

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

Casualty Actuarial Society Annual Meeting Philadelphia, PA November 16, 2015

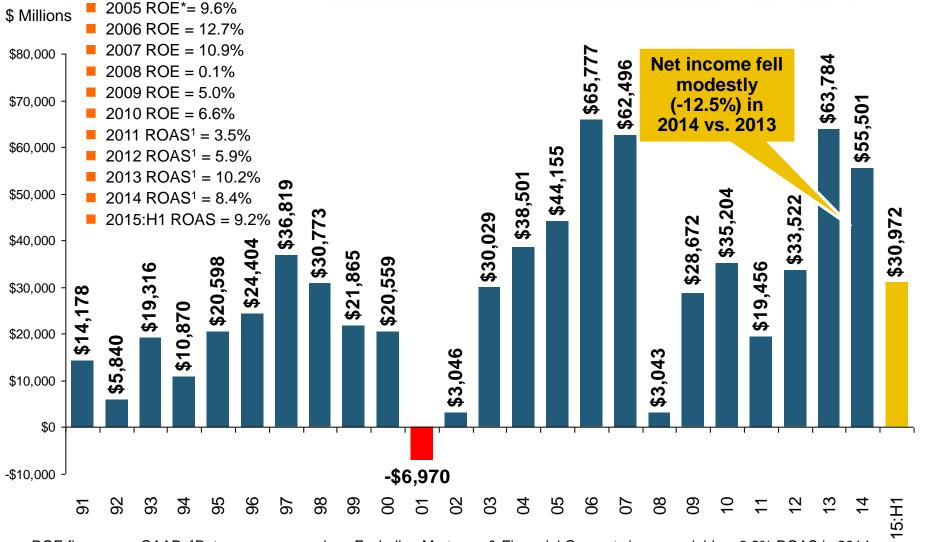
Robert P. Hartwig, Ph.D., CPCU, President & Economist Insurance Information Institute 110 William Street New York, NY 10038 Tel: 212.346.5520 Cell: 917.453.1885 bobh@iii.org www.iii.org



Insurance Industry Financial Performance

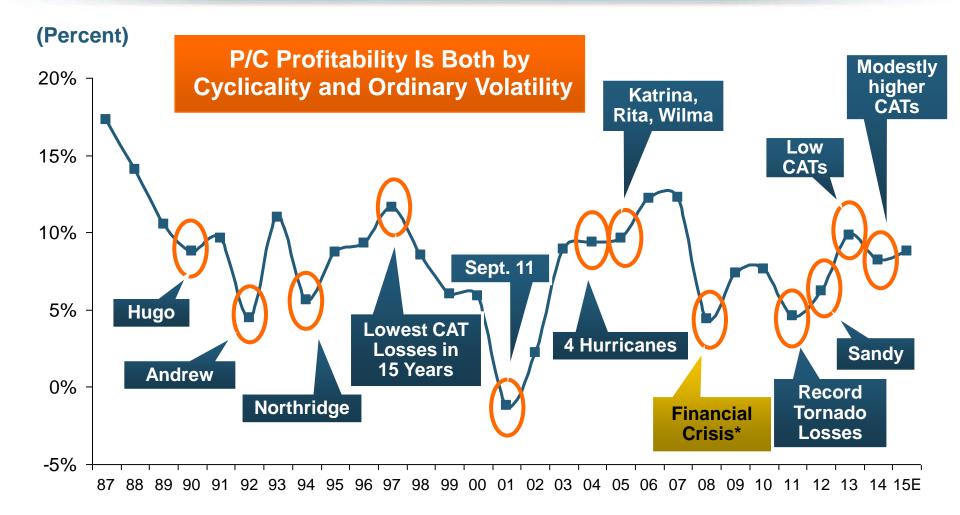
2014 Was a Reasonably Good Year 2015: A Repeat of 2014?

P/C Industry Net Income After Taxes 1991–2015:H1



•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

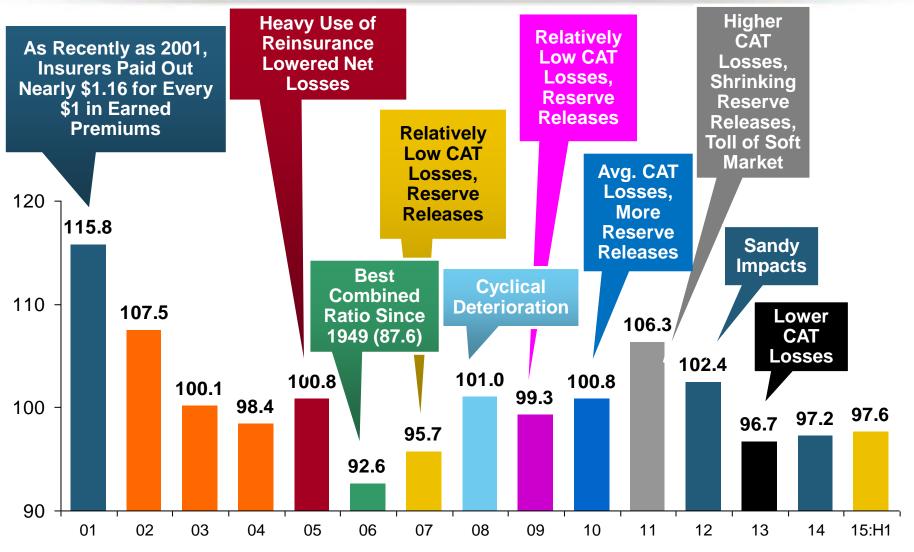
ROE: Property/Casualty Insurance by Major Event, 1987–2015E



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

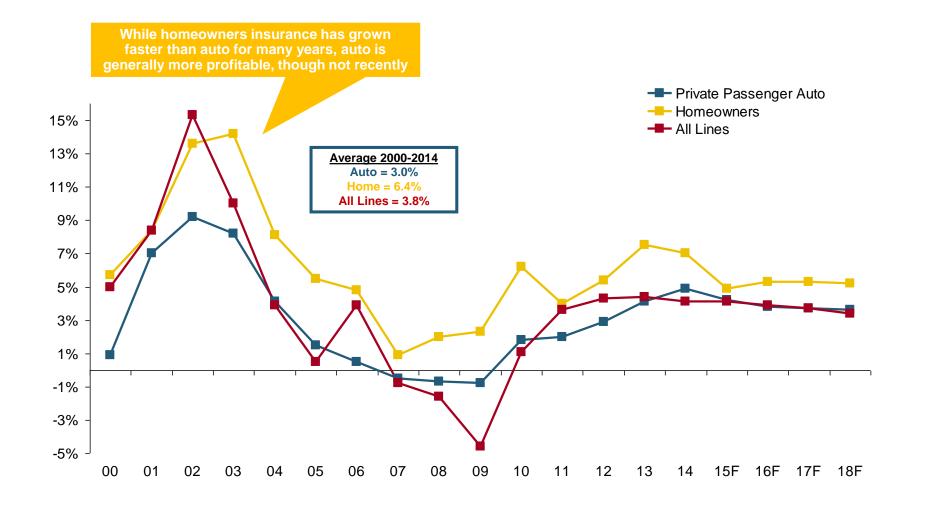
P/C Insurance Industry Combined Ratio, 2001–2015:H1*





* 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



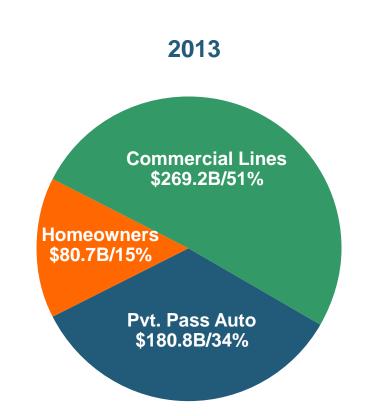
INSURANCE

Distribution of Direct Premiums Written by Segment/Line, 2013



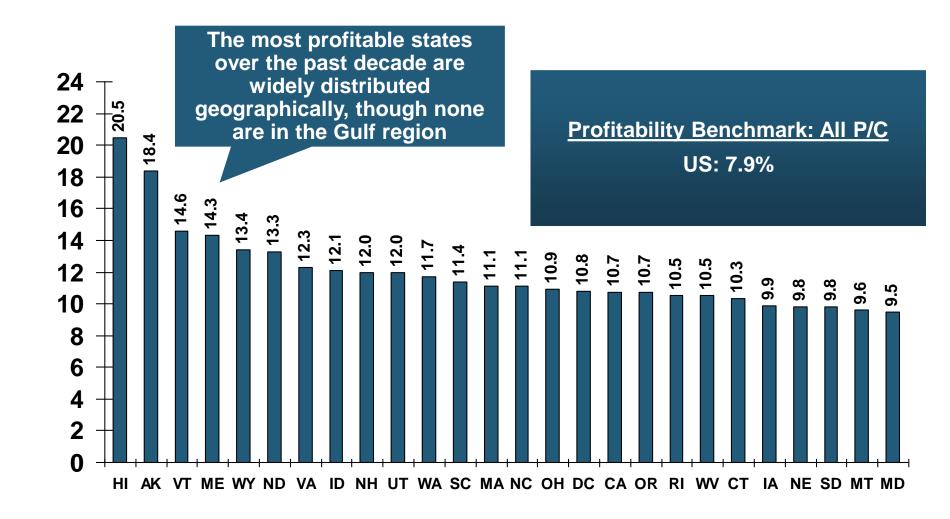
Distribution Facts

- 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

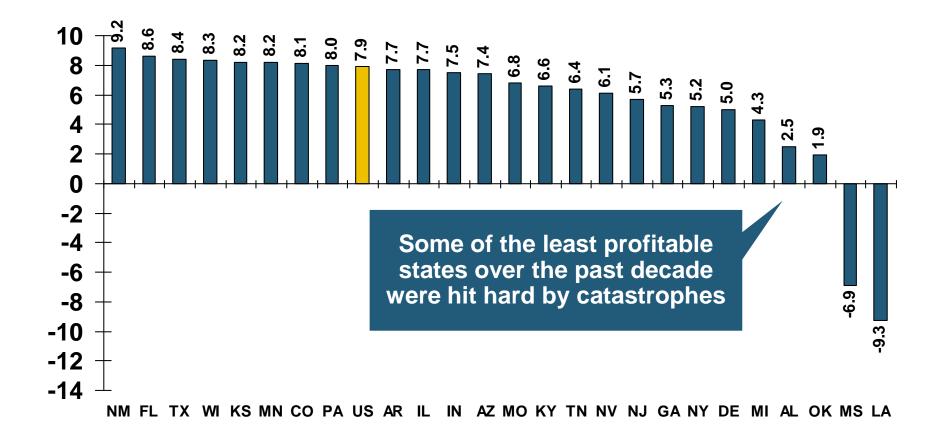


Sources: A.M. Best; Insurance Information Institute research.

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



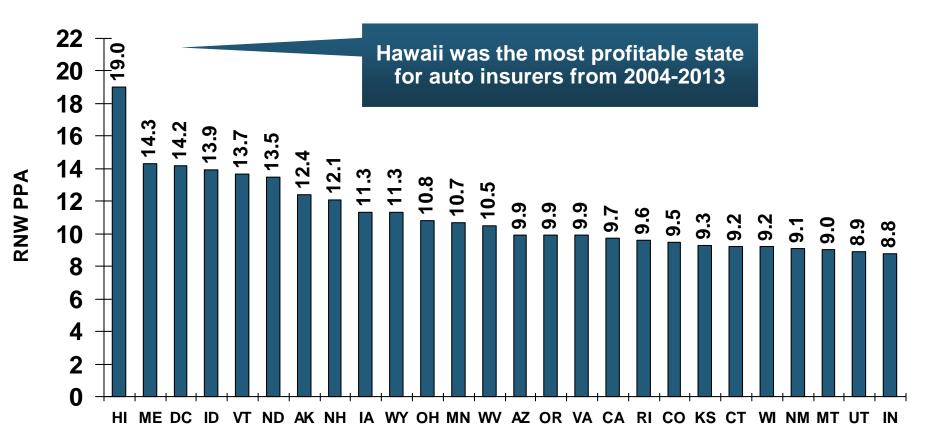
RNW All Lines by State, 2004-2013 Average: Lowest 25 States



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



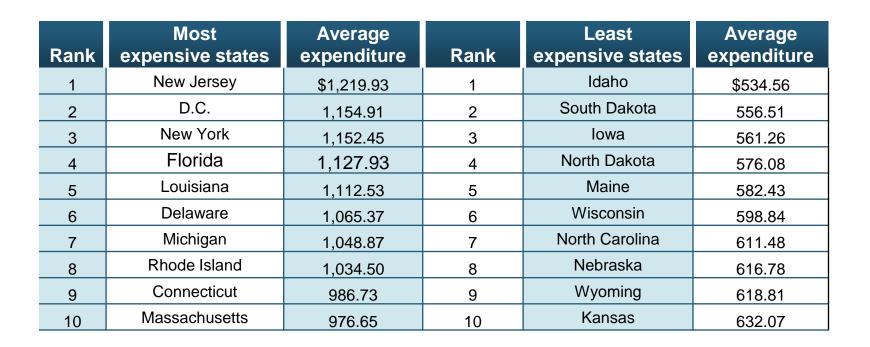
Top 25 States



*Latest available. Sources: NAIC.

(Percent)

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



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

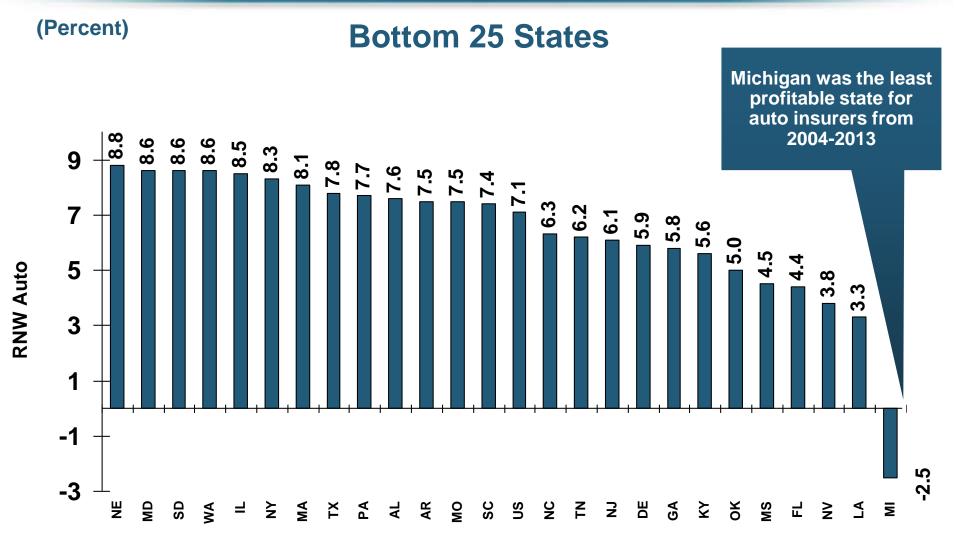
(1) Based on average automobile insurance expenditures.

Source: © 2014 National Association of Insurance Commissioners.

INSURANCE

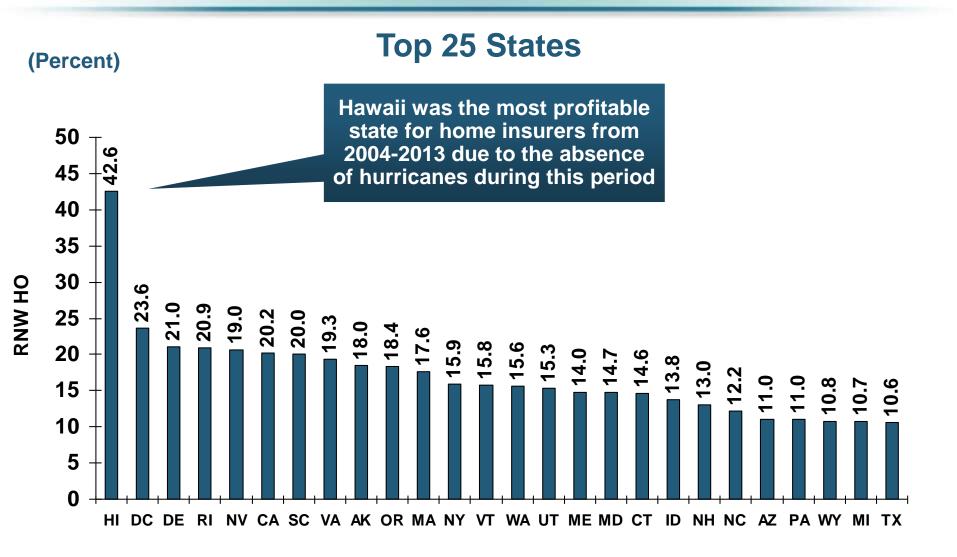
Return on Net Worth: Pvt. Passenger Auto, 10-Year Average (2004-2013*)





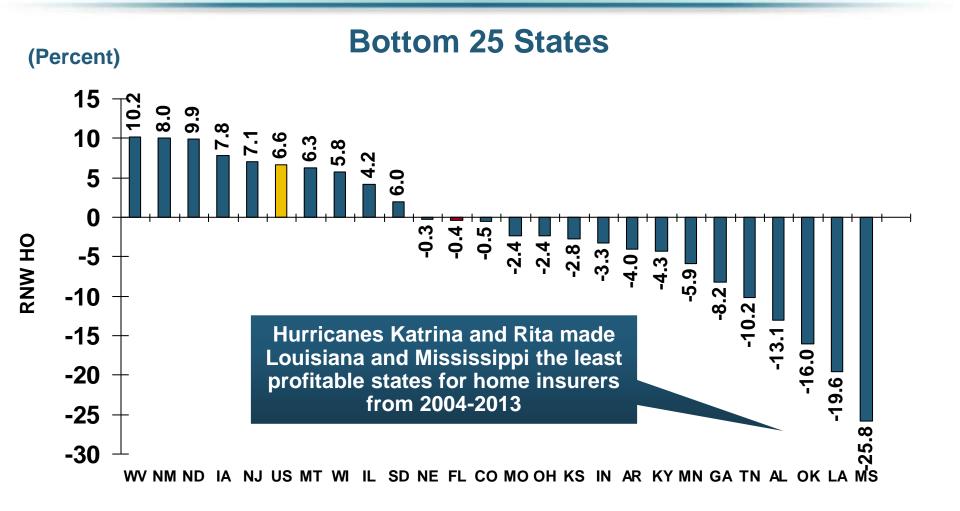
*Latest available. Sources: NAIC

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*)



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 |

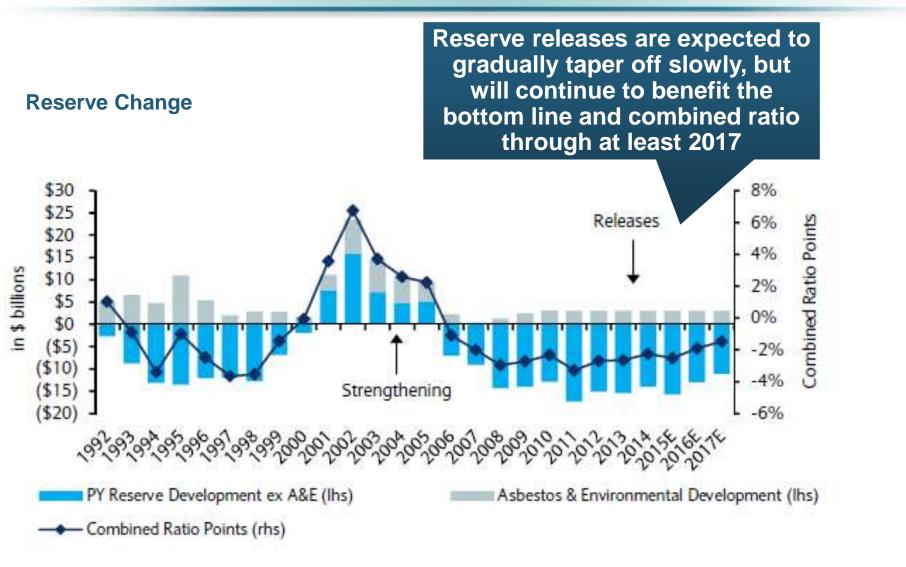
(1) Includes policies written by Citizens Property Insurance Corp. (Florida) and Citizens Property Insurance Corp. (Louisiana), Alabama Insurance Underwriting Association, Mississippi Windstorm Underwriting Association, North Carolina Joint Underwriting Association and South Carolina Wind and Hail Underwriting 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, INSURANCE 1992 – 2017E*

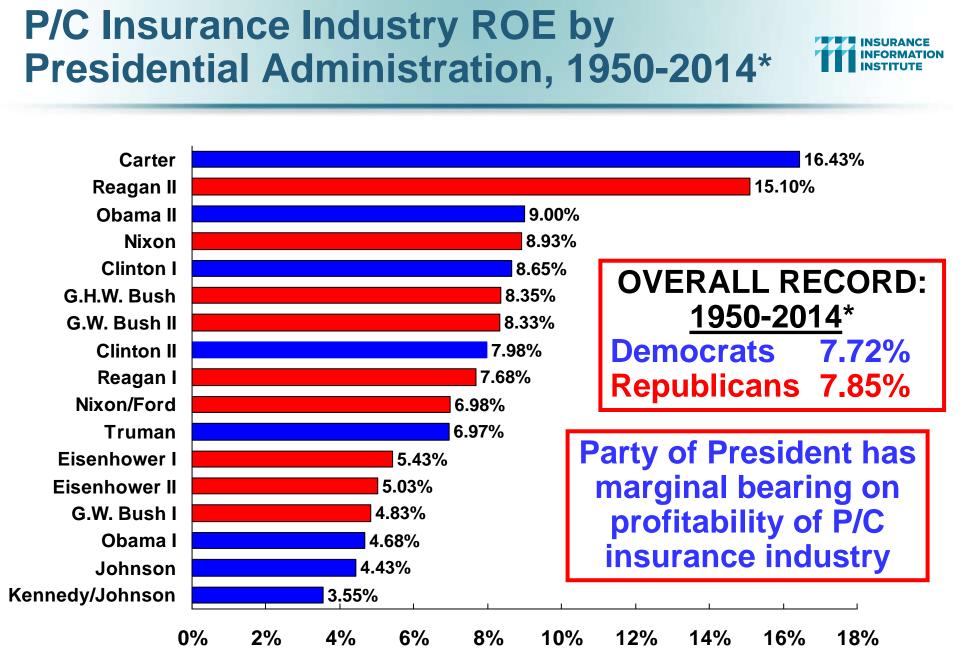


Source: A.M. Best; Barclays research for estimates.



