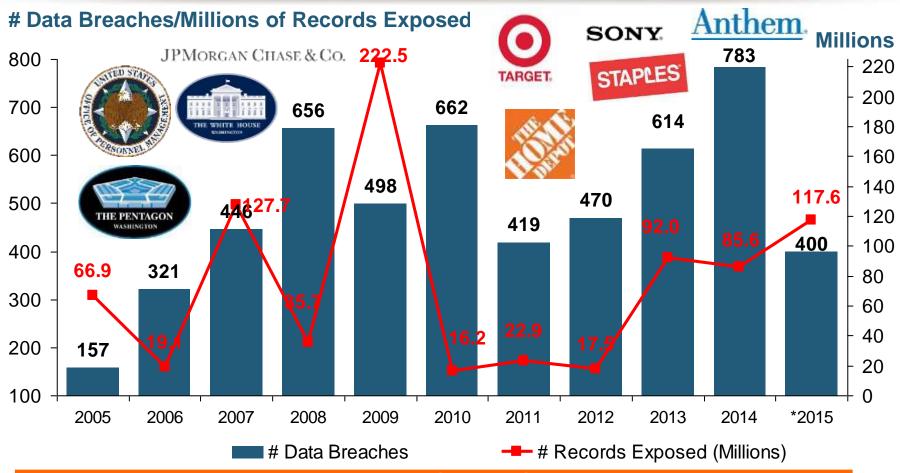


CYBER RISK & CYBER INSURANCE

Cyber Risk is a Rapidly Emerging Exposure for Businesses Large and Small in Every Industry

Data Breaches 2005-2015, by Number of Breaches and Records Exposed



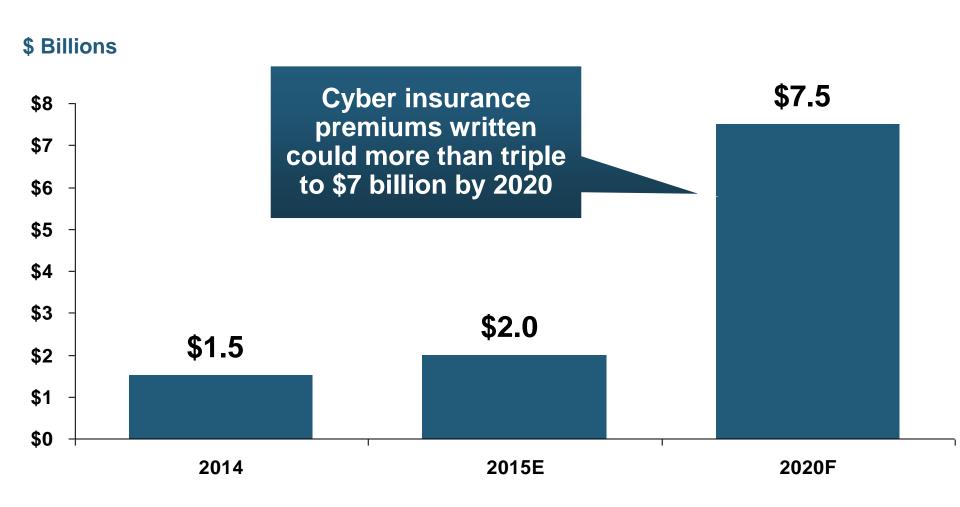


The total number of data breaches (+27.5%) hit a record high of 783 in 2014, exposing 85.6 million records. Through June 30, this year has seen 117.6 million records exposed in 400 breaches.*

^{*}Figures as of June 30, 2015, from the Identity Theft Resource Center, http://www.idtheftcenter.org/images/breach/ITRCBreachReport2015.pdf

