Future Shock: What's Ahead for the US Economy and the Insurance Industry

Robert P. Hartwig, Ph.D., CPCU ◆

Clinical Associate Professor of Finance ◆ Darla Moore School of Business University of South Carolina and

Special Consultant

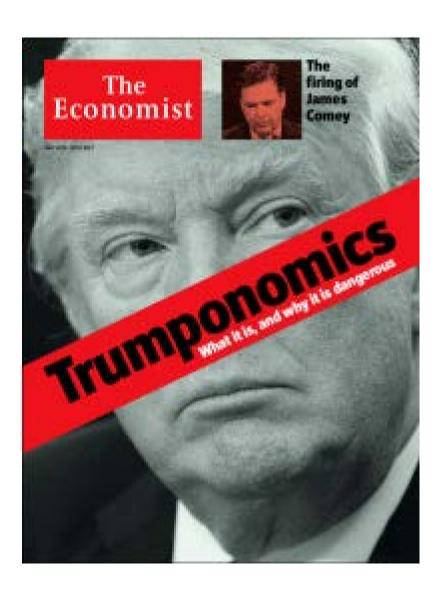
Insurance Information Institute



THE ECONOMY

How Will "Trumponomics" Impact the Insurance Industry and the Overall Economy?

Trumponomics: The Essential Elements



■5 Elements

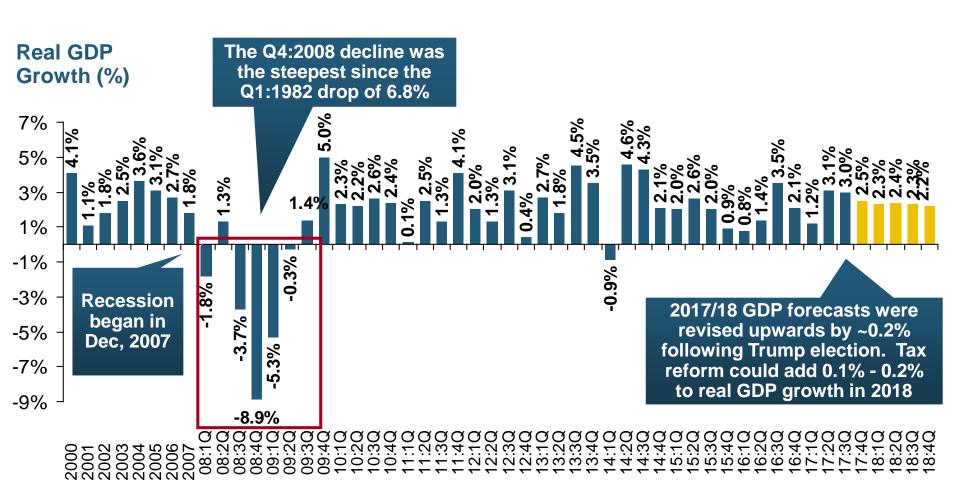
- Healthcare
- Fair Trade
- Deregulation
- Tax Reform
- Infrastructure Investment
- Immigration
 Reform/Enforcement
- Most of these have direct impacts for insurers

Awakening America's "Animal Spirits"

Economic Policy and the Insurance Industry

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

US Real GDP Growth*



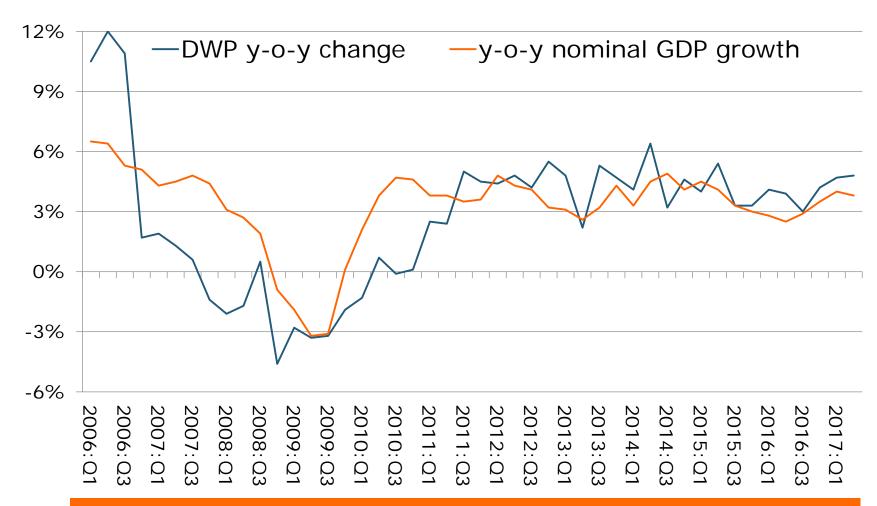
Demand for Insurance Should Increase in 2017-18 as GDP Growth Continues at a Steady, Albeit Moderate Pace and Gradually Benefits the Economy Broadly

Source: US Department of Commerce, Blue Economic Indicators 10/17; Insurance Information Institute.