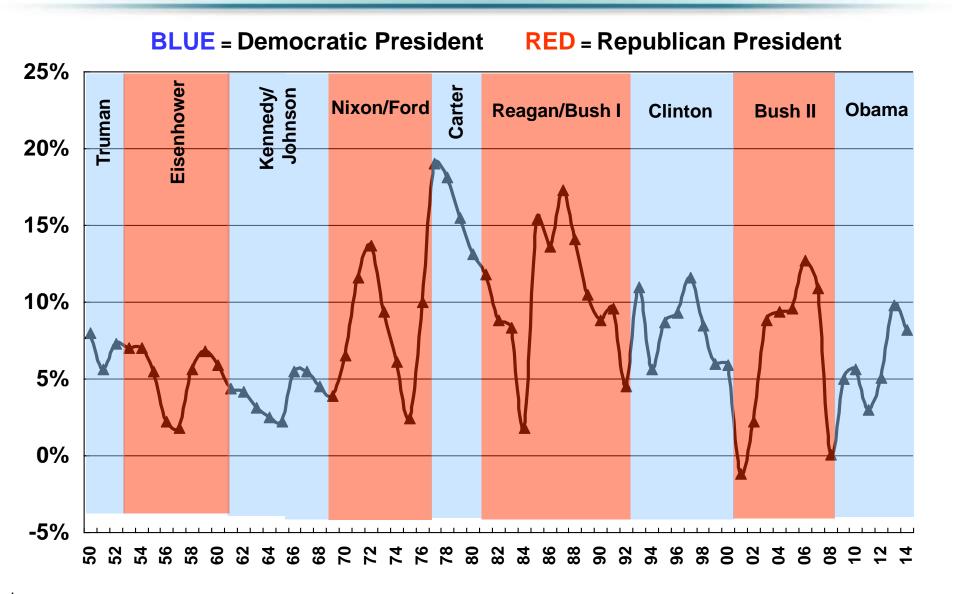
Profitability & Politics

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



*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





CURRENT ISSUES IN AUTO INSURANCE

Price Optimization Attacks on Underwriting Criteria

Price Optimization: The Latest

- INSURANCE INFORMATION INSTITUTE
- Significant Discussion of Price Optimization Issue in Recent Months
- Several States Have Issued Bulletins Addressing Its Use
 - 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

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.

PRICE OPTIMIZATION IN AUTO INSURANCE MARKETS

Actuarial, Economic and Regulatory Considerations

Robert P. Hartwig, Ph.D., CPCU President & Economit, Insurance Information Institute INSURANCE





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 +



CBS NEWS / July 30, 2015, 5:05 PM

Insurance Information Institute responds to Consumer Reports car insurance article

Comment / If Shares / III 21 Tweets / III Stumble / III 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 insurance price quotes from more than 700 companies.

In a statement, James Lynch, the Insurance Information Institute's chief actuary and director of information services said:

"The reactions highlighted in the Consumer Denosts exticle have been

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

- Gender
- Territory
- Age
- Grades

Hundreds of Class Plan Filings Annually Reconfirm Their Value

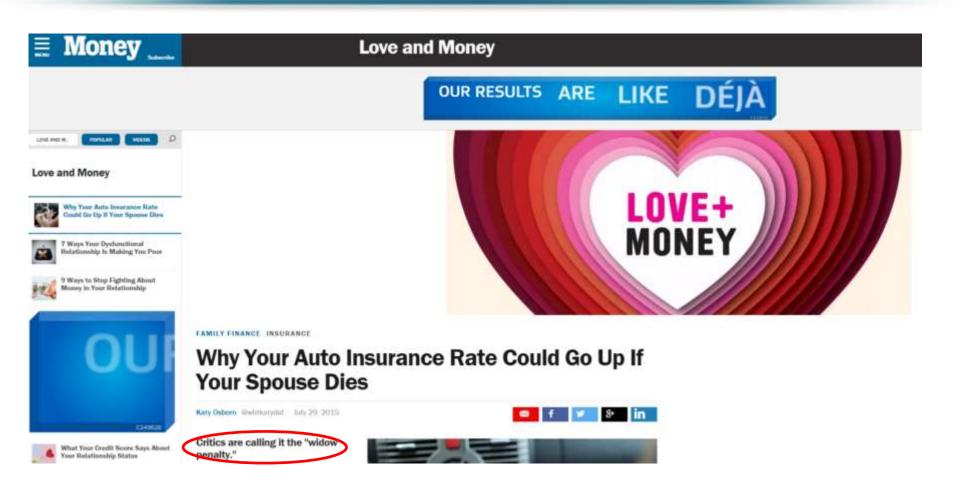
INSURANCE



Recent Attacks on the Insurance Industry

Why Are Critics Suddenly More Aggressive?

CFA's Conclusion: The 'Widow Penalty'



"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 \rightarrow 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 avertooked 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.

Monitol Status

Or

Married drivers tend to get

Into fewer and Less serious

Key factors include:

Credit

 Regulators in 47 U.S. states allow the use of creditbased insurance scores.

1

- "Credit scores are effective predictors of risk under automobile policies." (2007 Federal Trate Commission report)
- 76 percent of consumers exhibit good or fair credit management behavior. (RCD)
- Gender Women drivers tend to get into fewer and less serious accidents than men.
- accidents than men, Men were behind the wheel in nearly three of every four fatal crashs nationwide (2003-2012), uls Department of three of nationwide (2003-2012), uls Department of three of nationwide (2003-2012), uls Department of three of three of nationwide (2003-2012), uls Department of three of th

Price Optimization

- Price Optimization allows insurers to rely on "more objective, quantitative information about the judgmental aspects of the rate-setting process instead of reliance primarily on anecdotal evidence."
- Consumers benefit because, "Price optimization may improve rate stability and lower an insurer's (ong-ferm cost for providing coverage and limit policyholder disruption. If consumers realize more stability through price optimization, policyholder discounts for longevity may increase over time."

(Referred Association of Insurance Commissioners' Casuality Actuation and Stateboat Task Parce draft while paper).

Resources

I.I.I. consumer education articles

- What Determines the Price of My Auto Insurance Policy? www.iii.org/urticle/what-determines-price-my-duto-insurancepolicy.
- 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.iii.org/presentation/price-optimization-in-autoinsurance-markets-actuarial-economic-and-regulatoryconsiderations-071715
- Facts & Statistics: Auto Insurance: www.iii.org/fact-statistic/auto-insurance
- Issues Update: Credit Scoring and Insurance: www.ili.org/issue-update/credit-scoring

I.I.I. video

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

The I's on Insurance—Auto Coverage: You're in the Driver's Seat; www.iii.arg/video/the-is-on-insurance-auto-coverage-youre-in-thedrivers-seat

I.I.I. subject motter experts

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

LLI, media contact

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

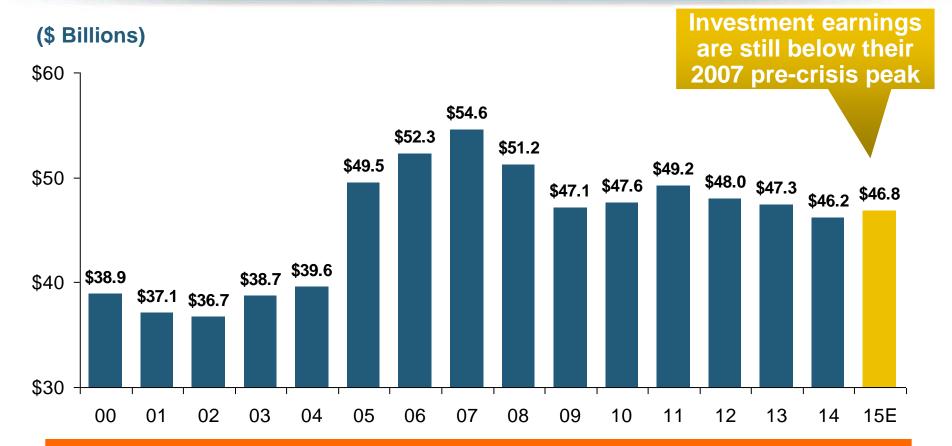


INVESTMENTS: THE NEW REALITY

Investment Performance is a Key Driver of Profitability

Depressed Yields Will Necessarily Influence Underwriting & Pricing

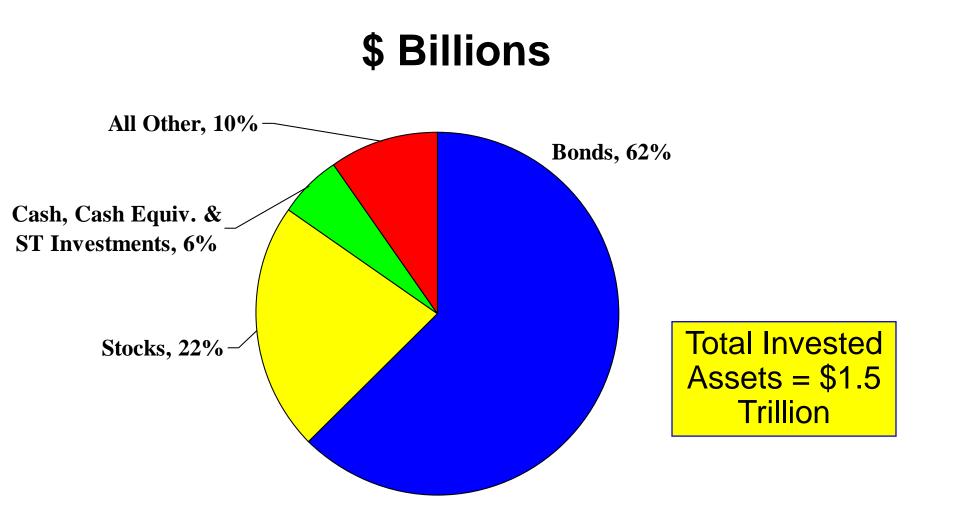
Property/Casualty Insurance Industry Investment Income: 2000–2015E¹



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

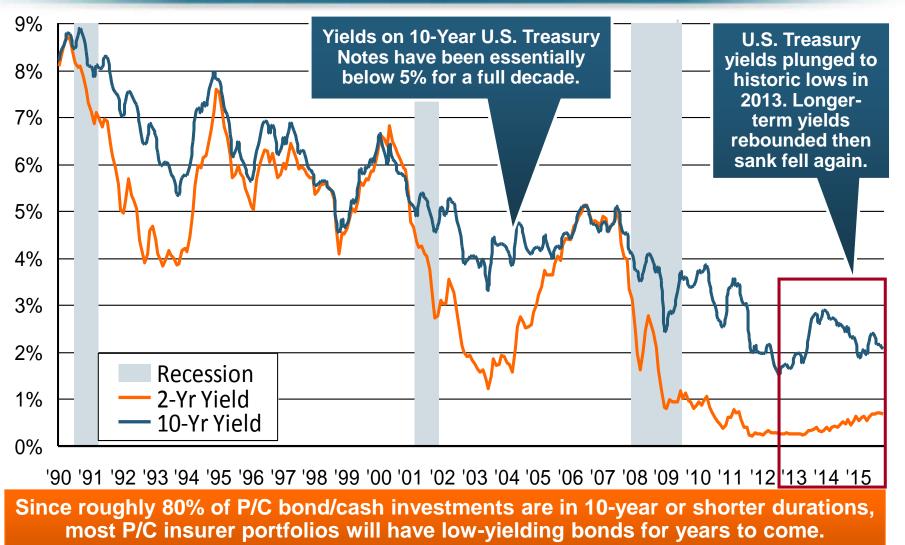
¹ Investment gains consist primarily of interest and stock dividends. Sources: ISO; Insurance Information Institute. *2015 figure is estimated based on annualized data through Q2.

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



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

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

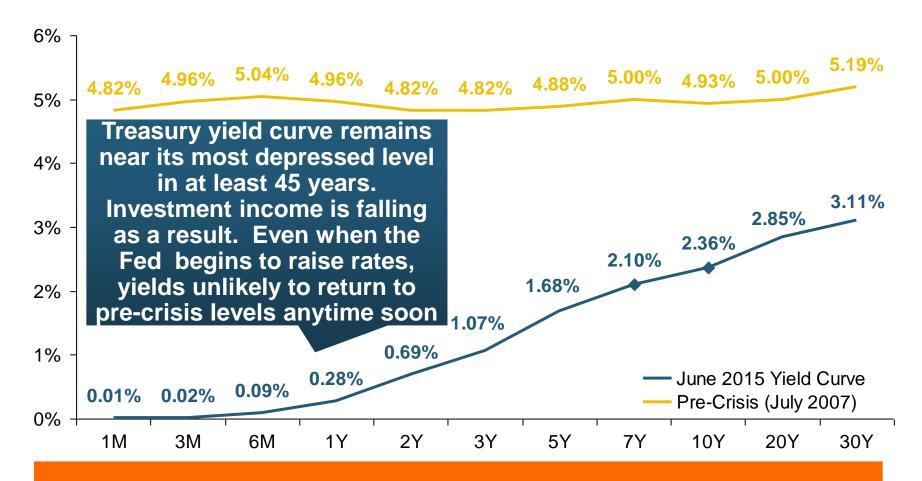


*Monthly, constant maturity, nominal rates, through October 2015.

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

NSURANCE

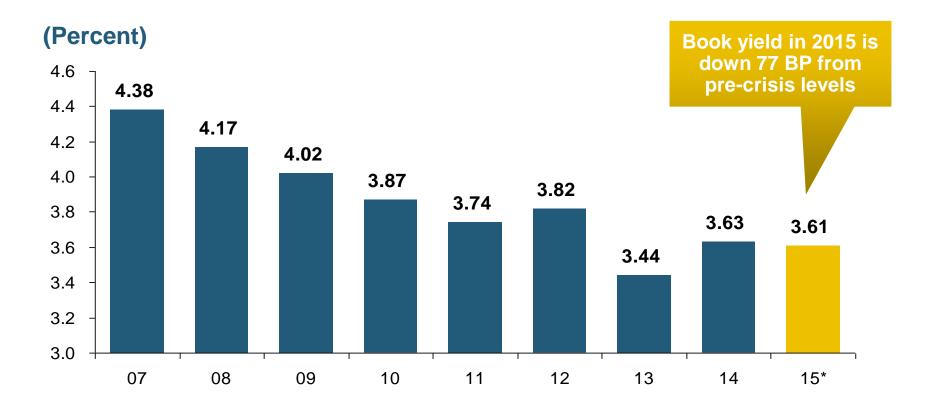
Treasury Yield Curves: Pre-Crisis (July 2007) vs. June 2015



The Fed Is Actively is Signaling that it Is Likely to Begin Raising Rates Later in 2015 but Only Very Gradually

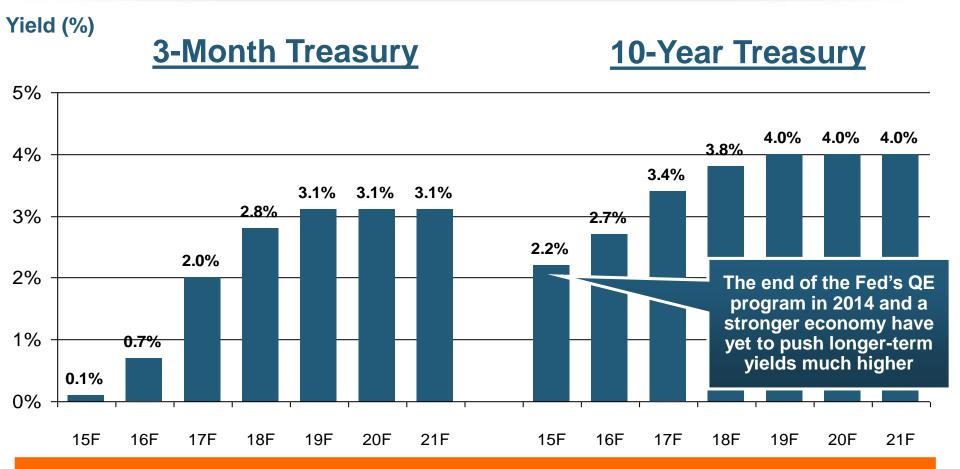
Source: Federal Reserve Board of Governors; Insurance Information Institute.

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

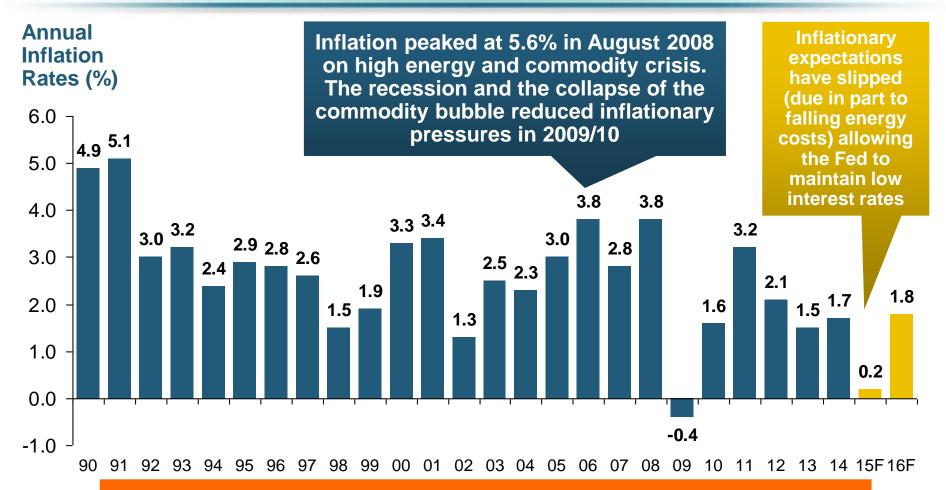


A full normalization of interest rates is unlikely until the 2020s, more than a decade after the onset of the financial crisis.

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

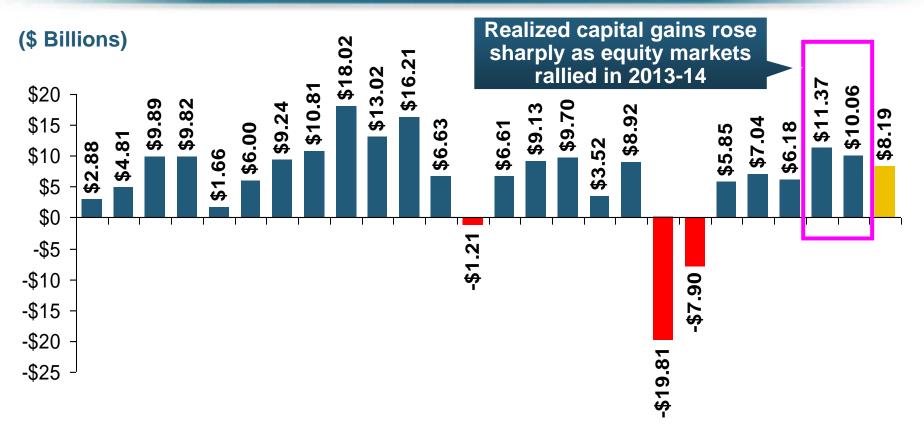
INSURANCE INFORMATION INSTITUTE



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

Sources: US Bureau of Labor Statistics; Blue Chip Economic Indicators, 11/15 (forecasts).

P/C Insurer Net Realized Capital Gains/Losses, 1990-2015:Q2



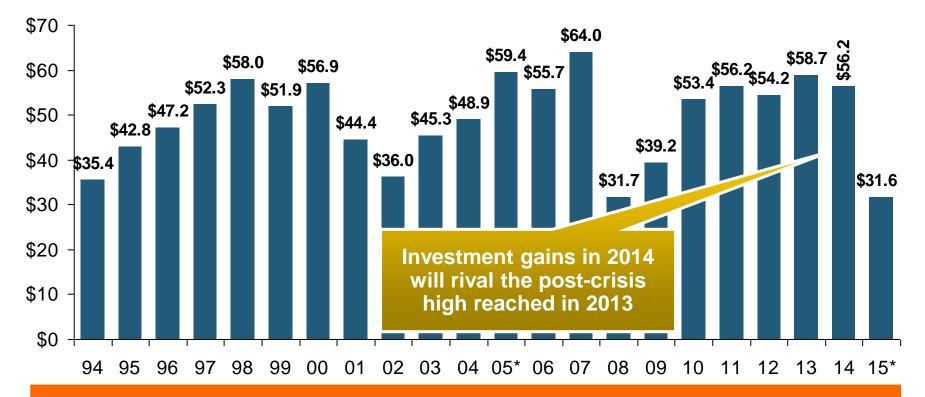
90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15*

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 Q2 2015. Sources: A.M. Best, ISO, SNL, Insurance Information Institute.

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

(\$ Billions)



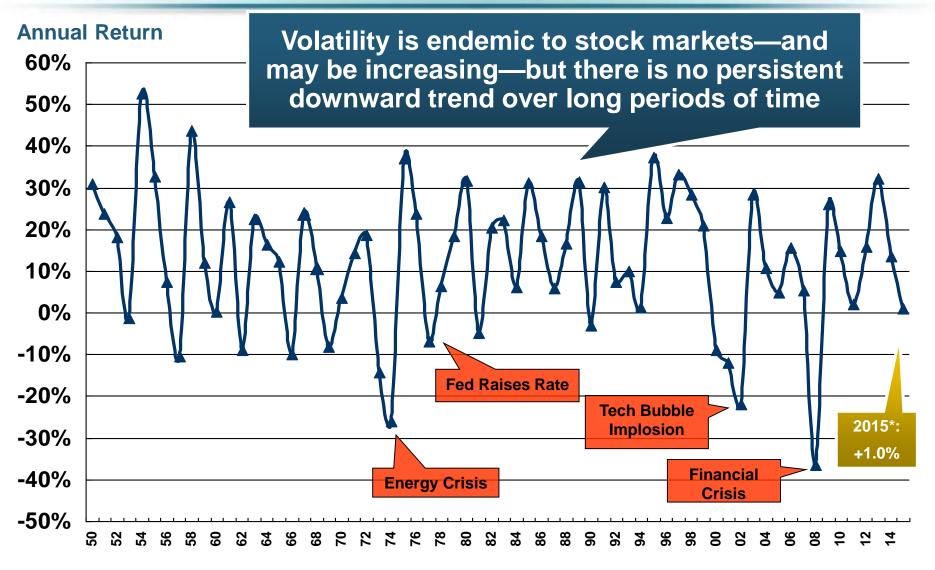
NSURANCE

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*



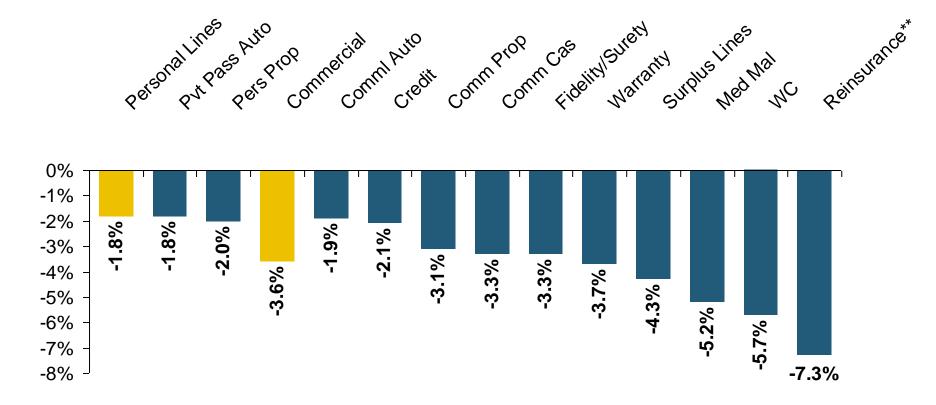


*Through Nov. 9, 2015.