Estimated Cyber Insurance Premiums Written, 2014 – 2020F



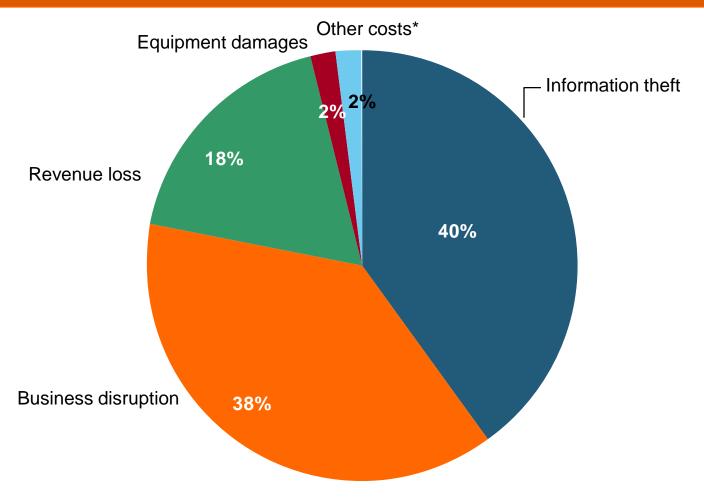


Source: Advisen (2014 est.); PwC (2015, 2020); Insurance Information Institute.

US: External Cyber Crime Costs: Fiscal Year 2014



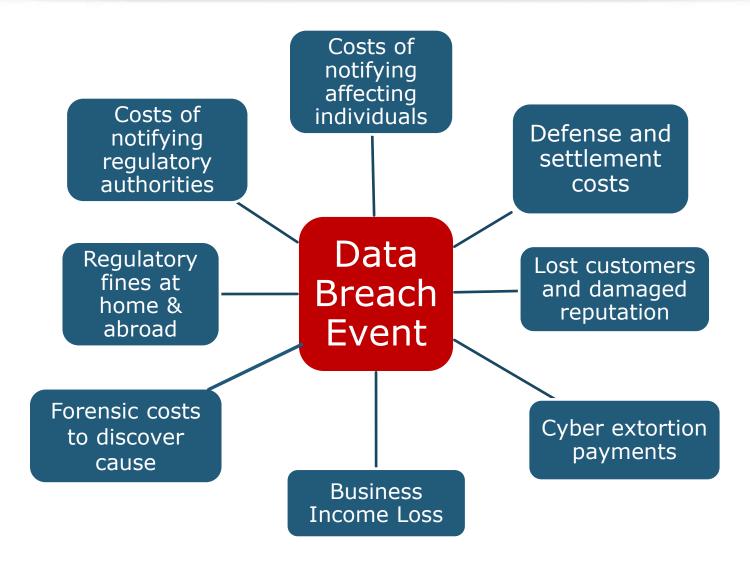
Information theft (40%) and business disruption or lost productivity (38%) account for the majority of external costs due to cyber crime.



^{*} Other costs include direct and indirect costs that could not be allocated to a main external cost category Source: 2014 Cost of Cyber Crime: United States, Ponemon Institute.

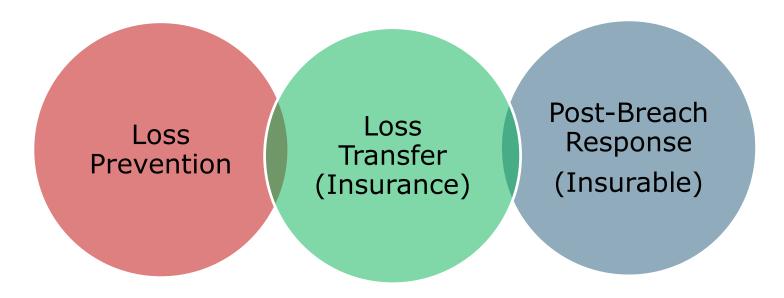
Data/Privacy Breach: Many Potential Costs Can Be Insured





The Three Basic Elements of Cyber Coverage: Prevention, Transfer, Response





Cyber risk management today involves three essential components, each designed to reduce, mitigate or avoid loss. An increasing number of cyber risk products offered by insurers today provide all three.

