

Medical Professional Liability Outlook and Economic Impacts of the Changing Healthcare Environment

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Presentation Outline

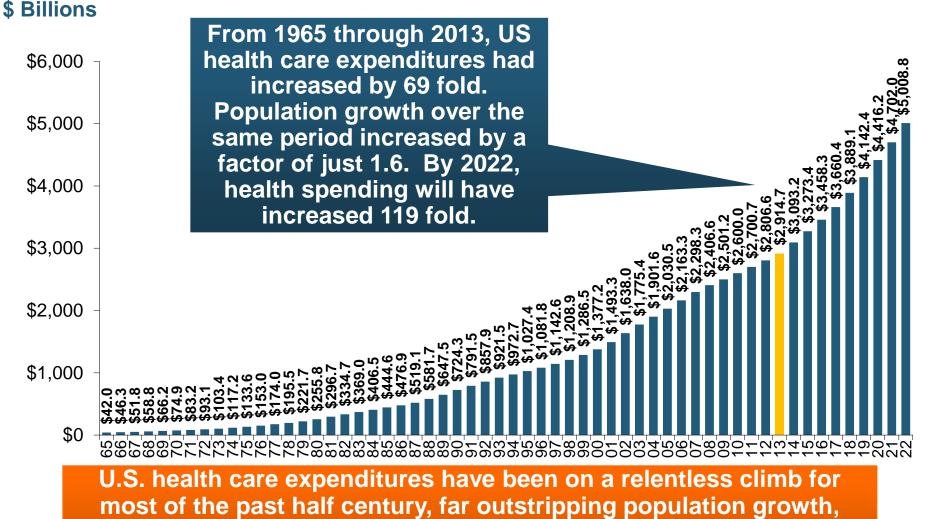


- The US Healthcare System & the Economy
- Employment/Professional Trends in Healthcare
- Medical Professional Liability: Performance Overview & Outlook
- The Affordable Care Act: Potential Impacts on MPL
- Overall P/C Insurance Industry Performance
- Investment Overview & Outlook
- Tort Trends
- Cyber Risk and the Healthcare Industry

Q&A

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



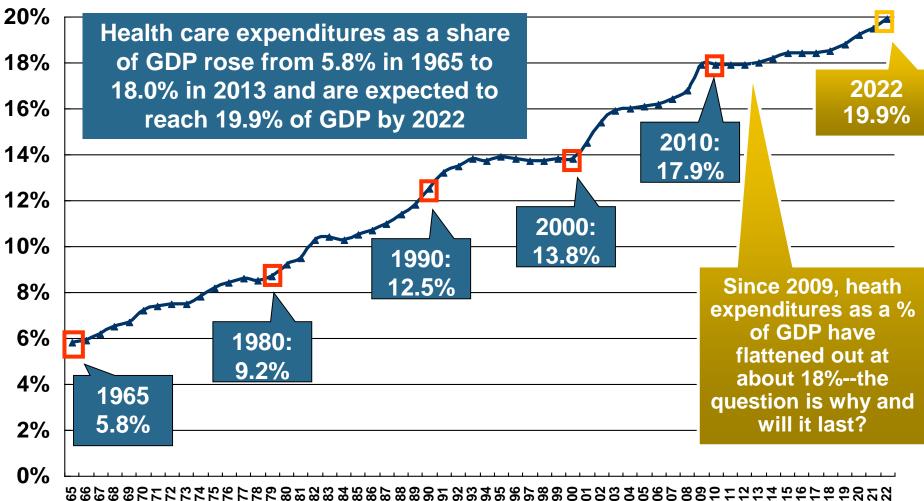


inflation of GDP growth

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.

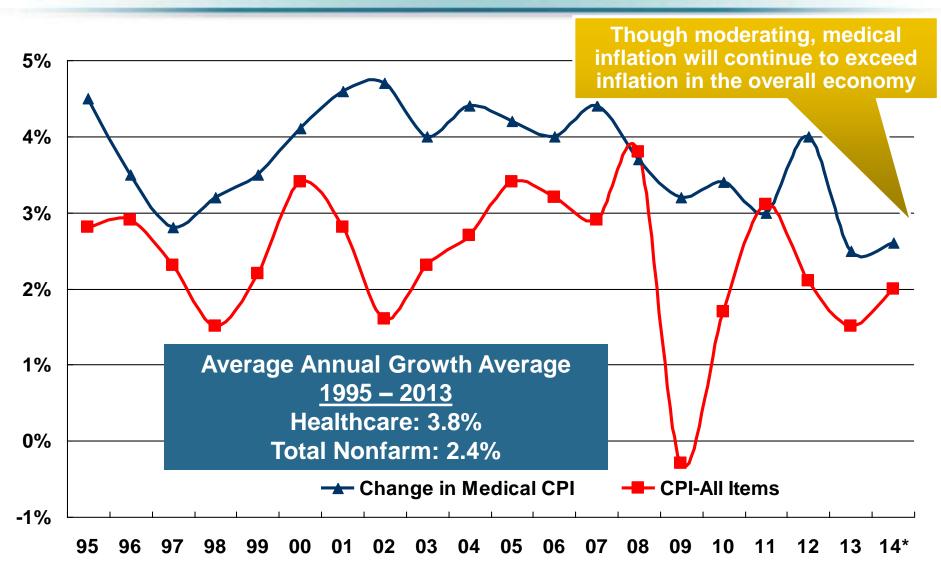
National Health Care Expenditures as a Share of GDP, 1965 – 2022F*





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.

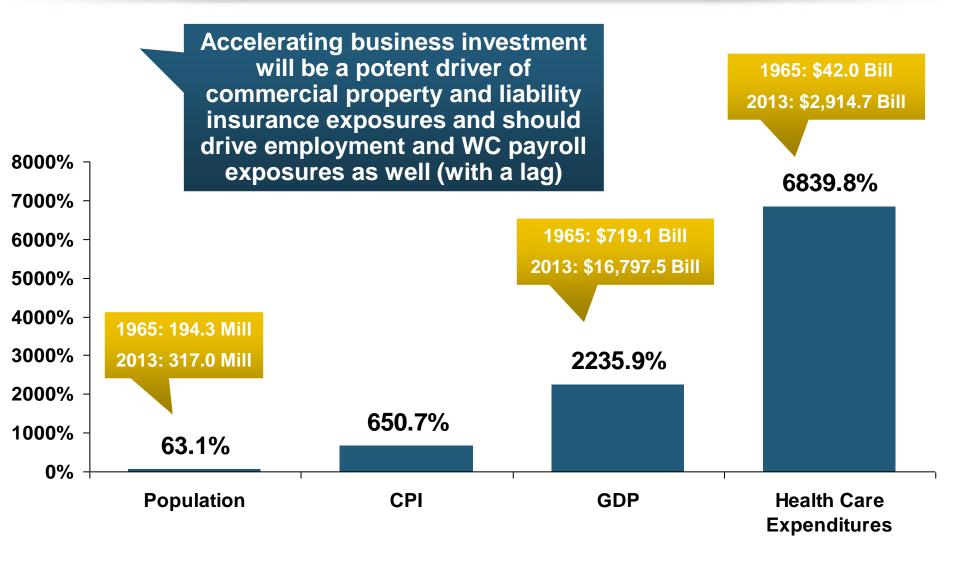
Medical Cost Inflation vs. Overall CPI, 1995 – 2014*



*July 2014 compared to July 2013.

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

Rate of Health Care Expenditure Increase Compared to Population, CPI and GDP



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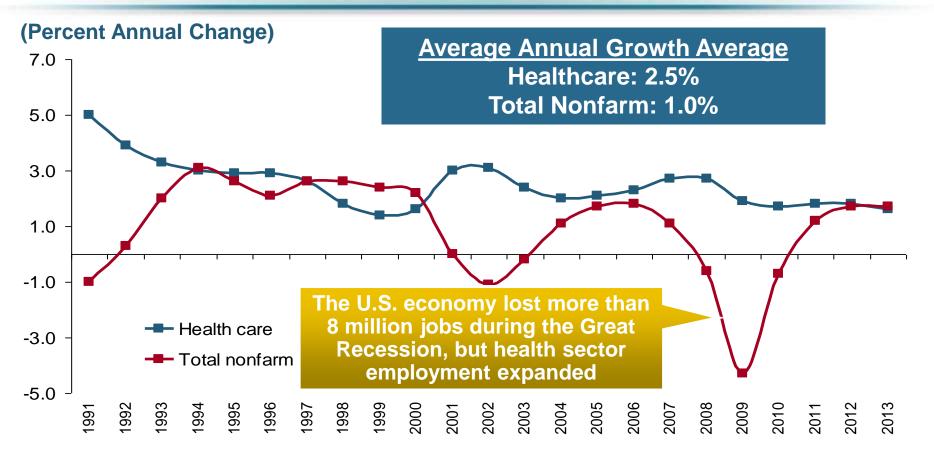


Employment Trends in the Healthcare Industry

Employment Will Grow but Skills, Responsibilities and Risks Will Evolve

Growth in Health Professions, 1991-2013

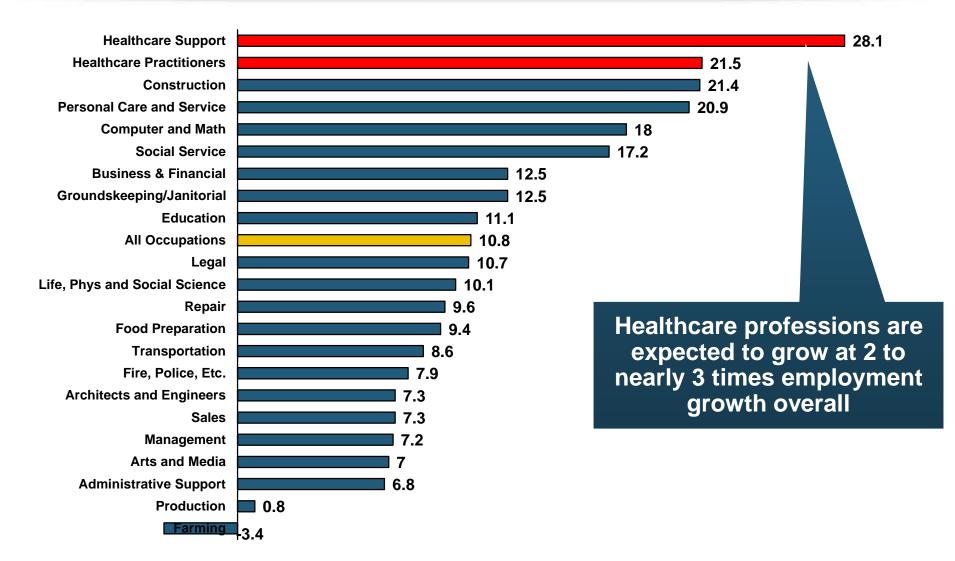




Healthcare employment has continued to grow in good times and bad - including the Great Recession.

Sources: Bureau of Labor Statistics, Insurance Information Institute.

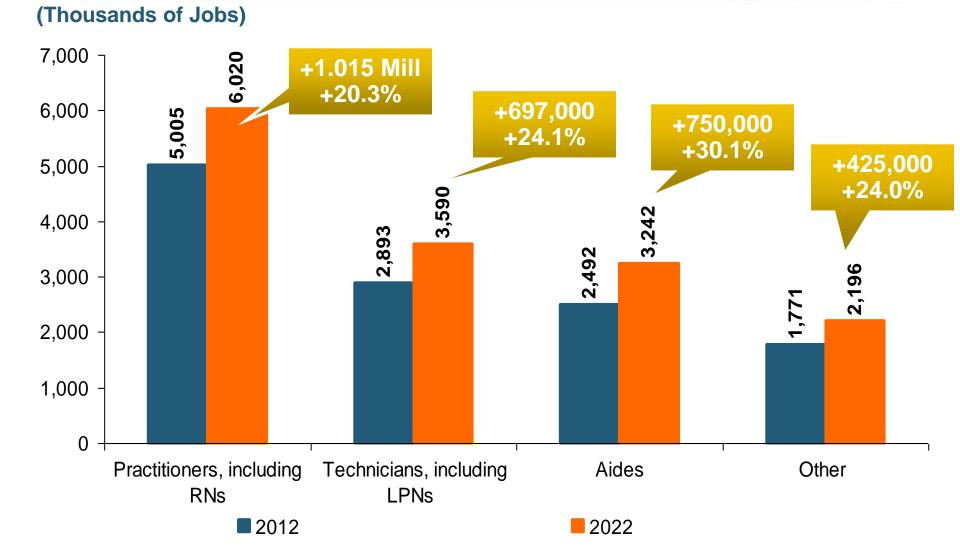
Occupations Ranked by Projected Percentage Growth, 2012-2022F



Source: Bureau of Labor Statistics, Insurance Information Institute.

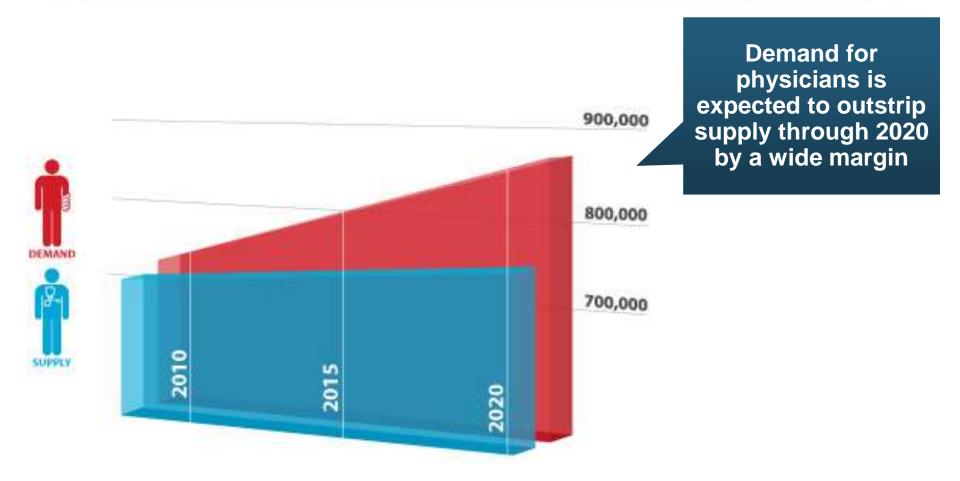
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Growth in Healthcare Profession by Skill Level, 2012 – 2022F



Source: Bureau of Labor Statistics, Insurance Information Institute.

Physician Supply and Demand, 2008–2020

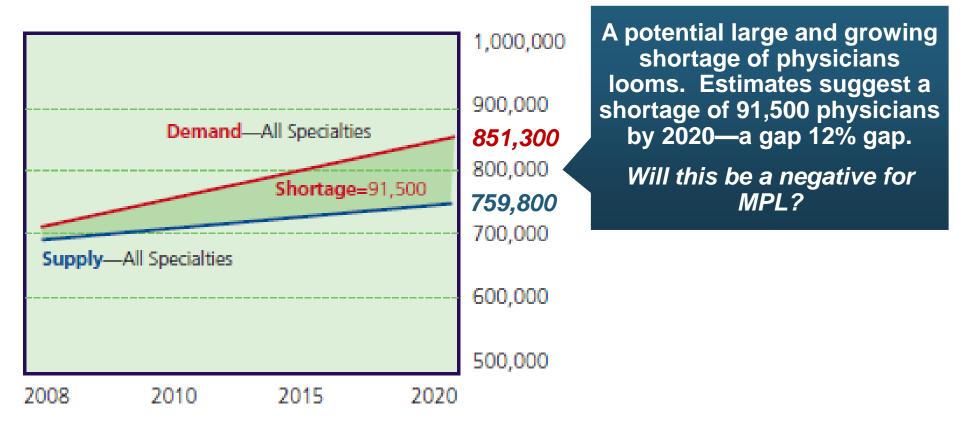


Source: American Association of Medical Colleges https://www.aamc.org/advocacy/campaigns and coalitions/fixdocshortage/; Insurance Information Institute.

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Projected Physician Supply and Demand, 2008–2020





Source: American Association of Medical Colleges https://www.aamc.org/advocacy/campaigns and coalitions/fixdocshortage/; Insurance Information Institute.

Physician Supply and Demand, 2008–2020



Year	Physician Supply (All Specialties)	Physician Demand (All Specialties)	Physician Shortage (All Specialties*)		Physician Shortage (Non-Primary Care Specialties)
2008	699,100	706,500	7,400		None
2010	709,700	723,400	13,700		4,700
2015	735,600	798,500	62,900		33,100
2020	759,800	851,300	91,500		46,100
2025	785,400	916,000	130,600		64,800

A potential large and growing physician gap looms over the next decade, with potential negative impacts on MPL

Source: American Association of Medical Colleges https://www.aamc.org/advocacy/campaigns and coalitions/fixdocshortage/; Insurance Information Institute.