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

The Economy Drives P/C Insurance Industry Premiums: 2006:Q1 – 2017:Q2

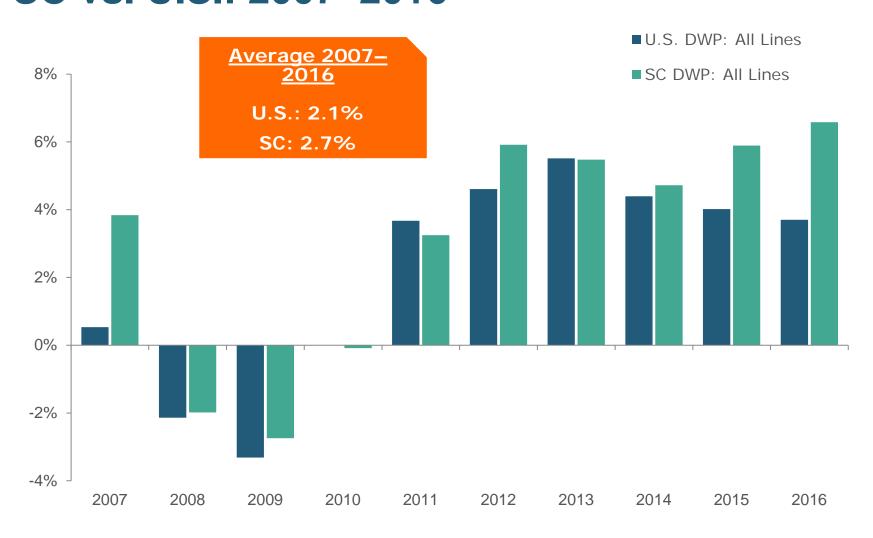
Direct Premium Growth (All P/C Lines) vs. Nominal GDP: Quarterly Y-o-Y Pct. Change



Direct Written Premiums track Nominal GDP—not quarter by quarter but overall fairly well.

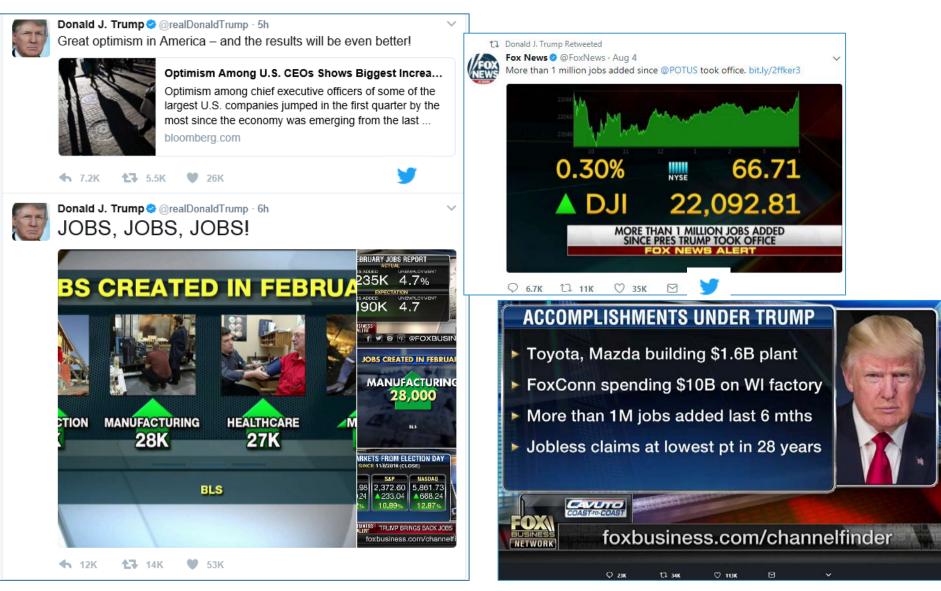
Sources: SNL Financial; U.S. Commerce Dept., Bureau of Economic Analysis; I.I.I.

All Lines Direct Written Premium Growth: SC vs. U.S.: 2007–2016

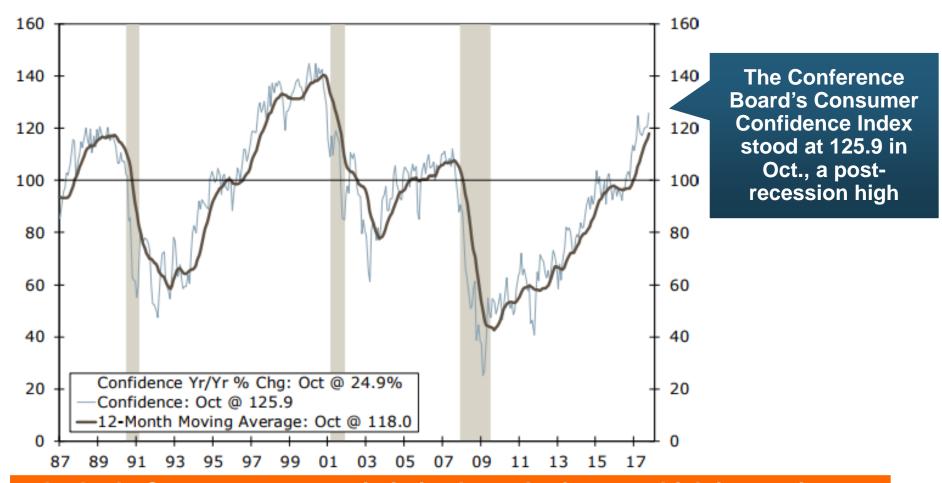


Source: NAIC data, sourced from S&P Global Market Intelligence, Insurance Information Institute.

Animal Spirits: Unleashed from the Oval Office?