I.I.I.'s New Cyber Risk Report (Oct. 2015): Cyber Risks Threat and Opportunity





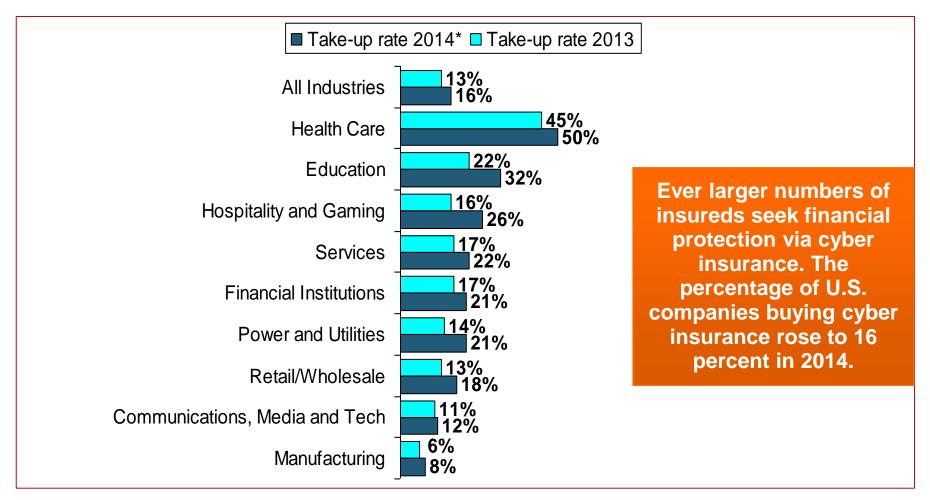
- I.I.I.'s 3rd report on cyber risk:

 Cyber Risk: Threat and Opportunity
- Provides information on cyber threats and insurance market solutions
- Global cyber risk overview
 - Quantification of threats by type and industry
- Cyber security and cost of attacks
- Cyber terrorism
- Cyber liability
- Insurance market for cyber risk

http://www.iii.org/white-paper/cyber-risks-threat-and-opportunities-100715

Marsh: Percentage of U.S. Companies Purchasing Cyber Insurance Increased in 2014



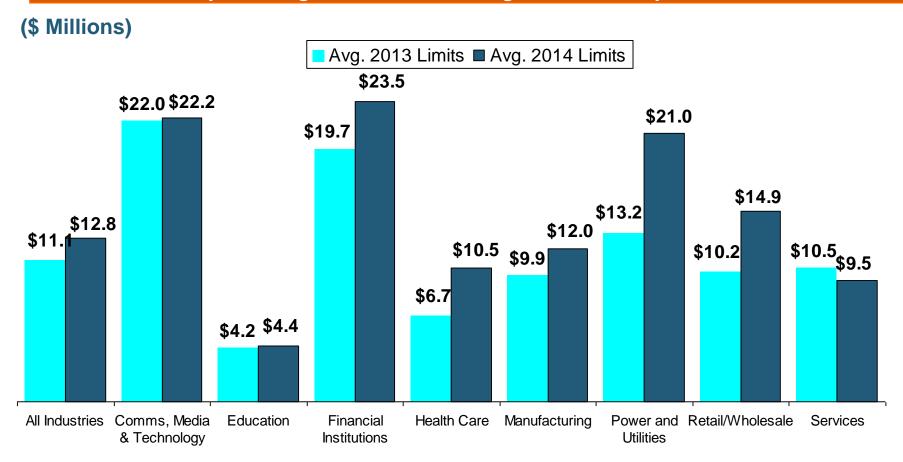


^{*}Take-up rate refers to the overall percentage of clients that purchased standalone cyber insurance. Source: *Benchmarking Trends: As Cyber Concerns Broaden, Insurance Purchases Rise*, Marsh Risk Management Research Briefing, March 2015

Marsh: Total Limits Purchased, By Industry – Cyber Liability, All Revenue Size



Average limits purchased for cyber risk rose to \$12.8 million for all industries and all company sizes in 2014. Power and utility companies witnessed the sharpest percentage increase in average limits, at 59 percent.