12 Industries for the Next 10 Years: **Insurance Solutions Needed**



Health Care	
Health Sciences	
Energy (Traditional)	
Alternative Energy	Many industries are poised for
Petrochemical	growth, though
Agriculture	insurers' ability to
Natural Resources	capitalize on these industries
Technology (incl. Biotechnology)	varies widely
Light Manufacturing	
Insourced Manufacturing	
Export-Oriented Industries	
Shipping (<i>Rail</i> , <i>Marine</i> , Trucking, <i>Pipelines</i>)	



Medical Professional Liability

Performance Overview

Medical Professional Liability: 4 Major Challenges



Increasing Competition

- Price (rate) competition is intensifying
- Physicians: More employed by hospitals, large inst. hurts exposure
- Self-insurance by hospitals adds to downward pressure

Falling Investment Income

- Despite Fed "tapering," rates remain low
- More complete "normalization" will not occur until 2015, if then

Rising Number of Self-Insured Exposures

- Hospitals increasingly self-insure
- More use of captives

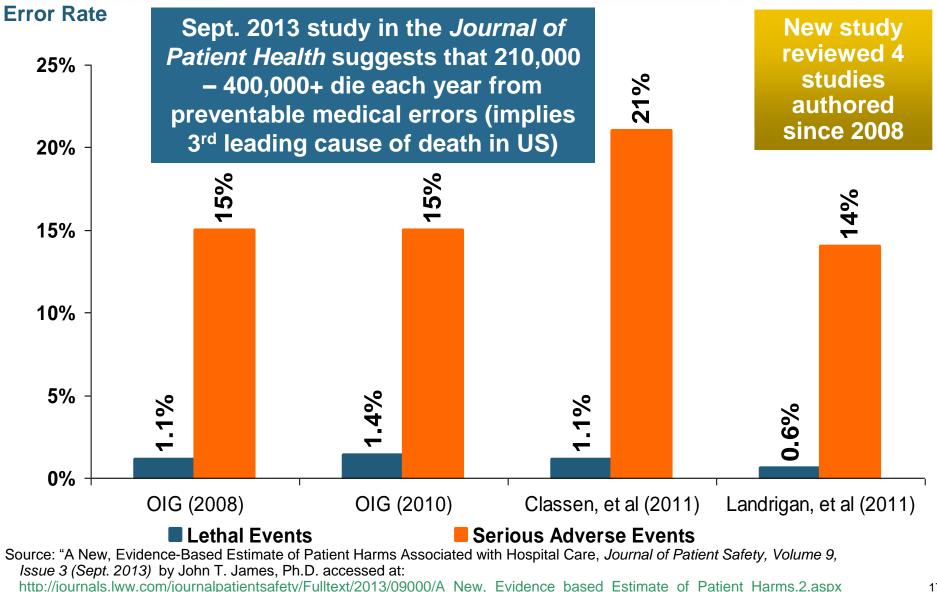
Legal & Legislative Reform

- Tort reform law changes (caps)
- Affordable Care Act ("ObamaCare")
- Impacts on practice of defensive medicine

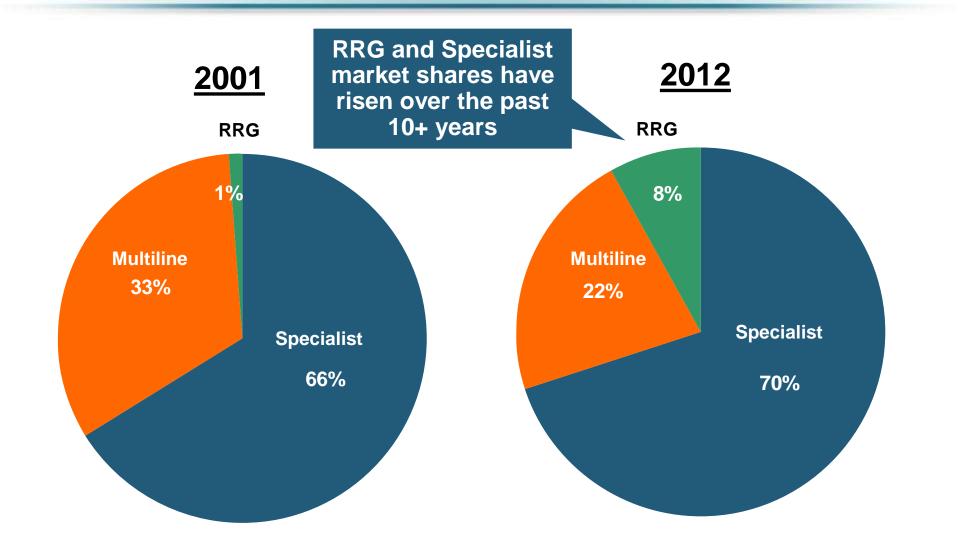
Other: Reserves, Loss Frequency & Severity Trends

Medical Errors: Rate of Lethal and Serious Adverse Events

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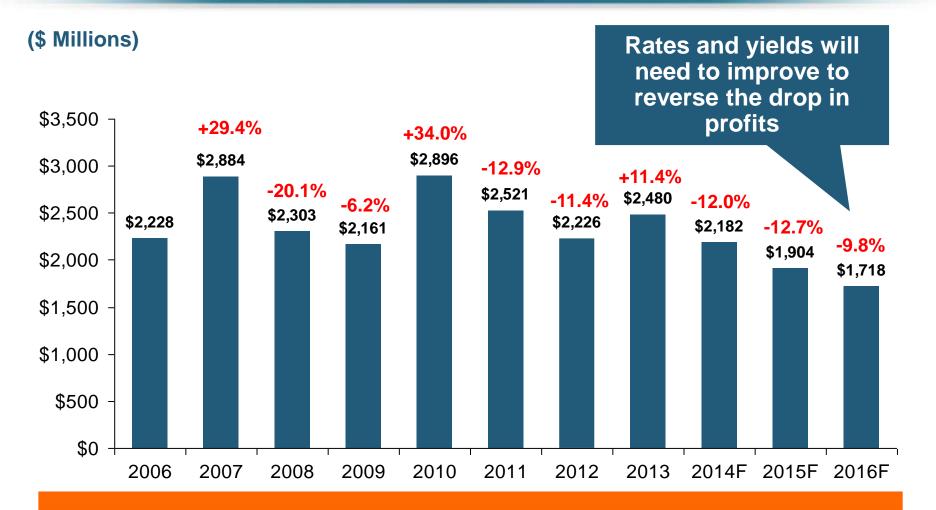


Distribution of MPL Premium by Segment, 2001 vs. 2012



MPL Statutory Net Income After Tax, 2006 – 2016F

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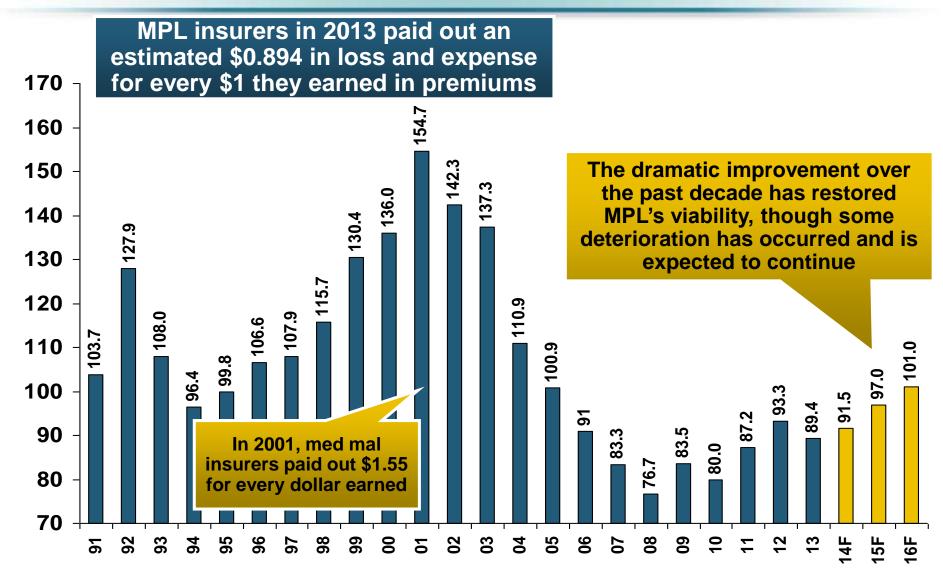


MPL profits peaked in 2010. Falling rates and exposures and lower investment earnings are impacting the bottom line.

Source: Conning.

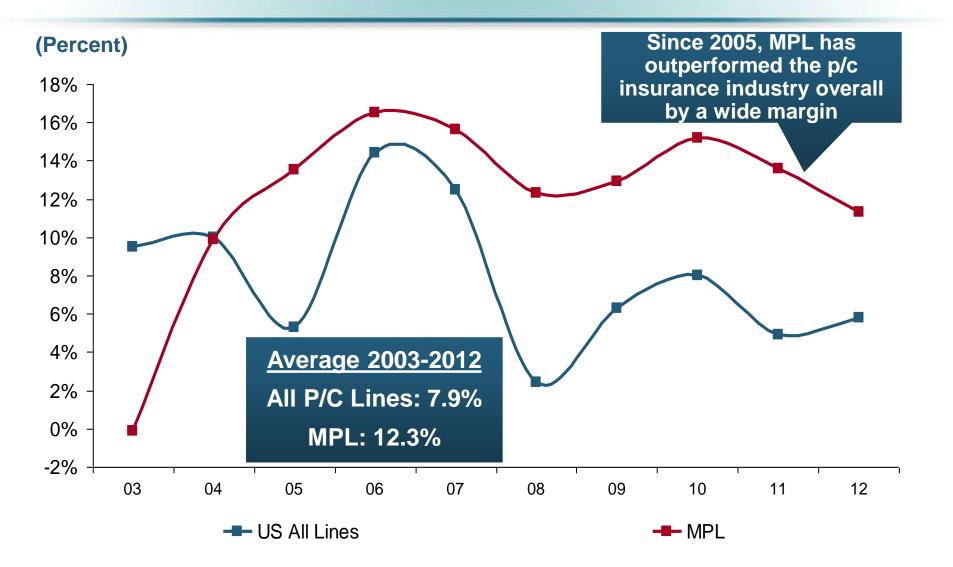
Medical Malpractice Combined Ratio vs. All Lines Combined Ratio, 1991-2016F





Source: AM Best (1991-2012); Conning (2013-16F) Insurance Information Institute.

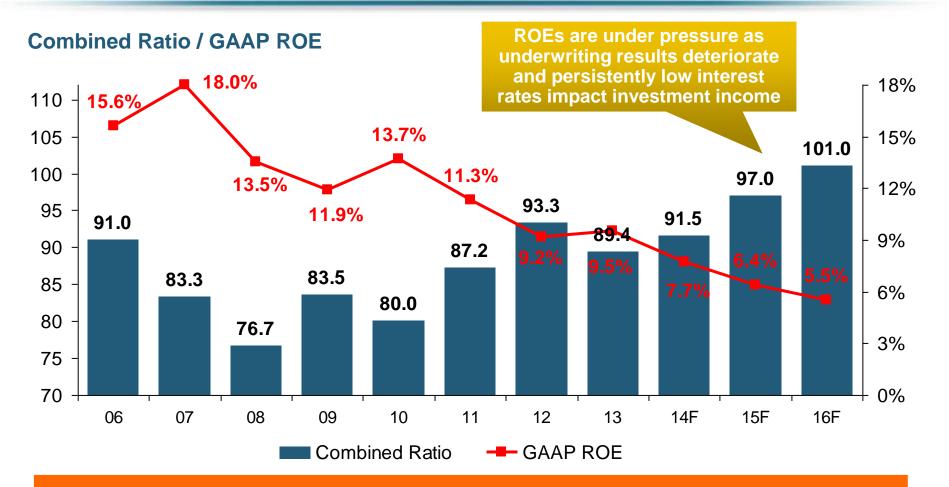
RNW: MPL vs. All P/C Lines, 2003-2012



Sources: NAIC.

MPL Combined Ratio and ROE, 2006 - 2016F

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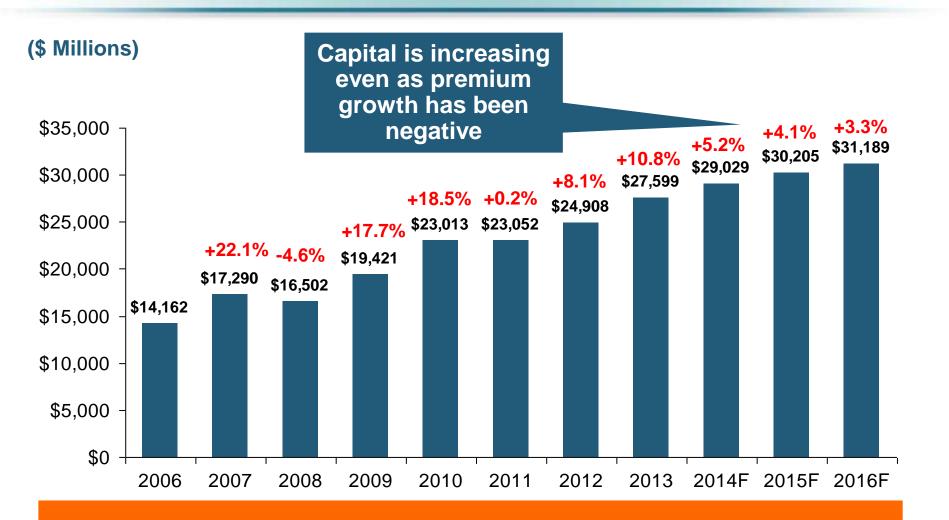


As underwriting results deteriorate, ROEs are have begun to decline

Source: Conning; Insurance Information Institute.

MPL Capital & Surplus, 2006 – 2016F

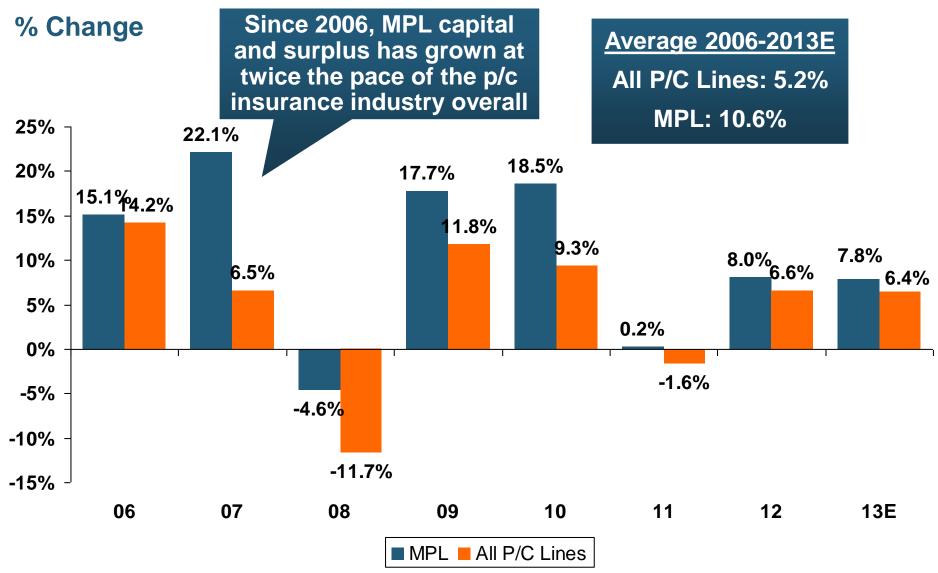
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Capital and surplus growth in the MPL shows steady growth mirroring the overall P/C insurance industry

Source: Conning.

Change in MPL vs. All Lines P/C Capital & Surplus, 2006-2013E



Source: Insurance Information Institute from A.M. Best and Conning data.