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

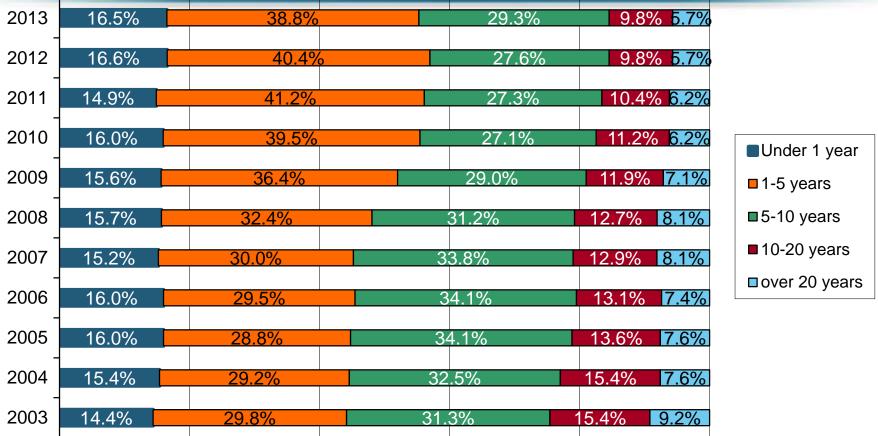
*Based on 2008 Invested Assets and Earned Premiums

**US domestic reinsurance only

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

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.

Sources: SNL Financial; Insurance Information Institute.

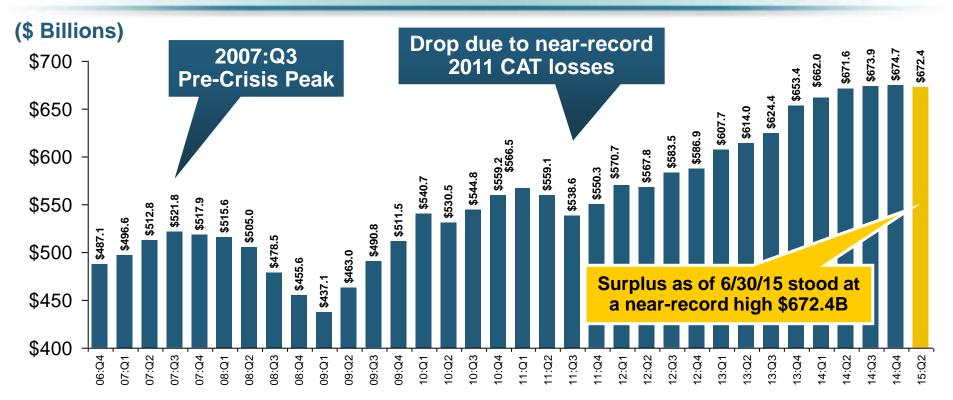


CAPITAL/CAPACITY

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 . Sources: ISO, A.M .Best.

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



Alternative Capital

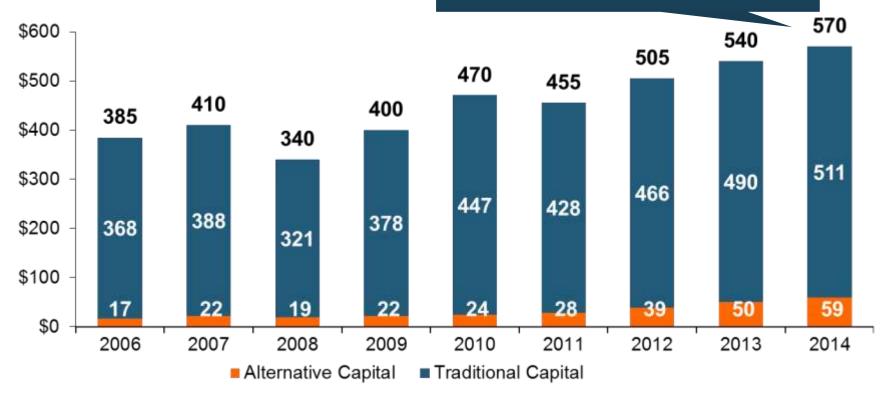
New Investors Continue to Change the Reinsurance Landscape

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

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



Total reinsurance capital reached a record \$570B in 2013, up 68% from 2008.



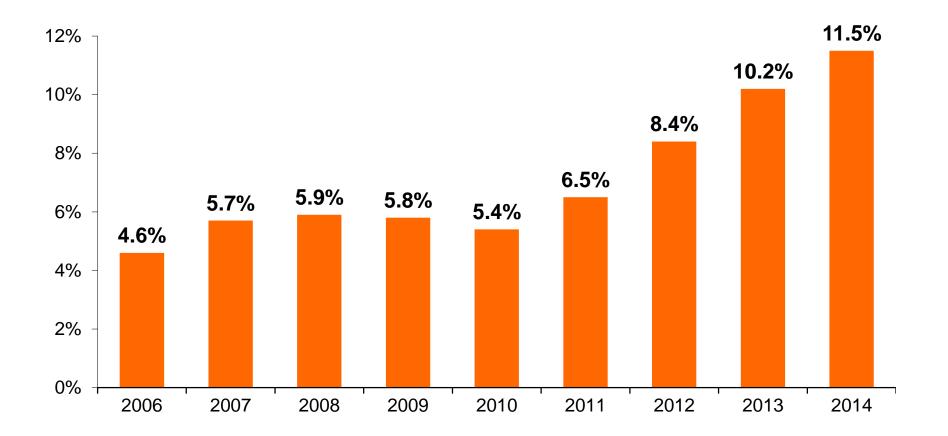
But alternative capacity has grown 210% since 2008, to \$50B. It has more than doubled in the past three years.

2014 data is as of June 30, 2014.

(Billions of USD)

Source: Aon Benfield Analytics; Insurance Information Institute.

Alternative Capital as a Percentage of Traditional Global Reinsurance Capital



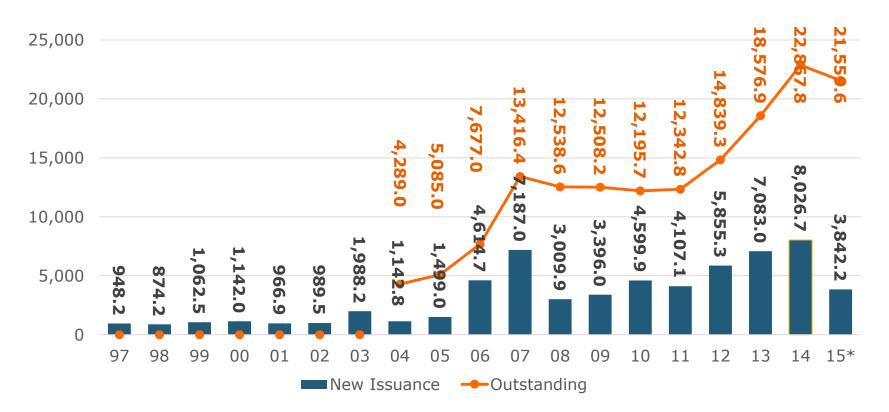
Alternative Capital's Share of Global Reinsurance Capital Has More Than Doubled Since 2010.

2014 data is as of June 30, 2014.

Source: Aon Benfield Analytics; Insurance Information Institute.

Catastrophe Bond Issuance and Outstanding: 1997-2015:Q2



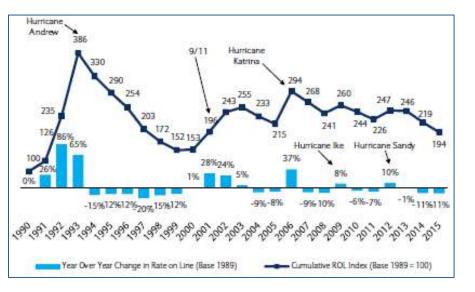


Cat Bond Issuance Appears to Be Slowing Down in 2015 from 2014's Record Pace. Lower Yields on Bonds Explain Some of the Contraction.

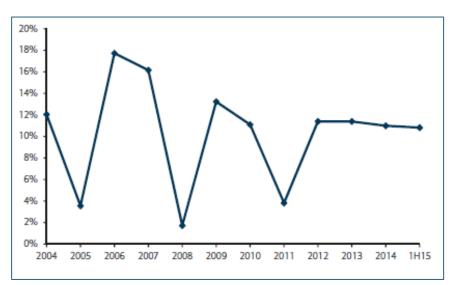
US Property CAT Rate on Line Index & Global Reinsurance ROE



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

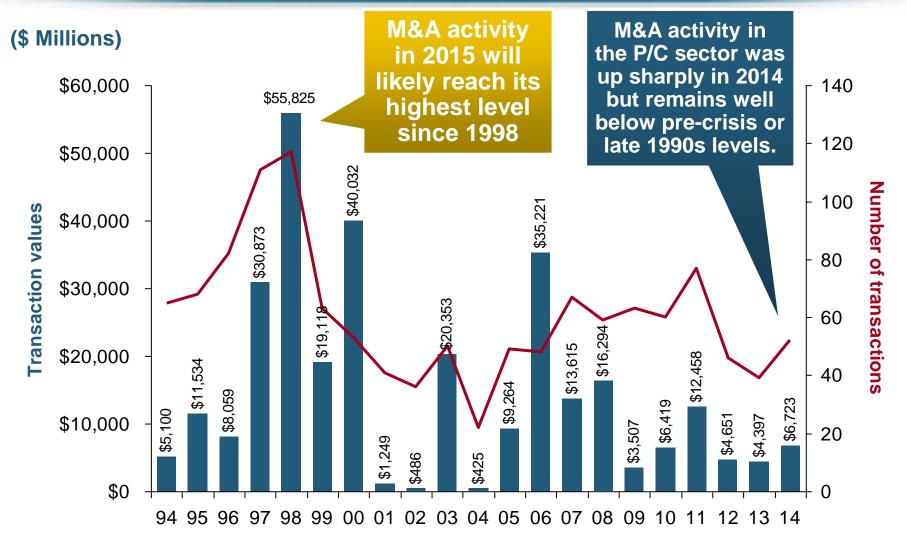
Source: Barclays PLC from Guy Carpenter; Insurance Information Institute.



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.

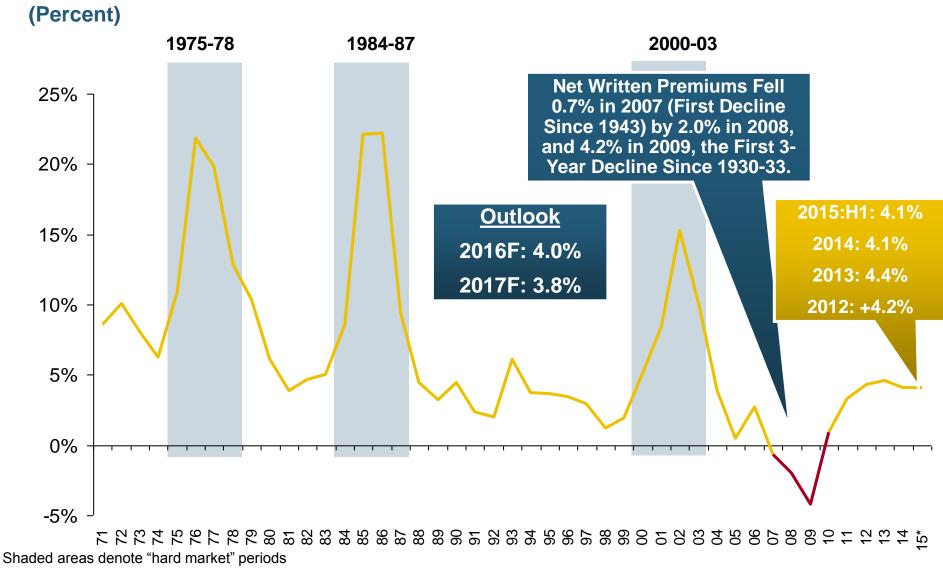
Source: Conning proprietary database.



Growth

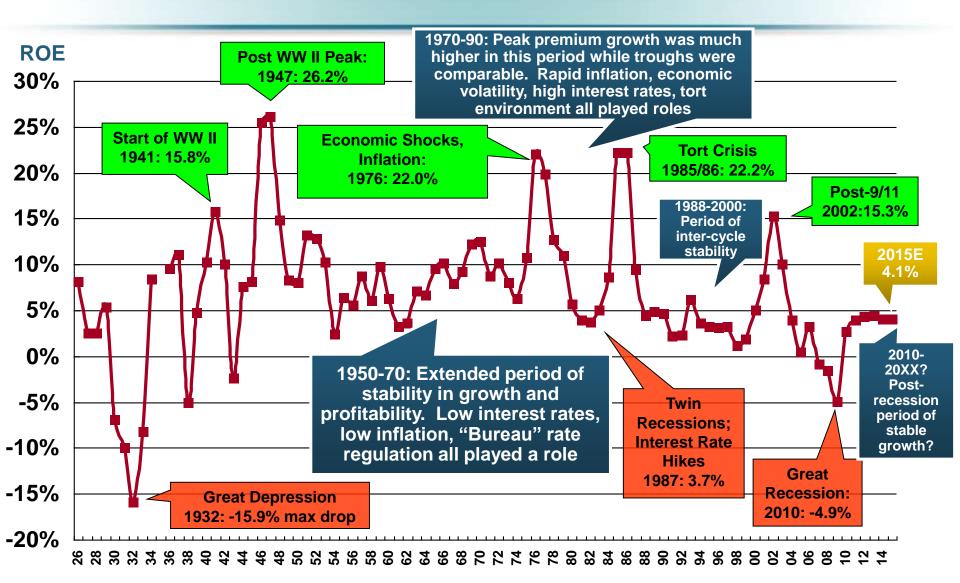
Premium Growth Rates Vary Tremendously by State and Over Time, But...

Net Premium Growth (All P/C Lines): Annual Change, 1971—2015:H1



Sources: A.M. Best (1971-2013), ISO (2014-15).

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

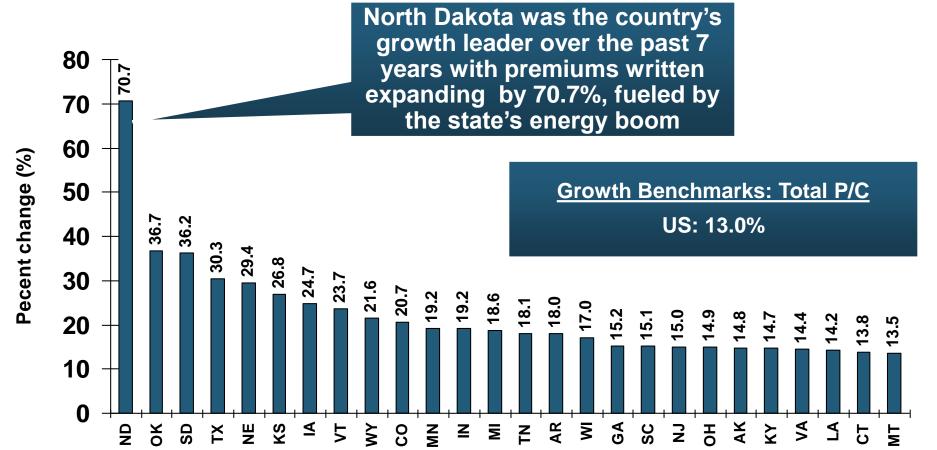


Note: Data through 1934 are based on stock companies only. Data include state funds beginning in 1998. Source: A.M. Best; Insurance Information Institute.

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



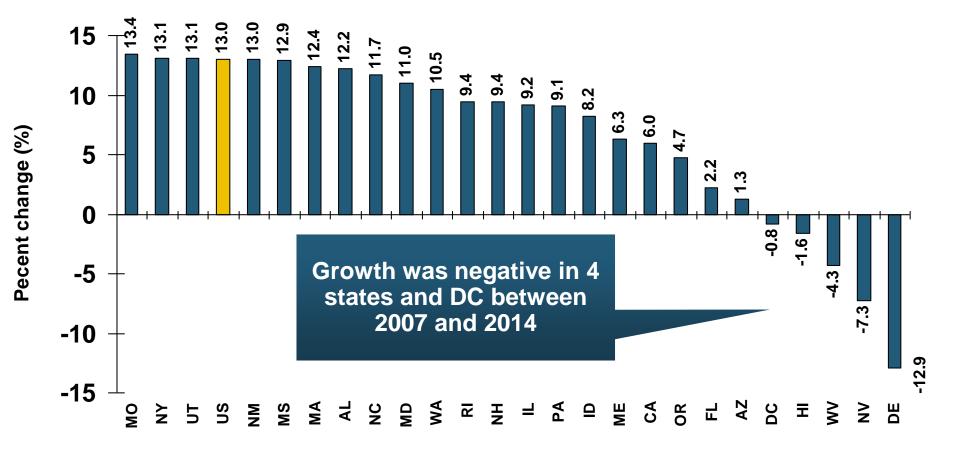




Direct Premiums Written: Total P/C Percent Change by State, 2007-2014



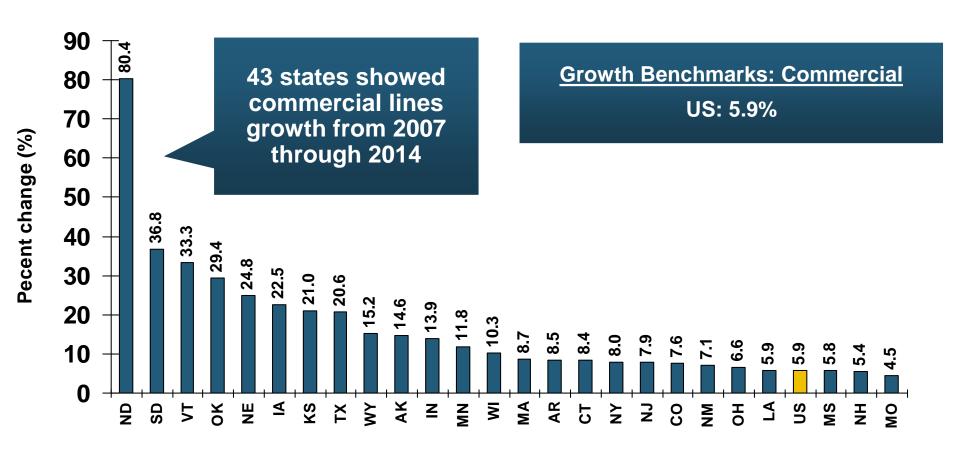
Bottom 25 States



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



Top 25 States

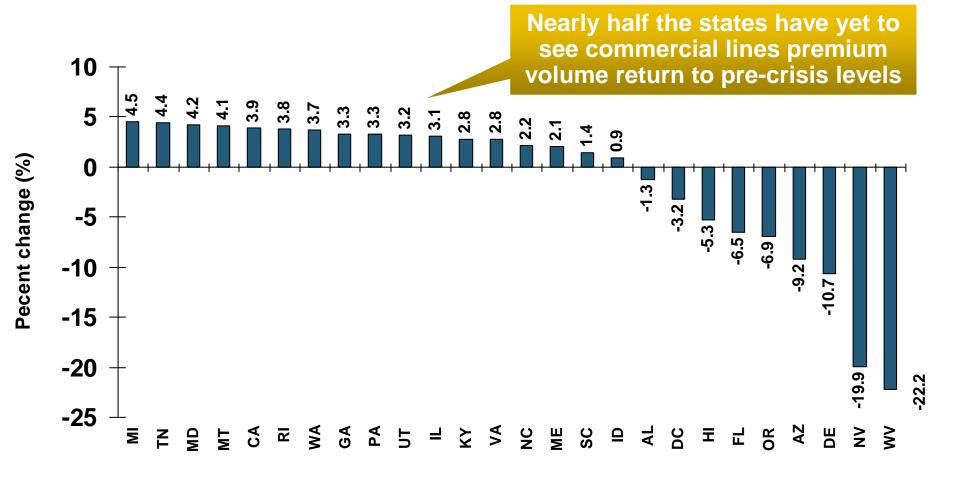


Sources: SNL Financial LLC.; Insurance Information Institute.

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



Bottom 25 States



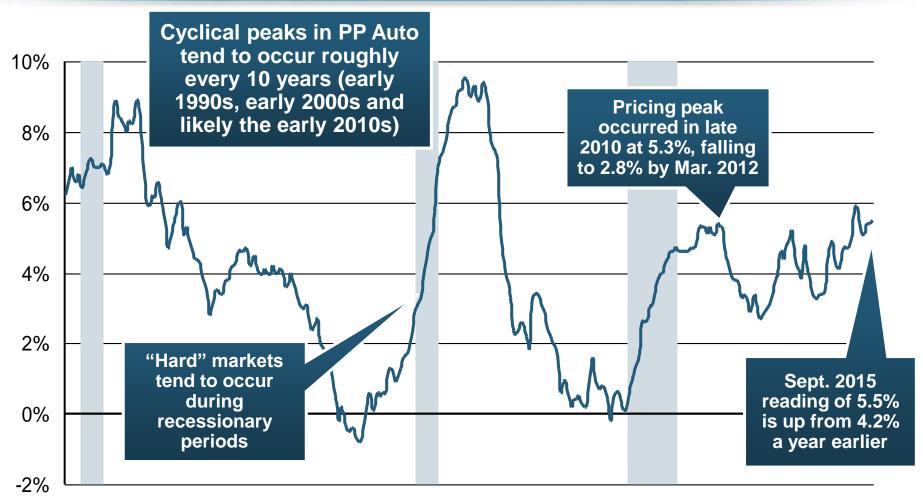


Pricing Trends

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

Monthly Change in Auto Insurance Prices, 1991–2015*





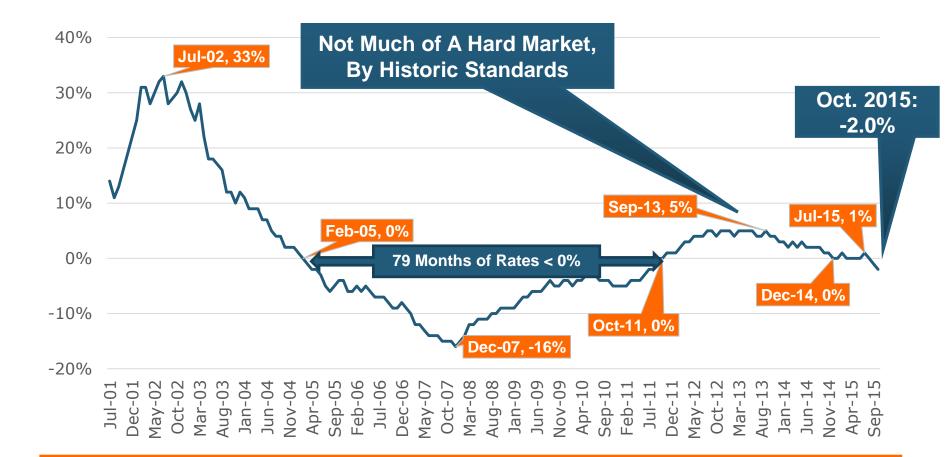
'90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15

*Percentage change from same month in prior year; through Sept. 2015; seasonally adjusted

Note: Recessions indicated by gray shaded columns.