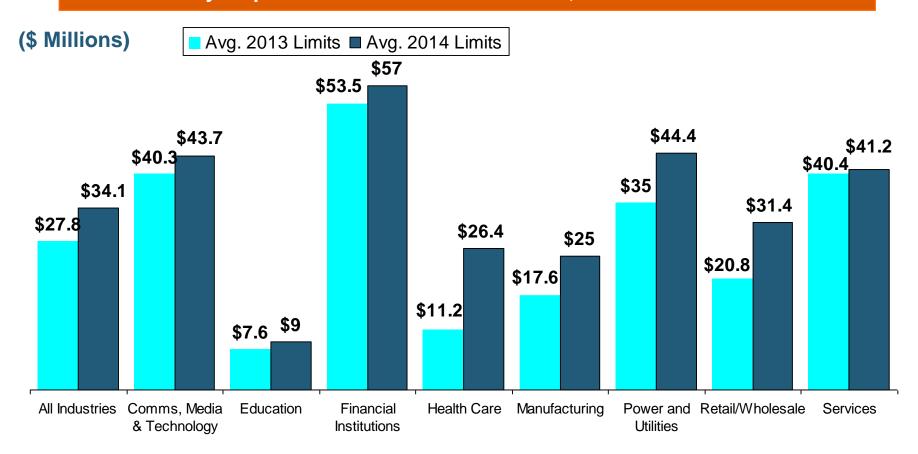


Source: Benchmarking Trends: As Cyber Concerns Broaden, Insurance Purchases Rise, Marsh Risk Management Research Briefing, March 2015

Marsh: Total Limits Purchased, By Industry – Cyber Liability, Revenue \$1 Billion+



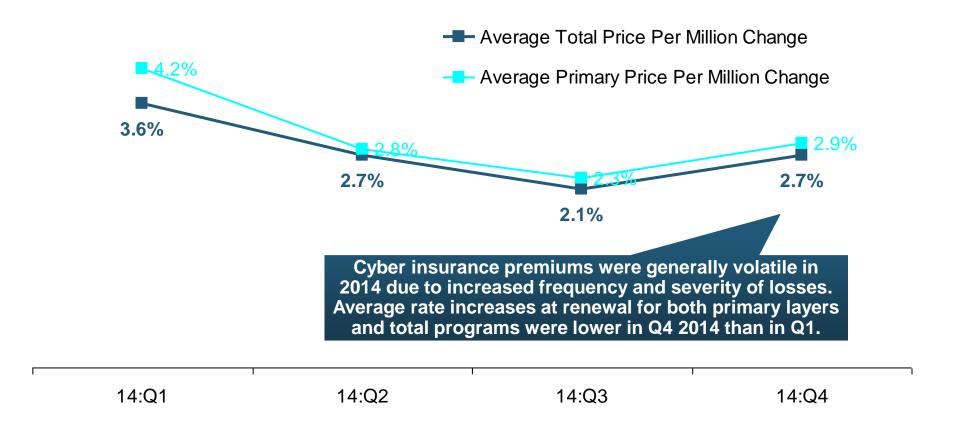
Among larger companies, average cyber insurance limits purchased increased by 22 percent to \$34.1 million in 2014, from \$27.8 million in 2013.



Source: Benchmarking Trends: As Cyber Concerns Broaden, Insurance Purchases Rise, Marsh Risk Management Research Briefing, March 2015

Cyber Liability: Historical Rate (price per million) Changes







INDUSTRY DISRUPTORS

Technology, Society and the Economy Are All Changing at a Rapid Pace Will Insurers Keep Pace?

Media is Obsessed with Driverless Vehicles: Often Predicting the Demise of Auto Insurance



Hands-Free

Projected global unit sales of autonomous vehicles over the next 20 years

32m

Partially autonomous 24m Fully autonomous Autonomous vehicles will challenge auto insurers, but they won't 16m obliterate them 8m 2035 DATA: BOSTON CONSULTING GROUP: GRAPHIC BY BLOOMBERG BUSINESSWEEK

By 2035, it is estimated that 25% of new vehicle sales could be fully autonomous models