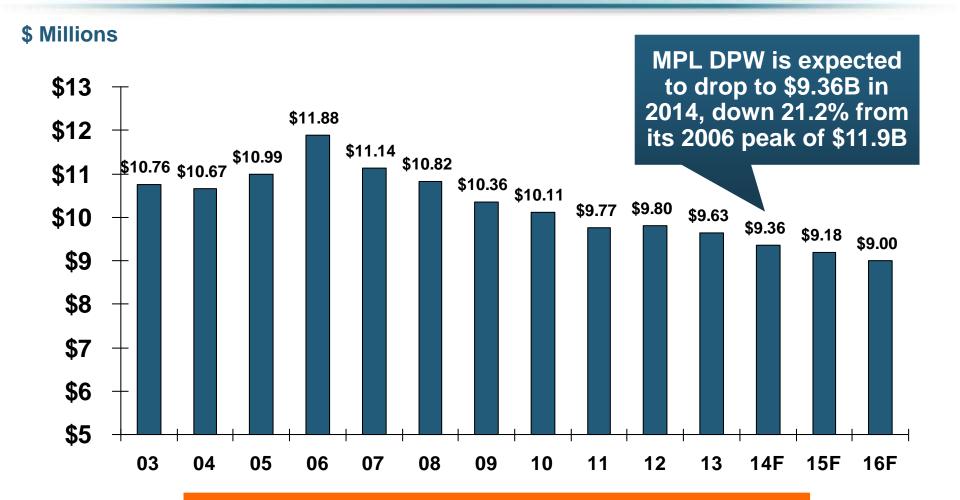
P/C Estimated Loss Reserve Deficiency/ (Redundancy), Excl. Statutory Discount



Line of Business	2012
Personal Auto Liability	-\$3.9B
Homeowners	-\$0.4
Other Liab (incl. Prod Liab)	\$7.5
Workers Compensation	\$11.1
Commercial Multi Peril	\$1.9
Commercial Auto Liability	\$0.7
Medical Malpractice	-\$3.5
Reinsurance—Nonprop Assumed	\$1.0
All Other Lines*	-\$4.6
Total Core Reserves	\$9.8
Asbestos & Environmental	\$11.2
Total P/C Industry	\$21.0B

Source: A.M. Best, P/C Review/Preview 2014; Insurance Information Institute. *Excluding mortgage and financial guaranty

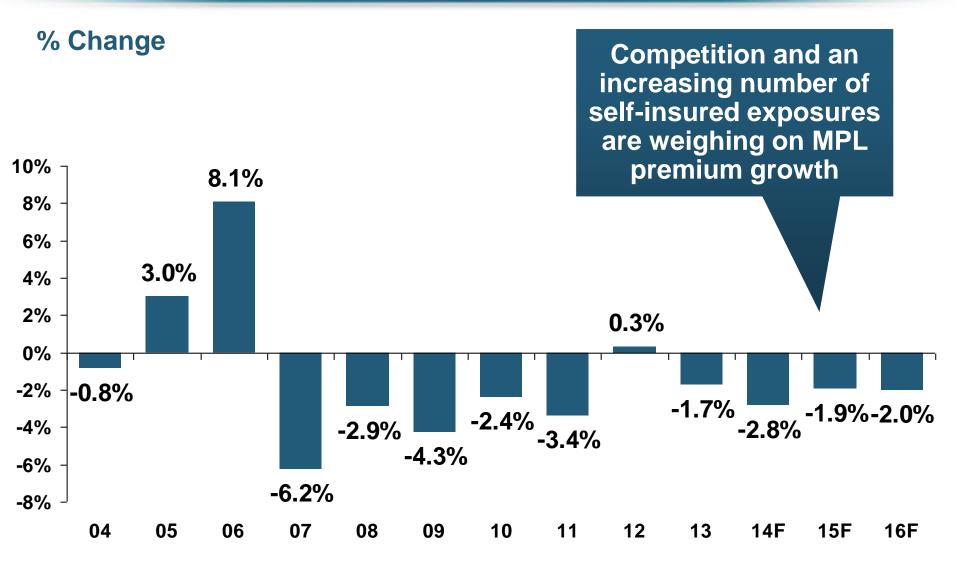
MPL Direct Premiums Written: 2004-2016F



MPL direct premiums written have been declining steadily since 2006

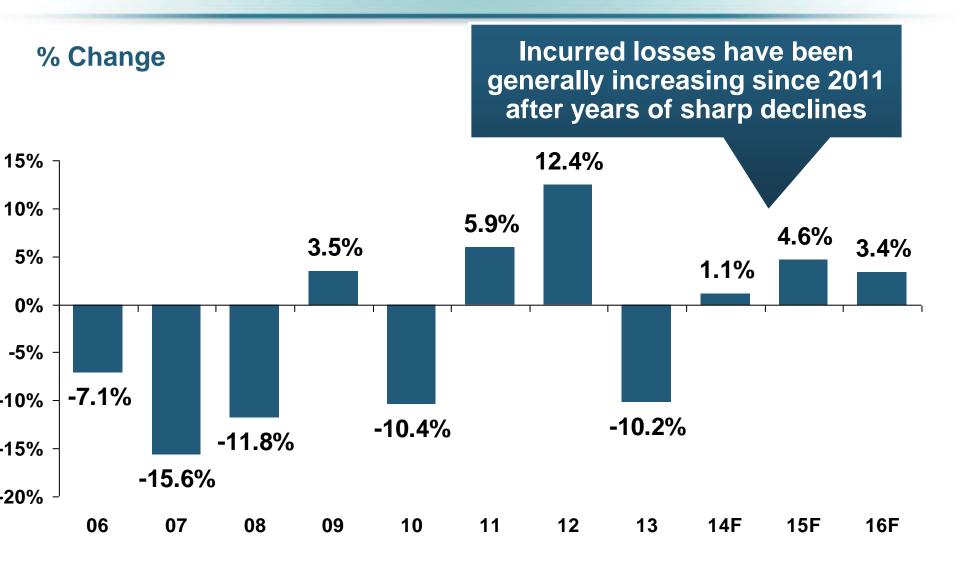
Source: A.M. Best (2003-2012); Conning (2013-2016F); Insurance Information Institute.

Annual Change in Medical Professional Liability DPW, 2004-2016F

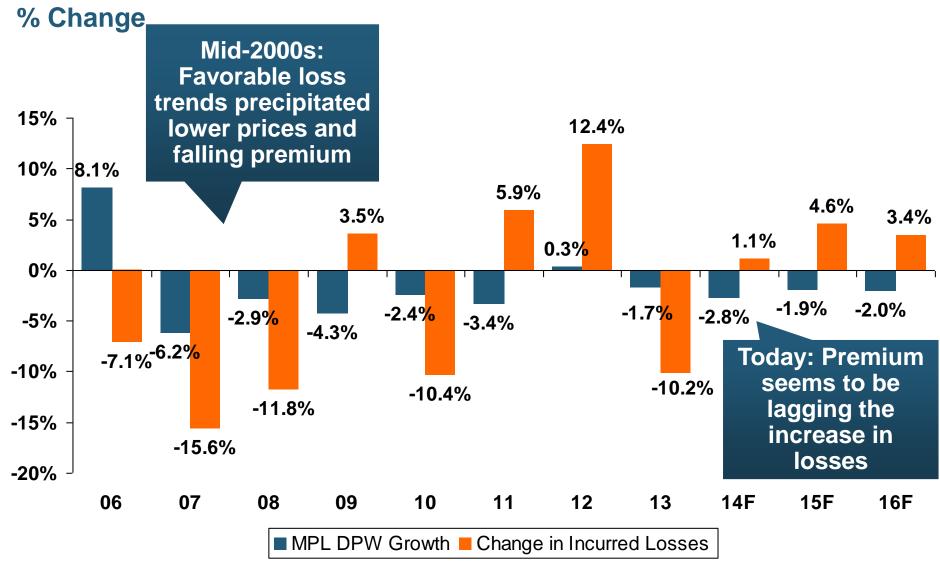


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Annual Change in Medical Professional Liability Incurred Losses, 2004-2016F



Medical Professional Liability: Change in Premium and Incurred Losses, 2006-2016

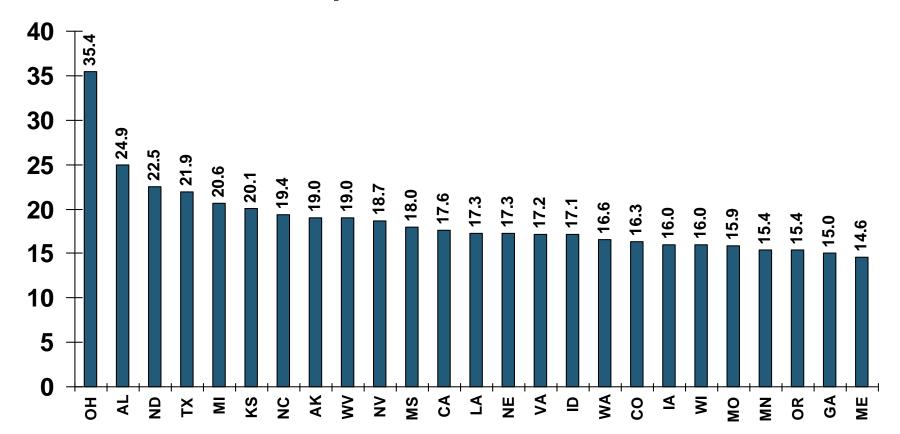


Source: Insurance Information Institute from A.M. Best and Conning data.

Medical Professional Liability, RNW By State, Average 2003-2012



Top 25 States and DC

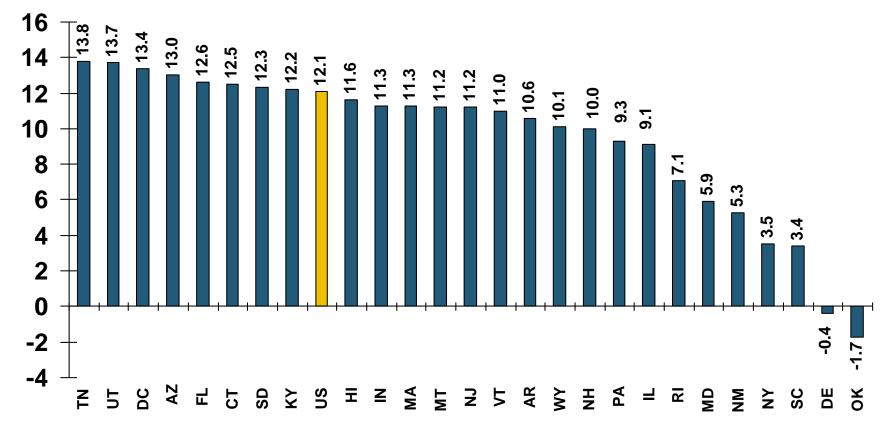


Source: NAIC; Insurance Information Institute.

Medical Professional Liability RNW By State, Average 2003-2012



Bottom 25 States

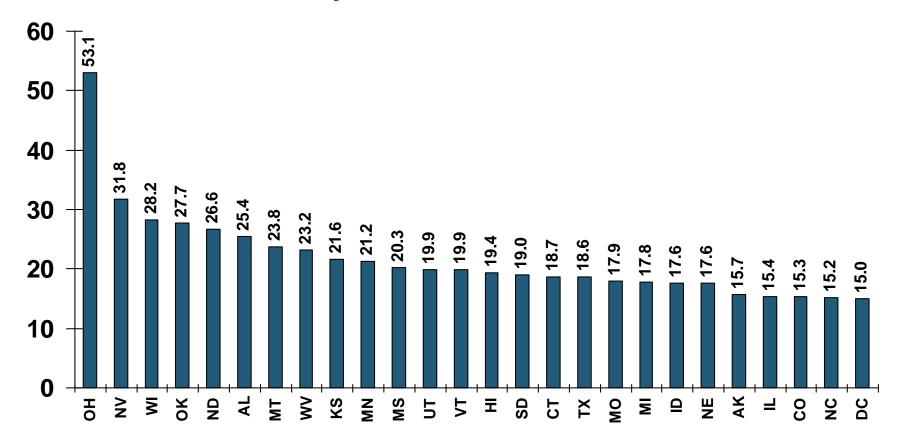


Source: NAIC; Insurance Information Institute

Medical Professional Liability, RNW By State, 2012



Top 25 States and DC

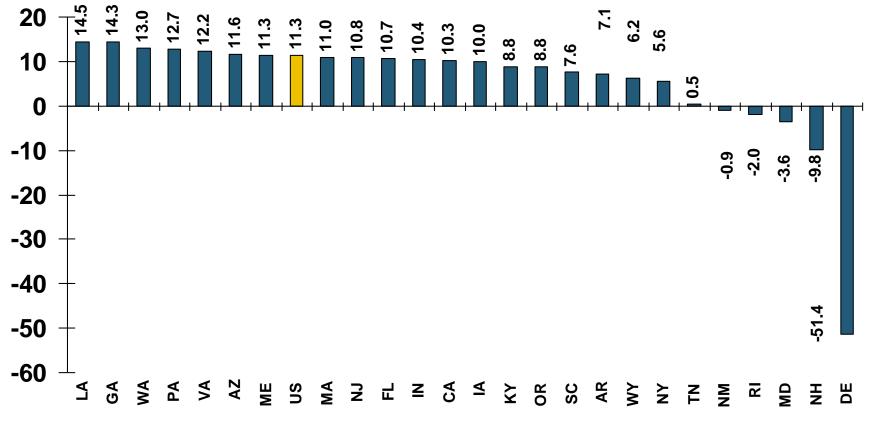


Source: NAIC; Insurance Information Institute.

Medical Professional Liability RNW By State, 2012



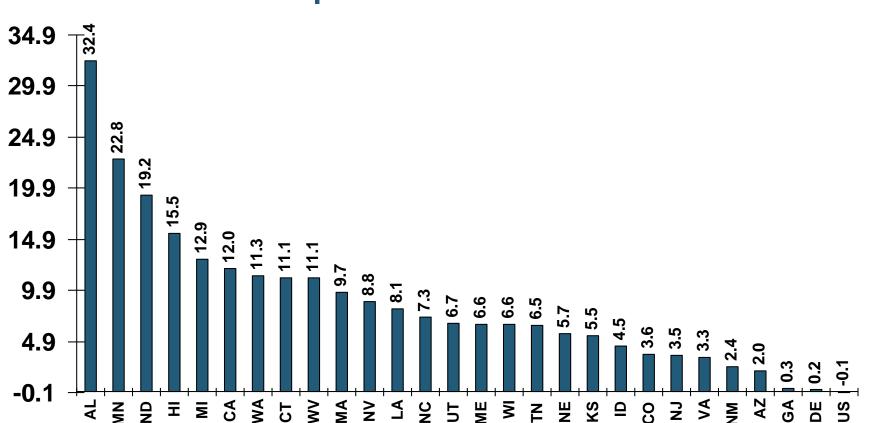
Bottom 25 States



Source: NAIC; Insurance Information Institute

Medical Professional Liability, RNW By State, 2003





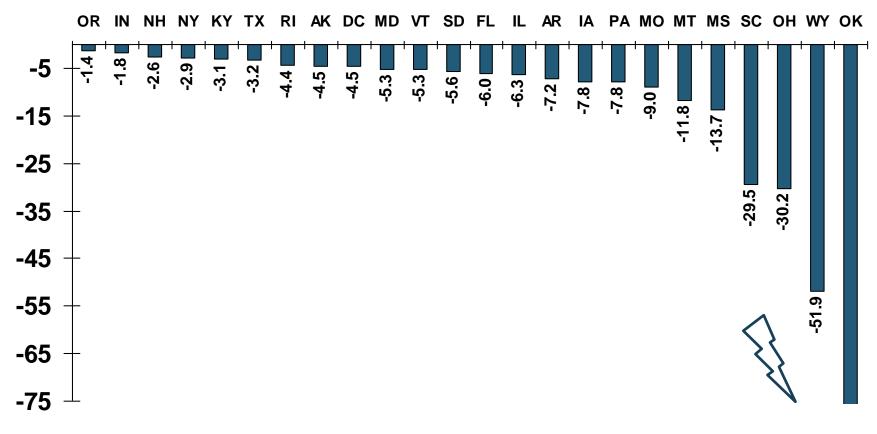
Top 27 States and US

Source: NAIC; Insurance Information Institute.

Medical Professional Liability RNW By State, 2003



Bottom 24 States and DC



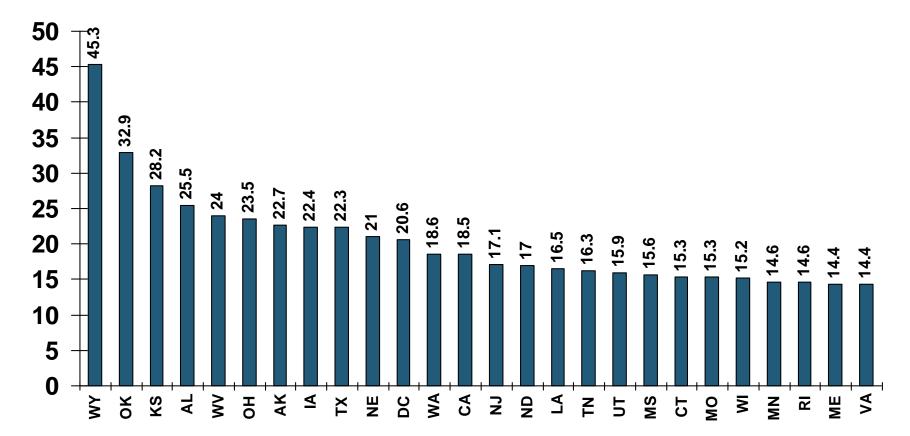
Source: NAIC; Insurance Information Institute

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Medical Professional Liability, RNW By State, 2004



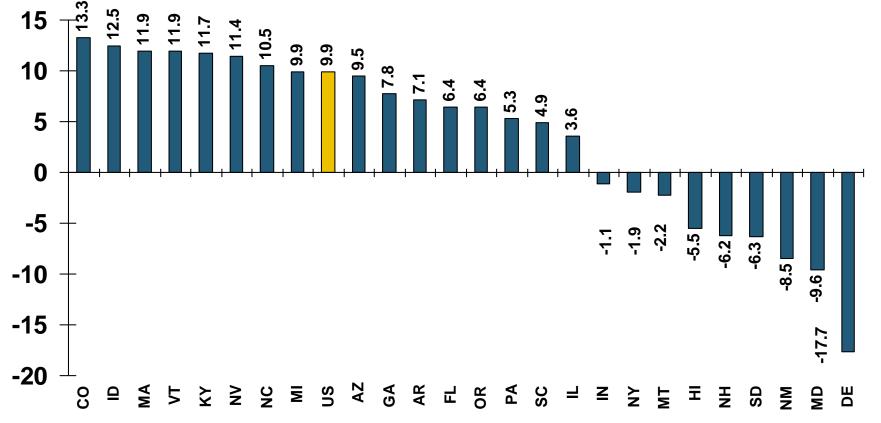
Top 25 States and DC



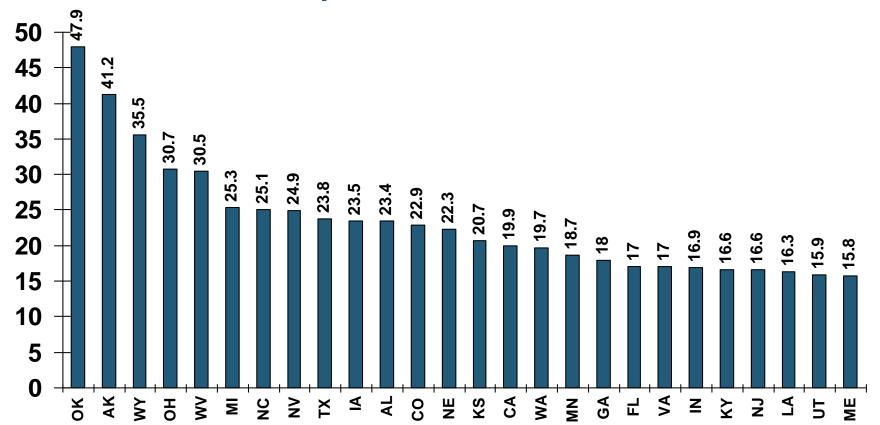
Source: NAIC; Insurance Information Institute.