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

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

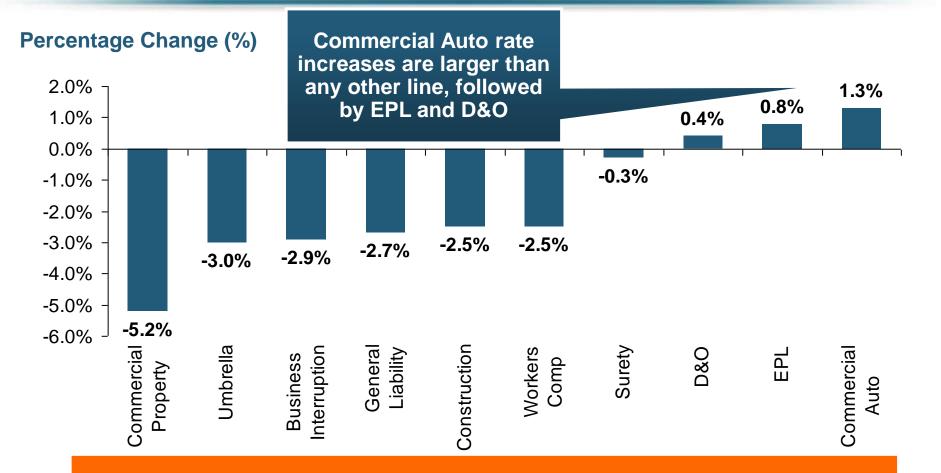


Commercial Insurance Rate Changes Are Flat to Slightly Down

SOURCE: MarketScout, Insurance Information Institute.

INSURANCE

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



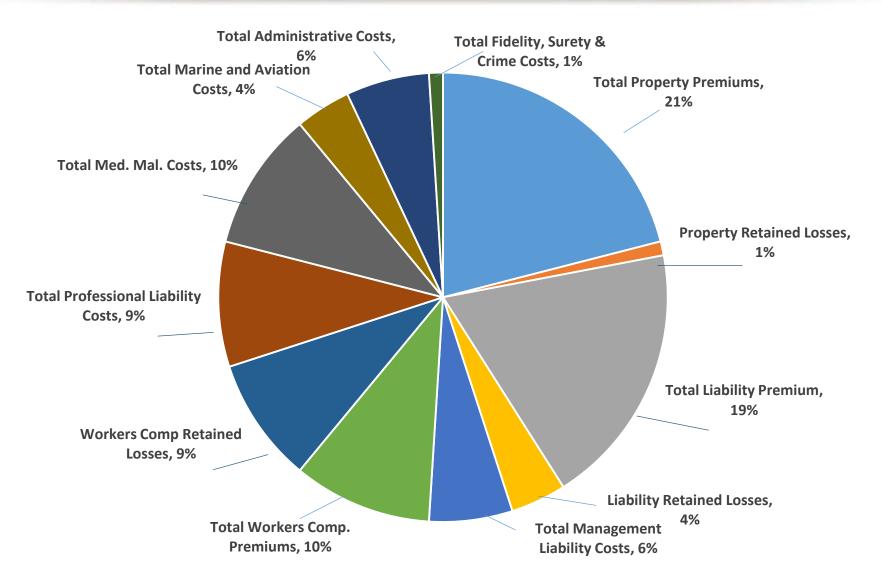
Major Commercial Lines Renewals Were Mixed to Down in Q3:2015; EPL, D&O and Commercial Saw Gains

Note: CIAB data cited here are based on a survey. Rate changes earned by individual insurers can and do vary, potentially substantially. Source: Council of Insurance Agents and Brokers; Insurance Information Institute.

INSURANCE

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



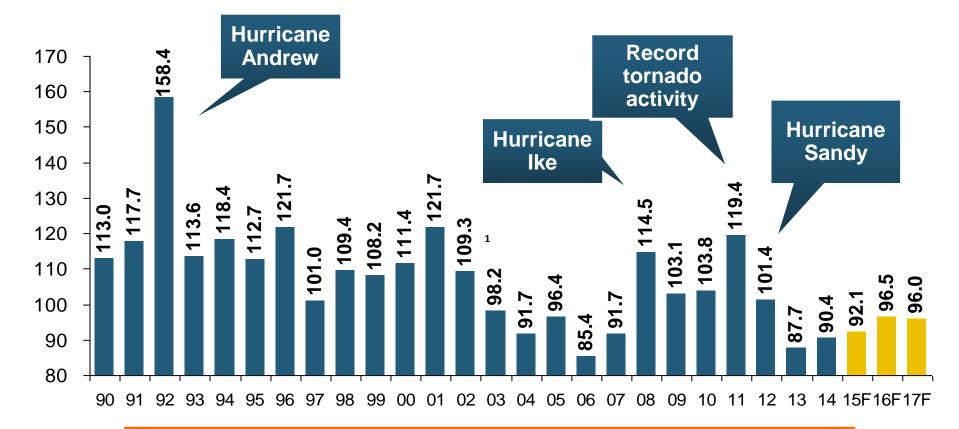


Source: 2015 RIMS Benchmark Survey; Insurance Information Institute.



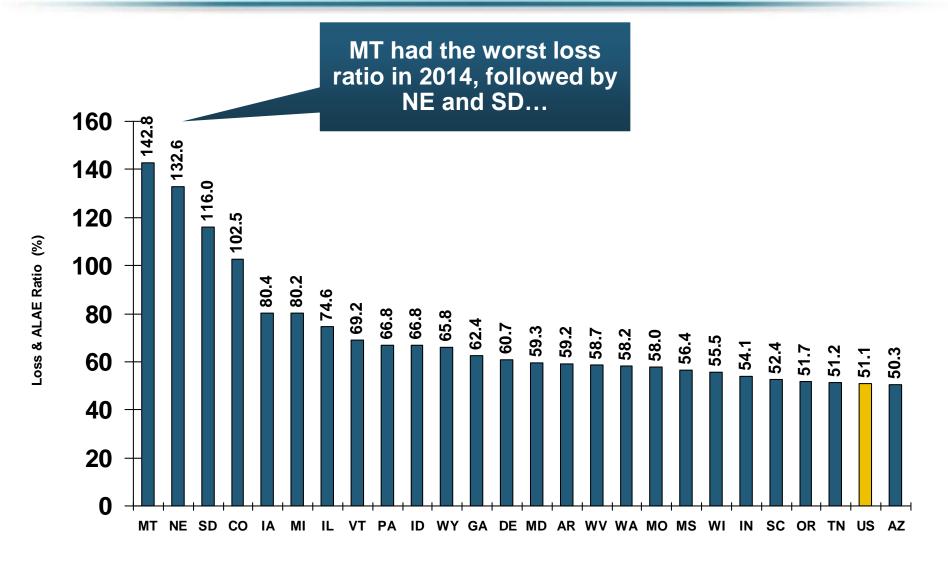
Underwriting Performance

Homeowners Insurance Combined Ratio: 1990–2017F

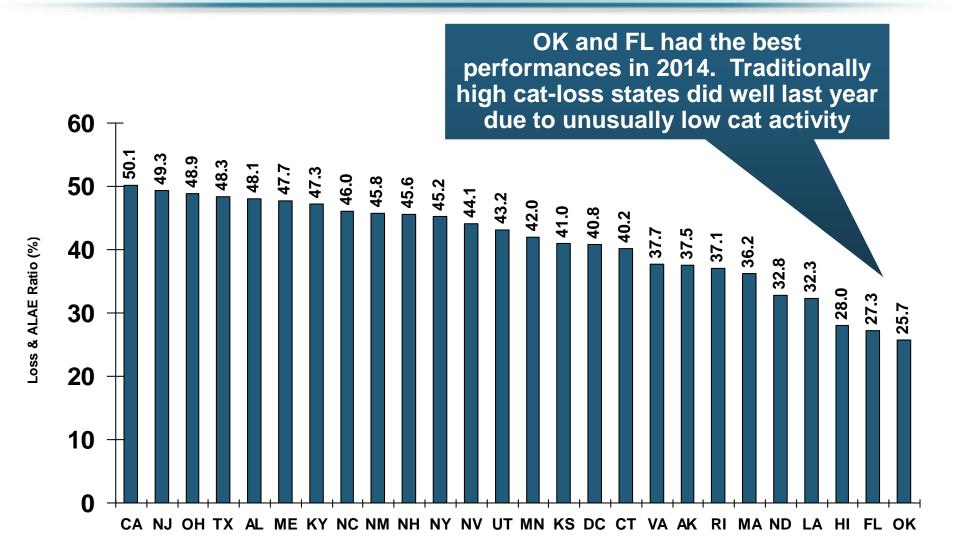


Homeowners Performance in 2011/12 Impacted by Large Cat Losses. Extreme Regional Variation Can Be Expected Due to Local Catastrophe Loss Activity

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

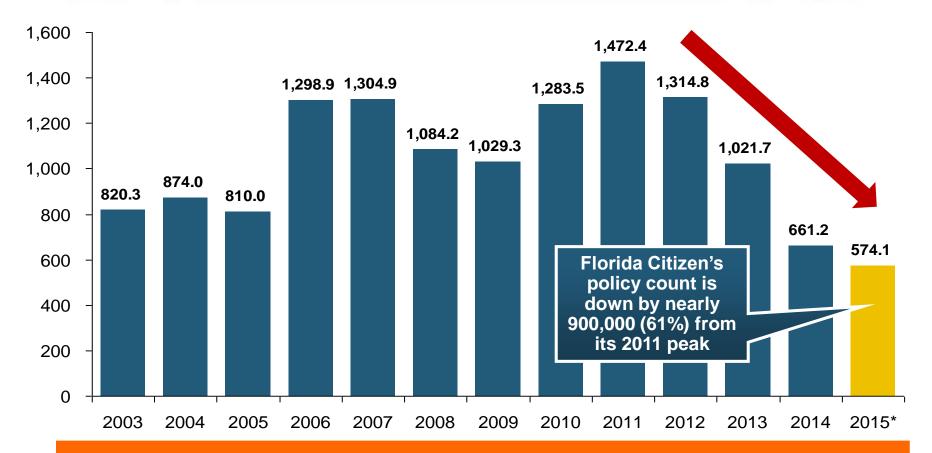


Homeowners Multi-Peril Loss & ALAE Ratio, 2014: The Insurance Institute Lowest 25 States and DC



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

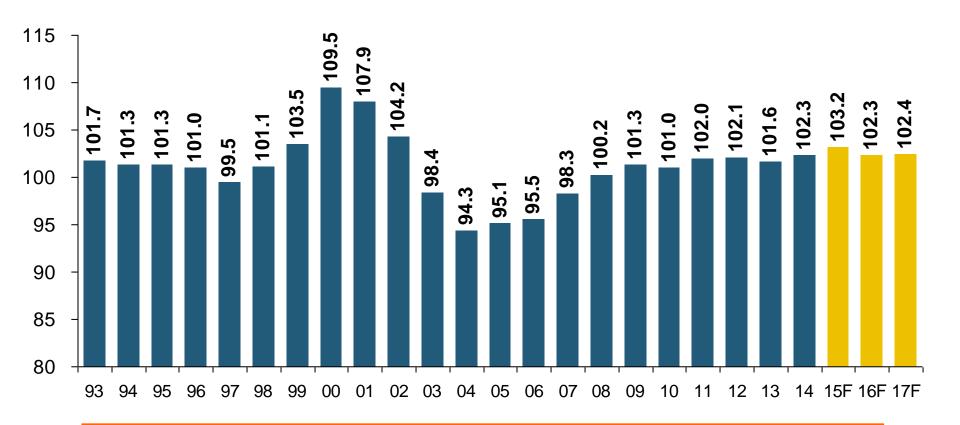




A lack of major hurricanes, ample private sector/reinsurer capital and capital market interest—combined with structural changes to Citizens—have combined to take Citizens policy count and exposure to their lowest levels in many years

*As of October 6, 2015. All other figures are as of Dec. 31. Source: Florida Citizens https://www.citizensfla.com/about/bookofbusiness/; Insurance Information Institute (I.I.I.).

Private Passenger Auto Combined Ratio: 1993–2017F

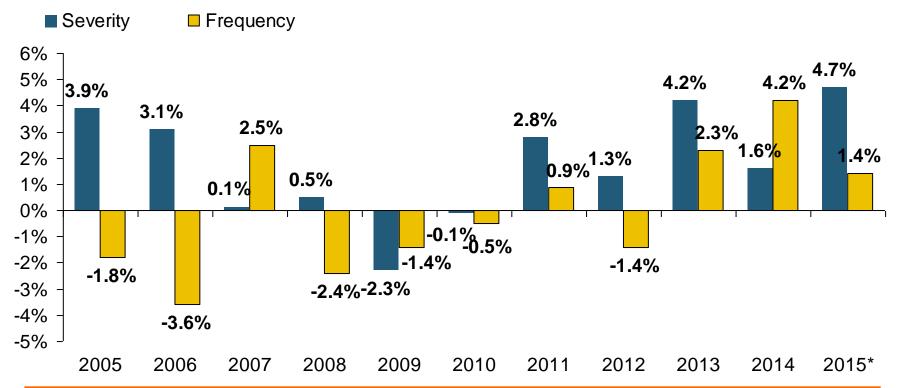


Private Passenger Auto Underwriitng Performance Is Exhibiting Remarkable Stability

Sources: A.M. Best (1990-2014); Conning (2015F – 2017F); Insurance Information Institute.

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

Annual Change, 2005 through 2015*

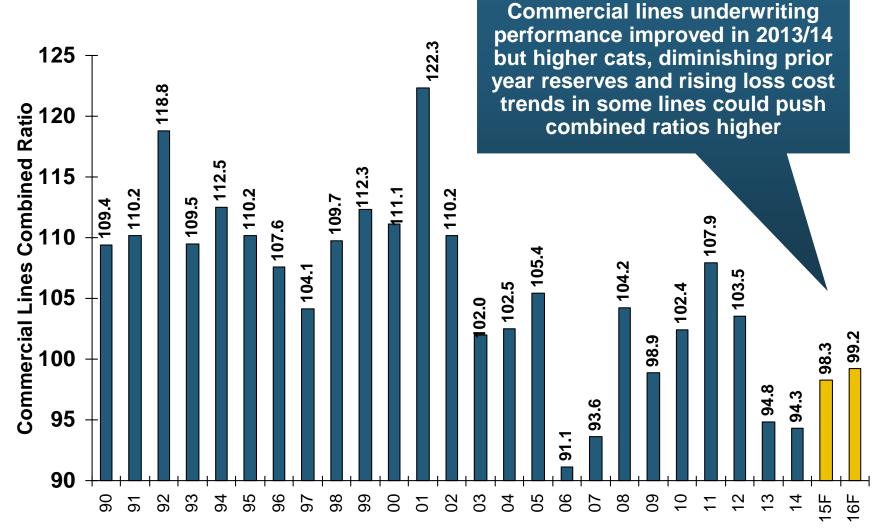


The Recession, High Fuel Prices Helped Temper Frequency and Severity, But this Trend Will Likely Be Reversed Based on Evidence from Past Recoveries

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

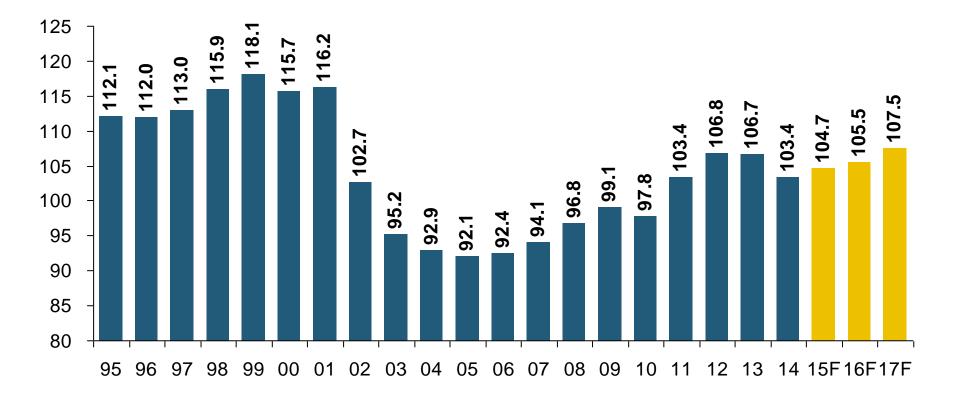
Commercial Lines Combined Ratio, 1990-2016F*

INSURANCE INFORMATION INSTITUTE



*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

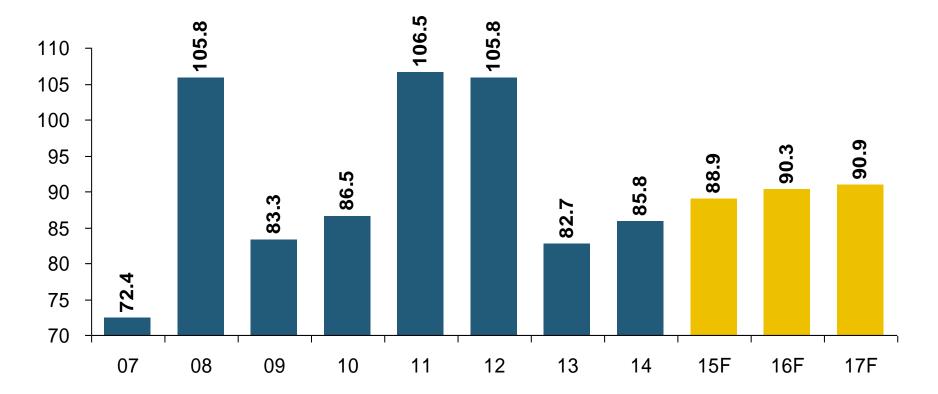


Commercial Auto is Expected to Improve Only Slowly as Rate Gains Barely Offset Adverse Frequency and Severity Trends

Sources: A.M. Best (1990-2014); Conning (2015F-2017F); Insurance Information Institute.

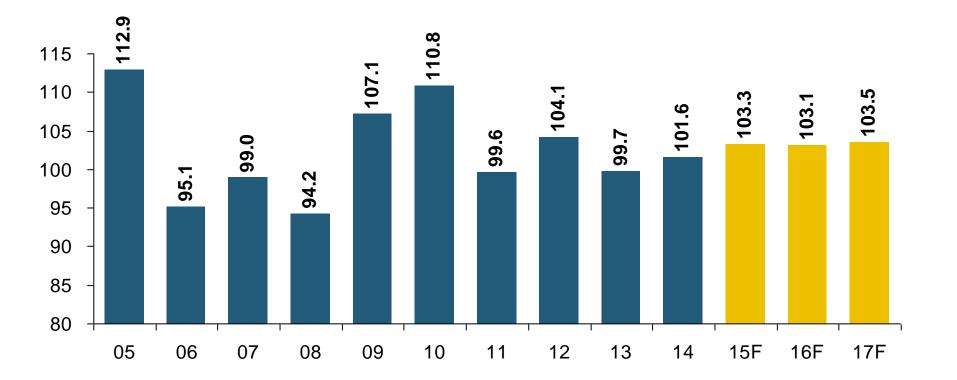
Commercial Property Combined Ratio: 2007–2017F





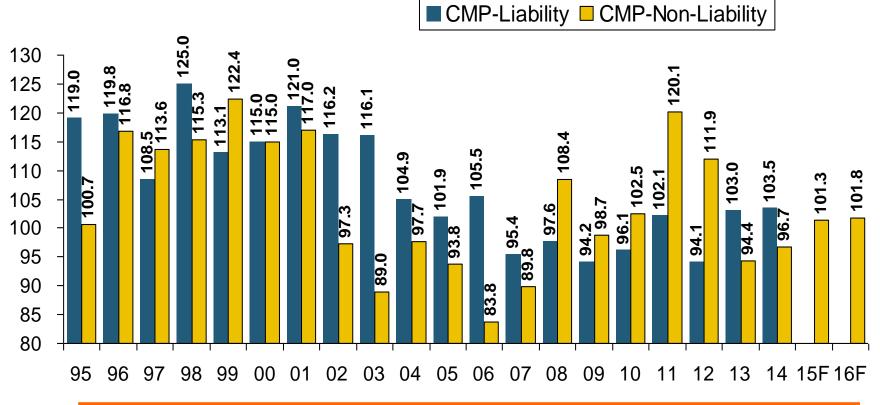
Commercial Property Underwriting Performance Has Been Volatile in Recent Years, Largely Due to Fluctuations in CAT Activity

General Liability Combined Ratio: 2005–2017F



Commercial General Liability Underwriting Performance Has Been Volatile in Recent Years

Commercial Multi-Peril Combined Ratio: 1995–2016F

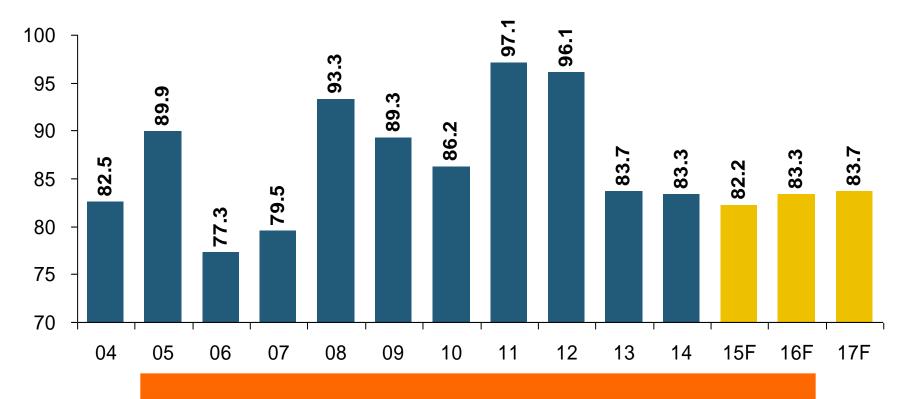


Commercial Multi-Peril Underwriting Performance is Expected to Remains Stable in 2015 Assuming Normal Catastrophe Loss Activity

*2015F-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

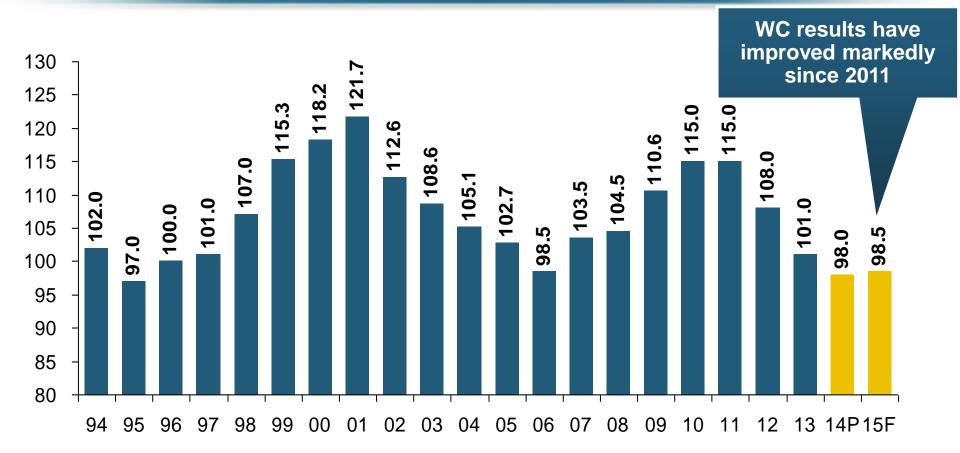




Inland Marine Underwriting Performance Has Been Consistently Strong for Many Years

Source: A.M. Best (2004-2014); Conning Research and Consulting (2015F-2017F).