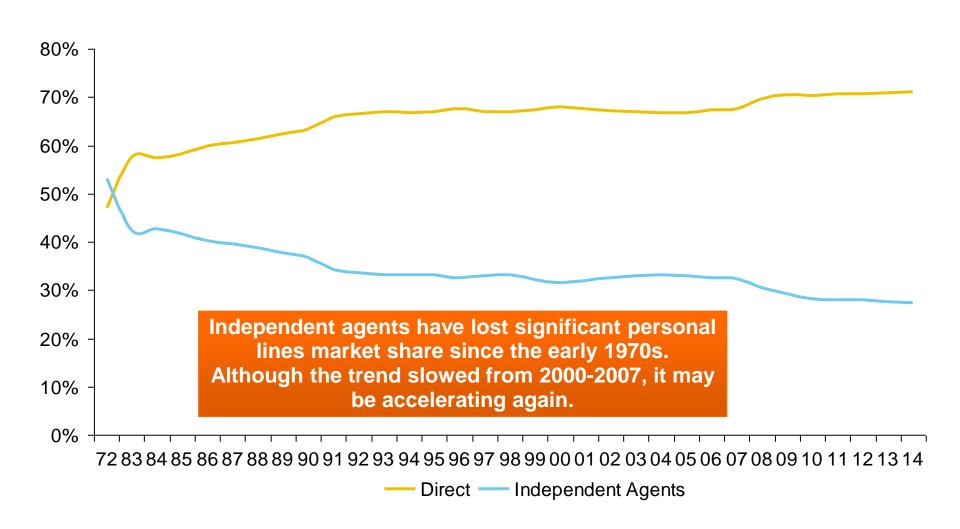
Questions

- Are auto insurers monitoring these trends?
- How are they reacting?
- Will Google take over the industry?
- Will the number of auto insurers shrink?
- How will liability shift?

Source: Boston Consulting Group.

Personal Lines Distribution Channels, Direct vs. Independent Agents, 1972-2014





On-Demand/Sharing/Peer-to-Peer Economy Impacts Many Lines of Insurance Insurance

- The "On-Demand" Economy is or will impact many segments of the economy important to P/C insurers
 - Auto (personal and commercial)
 - Homeowners/Renters
 - Many Liability Coverages
 - Professional Liability
 - Workers Comp
- Many unanswered insurance questions
- Insurance solutions are increasingly available to fill the many insurance gaps that arise



Labor on Demand: Huge Implications for the US Economy, Workers & Insurers





TNC Ridesharing Arrangements: Insurance Applicability



Phase	TNC Coverage	
Driver logged into TNC App but not "matched" with a passenger	Contingent liability coverage IF personal auto coverage declined/not available (\$50/100/25)*	
A "match" is made but passenger is not in the driver's car	Primary liability, UM/UIM coverage at a higher limit (\$1M)* Contingent comp/collision coverage	
3. A passenger is in the driver's car	Same as Phase 2	

The concern was that TNCs were seeking to offload risk on to personal auto insurers. An increasing number of personal auto insurers have developed solutions to ensure that coverage gaps are minimized

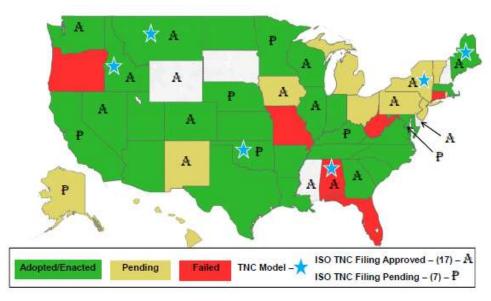
Ridesharing Regulation/Legislation and Status of ISO Filings as of 9/30/15



Status Ride Sharing Legislation/Regulation

Adopted/Enacted Pending Failed TNC Model -

Status of ISO Filings



Homesharing: ISO's Proposed Changes*



Policyholder Notice

Guidance for policyholder to contact insurer

Exclusion

- Explicit exclusion for loss/damage/injury arising out of homesharing
- Applicable to host, landlord
- To the extent possible, preserve existing coverage for rentals that do not originate from homesharing, such as that providing for roomers, boarders

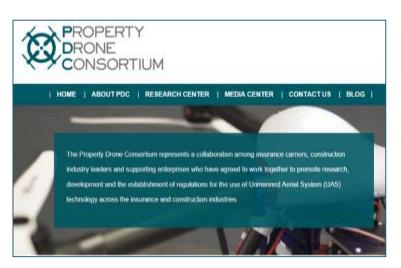
Coverage option

- Property and liability coverage for loss/damage/injury arising out of homesharing
- Applicable to host, landlord

Send in the Drones: Potential Rapid Adoption in Industry; Media Loves It







- Drones or Unmanned Aerial Vehicle (UAV) technology is seeing rapid adoption rate in many industries, including insurance
- ~700,000 drones in US by year-end
- FAA granting Section 333 exemptions for commercial use and testing of UAS
- FAA will require most drones to be registered by year-end 2015.
- At least 5 insurers have received permission to test
- Wide variety of applications: claims, preevent property inspections...
- Insurers partnering with construction industry to guide R&D and regulation of UAV use via Property Drone Consortium:

www.propertydrone.org

Telematics for Your Home: The Internet of Things



- The home is the next frontier for telematics
- Rapidly becoming a crowded space
- How and with whom will insurers partner?
- Can control increasing array of household systems remotely

Uses sensors and algorithms to learn about you

- Heat, A/C
- Fire, CO detection
- Security Systems
- Cameras/Monitors
- Appliances
- Lighting
- Technology is adaptive
 - ecimology is adaptive







Partnerships with Insurers: Selling Safety and Savings Simultaneously



Stay safe. Save money.