Bottom 25 States



Source: NAIC; Insurance Information Institute



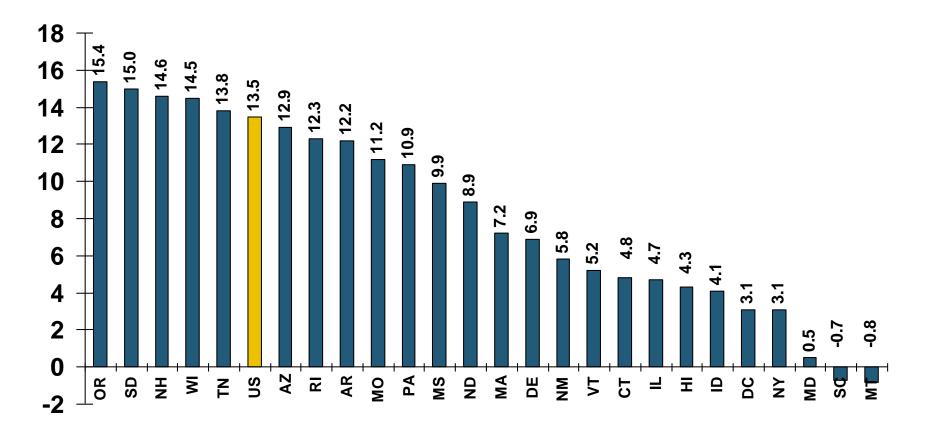
Top 25 States and DC

Source: NAIC; Insurance Information Institute.

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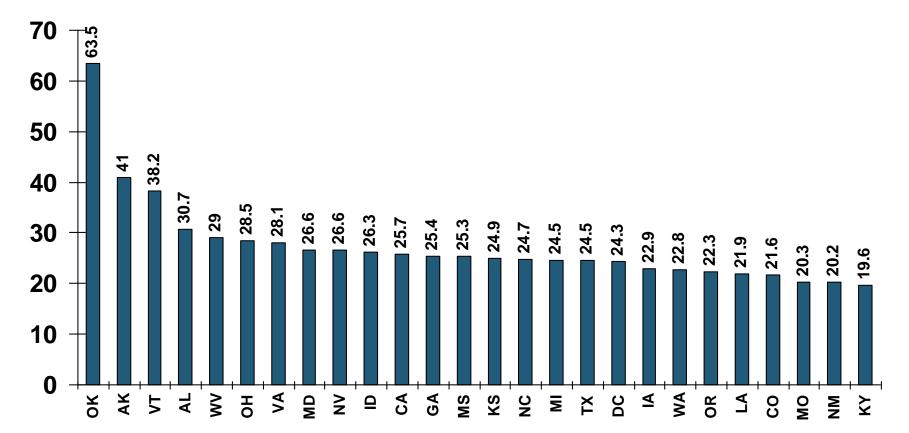
Bottom 25 States



Source: NAIC; Insurance Information Institute



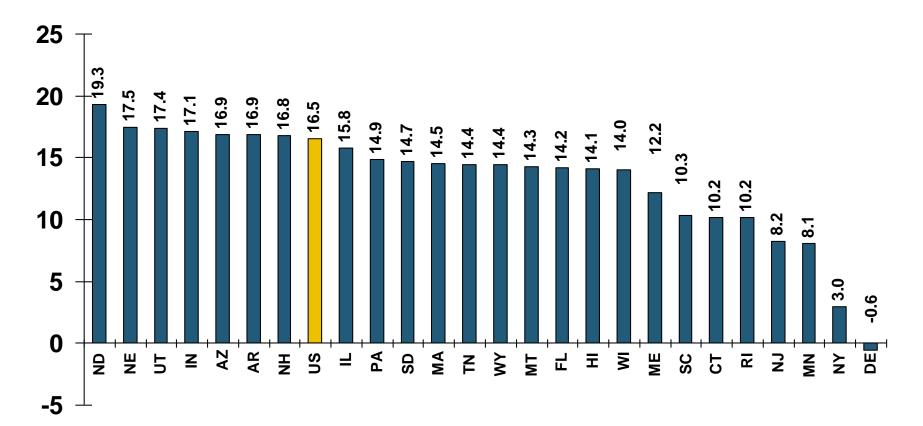




Source: NAIC; Insurance Information Institute.

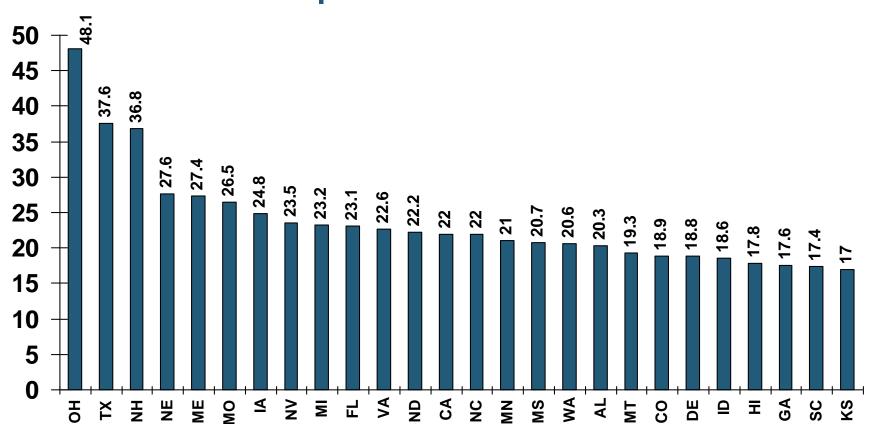


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Source: NAIC; Insurance Information Institute



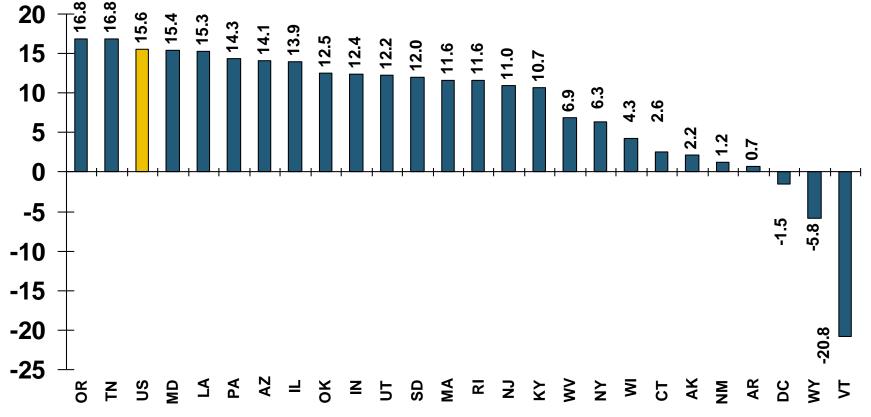


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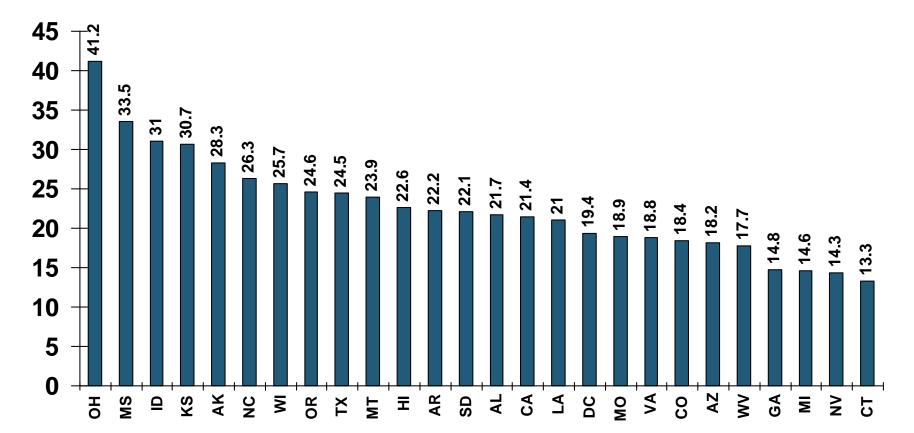


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Source: NAIC; Insurance Information Institute



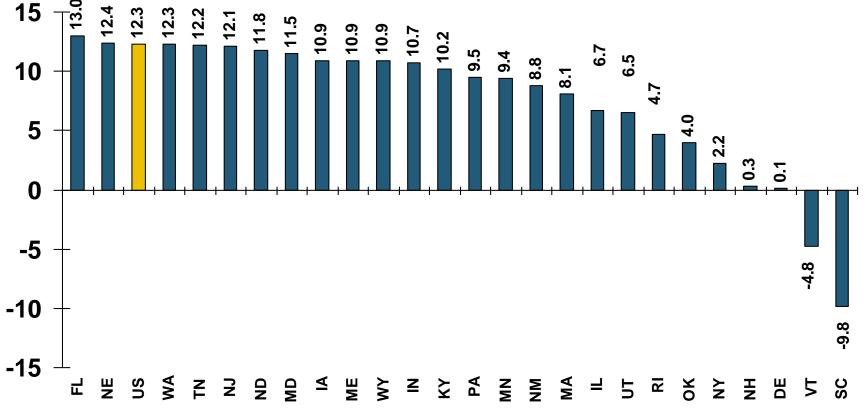


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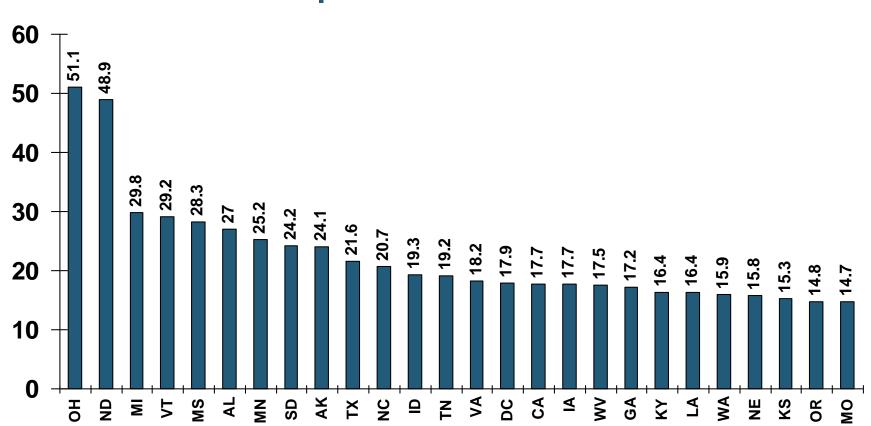


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Source: NAIC; Insurance Information Institute



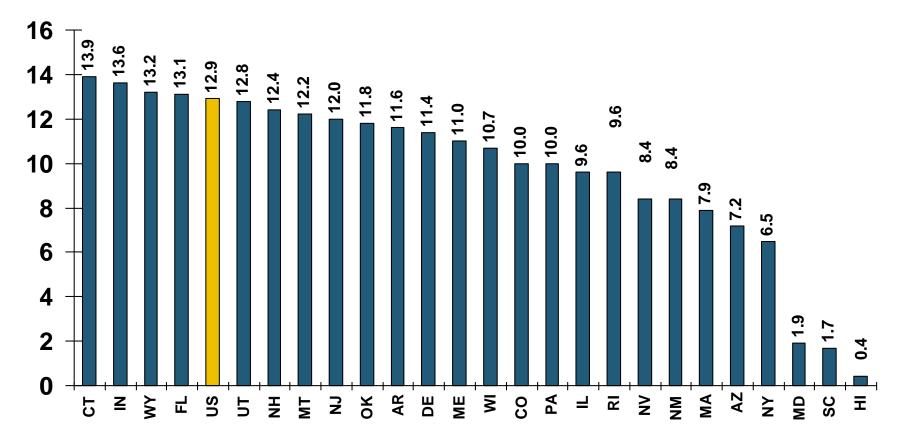


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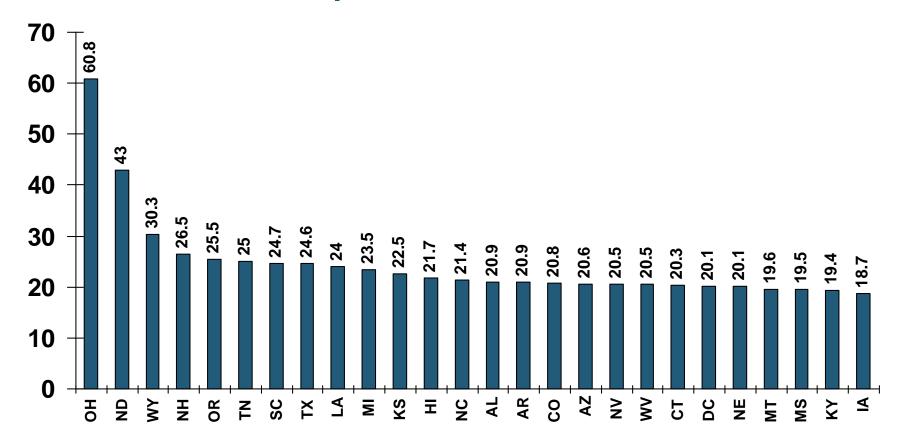
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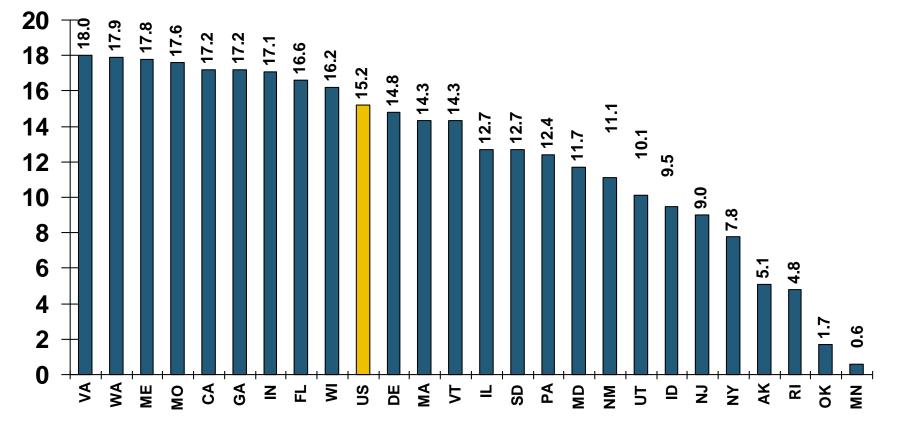
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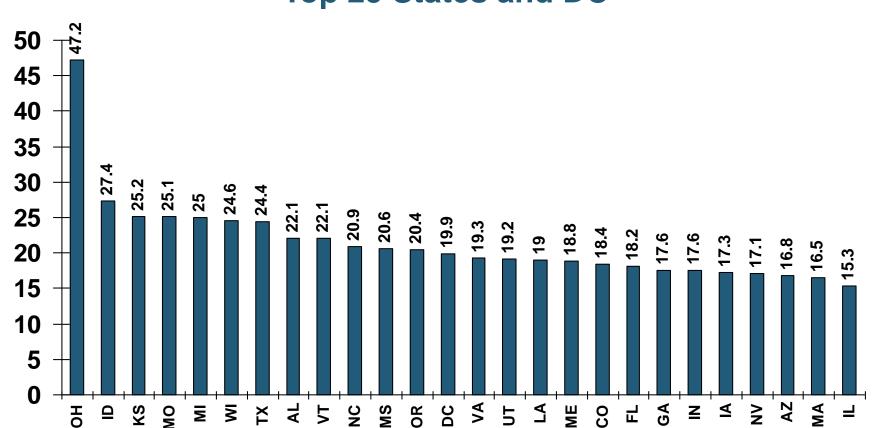


Bottom 25 States



Source: NAIC; Insurance Information Institute



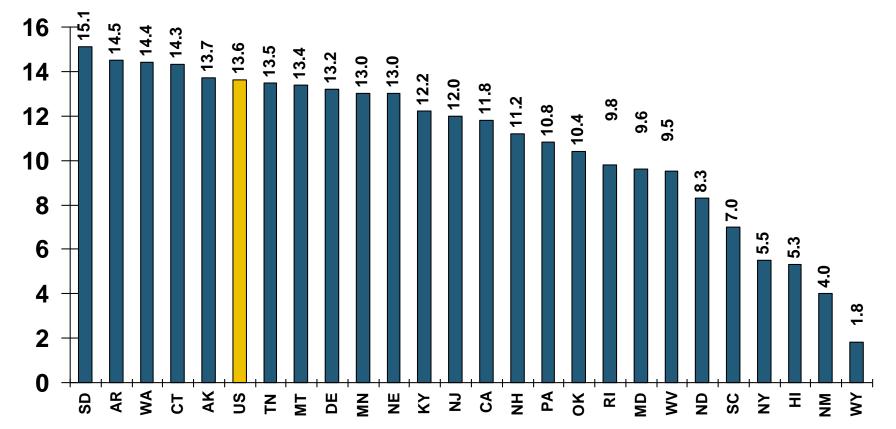


Top 25 States and DC

Source: NAIC; Insurance Information Institute.