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.

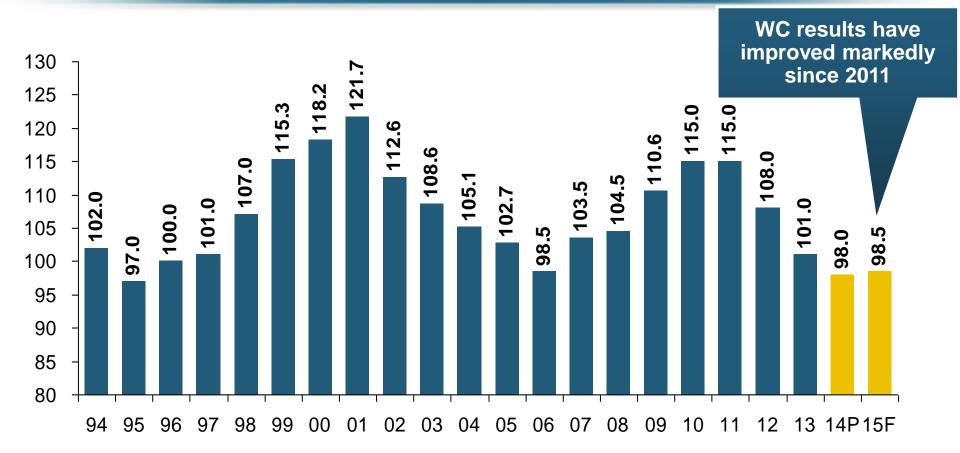
Sources: A.M. Best (1994-2009); NCCI (2010-2014P) and are for private carriers only; Insurance Information Institute (2015F).



Workers Compensation Operating Environment

Workers Comp Results Have Improved Substantially in Recent Years

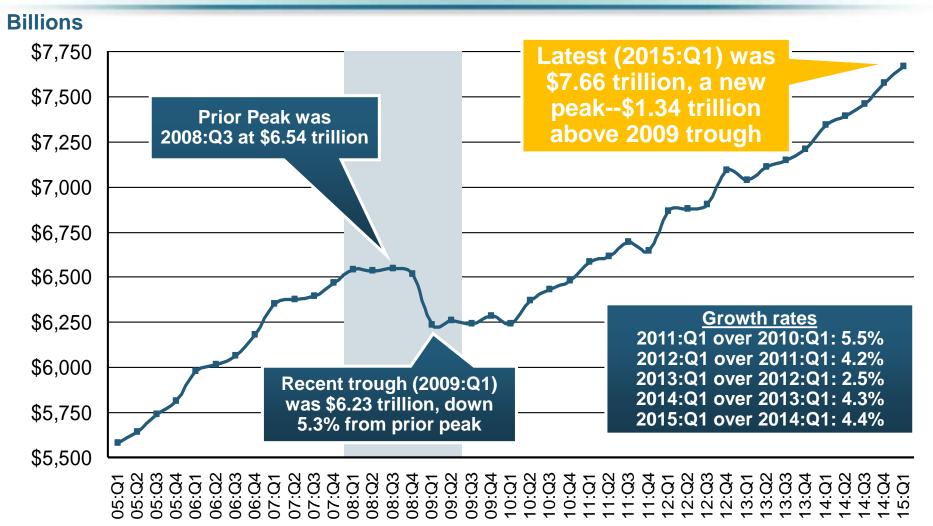
Workers Compensation Combined Ratio: 1994–2015F



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.

Sources: A.M. Best (1994-2009); NCCI (2010-2014P) and are for private carriers only; Insurance Information Institute (2015F).

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

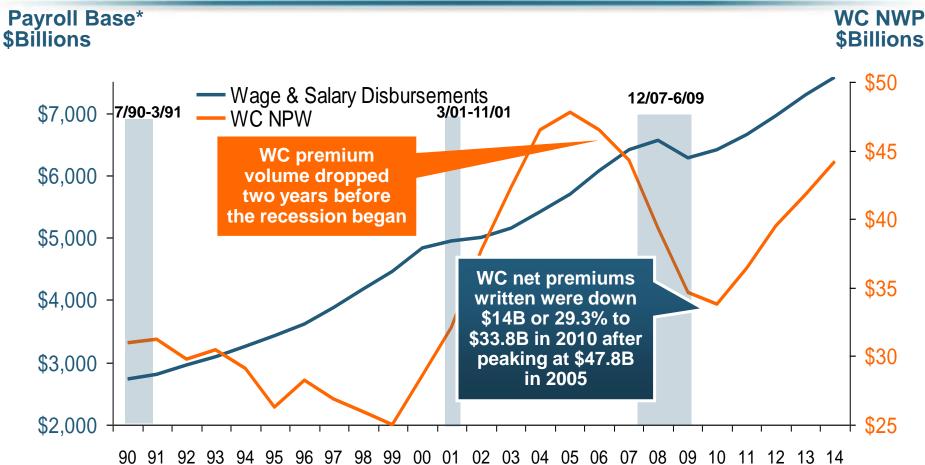


Note: Recession indicated by gray shaded column. Data are seasonally adjusted annual rates.

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

ISURANCE

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

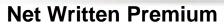


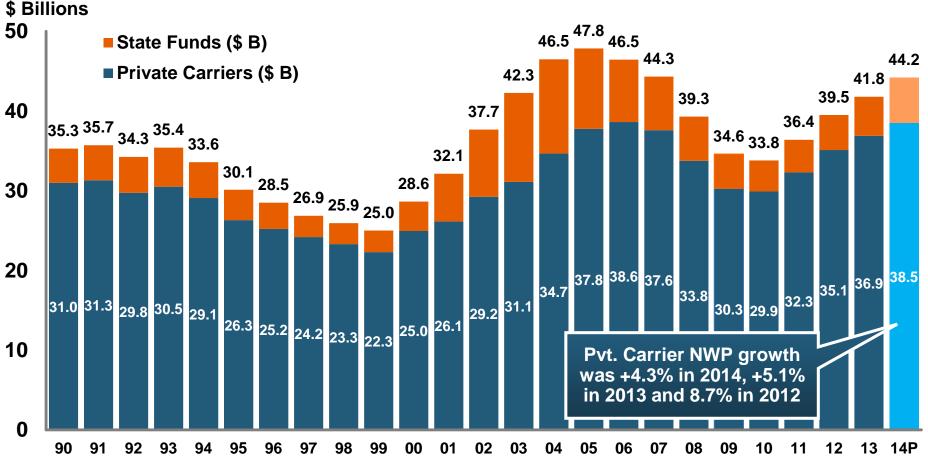
Continued Payroll Growth and Rate Gains Suggest WC NWP Will Grow Again in 2015

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

INSURANCE

Workers Compensation Premium: Fourth Consecutive Year of Increase





p Preliminary

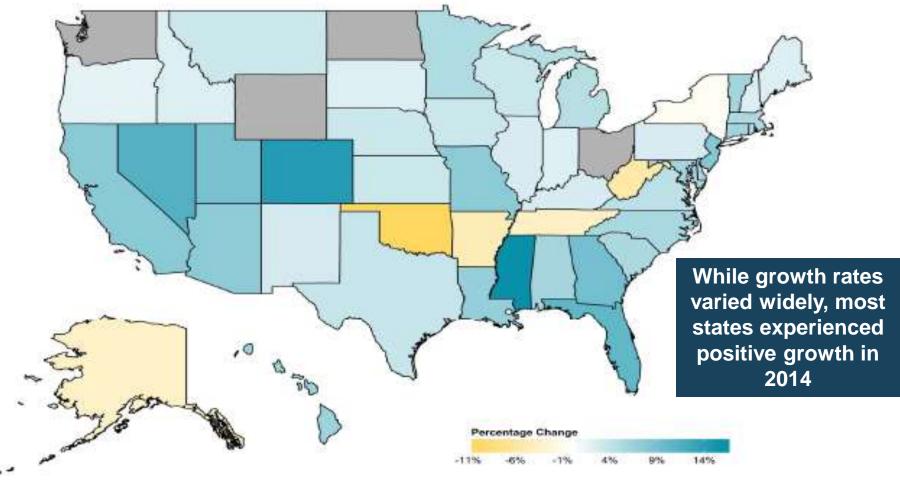
Source: NCCI from Annual Statement Data.

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%



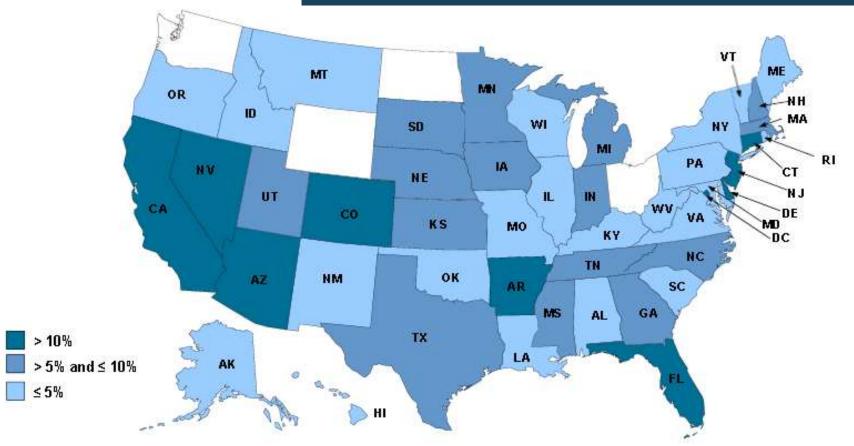
*Excludes monopolistic fund states (in gray): OH, ND, WA and WY. Source: NCCI.

2013 Workers Compensation Direct Written Premium Growth, by State*



PRIVATE CARRIERS: Overall 2013 Growth = +5.4%

While growth rates varied widely, all states experienced positive growth in 2013



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

Workers Compensation Components of Written Premium Change, 2013 to 2014

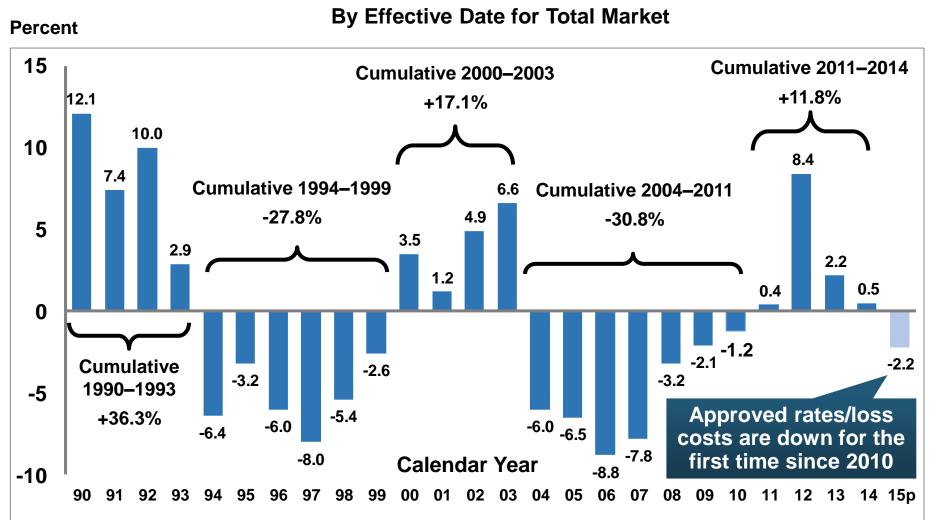


| Written Premium Change from 2013 to 2 | 2014 |
|--|-------|
| Net Written Premium—Countrywide | +4.6% |
| Direct Written Premium—Countrywide | +4.6% |
| Direct Written Premium—NCCI States | +4.5% |
| Components of DWP Change for NCCI States | |
| Change in Carrier Estimated Payroll | +4.7% |
| Change in Bureau Loss Costs and Mix | -1.4% |
| Change in Carrier Discounting | +0.4% |
| Change in Other Factors | +0.8% |
| Combined Effect | +4.5% |

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)





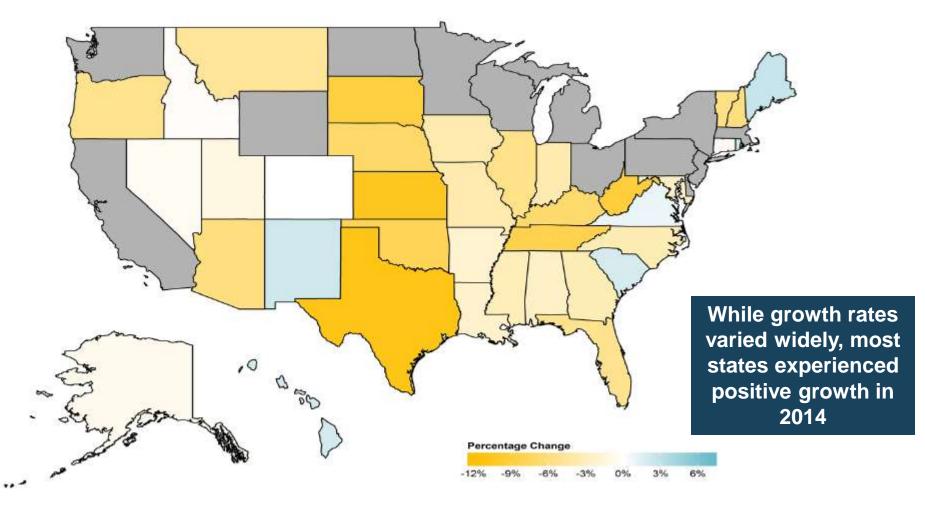
*States approved through 4/24/15.

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



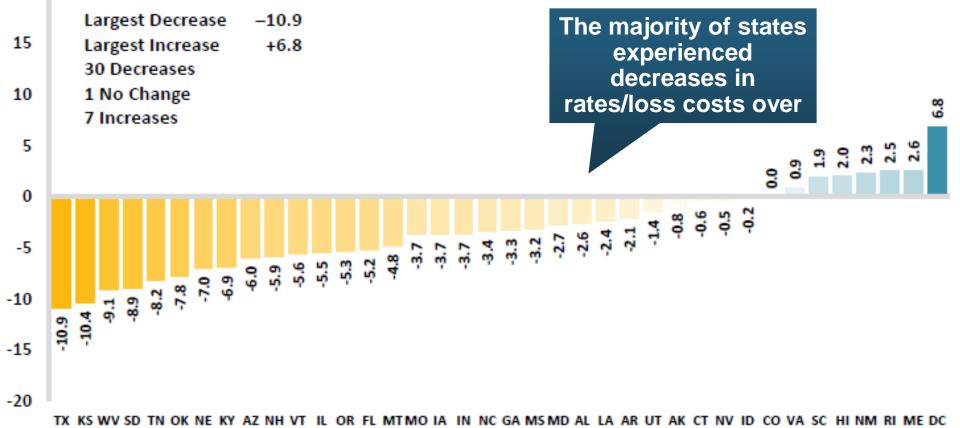
*Excludes monopolistic fund states (in gray): OH, ND, WA and WY. Source: NCCI.

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

20

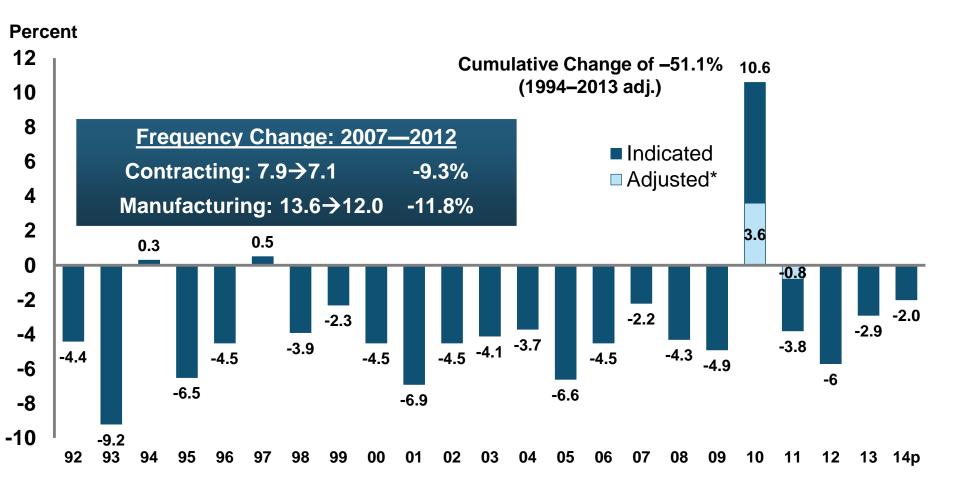






Note: Premium level changes are approved changes are approved or filed and pending changes in advisory rates, loss costs and rating values as of 4/24/15 as filed by applicable rating organization, relative to those previously approved. SC is filed and pending. IN and NC are in cooperation with state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

Workers Compensation Lost-Time Claim Frequency Declined in 2014



Accident Year

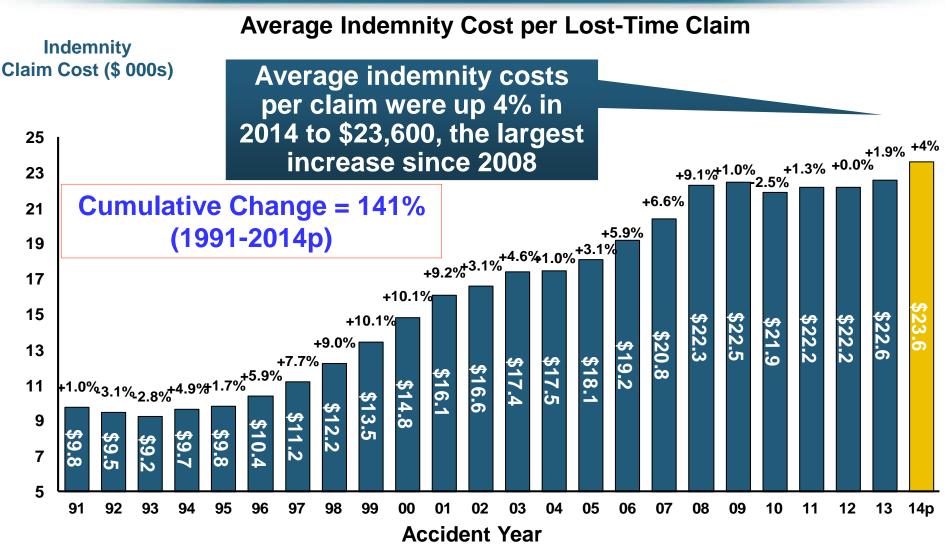
*Adjustments primarily due to significant audit activity. 2014p: Preliminary based on data valued as of 12/31/2014.

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

INSURANCE

Workers Comp Indemnity Claim Costs: Modest Increase in 2014



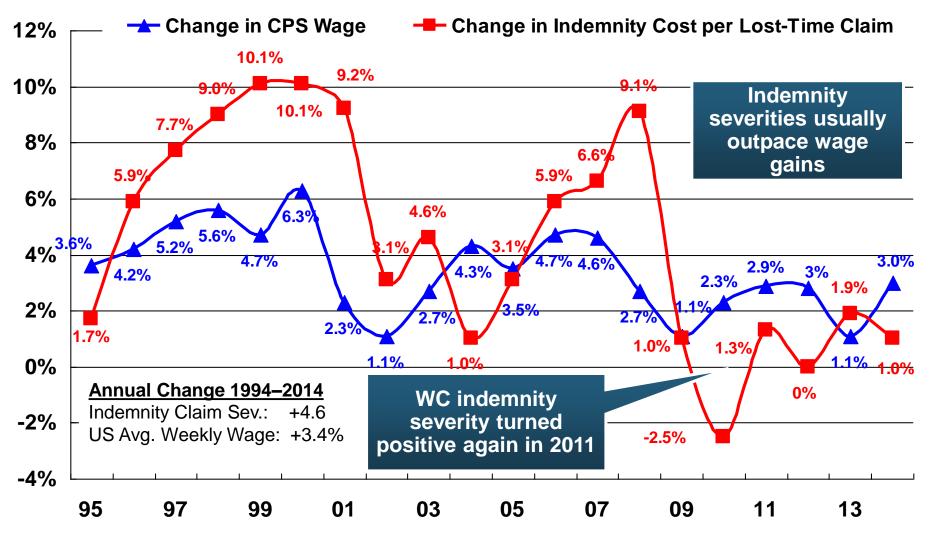


2014p: Preliminary based on data valued as of 12/31/2014.

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

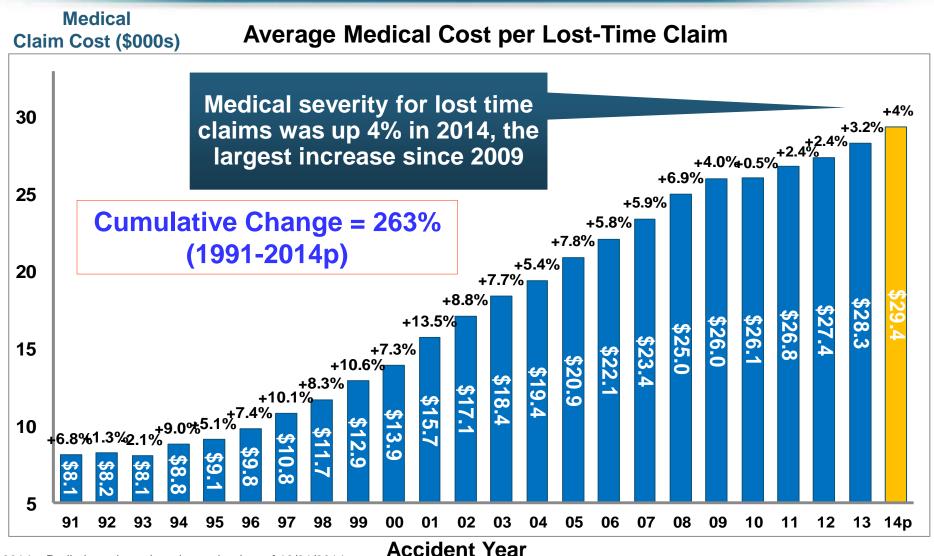
Based on the states where NCCI provides ratemaking services including state funds, excluding WV; Excludes high deductible policies.

WC Indemnity Severity vs. Wage Inflation, **11 INFORMATION** 1995-2014p



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

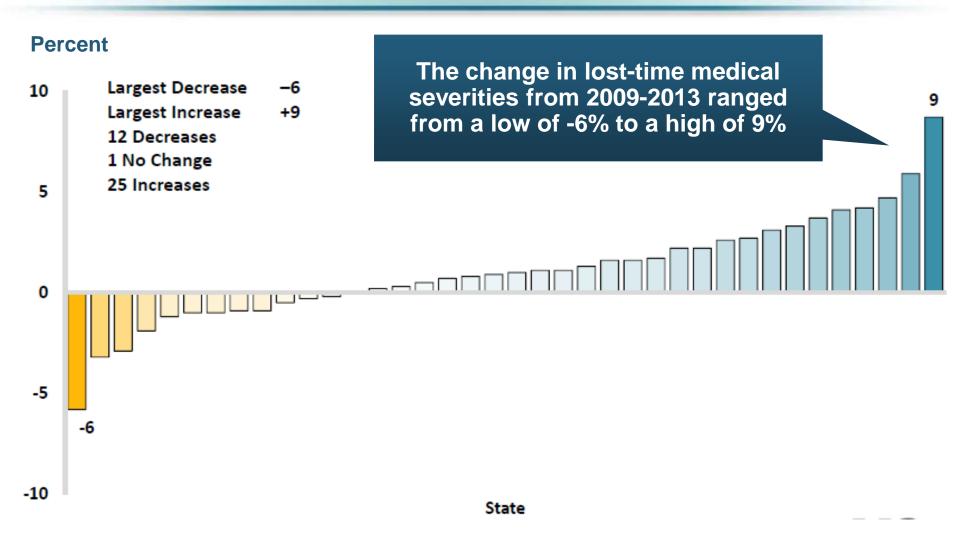


2014p: Preliminary based on data valued as of 12/31/2014.