Your insurance company knows Nest Protect helps keep you safe. They know it saves lives.

So we've partnered with leading insurance companies to help you get a Nest Protect at no cost. Your insurance provider could also lower your premiums up to 5% because Nest Protect is special - it can connect to Wi-Fi and tell them it's working.

It's their business to know what keeps families safe. And they believe in Nest Protect.

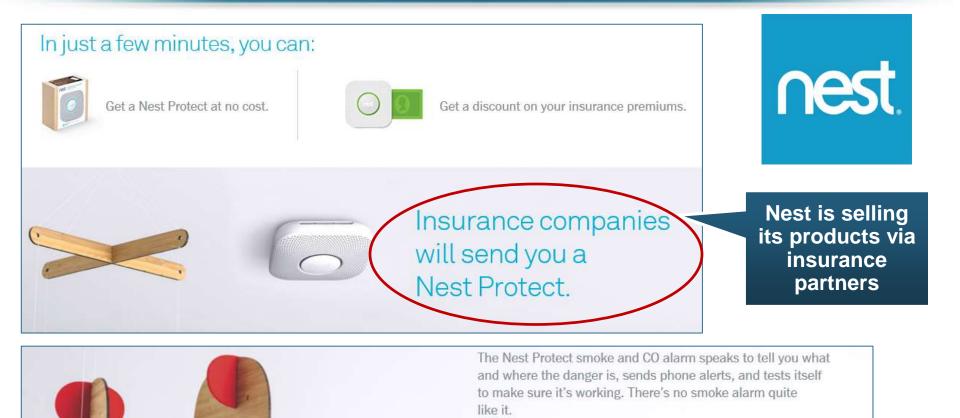
Find out when a Nest insurance partner is coming to your area



Nest is actively seeking to partner with insurers. As of Nov. 1, 2015, Nest listed 2 insurance partners offering discounts in a number of states: American Family (MN) and Liberty Mutual (AL, CO, DE, IL, KY, ME, MN, PA, UT and WI)

Partnerships with Insurers





no cost.

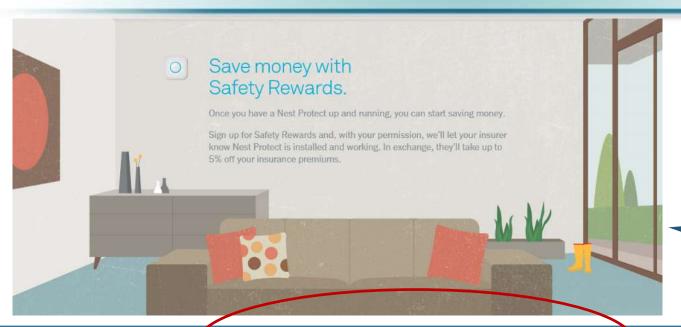
So our insurance partners will send you a \$99 Nest Protect at

4 out of 5 firefighters would trust Nest Protect to protect their own homes.

Source: https://nest.com/insurance-partners/ accessed 11/1/15; Insurance Information Institute research.

Partnerships with Insurers







Nest is selling its products via insurance partners

Your private data stays private.

Sign up for Safety Rewards and, once a month, Nest Protect will tell your insurance provider if:







Its batteries are charged.

Its sensors are working.

Its Wi-Fi connection is good.

Your insurer will never know if the alarm went off because you burned the popcorn.

Learn more about what data we share >

Even if your Wi-Fi drops or batteries run low, you won't lose your discount. And you can opt out of Safety Rewards at any time.

Source: https://nest.com/insurance-partners/ accessed 11/1/15; Insurance Information Institute research.

Partnerships with Insurers: Information Collected, Addressing Privacy Concerns



When I enroll in Safety Rewards, what kind of data is shared with my insurance company?

The Safety Rewards data you authorize Nest to share is secure and is limited to basic summarized information that verifies that your Nest Protect is working.