Bottom 25 States



Source: NAIC; Insurance Information Institute



The Affordable Care Act and Medical Professional Liability

A Summary of Potential Impacts

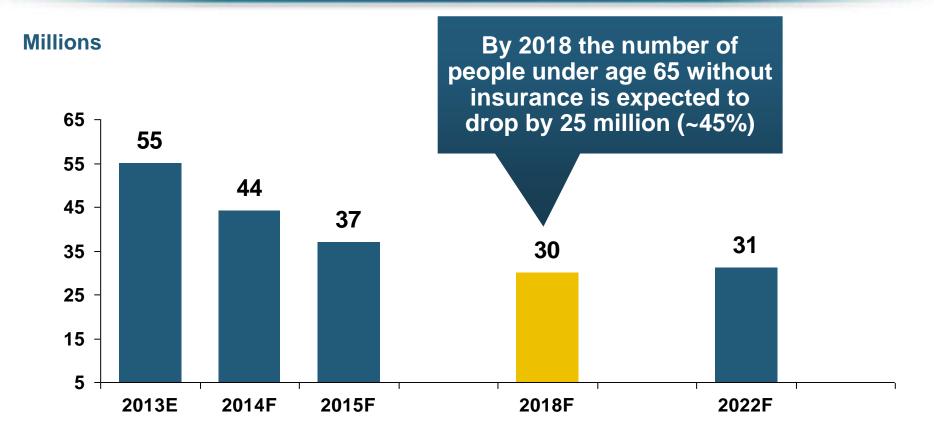
Potential Impacts of the ACA on Medical Professional Liability



Issue	Concern	Contravening Argument
Surge in People Covered by Health Insurance (VOLUME EFFECT)	 System is overwhelmed Doctors spend less time on patients Patient care adversely impacted 	 Over time, people will have access to preventative care, improving the general health of the population People are receiving care already via suboptimal channels Less use of ERs
Electronic Health Records	 Digitization could create a treasure trove of data for plaintiff attorneys 	 Computerization of patient data could help flag issues and improve risk management and improve patient outcomes
MPL Claim Severity	More large verdicts	 ACA will help contain system costs

Projected Number of People with No Health Insurance, 2013—2022*



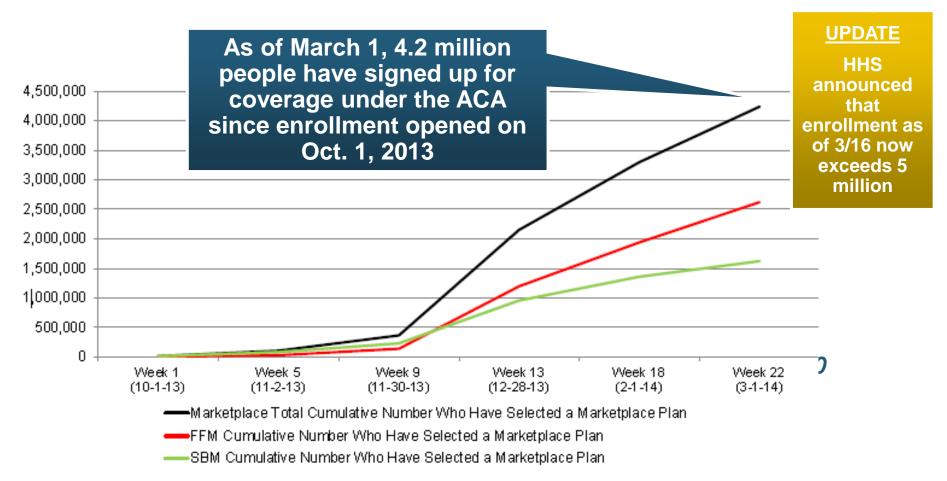


The projected decline in the uninsured population is very sensitive to the enrollment rate under the Affordable Care Act

*Under age 65.

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.

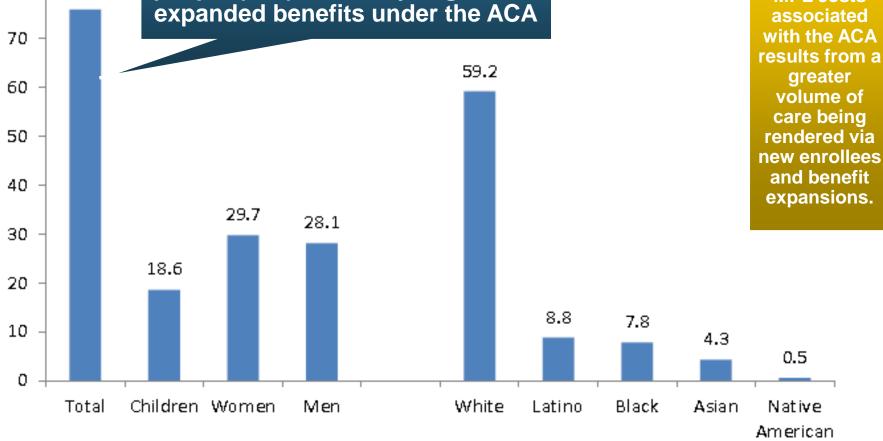
Number of People Signed Up for Health Care Under the ACA, Oct. 1 – March 1



Notes: Represents cumulative monthly sums of data on the number of unique individuals who have been determined eligible to enroll in a plan through the FFM, and have selected a plan (with or without the first premium payment having been received by the issuer).

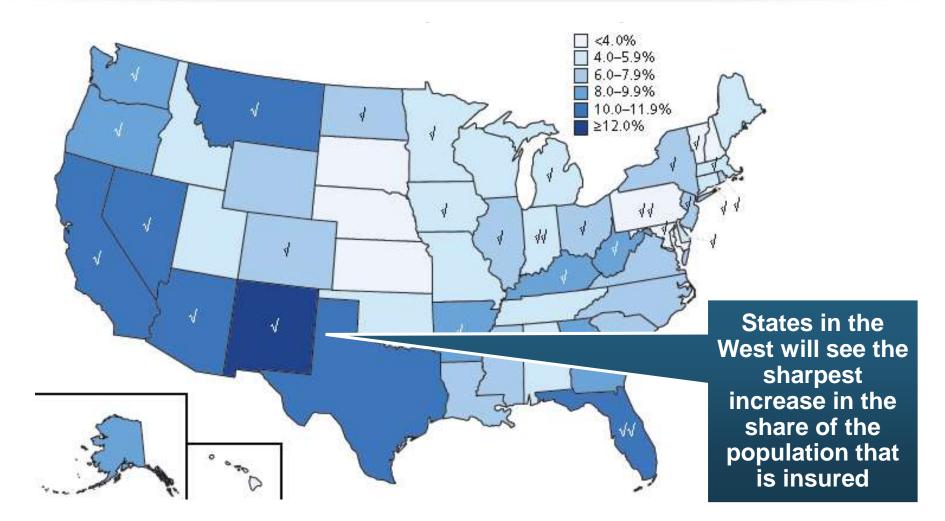
Source: Centers for Medicare and Medicaid as of March 7, 2014: http://aspe.hhs.gov/health/reports/2014/MarketPlaceEnrollment/Mar2014/ib_2014mar_enrollment.pdf INSURANCE INFORMATION

Estimated Number of Americans Newly Eligible for preventative Services Under the ACA \mathbb{C}^{50}



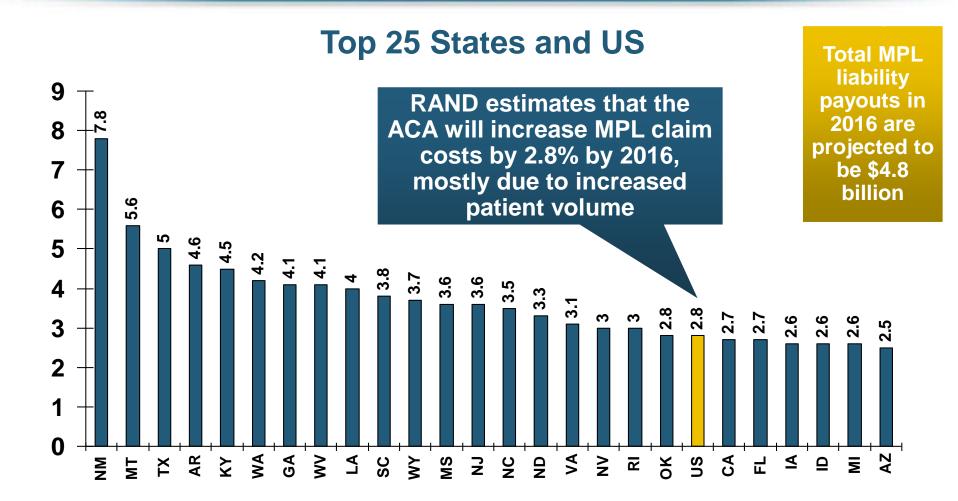
Source: Centers for Medicare and Medicaid as of June 27, 2014: http://www.aspe.hhs.gov/health/reports/2014/PreventiveServices/ib_PreventiveServices.pdf

Expected Increase in Rates of Insurance Coverage, by State, Due to the Patient Protection and Affordable Care Act (%) as of 2016

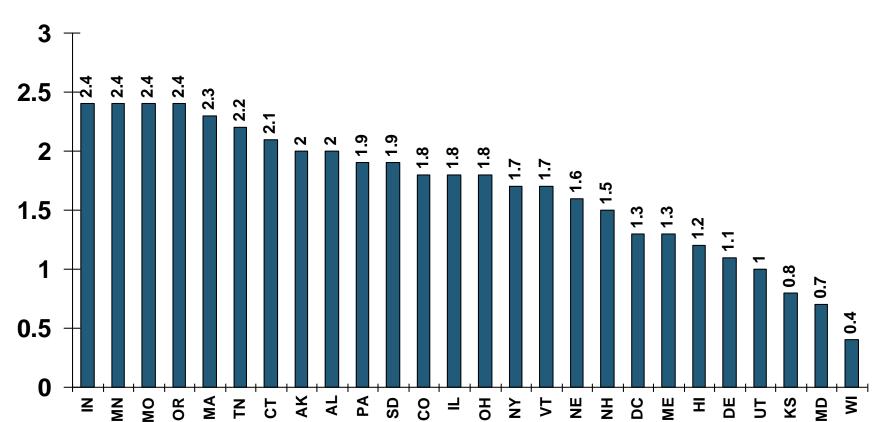


Source: "How Will the Patient Protection and Affordable Care Act Affect Liability Insurance Costs?" RAND, April 2014; <u>http://www.rand.org/pubs/research_reports/RR493.html</u>; Insurance Information Institute.

INSURANCE INFORMATION Med Malpractice: Estimated Changes in Liability Claim Costs, by State and Market, Due to the Patient Protection and Affordable Care Act (%) in 2016



Source: "How Will the Patient Protection and Affordable Care Act Affect Liability Insurance Costs?" RAND, April 2014; http://www.rand.org/pubs/research_reports/RR493.html; Insurance Information Institute. Med Malpractice: Estimated Changes in Liability Claim Costs, by State and Market, Due to the Patient Protection and Affordable Care Act (%) in 2016



Bottom 25 States and DC

Source: "How Will the Patient Protection and Affordable Care Act Affect Liability Insurance Costs?" RAND, April 2014; http://www.rand.org/pubs/research_reports/RR493.html; Insurance Information Institute.

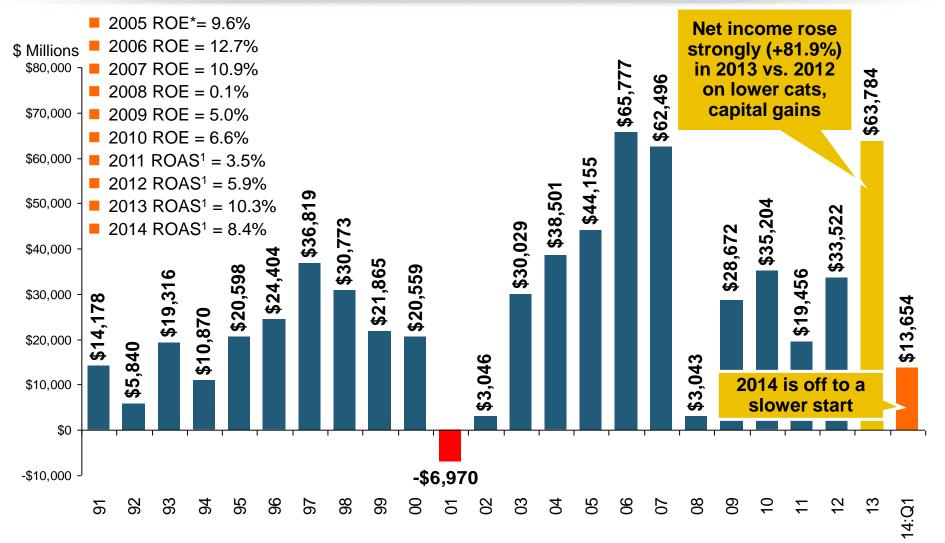


P/C Insurance Industry Financial Overview

2013: Best Year in the Post-Crisis Era

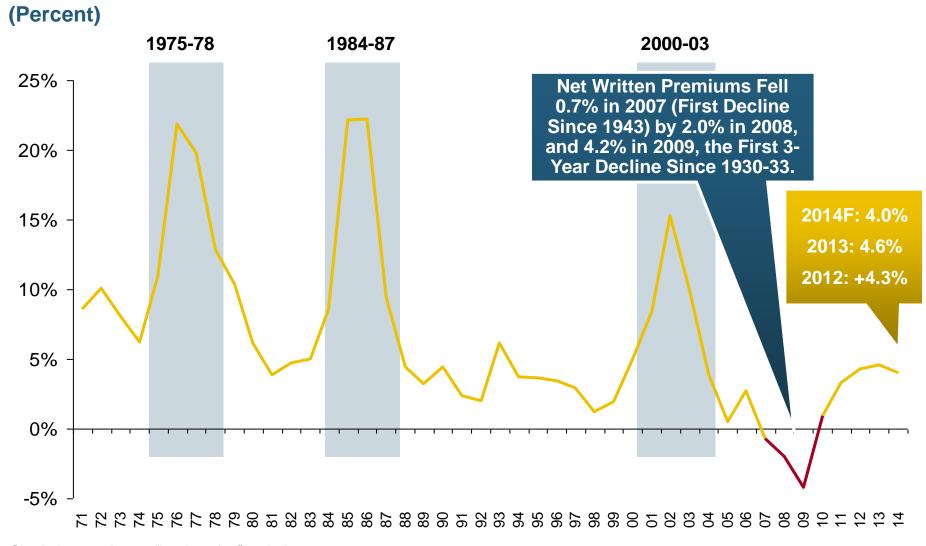
P/C Industry Net Income After Taxes 1991–2014:Q1





•ROE figures are GAAP; ¹Return on avg. surplus. Excluding Mortgage & Financial Guaranty insurers yields an 8.2% ROAS through 2014:Q1, 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

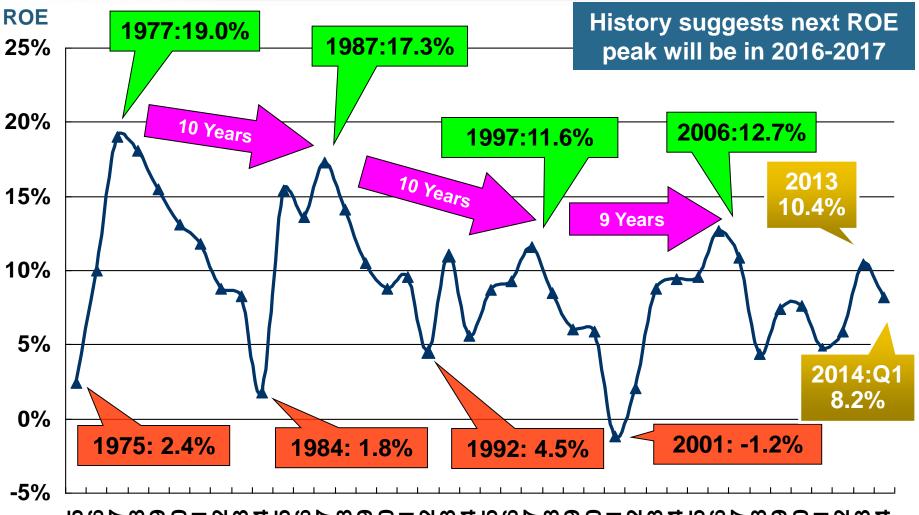
Net Premium Growth: Annual Change, 1971—2014F



Shaded areas denote "hard market" periods Sources: A.M. Best (historical and forecast), ISO, Insurance Information Institute.

Profitability Peaks & Troughs in the P/C Insurance Industry, 1975 – 2014:Q1*

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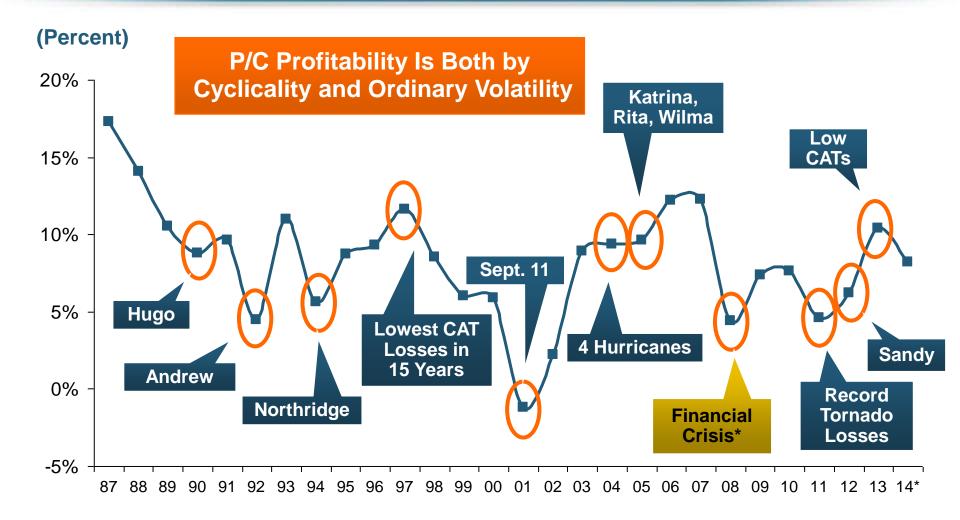


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*Profitability = P/C insurer ROEs. 2011-14 figures are estimates based on ROAS data. Note: Data for 2008-2014 exclude mortgage and financial guaranty insurers.