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

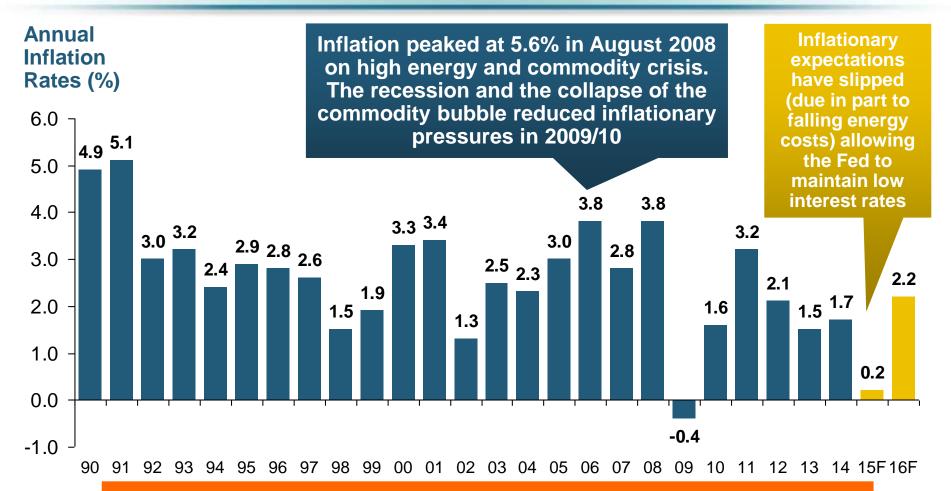


Source: NCCI's Analysis of Frequency and Severity of Claims Across the Country as of 12/31/13 on ncci.com. Values reflect methodology and state data underlying the most recent rate/lost cost filing. TX changes are for the years 2010-2013.

INSURANCE

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

INSURANCE INFORMATION INSTITUTE



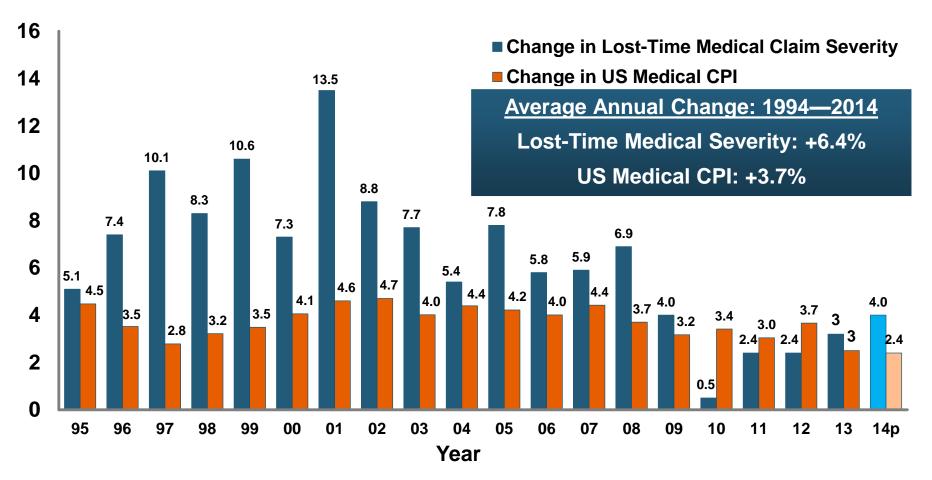
Slack in the U.S. economy and falling energy prices suggests that inflationary pressures should remain subdued for an extended period of times

Sources: US Bureau of Labor Statistics; Blue Chip Economic Indicators, 5/15 (forecasts).

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.

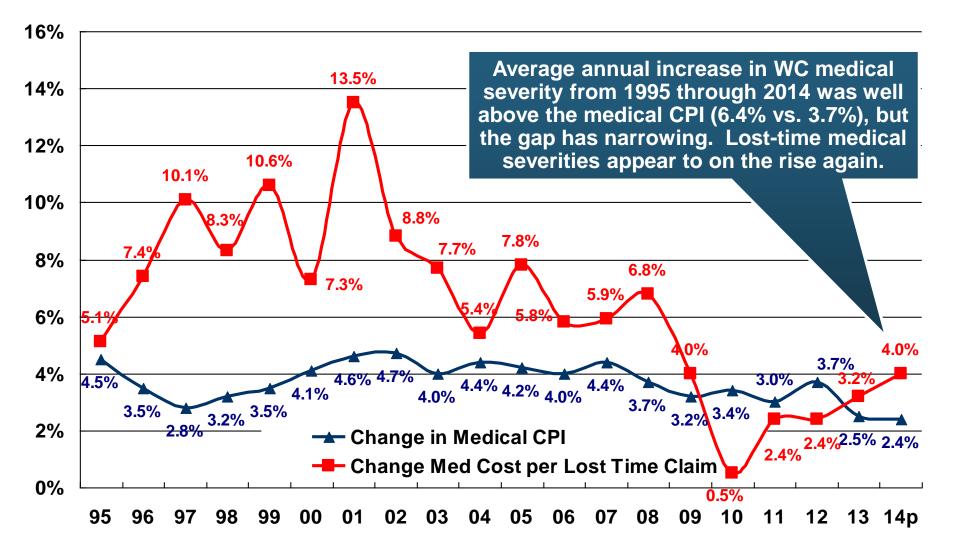
Sources: Severity: 995-2013: Based on data through 12/31/2013, developed to ultimate

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.



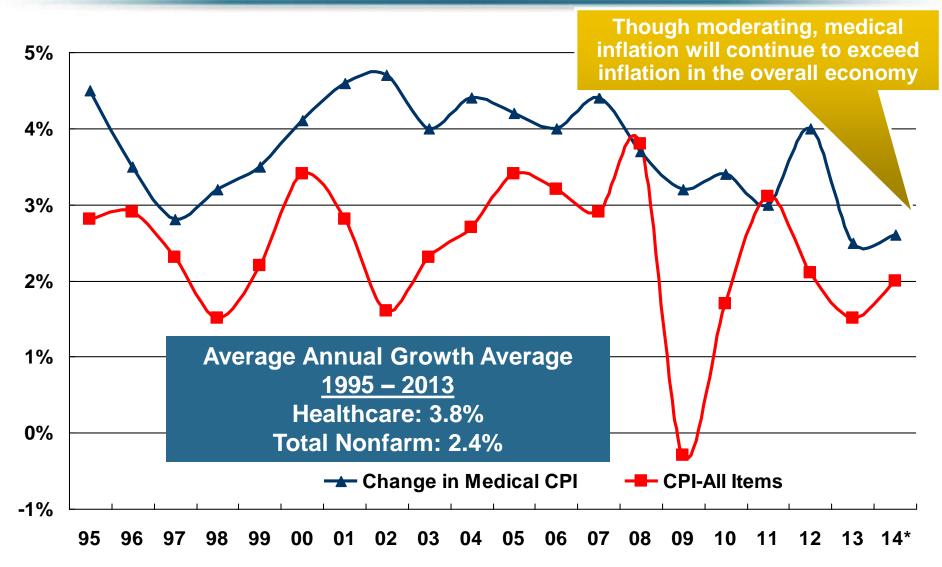
WC Medical Severity Generally Outpaces the Medical CPI Rate



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

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



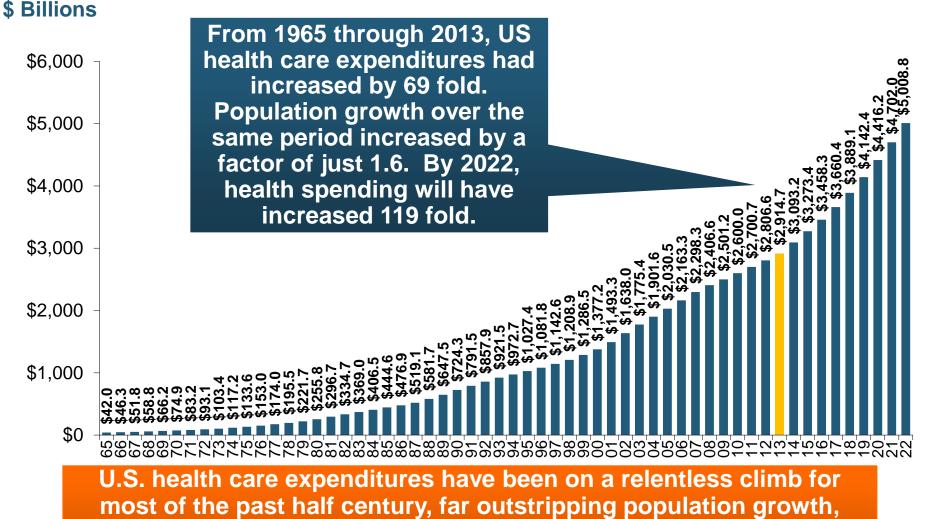


*July 2014 compared to July 2013.

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



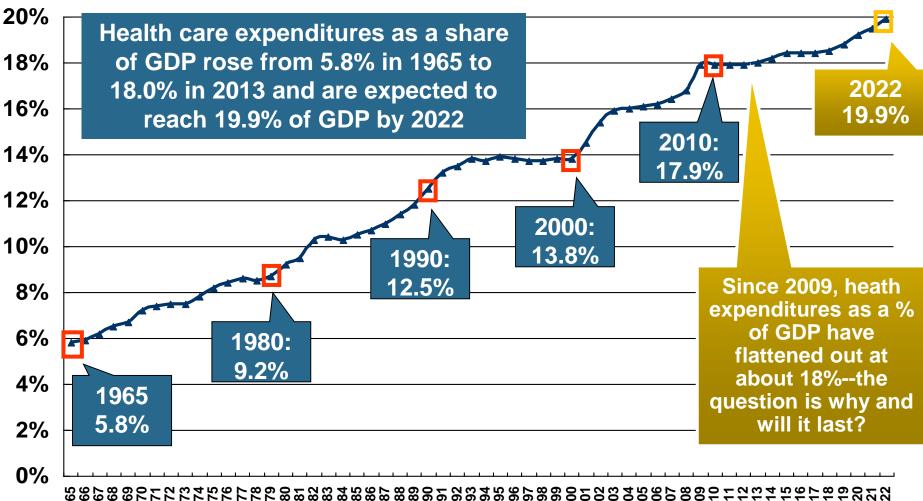


inflation of GDP growth

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

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





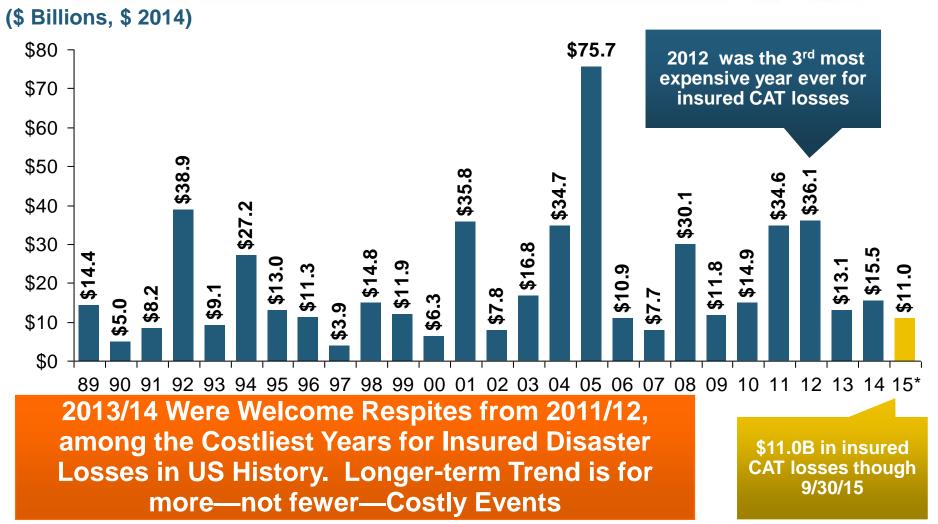
Sources: Centers for Medicare & Medicaid Services, Office of the Actuary at <u>http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/NationalHealthExpendData/NationalHealthAccountsProjected.html</u> accessed 3/14/14; Insurance Information Institute.



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



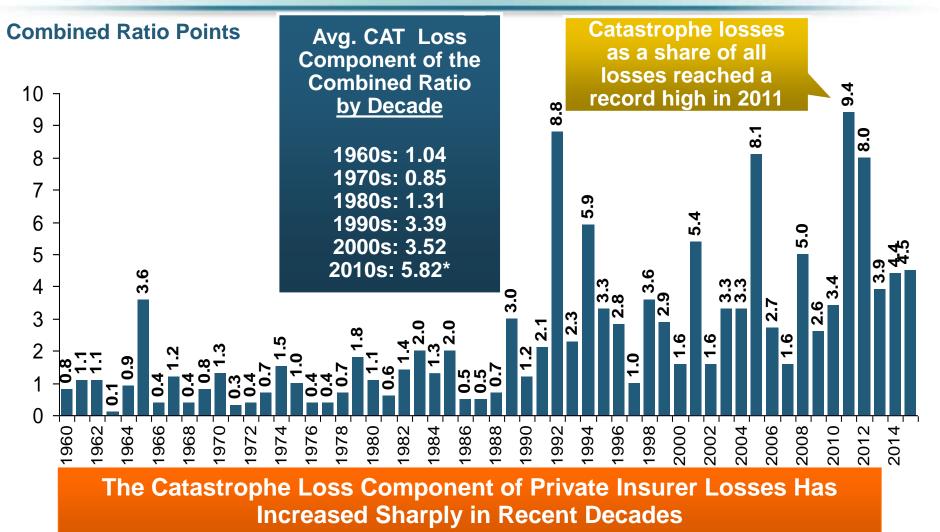
*Through 9/30/15 in 2015 dollars.

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.

NSURANCE

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



*2010s 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.

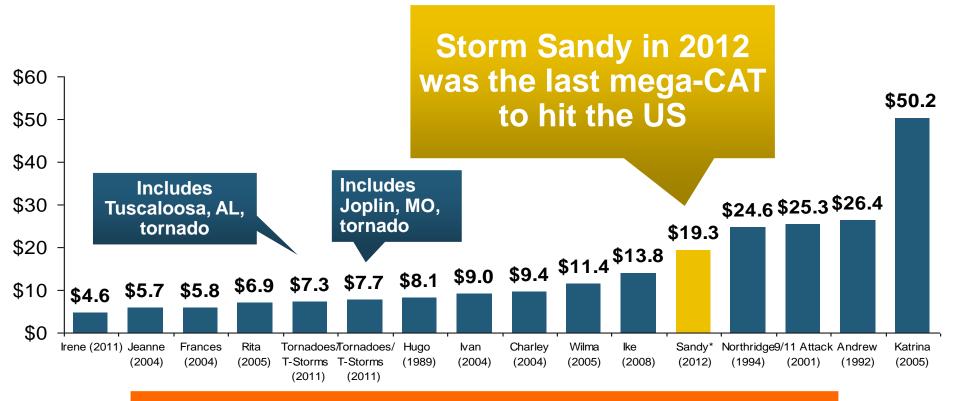
Source: ISO (1960-2010); A.M. Best (2011-15E) Insurance Information Institute.

INSURANCE

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



(Insured Losses, 2014 Dollars, \$ Billions)

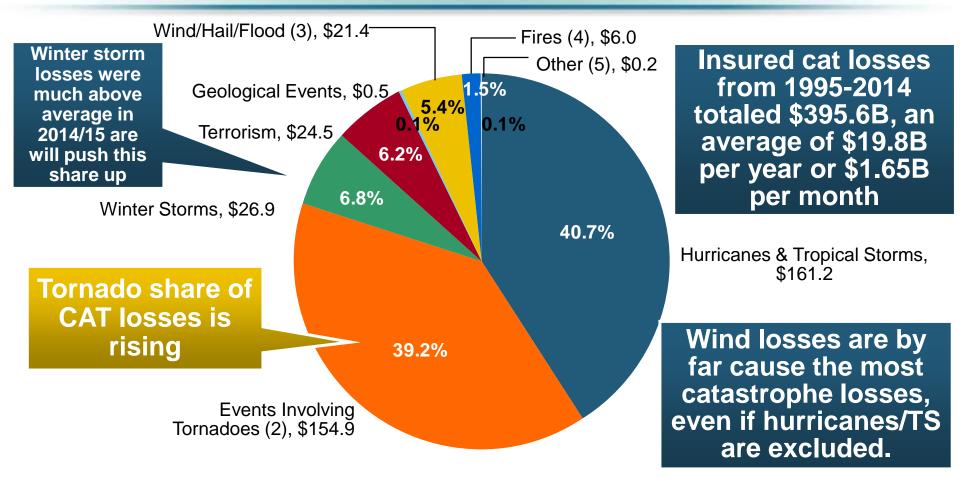


12 of the 16 Most Expensive Events in US History Have Occurred Since 2004

Sources: PCS; Insurance Information Institute inflation adjustments to 2014 dollars using the CPI.

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

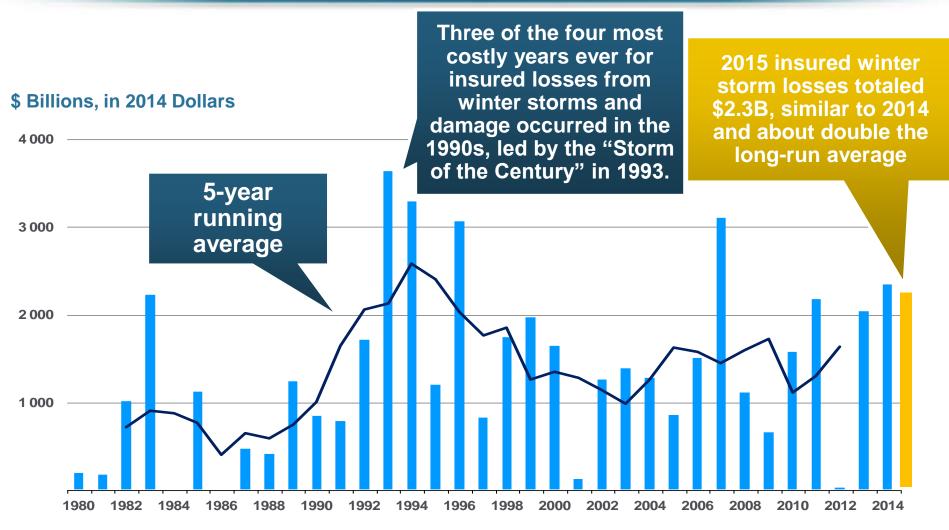




- 1. Catastrophes are defined as events causing direct insured losses to property of \$25 million or more in 2014 dollars.
- 2. Excludes snow.
- 3. Does not include NFIP flood losses
- 4. Includes wildland fires

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\$)



*Winter storms include winter damage, blizzard, snow storm and cold wave

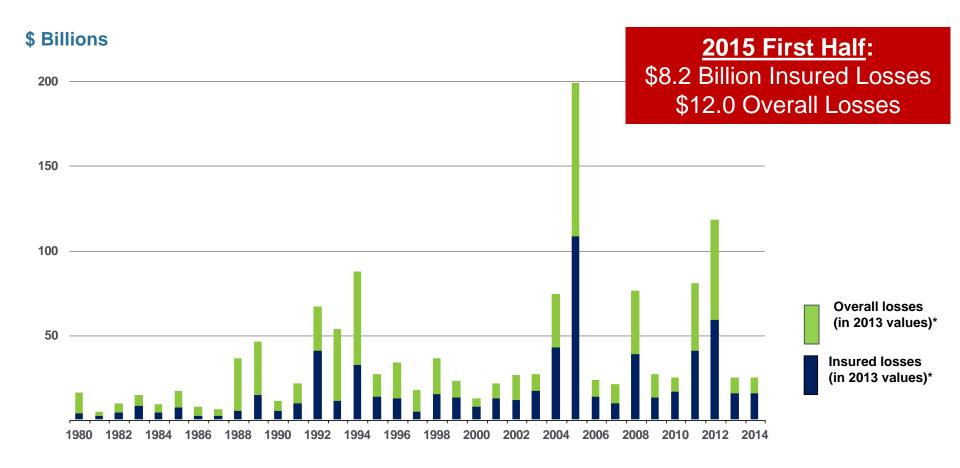
**Losses adjusted to inflation based on country CPI

Source: Property Claim Services, MR NatCatSERVICE.

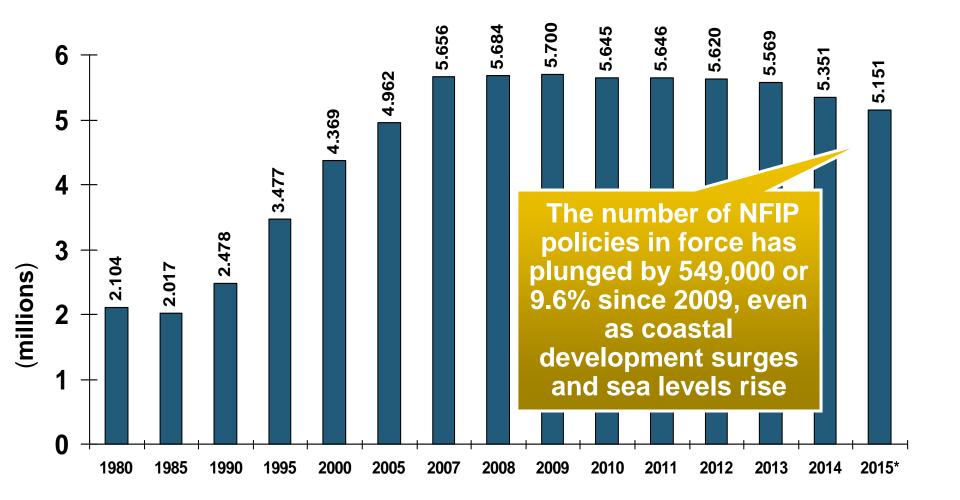
Loss Events in the US, 1980 – 2014 Overall and Insured Losses



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



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



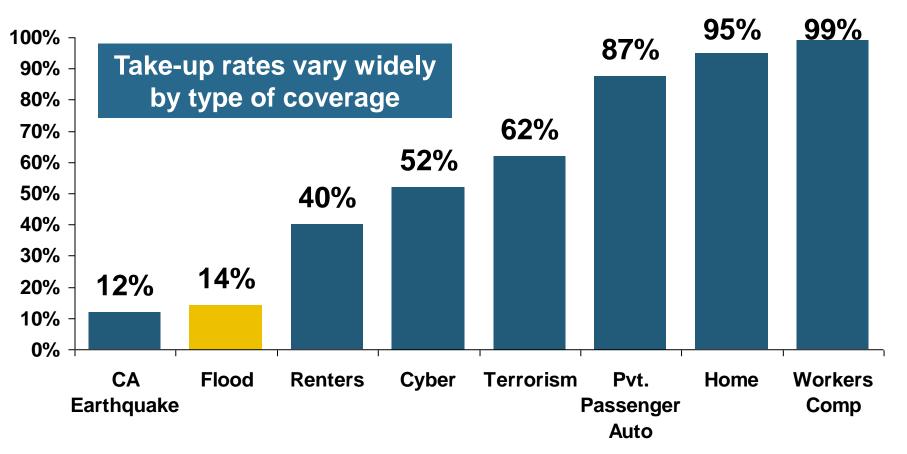
Source: National Flood Insurance Program.