Privacy, control of data concerns get significant attention



Safety Rewards Information

Nest Protect tests itself to make sure that the batteries have power, that the sensors are working, and that it's connected to Wi-Fi. Nest Protect can also tell you when these tests succeed and when they don't.

When you enroll in Safety Rewards you'll be asked to grant Nest permission to provide basic summarized information about your Nest Protect to your insurance company. This will show they're working to help keep you and your home safe. Each month, Nest will summarize and send your Nest Protect data to your

insurance company. This summary includes status of the batteries, smoke sensor, carbon monoxide sensor, and connection to the Internet. The status report is limited to basic values such as:

Works with Nest Insurance Partner 1 would like to do the following:

See that Nest Protect is set up and check bettery status, Wi-Fi connection and sensors. Allows cinsurance Partner 1> to provide policy discounts and products.

Want Nest to stop working with insurance Pariner 17 Go to account settings in the Nest app.

At Nest, we take your privacy seriously. And we believe in being open and honest about using your data.

CONTINUE

Insurance Partner I and Nest will use this information in accordance with their respective terms of service and

"Good" - functioning normally

"Low" - battery charge is low

"Issue" - problem with one or more sensors

"Unknown" - there may be an issue, but Nest Protect cannot diagnose it, or has not checked in because it is offline

The monthly status summary will also include your ZIP or postal code and the names of the rooms where you have your Nest Protects installed. The ZIP or postal code information enables your insurance company to verify that the devices are in a home covered by your insurance policy.

What you won't share

The monthly status summary does not include any smoke or carbon monoxide alarms that may have occurred in your home. In addition, any custom labels that you have given to your Nest Protects will not be shared. Lastly, it does not include any information about how you use the Nest app.

Nest Protect locations, names and labels >

Source: https://nest.com/support/article/When-I-enroll-in-Safety-Rewards-what-kind-of-data-is-shared-with-my-insurance-company accessed 11/1/15; Insurance Information Institute research.

Partnerships with Insurers: Information Collected, Addressing Privacy Concerns



What you won't share

The monthly status summary does not include any smoke or carbon monoxide alarms that may have occurred in your home. In addition, any custom labels that you have given to your Nest Protects will not be shared. Lastly, it does not include any information about how you use the Nest app.

Nest Protect locations, names and labels >

You're in control of access to these monthly reports

While you're enrolling in Safety Rewards and setting up your connection, you'll be able to review the data requested before you grant permission to share it. If you decide not to grant permission, you won't be able to participate in Safety Rewards, but all your Nest products will continue to work just as before. If you decide to stop participating in Safety Rewards at some point, it's easy and simple to remove your permission. We won't send any more monthly status reports for your account.

I'd like to stop participating in Safety Rewards, how can I cancel it? >

Your data is shared in a limited way

When you're setting up a connection to Nest for Safety Rewards there's no personal information — such as your email address — exchanged. We limit the type of information accessed by Safety Rewards connections, but a connection will request access to basic home and Nest Protect data so it can work.

Privacy, control and security of data get significant attention



Your data is secure

We secure access to data with tokens that use OAuth 2.0 instead of personal information, as well as SSL. These security standards are widely used by many leading technology companies.

You can always change your mind

If you ever change your mind after you grant access to your data for these monthly reports, you can always remove the Safety Rewards connection. Removing the connection will remove you from the program, but your Nest products will continue to work just as before.

How to remove a Safety Rewards connection >

Please read our Privacy Statement for Nest Products and Services

For complete details on how we keep your information private and secure, please see our **Privacy Statement** which describes how we handle personal data, data sharing and access.

Source: https://nest.com/support/article/When-I-enroll-in-Safety-Rewards-what-kind-of-data-is-shared-with-my-insurance-company accessed 11/1/15; Insurance Information Institute research.