Source: Insurance Information Institute; NAIC, ISO, A.M. Best.

ROE: Property/Casualty Insurance by Major Event, 1987–2014:Q1

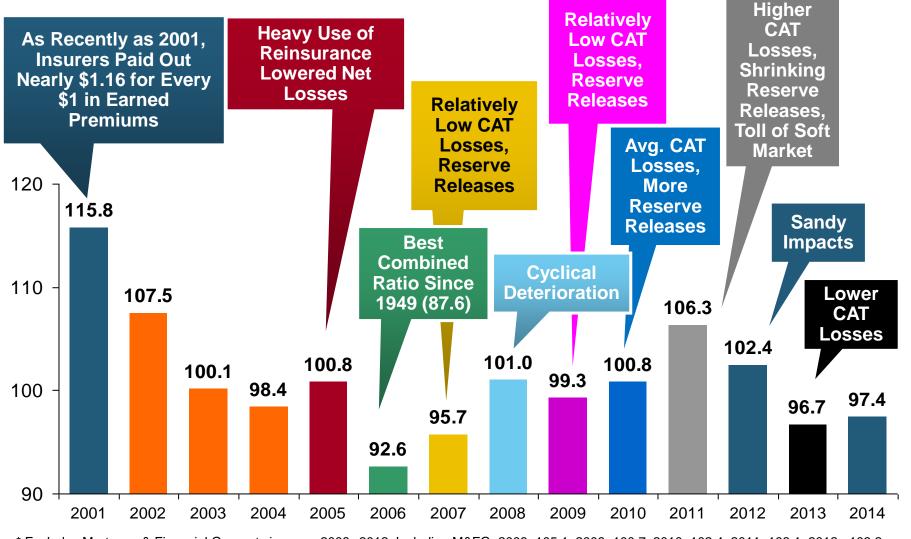


* Excludes Mortgage & Financial Guarantee in 2008 – 2014. 2014 figure is through Q1:2014. Sources: ISO, *Fortune*; Insurance Information Institute.

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P/C Insurance Industry Combined Ratio, 2001–2014:Q1*

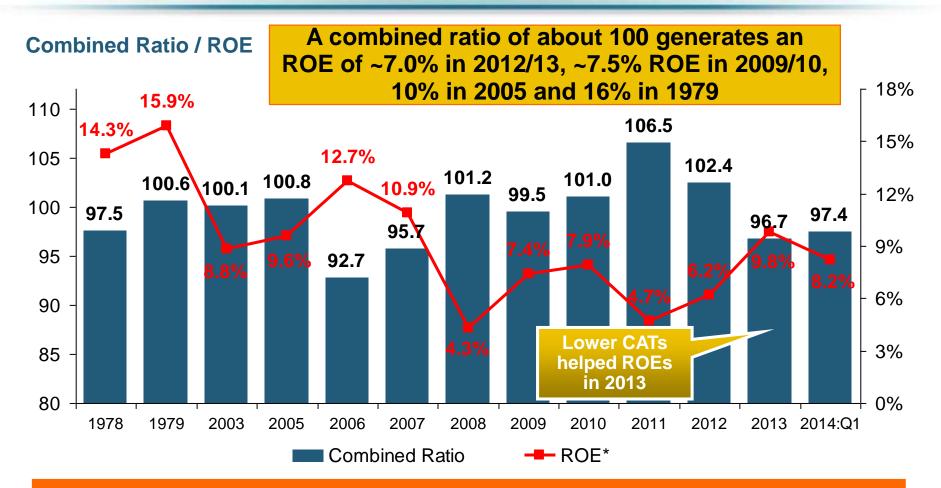




* Excludes Mortgage & Financial Guaranty insurers 2008--2012. Including M&FG, 2008=105.1, 2009=100.7, 2010=102.4, 2011=108.1; 2012:=103.2; 2013: = 96.1; 2014:Q1 = 97.3.

Sources: A.M. Best, ISO.

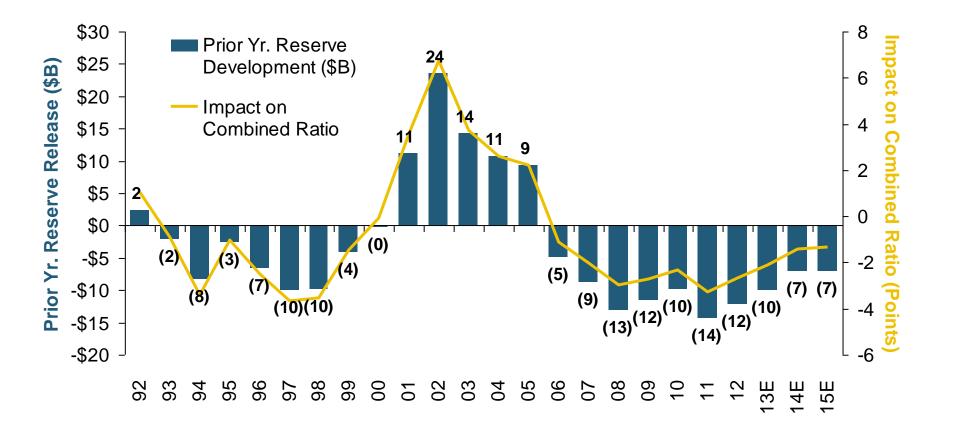
A 100 Combined Ratio Isn't What It Once Was: Investment Impact on ROEs



Combined Ratios Must Be Lower in Today's Depressed Investment Environment to Generate Risk Appropriate ROEs

* 2008 -2014 figures are return on average surplus and exclude mortgage and financial guaranty insurers. 2014:Q1 combined ratio including M&FG insurers is 97.3; 2013 = 96.1; 2012 =103.2, 2011 = 108.1, ROAS = 3.5%.
 Source: Insurance Information Institute from A.M. Best and ISO Verisk Analytics data.

P/C Reserve Development, 1992–2015E

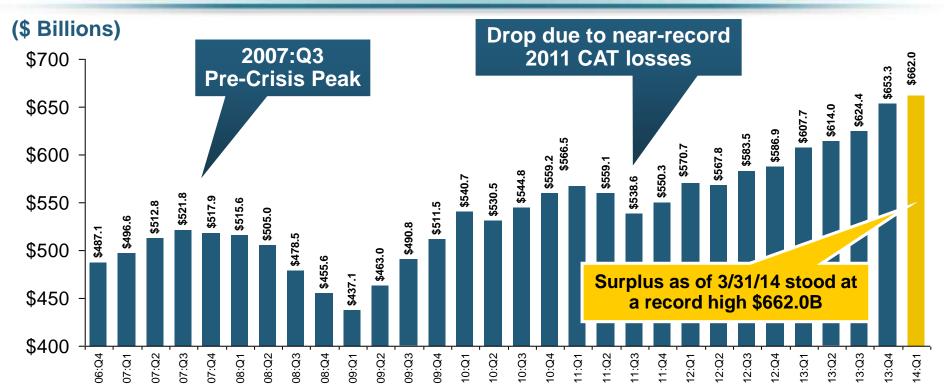


Note: 2005 reserve development excludes a \$6 billion loss portfolio transfer between American Re and Munich Re. Including this transaction, total prior year adverse development in 2005 was \$7 billion. The data from 2000 and subsequent years excludes development from financial guaranty and mortgage insurance.

Sources: A.M. Best, ISO, Barclays Research (estimates).

Policyholder Surplus, 2006:Q4–2014:Q1





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.

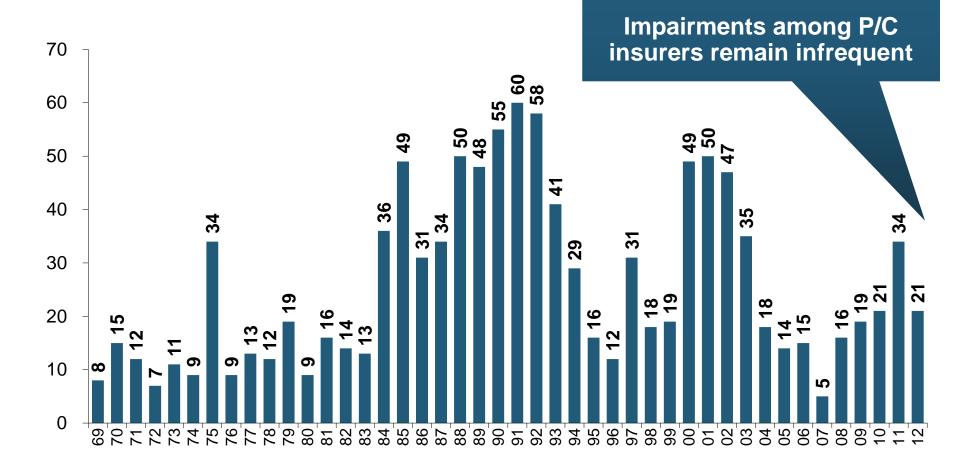
The P/C insurance industry entered 2014 in very strong financial condition.



Financial Strength & Underwriting

History Suggests that MPL, Like Other Long-Tailed Lines Is Much More Difficult to Underwrite

P/C Insurer Impairments, 1969–2012

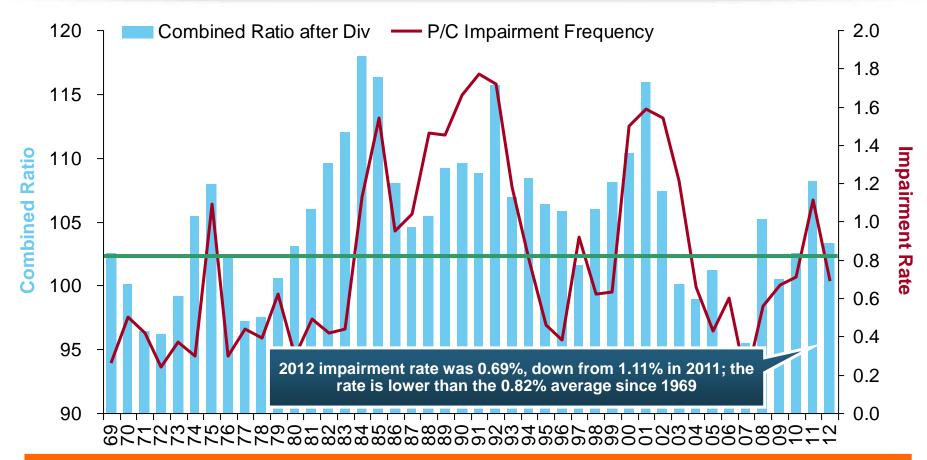


The Number of Impairments Varies Significantly Over the P/C Insurance Cycle, With Peaks Occurring Well into Hard Markets

Source: A.M. Best Special Report "Pace of P/C Impairments Slowed in 2012; Auto Writers, RRGs Continued to Struggle," June 2013; Insurance Information Institute.

P/C Insurer Impairment Frequency vs. Combined Ratio, 1969-2012





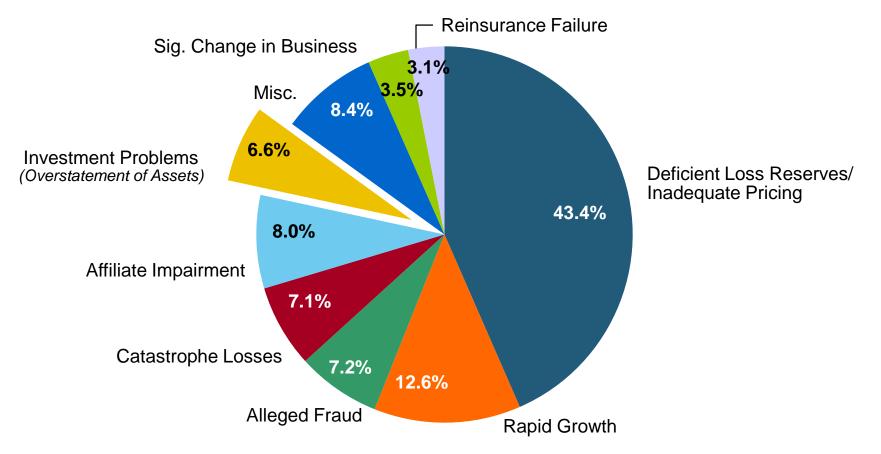
Impairment Rates Are Highly Correlated With Underwriting Performance and Reached Record Lows in 2007; Recent Increase Was Associated Primarily With Mortgage and Financial Guaranty Insurers and Not Representative of the Industry Overall

Source: A.M. Best; Insurance Information Institute

Reasons for US P/C Insurer Impairments, 1969–2012



Historically, Deficient Loss Reserves and Inadequate Pricing Are By Far the Leading Cause of P-C Insurer Impairments. Investment and Catastrophe Losses Play a Much Smaller Role

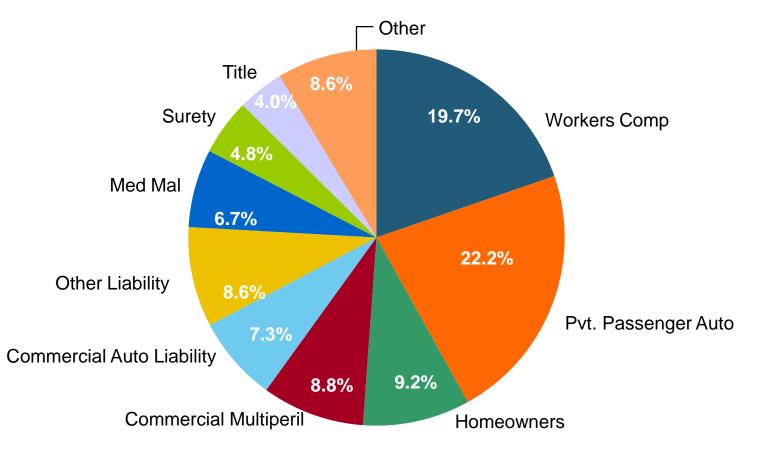


Source: A.M. Best Special Report "Pace of P/C Impairments Slowed in 2012; Auto Writers, RRGs Continued to Struggle," June 2013; Insurance Information Institute.

Top 10 Lines of Business for US P/C Impaired Insurers, 2000–2012

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Medical Professional Liability Accounts for Only About 2% of Industry DPW but 6.7% of Insurer Impairments



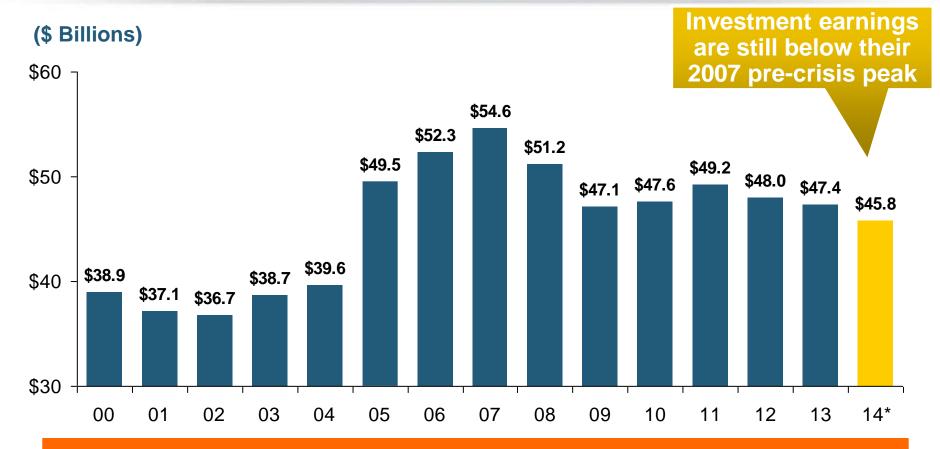
Source: A.M. Best Special Report "Pace of P/C Impairments Slowed in 2012; Auto Writers, RRGs Continued to Struggle," June 2013; Insurance Information Institute.



INVESTMENTS: THE NEW REALITY

The Challenge of Low Investment Yields Is a Critical Issue for MPL Insurers Is Relief in Sight?

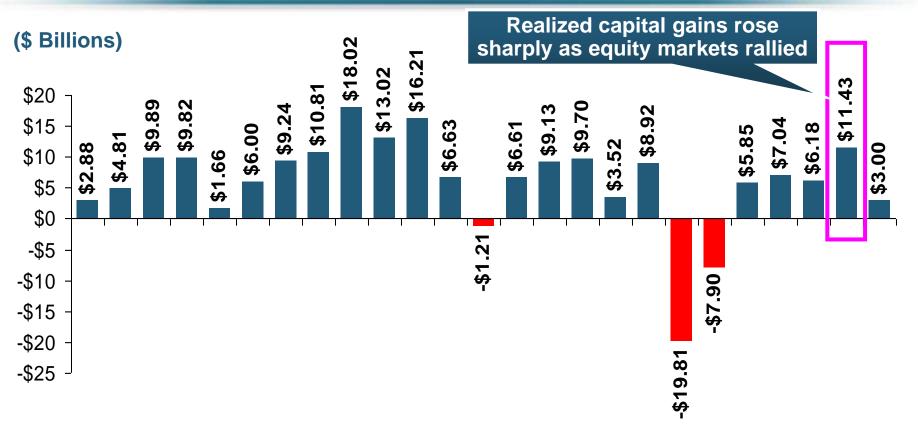
Property/Casualty Insurance Industry Investment Income: 2000–2014¹



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

¹ Investment gains consist primarily of interest and stock dividends. Sources: ISO; Insurance Information Institute. *2014 investment income is estimated Q1, annualized.