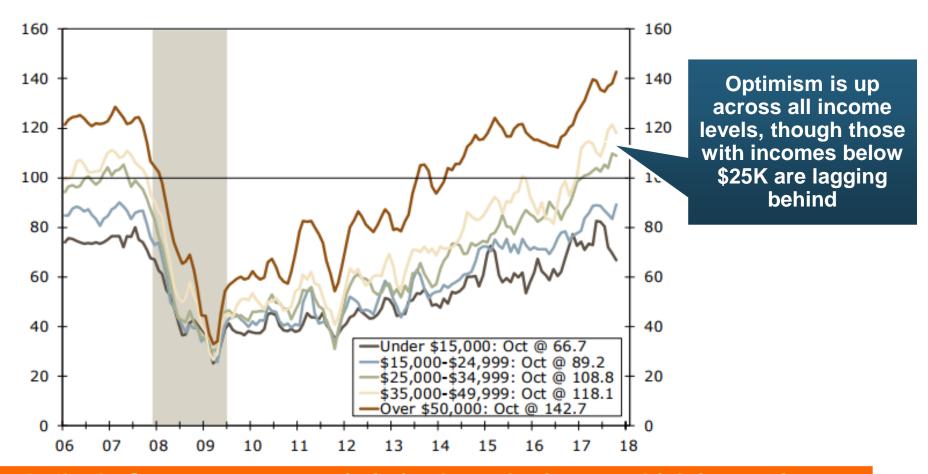
Consumer Confidence Index: Jan. 1987 – Oct. 2017



Outlook: Consumers are optimistic about the future, which is consistent with expectations for stronger economic growth (consumers account for nearly 70% of all spending in the economy). Should positively influence business investment.

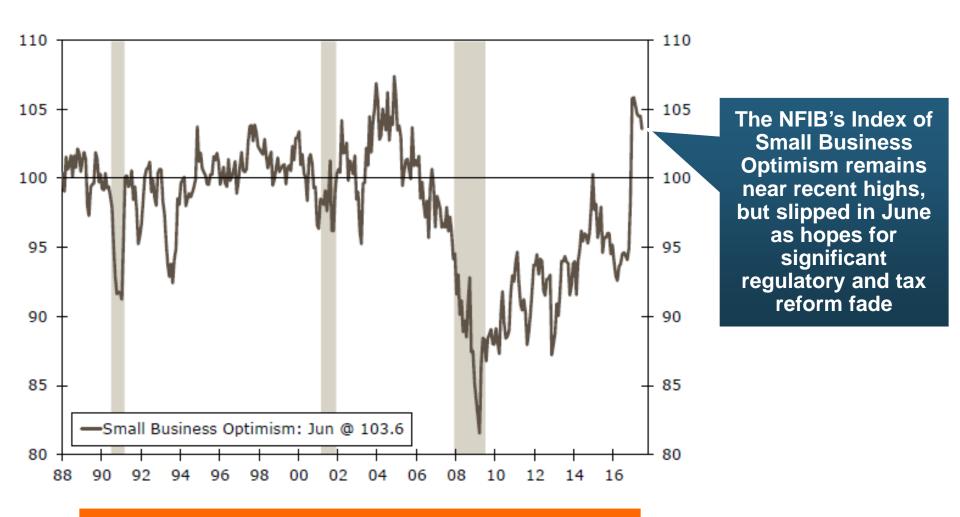
Source: The Conference Board; Wells Fargo Research.

Consumer Confidence by Household Income: Jan. 1985 – Oct. 2017



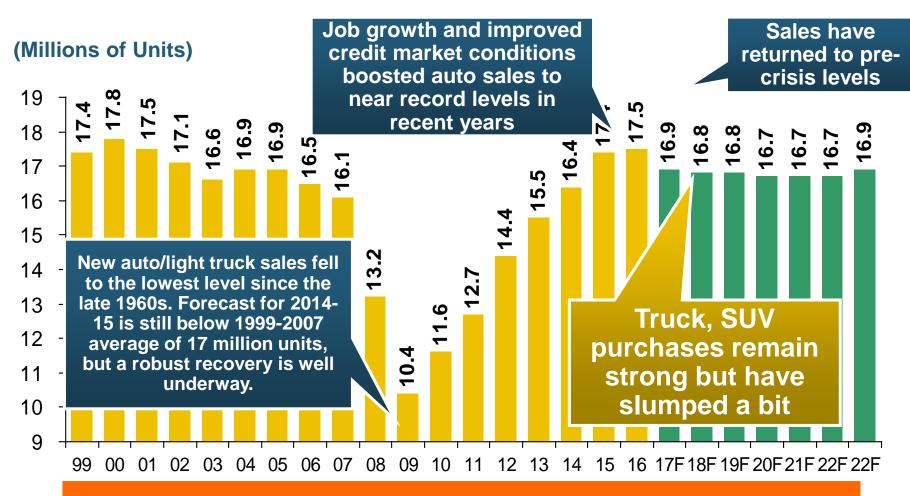
Outlook: Consumers are optimistic about the future, which is consistent with expectations for stronger economic growth (consumers account for nearly 70% of all spending in the economy). Should positively influence business investment.