* As of July, 2015

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

INSURANCE INFORMATION INSTITUTE

Take-Up Rate

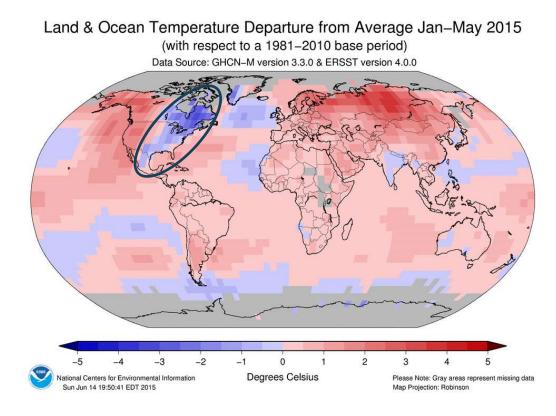


Sources: CA Earthquake (WSJ, <u>http://www.wsj.com/articles/california-pushes-homeowners-to-insure-against-earthquakes-1440980138</u>); Flood and Renters (I.I.I. June 2015 Pulse Survey); Cyber (Advisen, 2015); Terrorism (Marsh Global Analytics, 2014 Terrorism Risk Insurance Report, April 2014; data for 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



ISURANCE

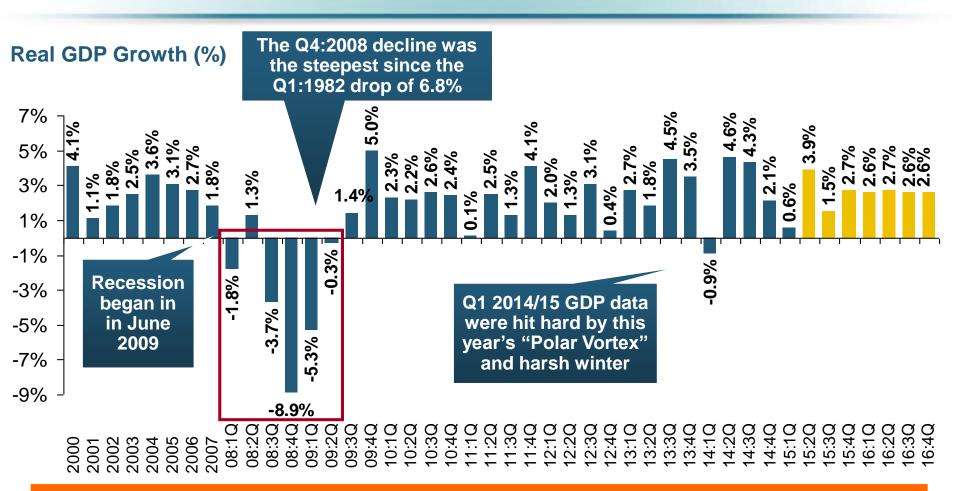


THE ECONOMY

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

US Real GDP Growth*



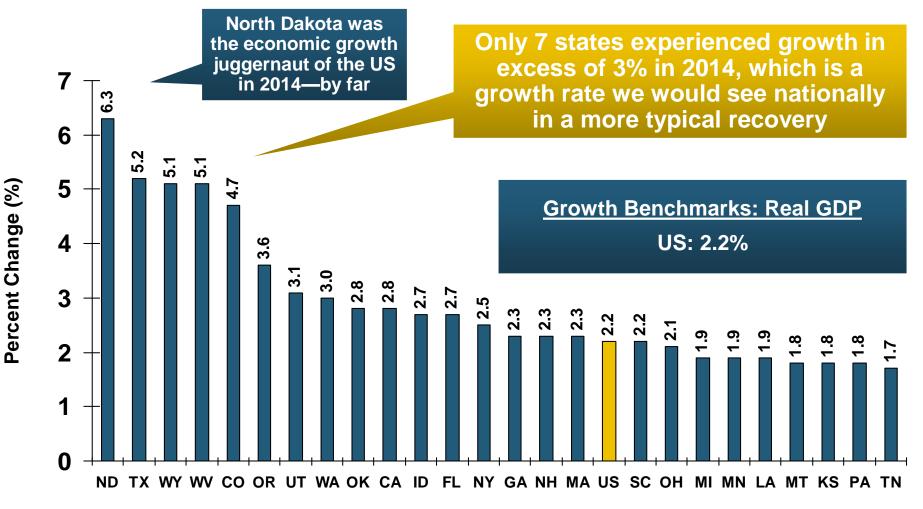


Demand for Insurance Should Increase in 2016 as GDP Growth Continues at a Steady, Albeit Moderate Pace and Gradually Benefits the Economy Broadly

* Estimates/Forecasts from Blue Chip Economic Indicators.

Source: US Department of Commerce, Blue Economic Indicators 11/15; Insurance Information Institute.

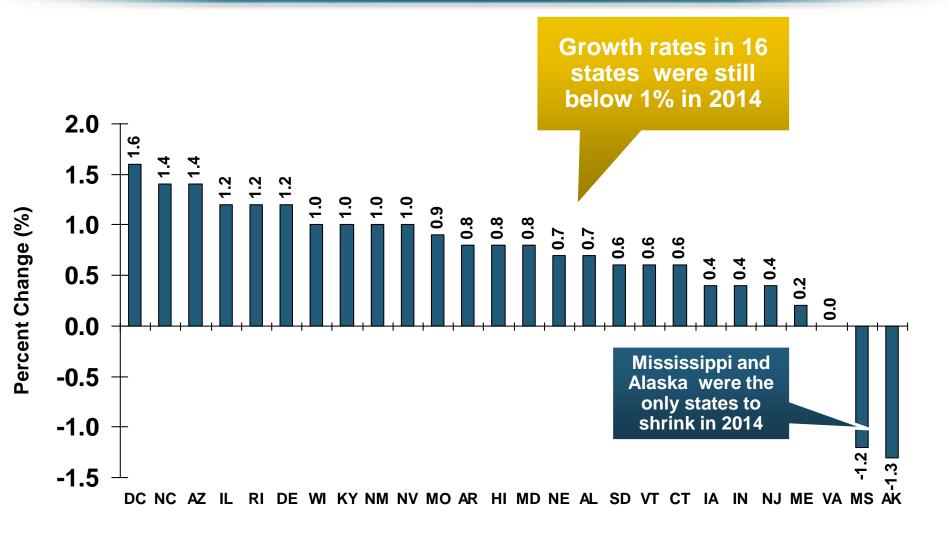
Real GDP by State Percent Change, 2014*: INSURANCE Highest 25 States



*Advance statistics

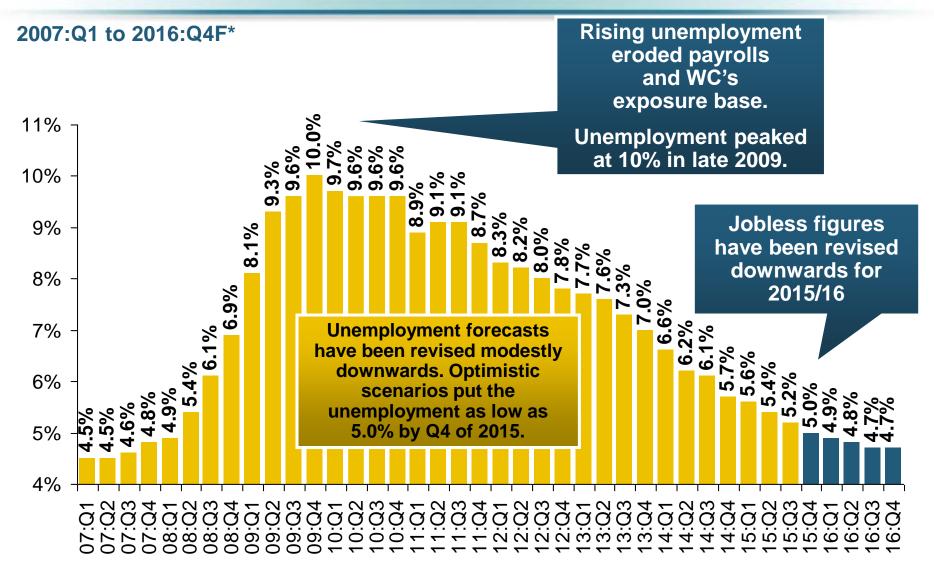
Sources: U.S. Bureau of Economic Analysis; Insurance Information Institute.

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



US Unemployment Rate Forecast

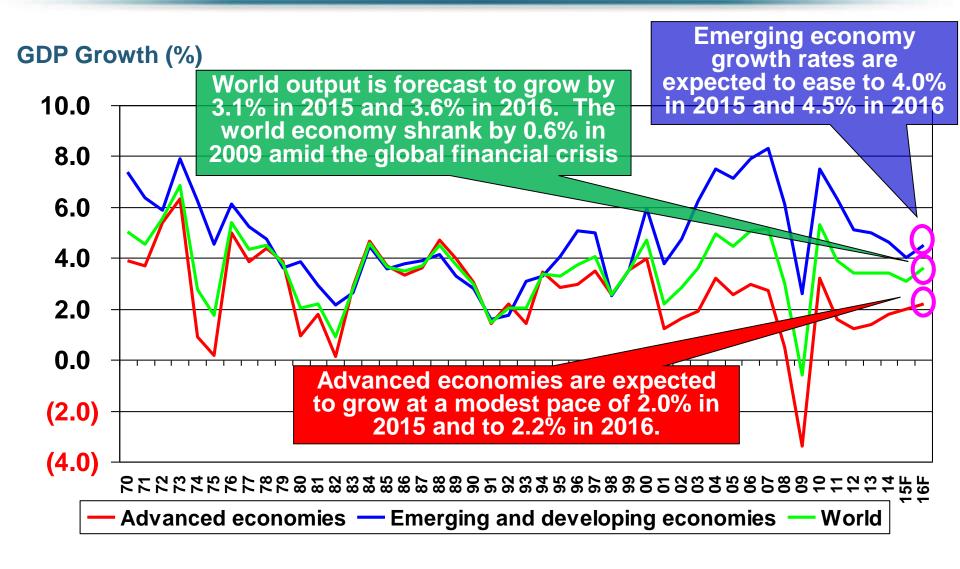




= actual; = forecasts

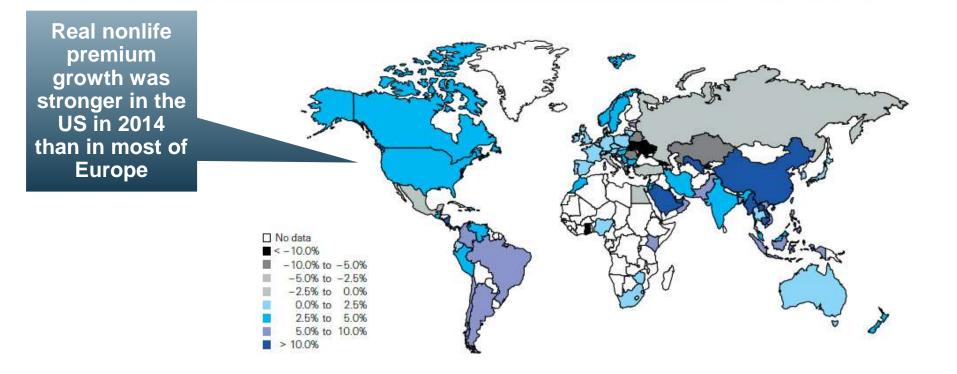
Sources: US Bureau of Labor Statistics; Blue Chip Economic Indicators (11/15 edition); Insurance Information Institute.

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



Source: International Monetary Fund, World Economic Outlook, Oct. 2015; Insurance Information Institute.

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



| 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 |

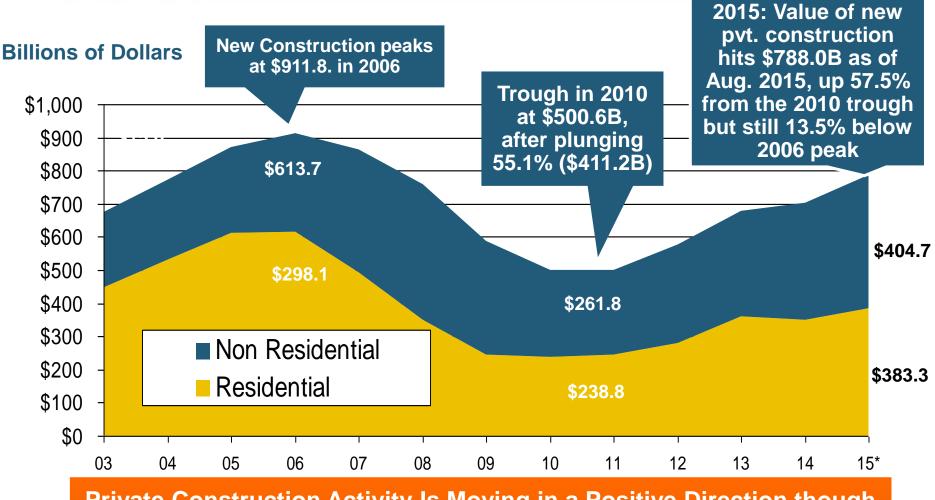
Source: Swiss Re, sigma, No. 4/2015.



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*



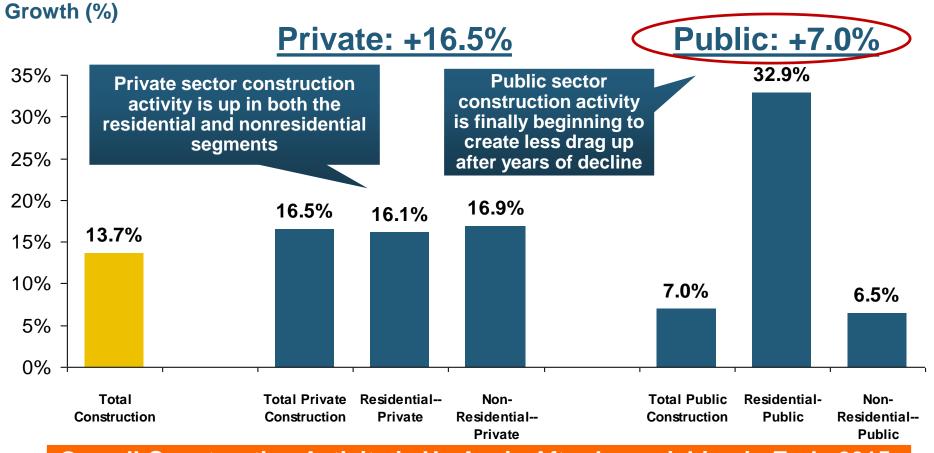
Private Construction Activity Is Moving in a Positive Direction though Remains Well Below Pre-Crisis Peak; Residential Dominates

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

Sources: US Department of Commerce http://www.census.gov/construction/c30/c30index.html ; Insurance Information Institute.

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



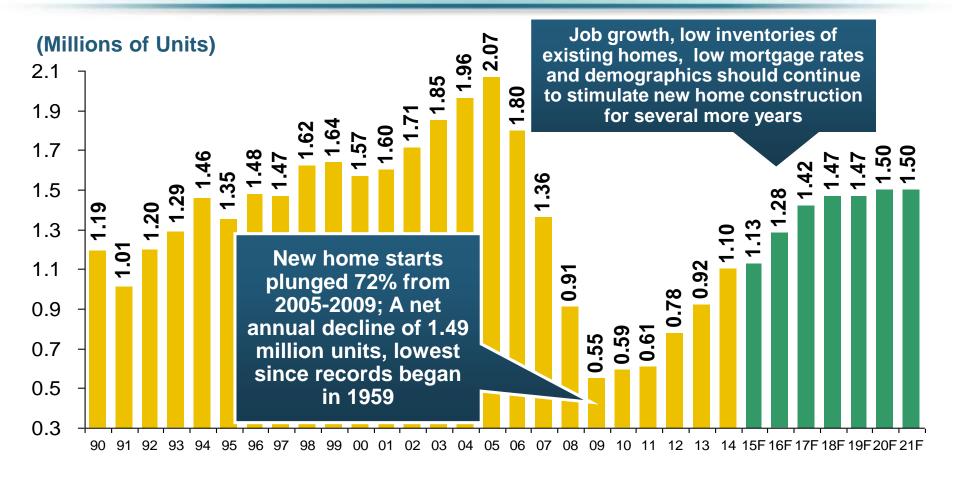


Overall Construction Activity is Up Again After Languishing in Early 2015; State/Local Sector Government Sector May Be Recovering as Budget Woes Ease in Some Jurisdictions

*seasonally adjusted

Source: U.S. Census Bureau, <u>http://www.census.gov/construction/c30/c30index.html</u>; Insurance Information Institute.

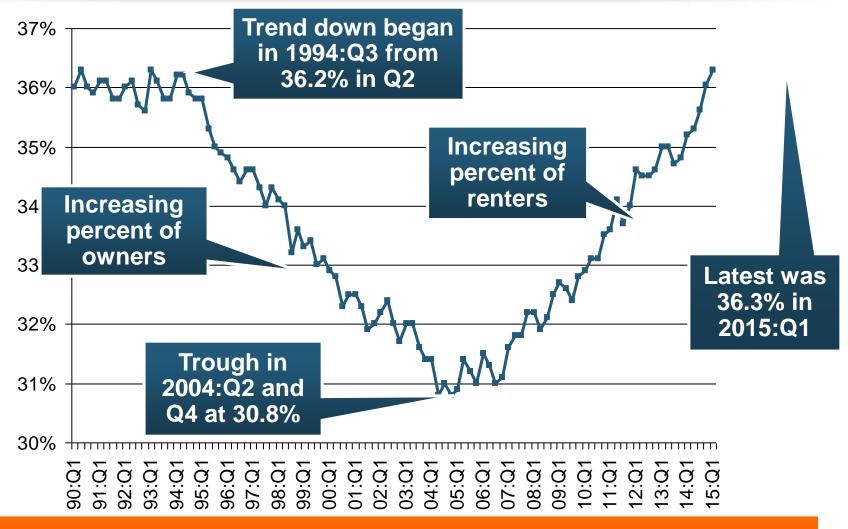
New Private Housing Starts, 1990-2021F



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

Source: U.S. Department of Commerce; Blue Chip Economic Indicators (10/15); Insurance Information Institute.

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



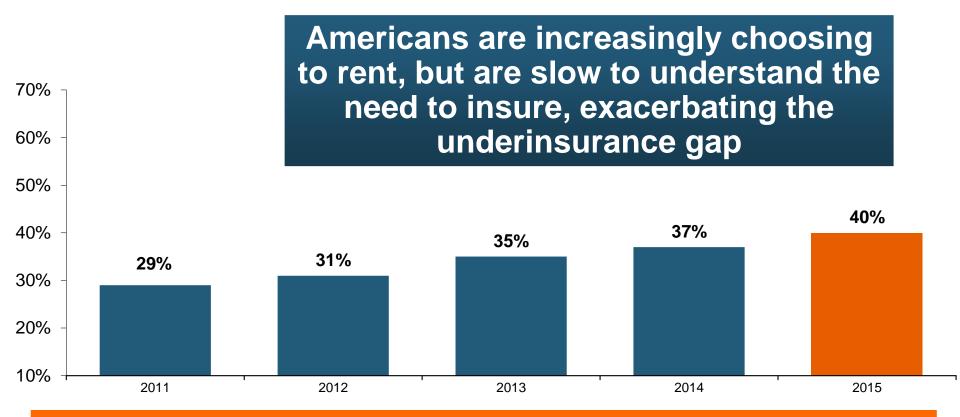
Since the Great Recession ended in June 2009, renters occupied 5.7 million more units (+15.6%).

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.

INSURANCE INFORMATION

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.

¹Asked of those who rent their home.

Source: Insurance Information Institute Annual Pulse Survey.