P/C Insurer Net Realized Capital Gains/Losses, 1990-2014:Q1



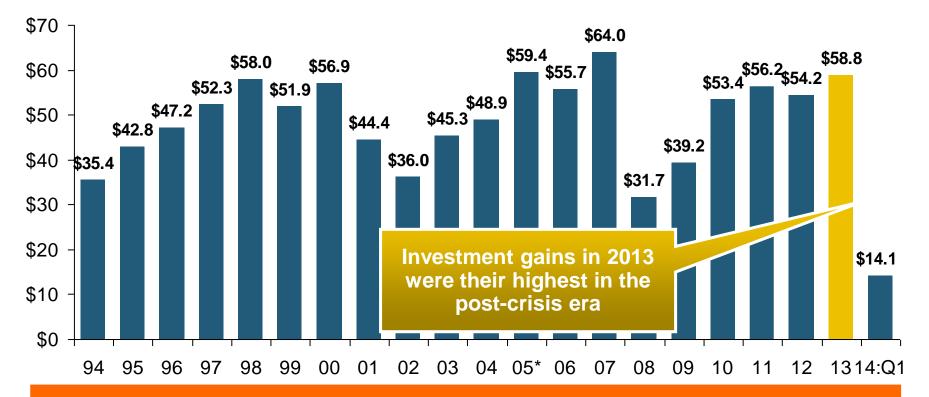
90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 1314:Q1

Insurers Posted Net Realized Capital Gains in 2010 - 2013 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

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

Property/Casualty Insurance Industry Investment Gain: 1994–2014:Q1¹

(\$ Billions)



Investment Income Continued to Fall in 2013 Due to Low Interest Rates but Realized Investment Gains Were Up Sharply; The Financial Crisis Caused Investment Gains to Fall by 50% in 2008

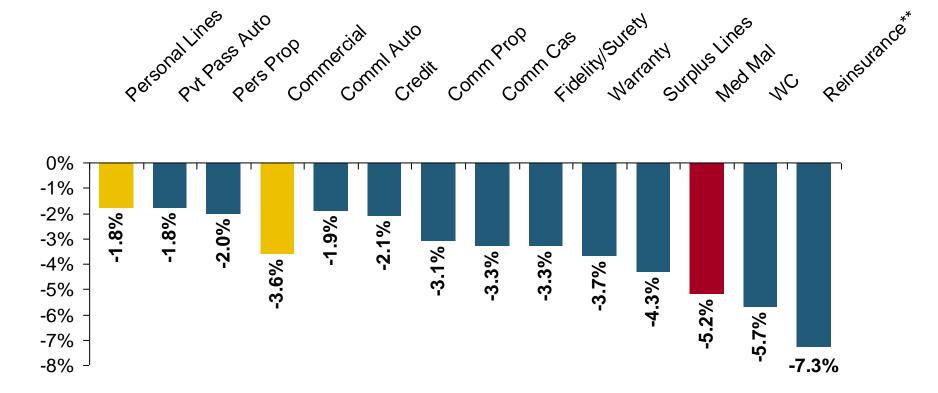
¹ Investment gains consist primarily of interest, stock dividends and realized capital gains and losses.

* 2005 figure includes special one-time dividend of \$3.2B;

Sources: ISO; Insurance Information Institute.

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





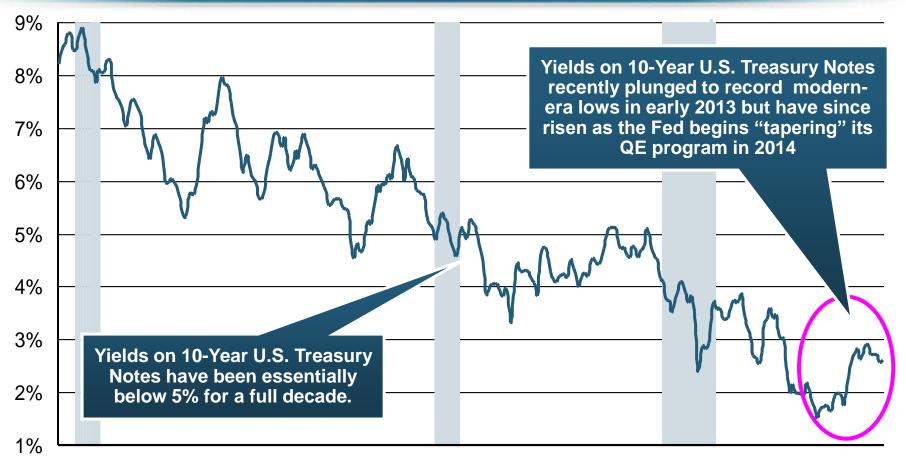
Lower Investment Earnings Place a Greater Burden on Underwriting and Pricing Discipline

*Based on 2008 Invested Assets and Earned Premiums

**US domestic reinsurance only

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

U.S. 10-Year Treasury Note Yields: A Long Downward Trend, 1990–2014*

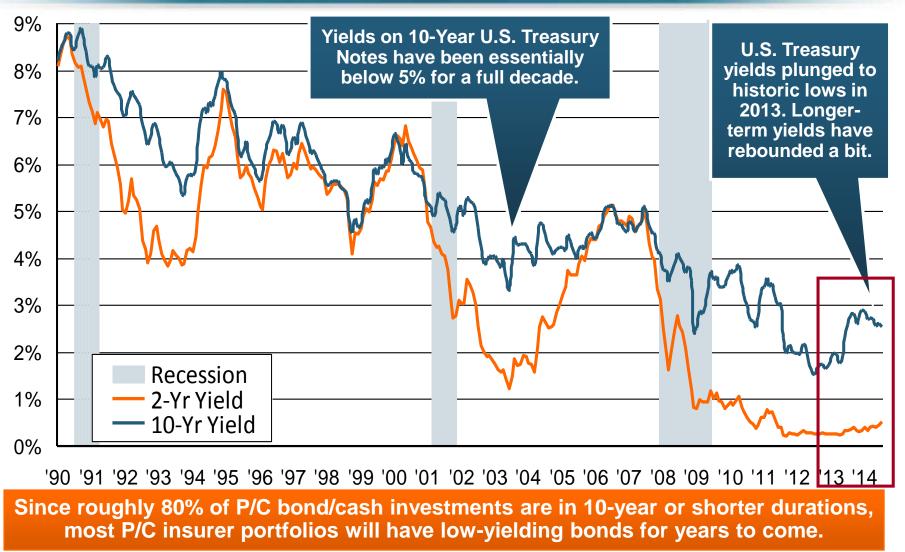


'90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14

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

*Monthly, through June 2014. Note: Recessions indicated by gray shaded columns. Sources: Federal Reserve Bank at <u>http://www.federalreserve.gov/releases/h15/data.htm</u>. National Bureau of Economic Research (recession dates); Insurance Information Institutes. INSURANCE

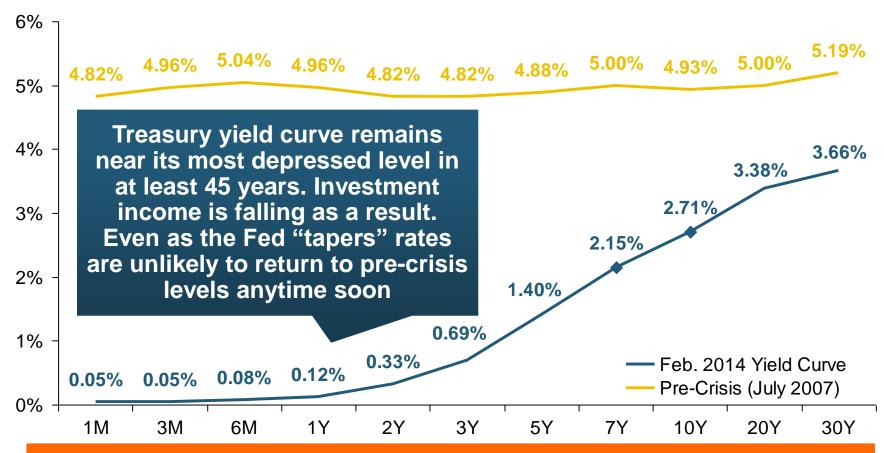
U.S. Treasury Security Yields: A Long Downward Trend, 1990–2014*



*Monthly, constant maturity, nominal rates, through July 2014.

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.

Treasury Yield Curves: Pre-Crisis (July 2007) vs. Feb. 2014

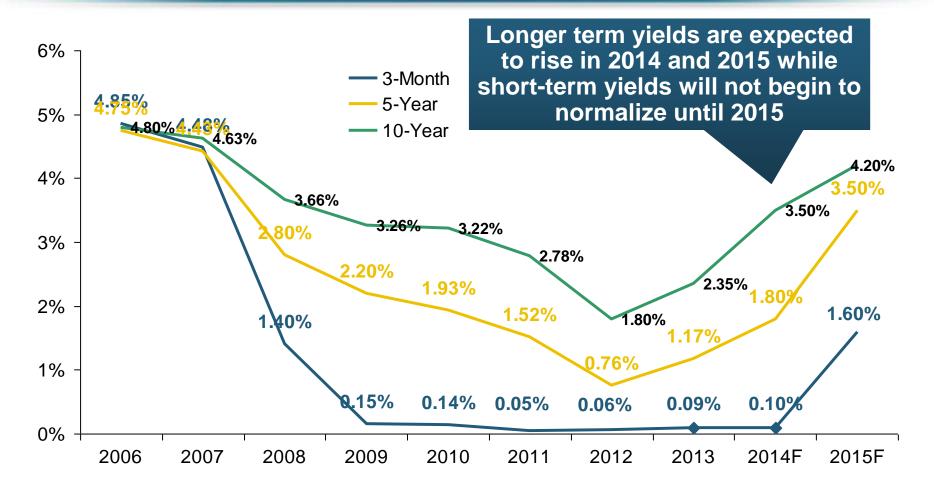


The Fed Is Actively Signaling that it Is Determined to Keep Rates Low Until Unemployment Drops Below 6.5% or Until Inflation Expectations Exceed 2.5%; Low Rates Add to Pricing Pressure for Insurers.

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

ISUDANCE

Treasury Yield Curves: Pre-Crisis (July 2007) vs. Feb. 2014



Higher longer-term yields will help insurers but short term yields are expected to lag behind

Source: Federal Reserve Board of Governors (2006-2013), Swiss Re (2014-2015); Insurance Information Institute.

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Outlook for U.S. Treasury Bond Yields Through 2015



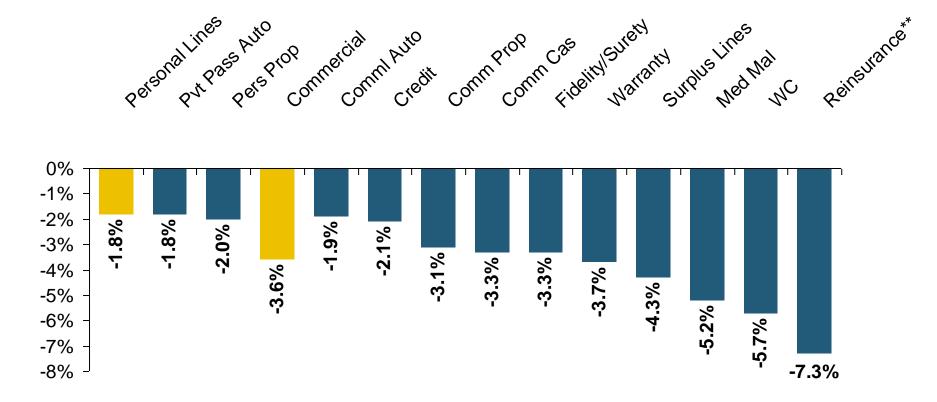
Long-term yields should begin to normalize in 2014 but short-term yields will % Yield remain very low until 2015 4.20 4.5 4.0 3.50 ■ 3-Month ■ 5-Year ■ 10-Year 3.5 3.0 2.35 2.30 2.5 1.80 1.80 2.0 1.40 1.5 1.17 0.76 1.0 0.5 0.06 0.09 0.10 0.0 2012 2013 2014F 2015F

Longer-tail lines like MPL and workers comp will benefit the most from the normalization of yields

Source: Federal Reserve Board of Governors (2012-2013), Swiss Re (2014-2015); Insurance Information Institute.

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

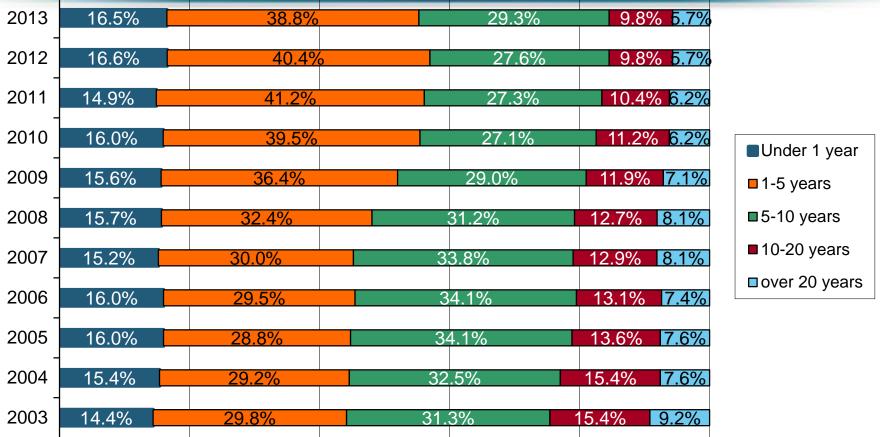
*Based on 2008 Invested Assets and Earned Premiums

**US domestic reinsurance only

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

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

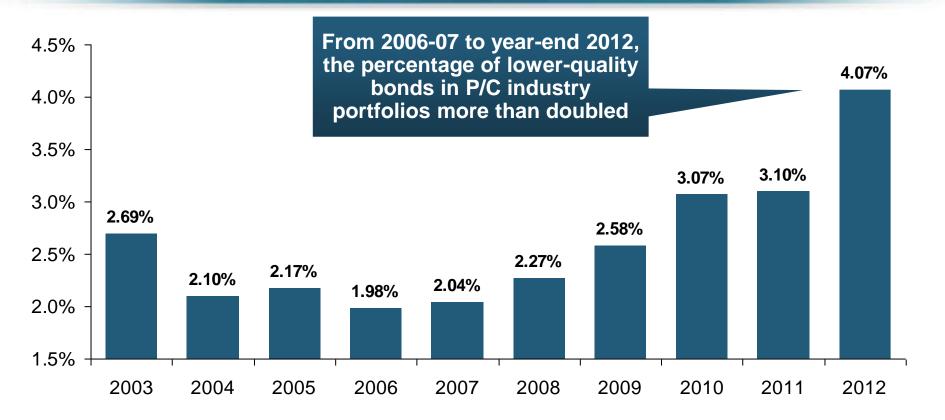




The main shift over these years has been from bonds with longer maturities to bonds with shorter maturities. The industry first trimmed its holdings of over-10-year bonds (from 24.6% in 2003 to 15.5% in 2012) and then trimmed bonds in the 5-10-year category (from 31.3% in 2003 to 27.6% in 2012). Falling 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.

Bonds Rated NAIC Quality Category 3-6 as a Percent of Total Bonds, 2003–2012



There are many ways to capture higher yields on bond portfolios. One is to accept greater risk, as measured by NAIC bond ratings. The ratings range from 1 to 6, with the highest quality rated 1. Even in 2012, over 95% of the industry's bonds were rated 1 or 2.

Sources: SNL Financial; Insurance Information Institute.