NFIB Small Business Optimism Index: Jan. 1988 – June 2017



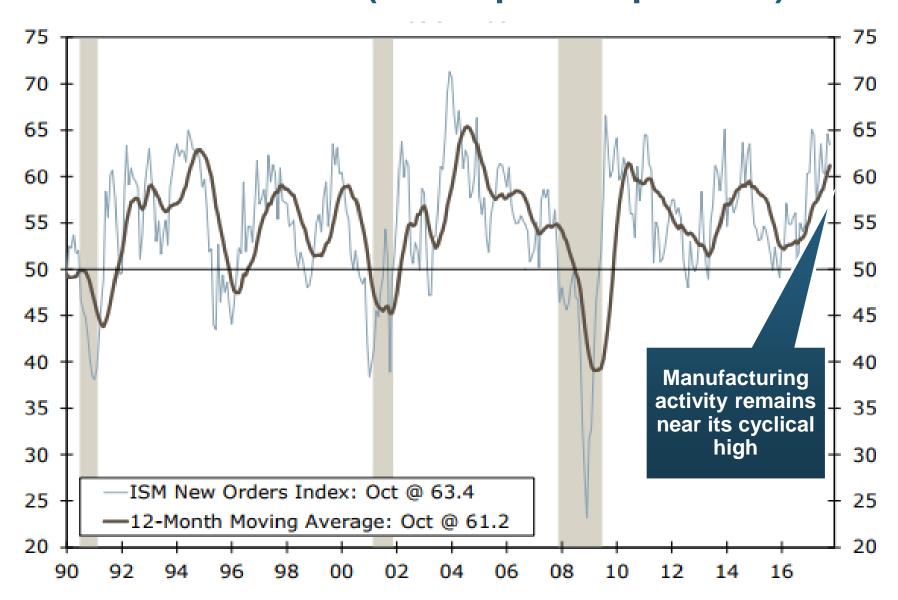
Outlook: Small businesses are much more optimistic about the future

Auto/Light Truck Sales, 1999-2023F

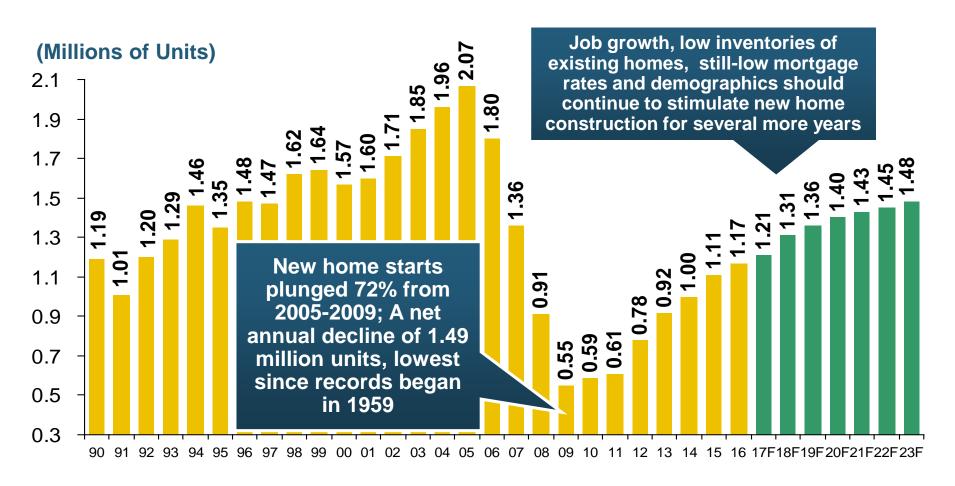


Yearly car/light truck sales are slowing slightly, as demand tapers following the recovery from the recession. PP Auto premium might grow by 3.5% - 5%.

Manufacturing: ISM New Orders Index Jan. 1990 – Oct. 2017 (>50 implies expansion)