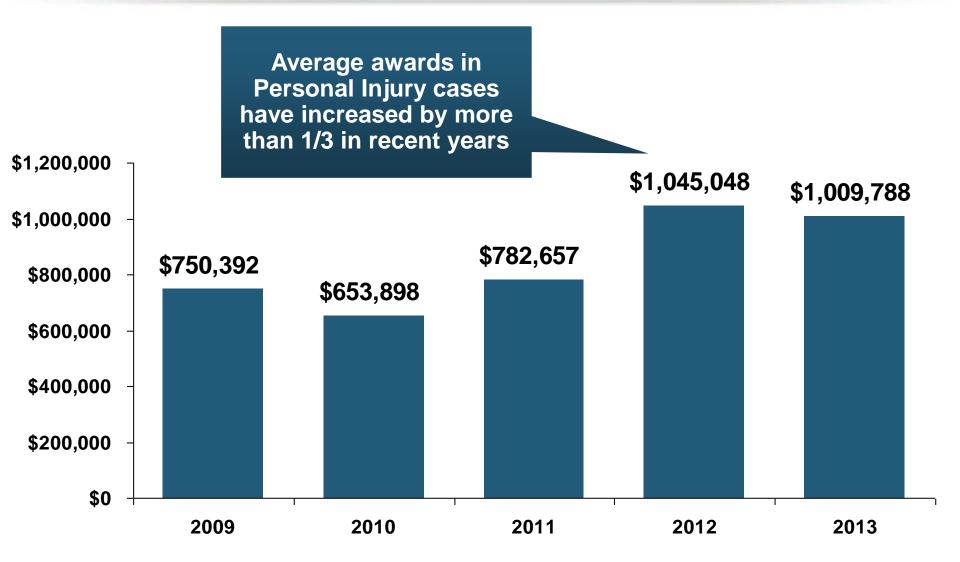


Shifting Legal Liability & Tort Environment

Will the Tort Pendulum Swing Against Insurers?

Average Personal Injury Jury Award, 2009 – 2013





Source: Current Award Trends in Personal Injury, 54th Edition; Insurance Information Institute.

Business Leaders Ranking of Liability Systems in 2015



Best States

- Delaware
- 2. Vermont
- Nebraska
- 4. Iowa
- 5. New Hampshire
- 6. Idaho
- 7. North Carolina
- 8. Wyoming
- 9. South Dakota

10. Utah

New in 2015

- Vermont
- New Hampshire
- North Carolina
- South Dakota

Drop-offs

- Minnesota
- Kansas
- Virginia
- North Dakota

Worst States

- 41. Arkansas
- 42. Missouri
- 43. Mississippi
- 44. Florida
- 45. New Mexico
- 46. Alabama
- 47. California
- 48. Illinois
- 49. Louisiana
- 50. West Virginia

Newly Notorious

- Arkansas
- Missouri

Rising Above

- Oklahoma
- Montana

The Nation's Judicial "Hellholes": 2014/2015

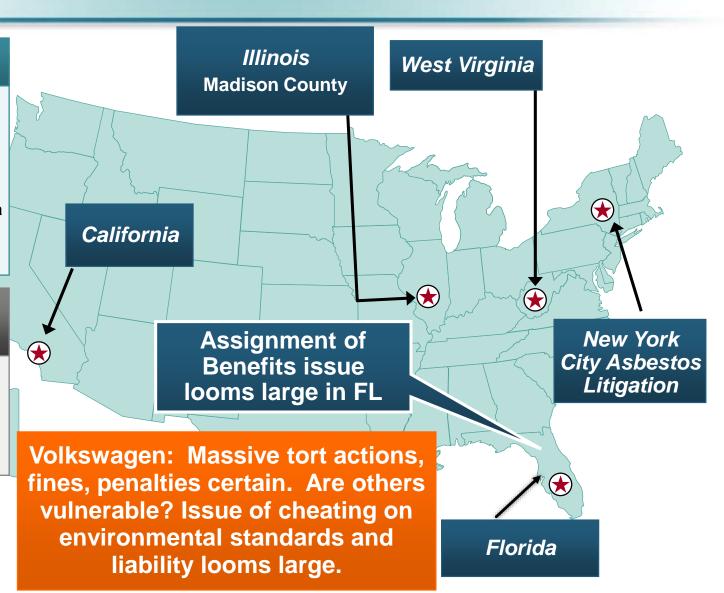


Watch List

- Atlantic County, New Jersey
- Mississippi Delta
- Montana
- Nevada
- Newport News, Virginia
- Philadelphia, Pennsylvania

Dishonorable Mention

- AL Supreme Court
- PA Supreme Court





Insurance Information Institute Online:

www.iii.org

Thank you for your time and your attention!

Twitter: twitter.com/bob_Hartwig
Download at www.iii.org/presentations