CYBER RISK & CYBER INSURANCE

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

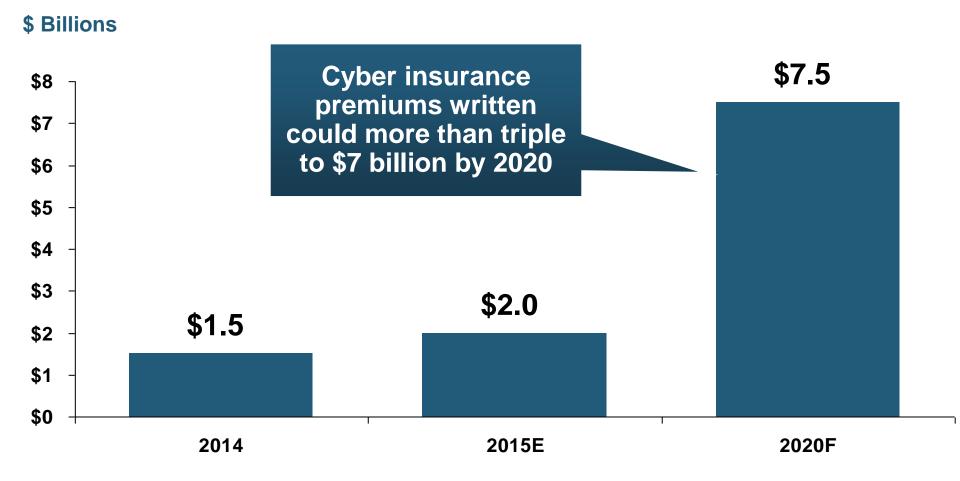
Data Breaches 2005-2015, by Number of Breaches and Records Exposed



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

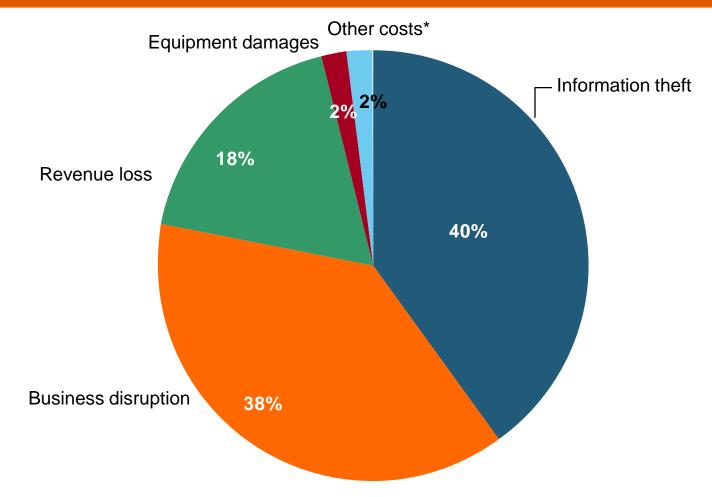
Estimated Cyber Insurance Premiums Written, 2014 – 2020F



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

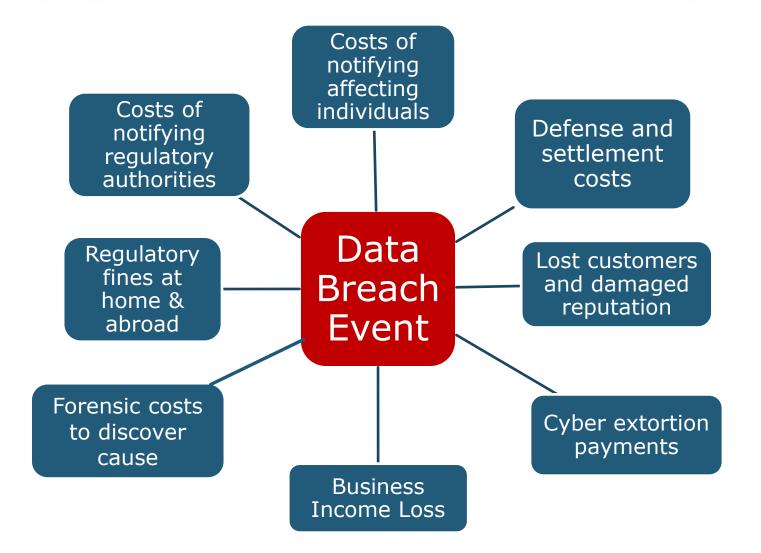
US: External Cyber Crime Costs: Fiscal Year 2014

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



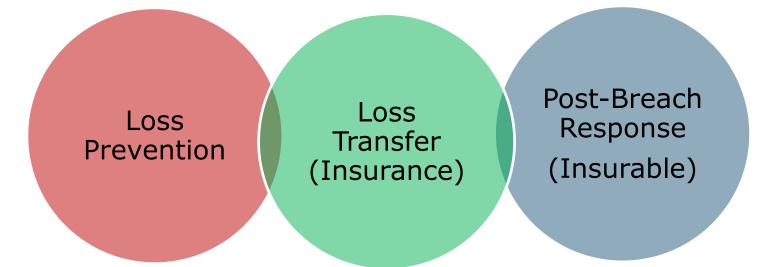
* Other costs include direct and indirect costs that could not be allocated to a main external cost category Source: 2014 Cost of Cyber Crime: United States, Ponemon Institute.

Data/Privacy Breach: Many Potential Costs Can Be Insured



INSURANCE

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

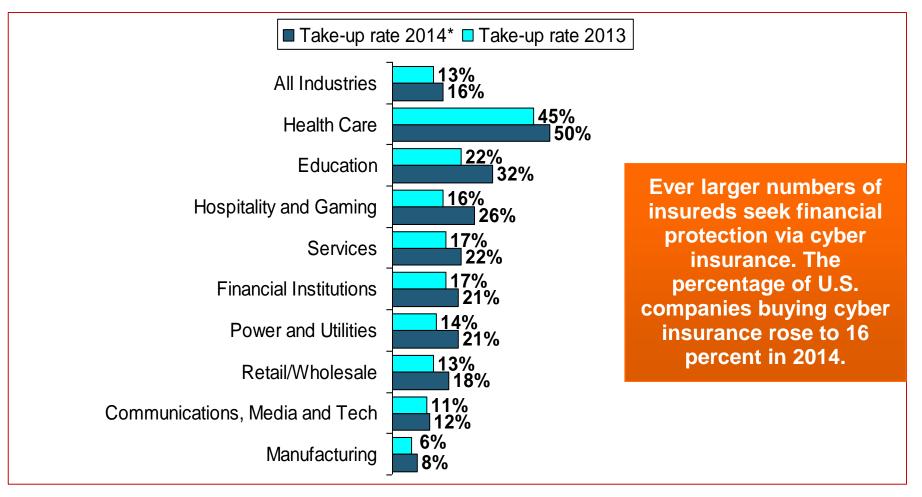




http://www.iii.org/white-paper/cyber-risksthreat-and-opportunities-100715

- 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

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

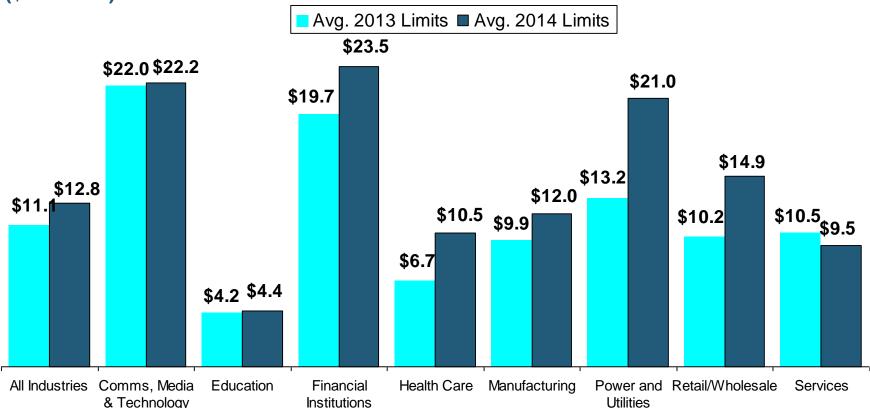


*Take-up rate refers to the overall percentage of clients that purchased standalone cyber insurance.

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

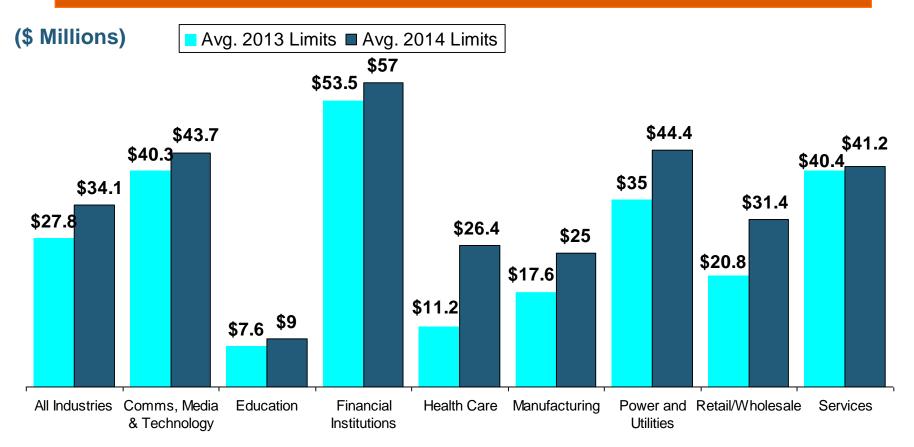
INSURANCE INFORMATION INSTITUTE

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.

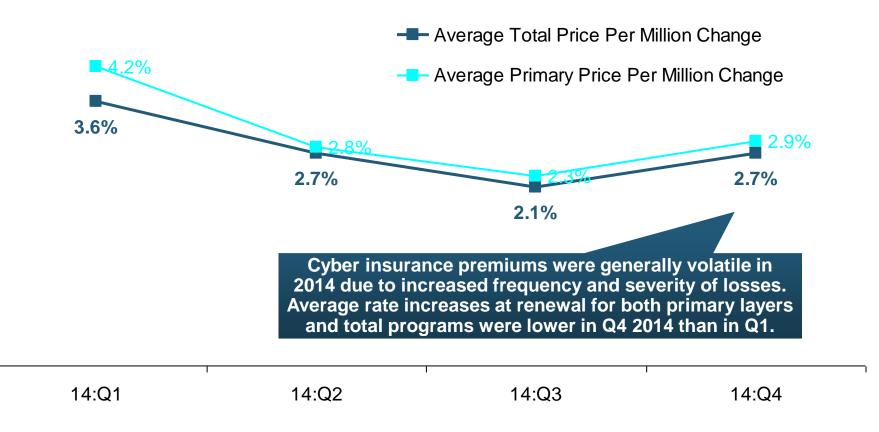


Marsh: Total Limits Purchased, By Industry – Cyber Liability, Revenue \$1 Billion+

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



Cyber Liability: Historical Rate (price per million) Changes

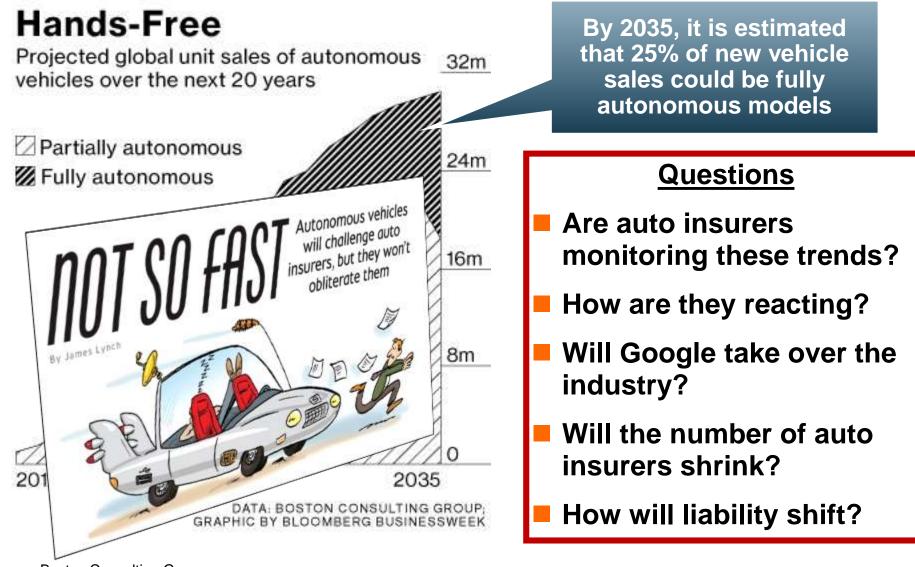




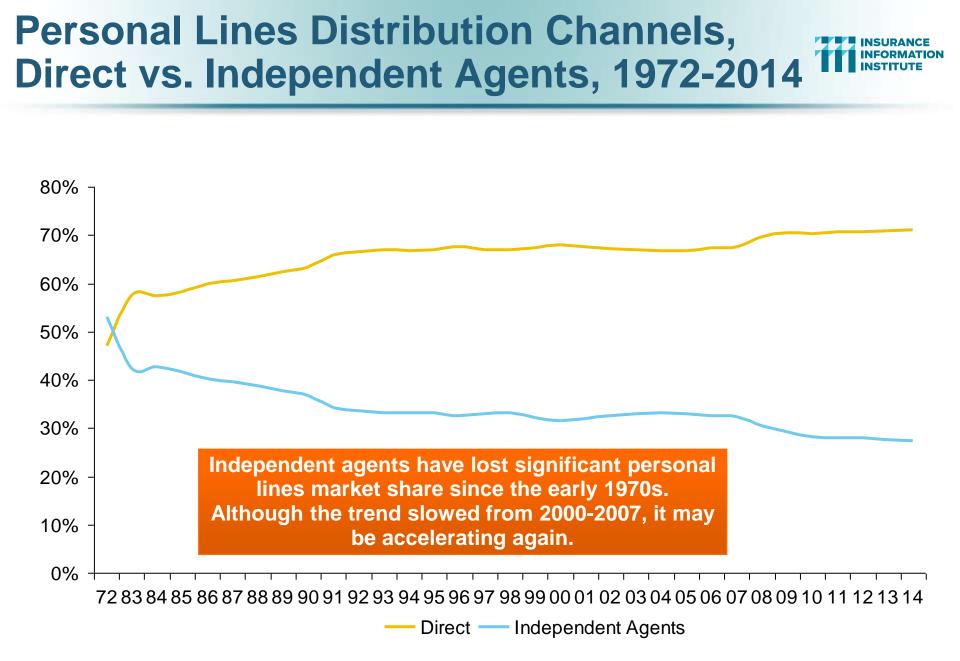
INDUSTRY DISRUPTORS

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



Source: Boston Consulting Group.



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



INSURANCE

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

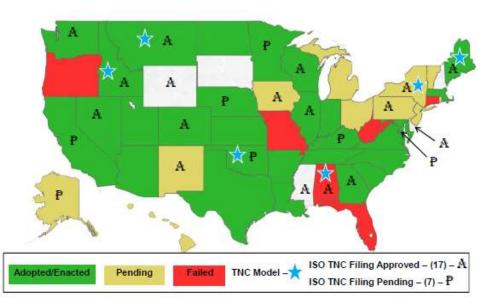
Ridesharing Regulation/Legislation and Status of ISO Filings as of 9/30/15

INSURANCE INFORMATION INSTITUTE

Status Ride Sharing Legislation/Regulation



Status of ISO Filings



- 1. Policyholder Notice
 - Guidance for policyholder to contact insurer
- 2. 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
- 3. 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







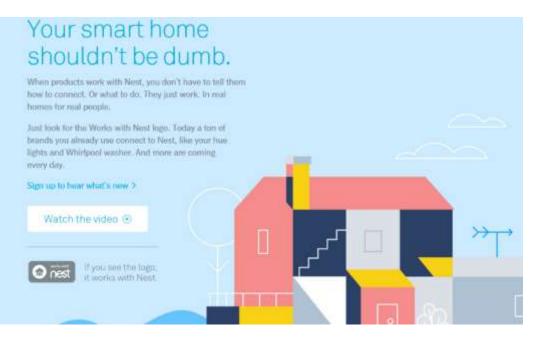
- Drones or Unmanned Aerial Vehicle (UAV) technology is seeing rapid adoption rate in many industries, including insurance
- ~700,000 drones in US by year-end
- FAA granting Section 333 exemptions for commercial use and testing of UAS
- FAA will require most drones to be registered by year-end 2015.
- 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

142

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
 - Heat, A/C
 - Fire, CO detection
 - Security Systems
 - Cameras/Monitors
 - Appliances
 - Lighting
 - Technology is adaptive
 - Uses sensors and algorithms to learn about you







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.

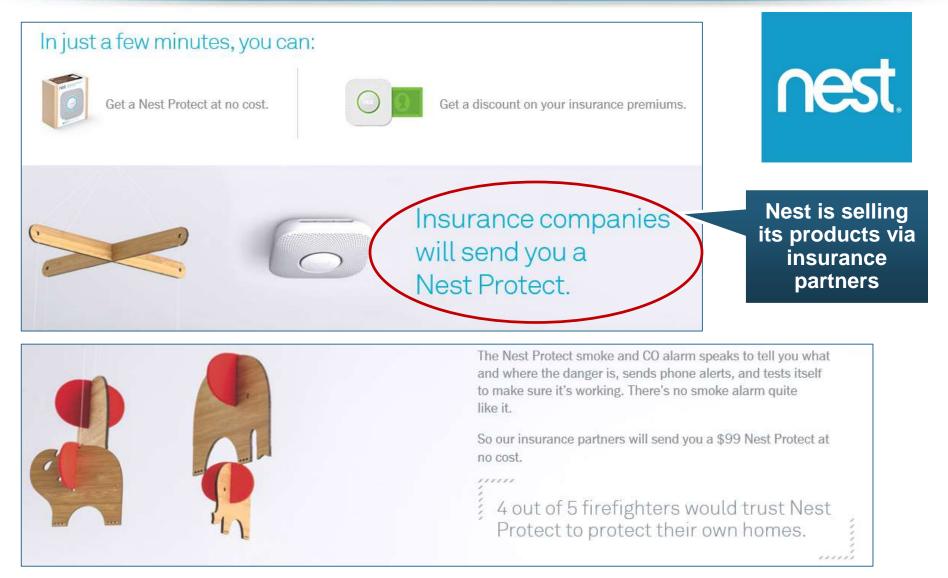
nest.

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)

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

Partnerships with Insurers

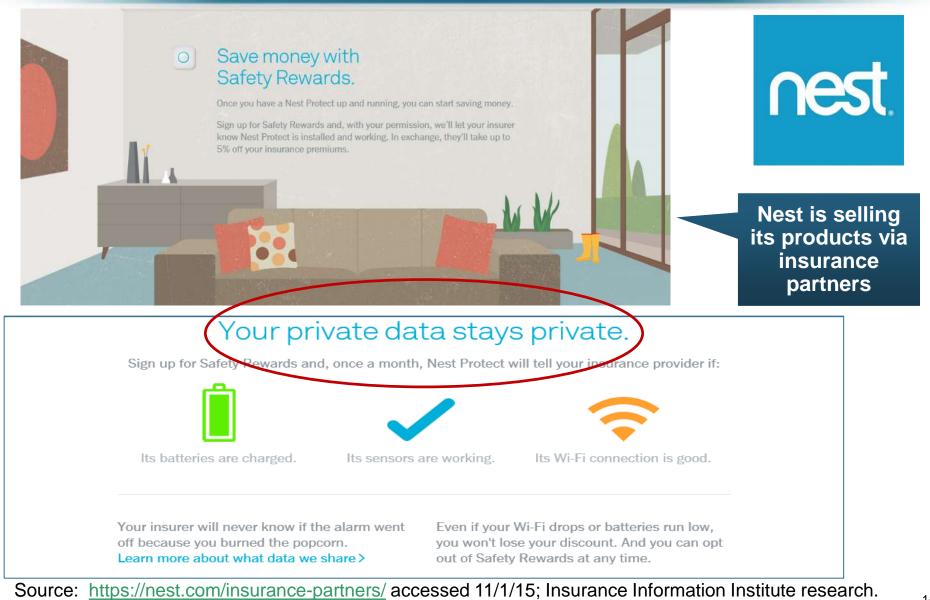




Source: <u>https://nest.com/insurance-partners/</u> accessed 11/1/15; Insurance Information Institute research.

Partnerships with Insurers

INSURANCE INFORMATION INSTITUTE



Partnerships with Insurers: Information Collected, Addressing Privacy Concerns



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.

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 Works with Nest
 Insurance Partner 1 would like to do the following:
 See that Nest Protect is set up and check battery
 atatus, Wi-Fi connection and sensors.
 Allowe clusurance Partner 1> to provide pollcy
 discounts and products.
 Want Nest to shop working with insurance Partner 1? Go to

account settings in the Next app. At Next, we take your privacy settorally. And we believe in terms open and honest about using your data.

Learn more >



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

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:

Privacy, control of data concerns get significant attention

∩est.

INSURANCE

INFORMATION

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

Partnerships with Insurers: Information Collected, Addressing Privacy Concerns



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

INSURANCE

nest.

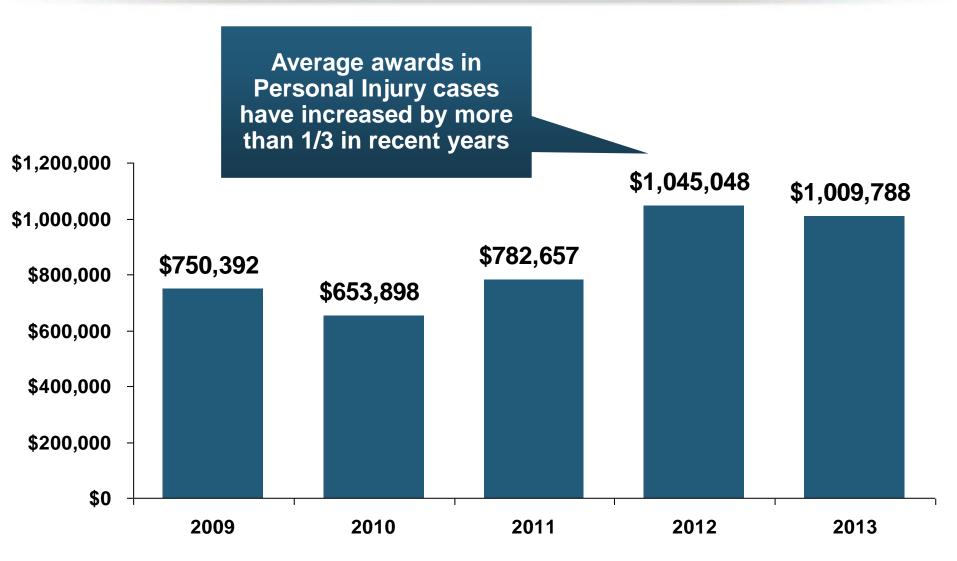


Shifting Legal Liability & Tort Environment

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



Worst States Best States New in 2015 41. Arkansas 1. Delaware **Newly Notorious** Vermont **New Hampshire** 42. Missouri 2. Vermont North Carolina Arkansas South Dakota Missouri 43. Mississippi 3. Nebraska 44. Florida lowa 4. **Drop-offs Rising Above** 45. New Mexico 5. New Hampshire Oklahoma Minnesota 6. Idaho 46. Alabama Kansas Montana 7. North Carolina Virginia California 47. North Dakota 8. Wyoming Illinois 48.

Louisiana

West Virginia

49.

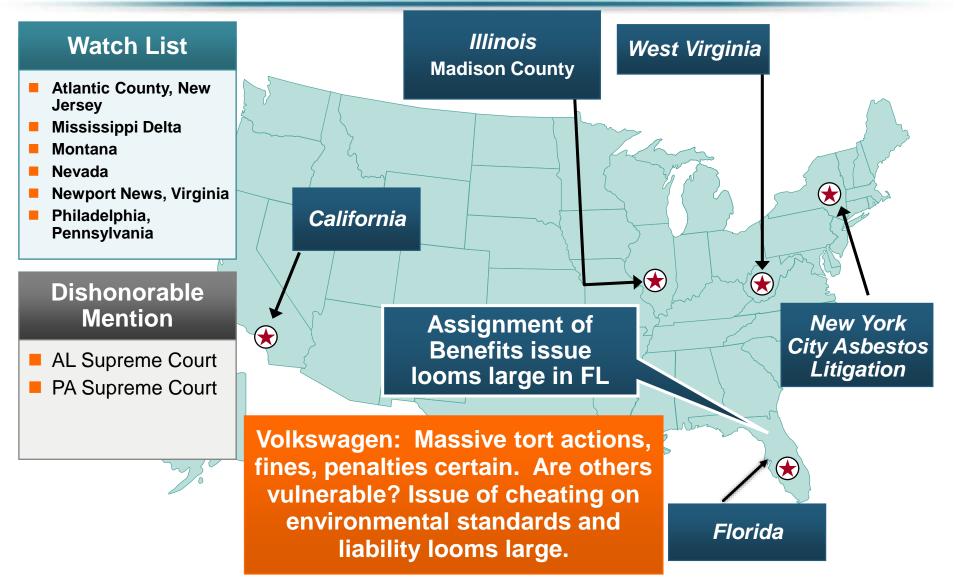
50.

- 9. South Dakota
- 10. Utah

Source: US Chamber of Commerce 2015 State Liability Systems Ranking Study; Insurance Info. Institute.

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

INSURANCE INFORMATION INSTITUTE



Source: American Tort Reform Association; Insurance Information Institute



Insurance Information Institute Online:

www.iii.org

Thank you for your time and your attention! Twitter: twitter.com/bob_Hartwig Download at <u>www.iii.org/presentations</u>