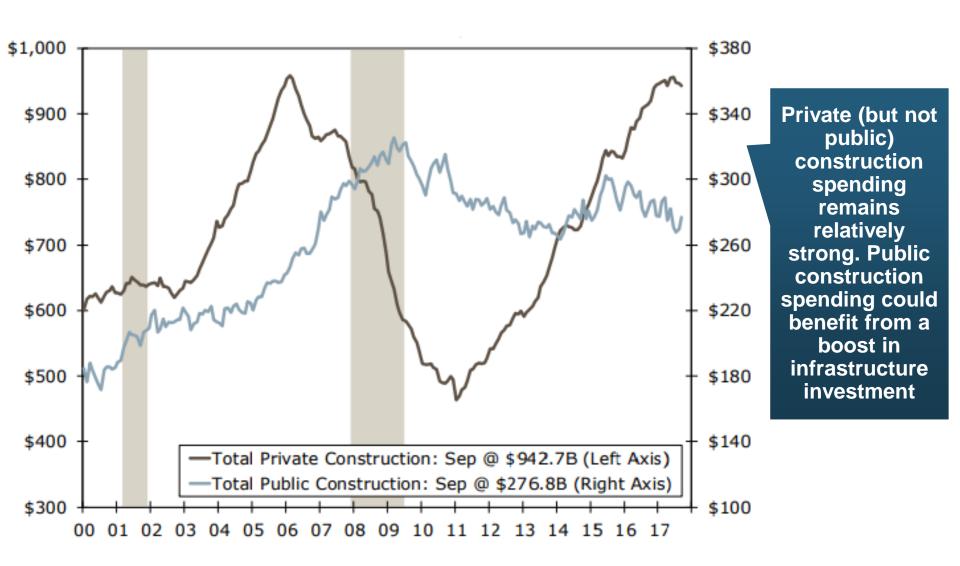


New Private Housing Starts, 1990-2023F

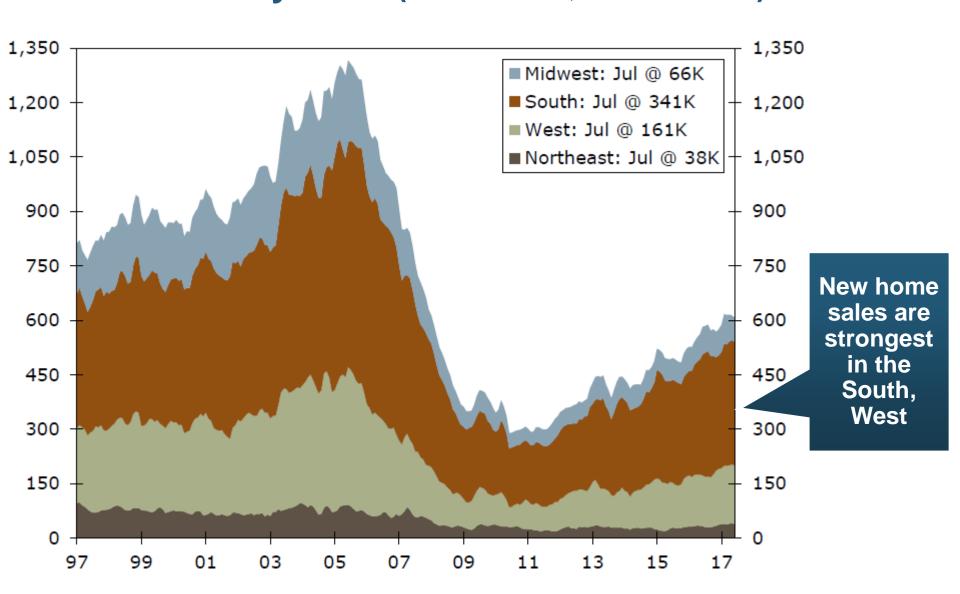


Insurers Are Continue to See Meaningful Exposure Growth in the Wake of the "Great Recession" Associated with Home Construction: Construction Risk Exposure, Surety, Commercial Auto; Potent Driver of Workers Comp Exposure

Construction Spending: Jan. 2000 – Oct. 2017 (\$ Bill)

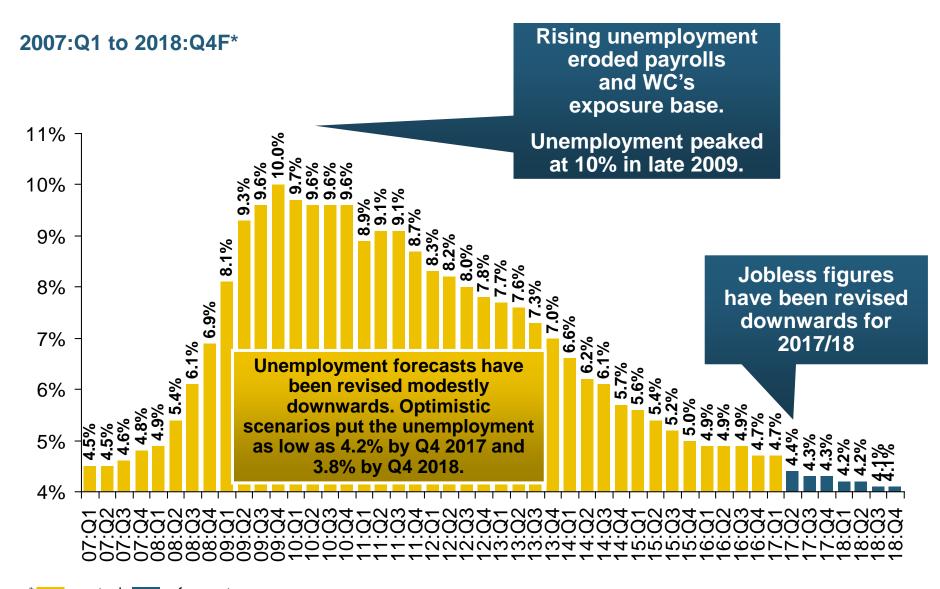


New Home Sales: By Region Jan. 1989 – July 2017 (thousands, annual rate)