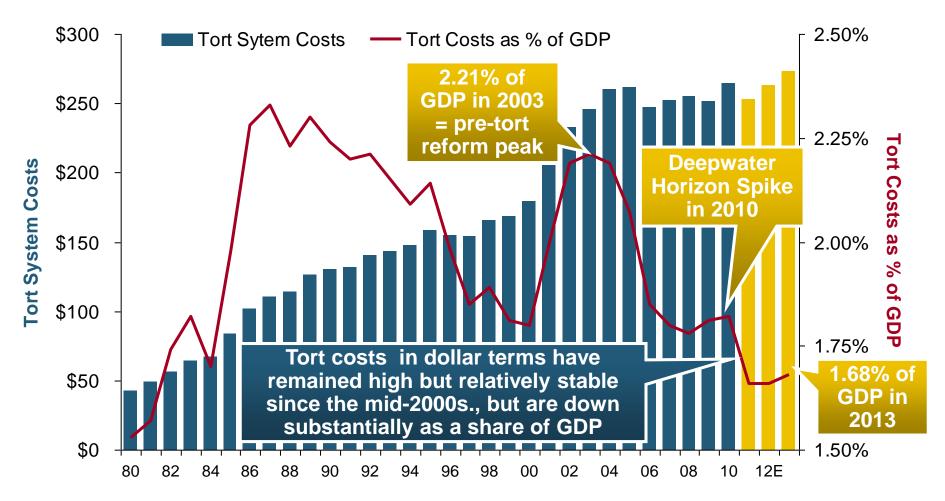


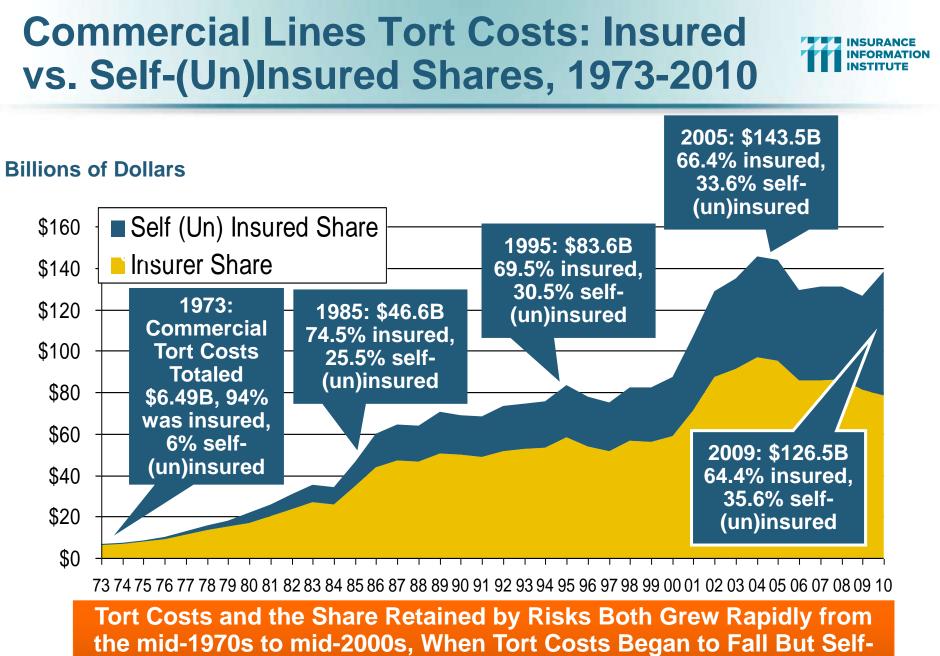
Shifting Legal Liability & Tort Environment

Is the Tort Pendulum Swinging Against Insurers?

Over the Last Three Decades, Total Tort Costs as a % of GDP Appear Somewhat Cyclical, 1980-2013E





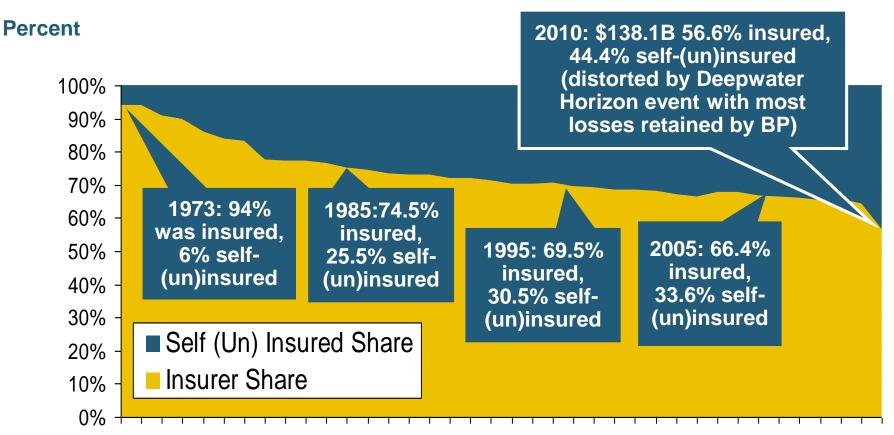


Insurance Shares Continued to Rise

Sources: Towers Watson, 2011 Update on US Tort Cost Trends, III Calculations based on data from Appendix 4.

Commercial Lines Tort Costs: Insured vs. Self-(Un)Insured Shares, 1973-2010





73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10

The Share of Tort Costs Retained by Risks Has Been Steadily Increasing for Nearly 40 Years. This Trend Contributes Has Left Insurers With Less Control Over Pricing.

Sources: Towers Watson, 2011 Update on US Tort Cost Trends, III Calculations based on data from Appendix 4.

Business Leaders Ranking of Liability Systems in 2012



	Best States			Worst States		
		New in 2012				
1.	Delaware	Wyoming	41.	Florida	Newly Notorious	
2.	Nebraska	MinnesotaKansas	42.	Oklahoma	Oklahoma	
3.	Wyoming	Idaho	43.	Alabama		
4.	Minnesota		44.	New Mexico		
5.	Kansas	Drop-offs	45.	Montana	Rising Above	
6.	Idaho	IndianaColorado	46.	Illinois	Arkansas	
7.	Virginia	Massachusetts	47.	California		
8.	North Dakota	South Dakota	48.	Mississippi		
9.	Utah		49.	Louisiana		

50.

West Virginia

lowa 10.

Source: US Chamber of Commerce 2012 State Liability Systems Ranking Study; Insurance Info. Institute.

The Nation's Judicial Hellholes: 2012/2013

INSURANCE INFORMATION INSTITUTE





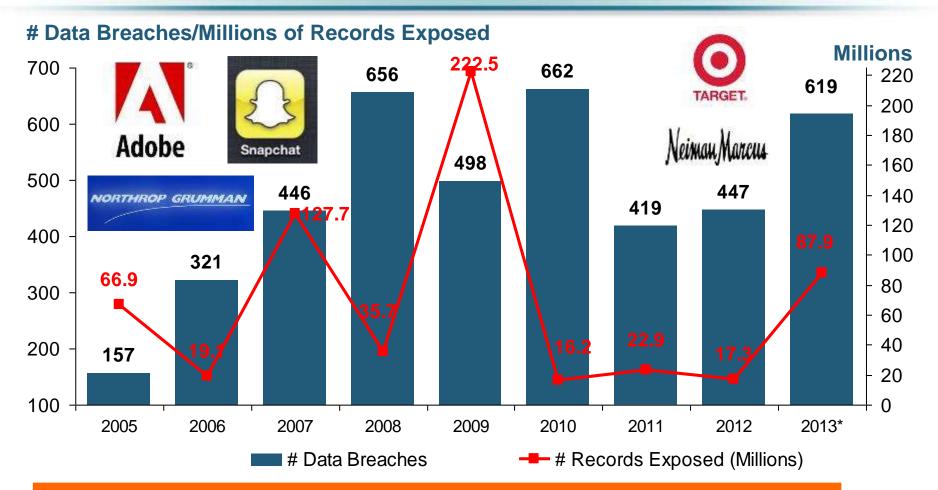
CYBER RISK

Cyber Risk is a Rapidly Emerging Exposure for All Industries— Especially Healthcare/Medical

NEW III White Paper:

http://www.iii.org/assets/docs/pdf/paper_CyberRisk_2014.pdf

Data Breaches 2005-2013, by Number of Breaches and Records Exposed



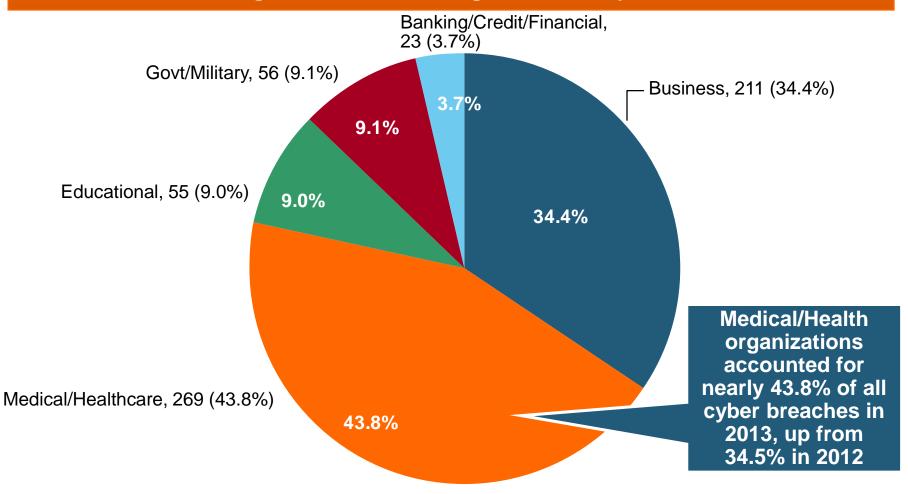
The Total Number of Data Breaches (+38%) and Number of Records Exposed (+408%) in 2013 Soared

* 2013 figures as of Jan. 1, 2014 from the ITRC updated to an additional 30 million records breached (Target) as disclosed in Jan. 2014. Source: Identity Theft Resource Center.

2013 Data Breaches By Business Category, By Number of Breaches



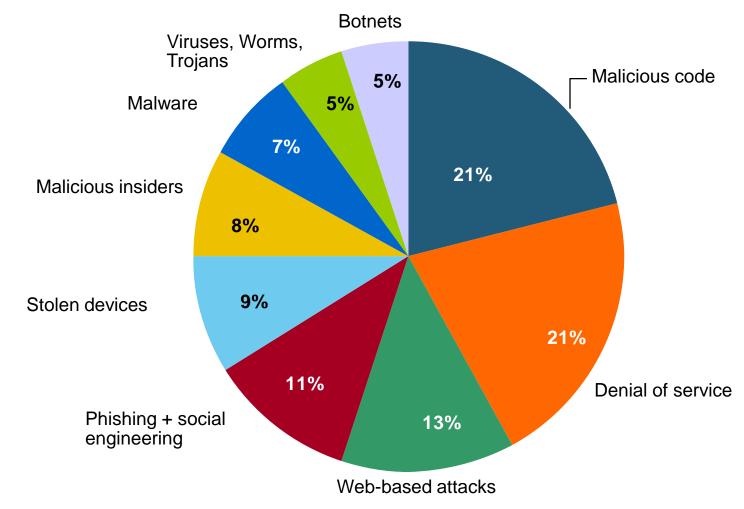
The majority of the 614 data breaches in 2013 affected business and medical/healthcare organizations, according to the Identity Theft Resource Center.



Source: Identity Theft Resource Center, http://www.idtheftcenter.org/images/breach/2013/UpdatedITRCBreachStatsReport.pdf

The Most Costly Cyber Crimes, Fiscal Year 2013

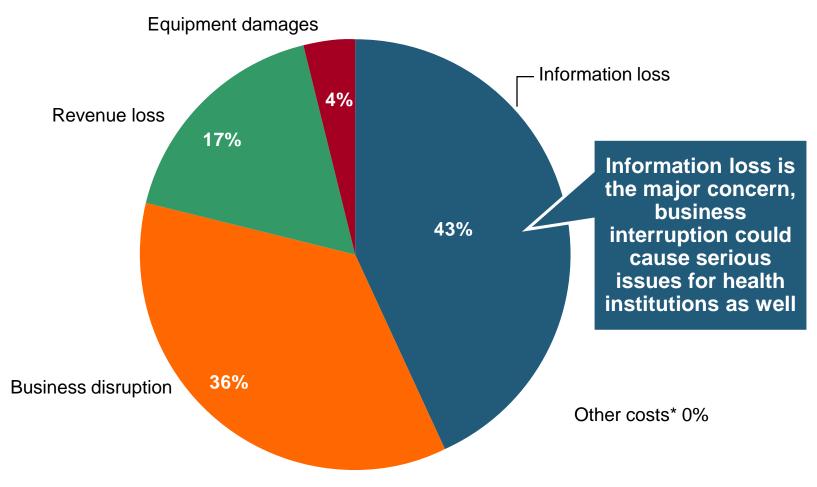
Denial of service, malicious code and web-based attacks account for more than 55 percent of all cyber costs per U.S. organization on an annual basis.



Source: 2013 Cost of Cyber Crime: United States, Ponemon Institute.

External Cyber Crime Costs: Fiscal Year 2013

Information loss (43%) and business disruption or lost productivity (36%) account for the majority of external costs due to cyber crime.

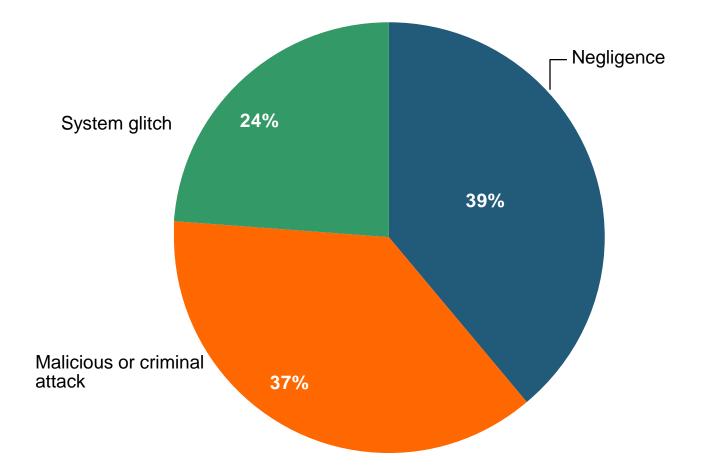


* Other costs include direct and indirect costs that could not be allocated to a main external cost category Source: 2013 Cost of Cyber Crime: United States, Ponemon Institute.

Main Causes of Data Breach



Negligent employees and malicious attacks are most often the cause of the data breach. Some 39 percent of incidents involve a negligent employee or contractor, while 37 percent concern a malicious or criminal attack.

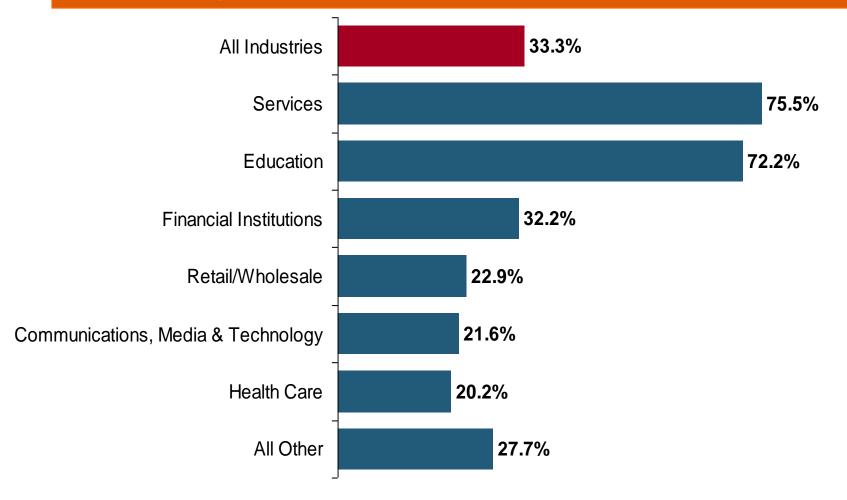


Source: 2011 Cost of Data Breach Study: United States, Ponemon Institute, March 2012

Marsh: Increase in Purchase of Cyber Insurance Among U.S. Companies, 2012



Interest in cyber insurance continues to climb. The number of companies purchasing cyber insurance increased 33 percent from 2011 to 2012.



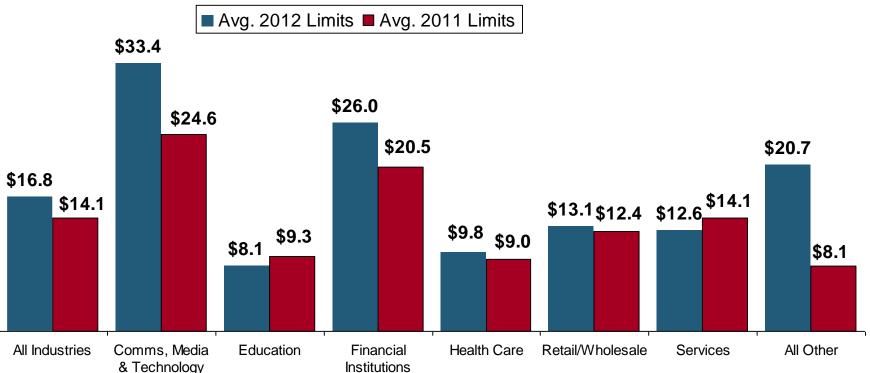
Source: Marsh Global Analytics, Marsh Risk Management Research Briefing, March 2013

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



Cyber insurance limits purchased in 2012 averaged \$16.8 million across all industries, an increase of nearly 20% over 2011.

(\$ Millions)



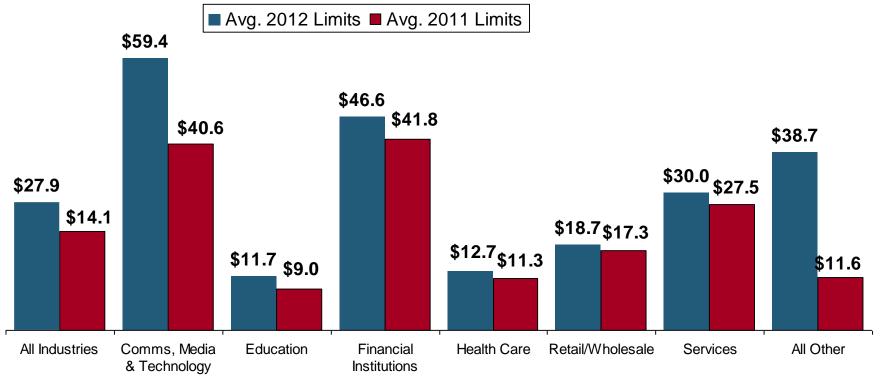
Source: Marsh Global Analytics, Marsh Risk Management Research Briefing, March 2013

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



Among larger companies, average cyber insurance limits purchased in 2012 increased nearly 30% over 2011.

(\$ Millions)



Source: Marsh Global Analytics, Marsh Risk Management Research Briefing, March 2013



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