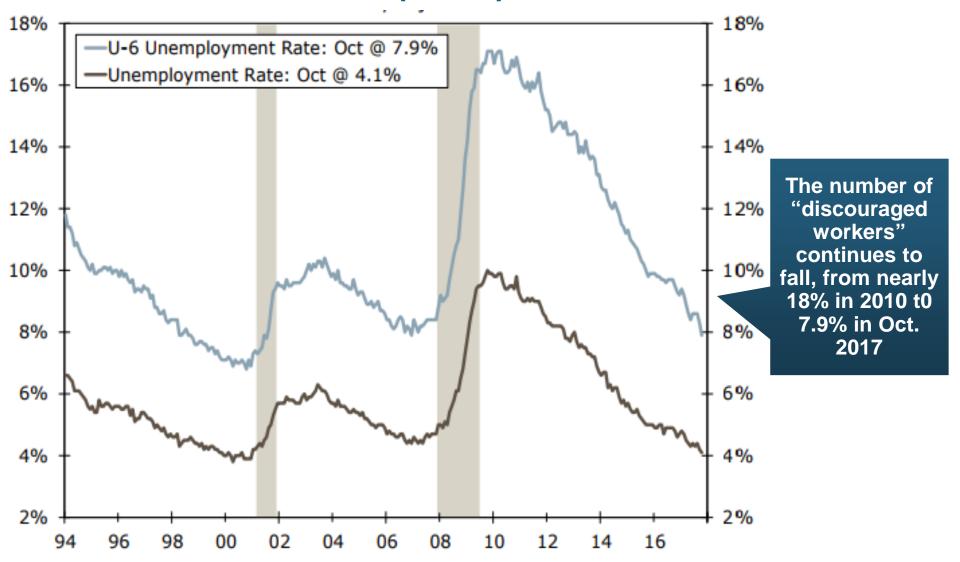
Source: US Dept. of Commerce; Wells Fargo Securities.

US Unemployment Rate Forecast

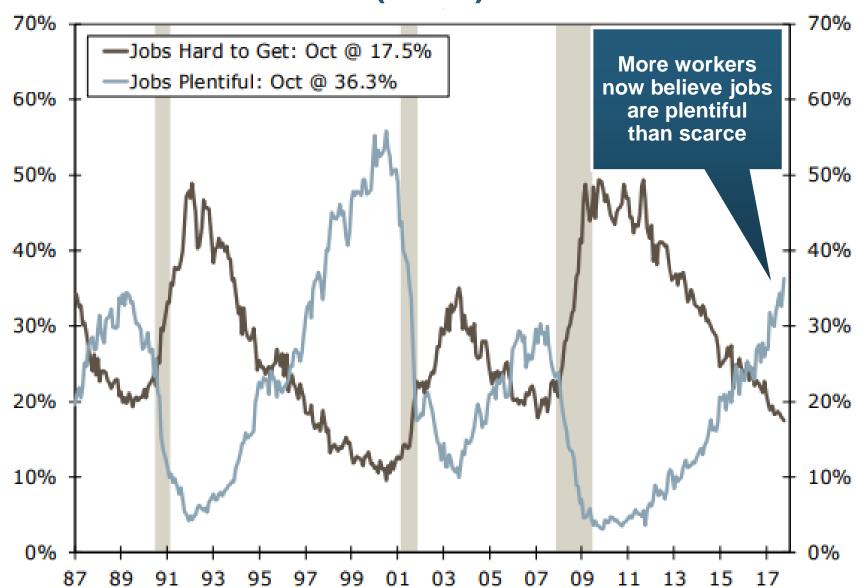


^{* =} actual; = forecasts

Unemployment vs. Underemployment: Jan. 1994 – Oct. 2017 (\$ Bill)



Jobs Plentiful vs. Hard to Get: Jan. 1987 – Oct. 2017 (\$ Bill)

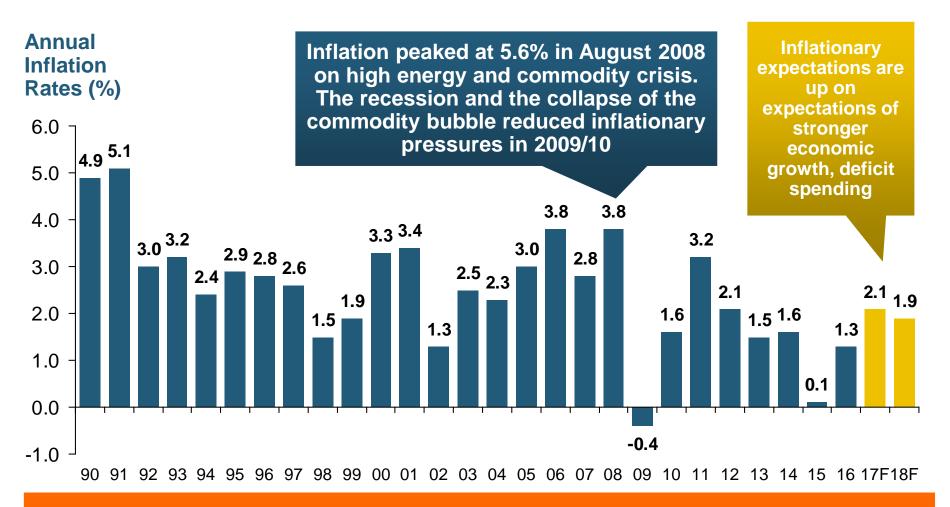


Source: The Conference Board; Wells Fargo Research.

Average Hourly Earnings: Jan. 2007 – Oct. 2017 (\$ Bill)



Annual Inflation Rates, (CPI-U, %), 1990–2018F



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

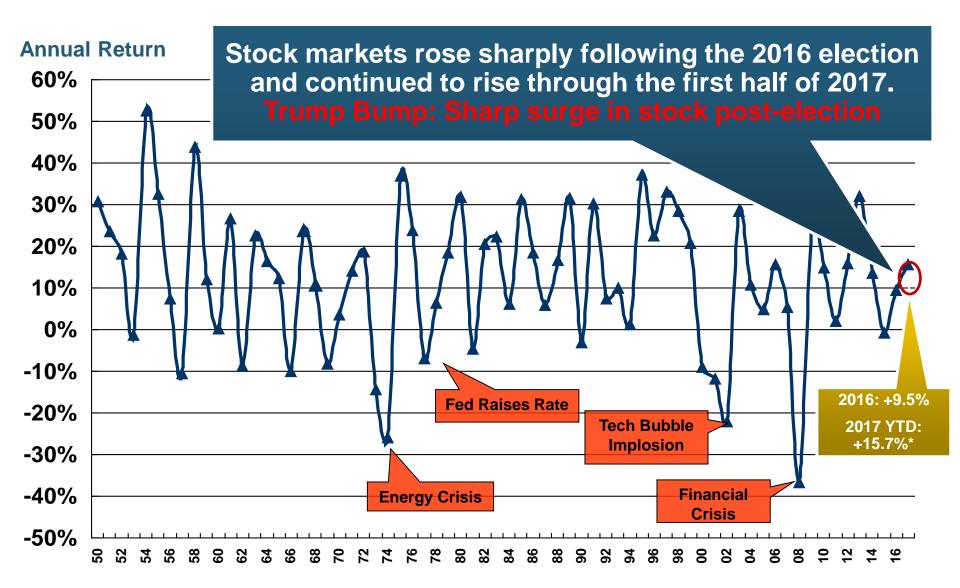
INVESTMENTS: THE NEW REALITY

Investment Performance is a Key Driver of Insurer Profitability

The "Trump Bump" Has Lifted Stock Markets and Interest Rates

Will the Gains Help Insurers?

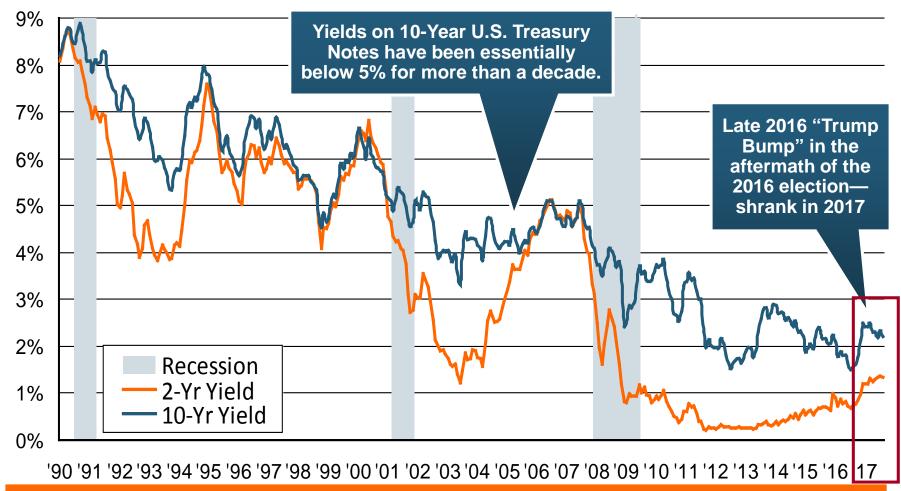
S&P 500 Index Returns, 1950 – 2017*



^{*}Through Nov. 7, 2017.

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

U.S. Treasury Security Yields: A Long Downward Trend, 1990–2017*

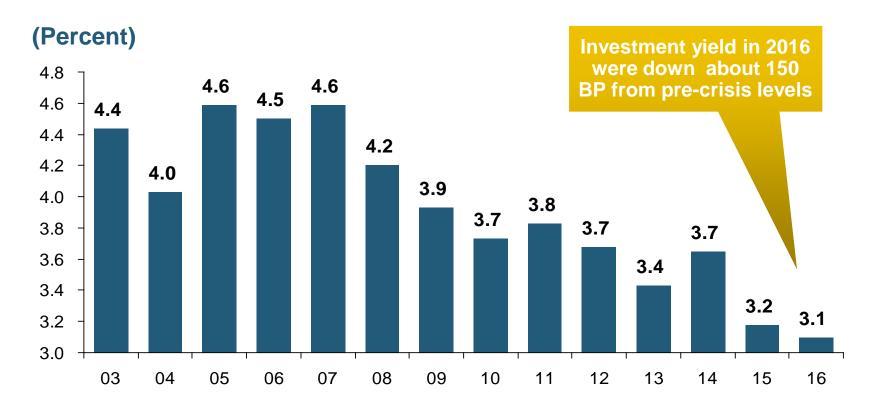


Since roughly 80% of P/C bond/cash investments are in 10-year or shorter durations, most P/C insurer portfolios will have low-yielding bonds for years to come.

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

^{*}Monthly, constant maturity, nominal rates, through August 2017.

Net Investment Yield on Property/ Casualty Insurance Invested Assets, 2007–2016*



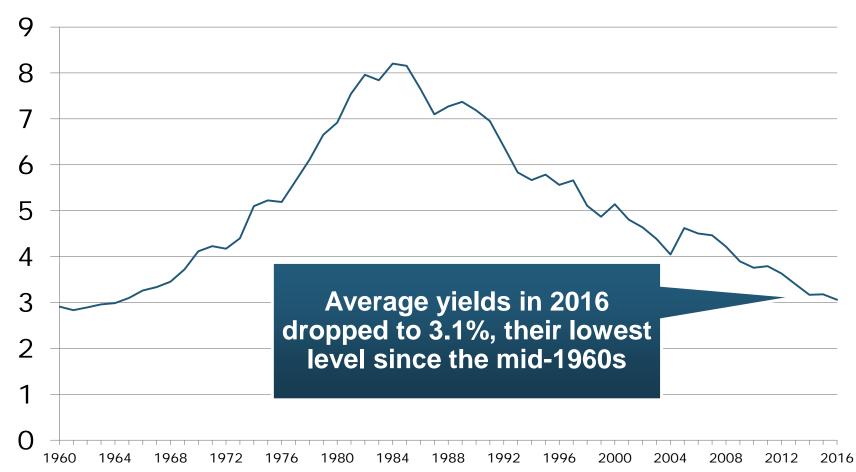
The yield on invested assets remains low relative to pre-crisis yields. Fed rate increases beginning in late 2015 have pushed up some yields, albeit quite modestly.



P/C Insurer Investment Yields: Lowest in Half a Century

Yield on average cash and investment assets,%

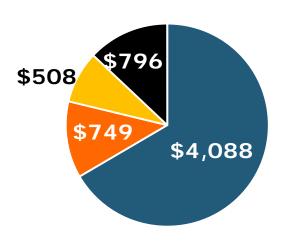




Insurers Are Major Investors, 2016*

Categories of Investments (\$billions)

Total invested assets: \$6.1 trillion*

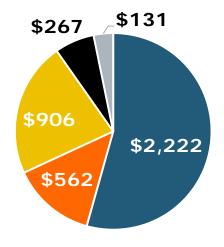


Bonds

- Stock
- Mortgages & Real Estate
- Other

Categories of Bonds (\$billions)

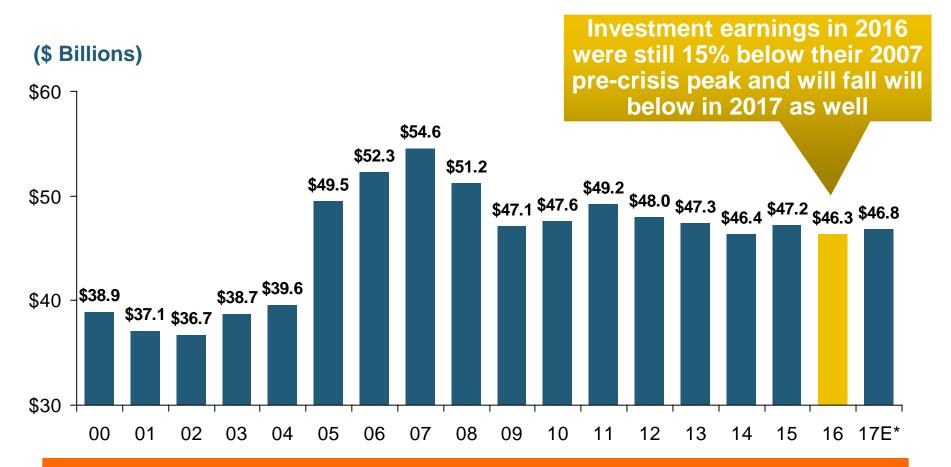
22% of corporate bonds outstanding 15% of municipal bonds outstanding



- Corporates
- Munis
- Mortgage & Asset-Backed
- US Gov't
- Other

^{*}Includes affiliated and unaffiliated investments. All segments of the insurance industry. Sources: NAIC (the Center for Insurance Policy and Research, August 24, 2017) via SNL Financial; I.I.I.

Property/Casualty Insurance Industry Investment Income: 2000–2017E*

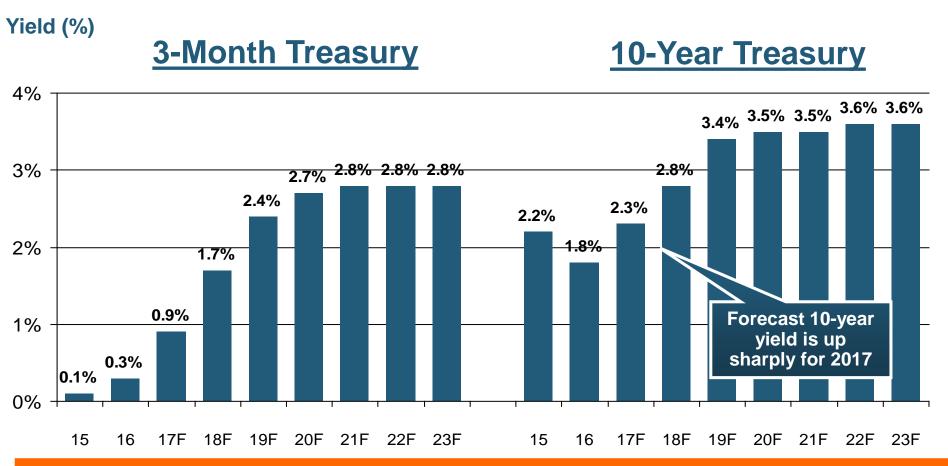


Due to persistently low interest rates, investment income fell in 2012, 2013 and 2014 but showed a small (1.7%) increase in 2015—though 2016 experienced another decline.

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

^{*2017} estimate based on annualized \$23.4B actual figure for 1st Half 2017.

Interest Rate Forecasts: 2017F - 2023F



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

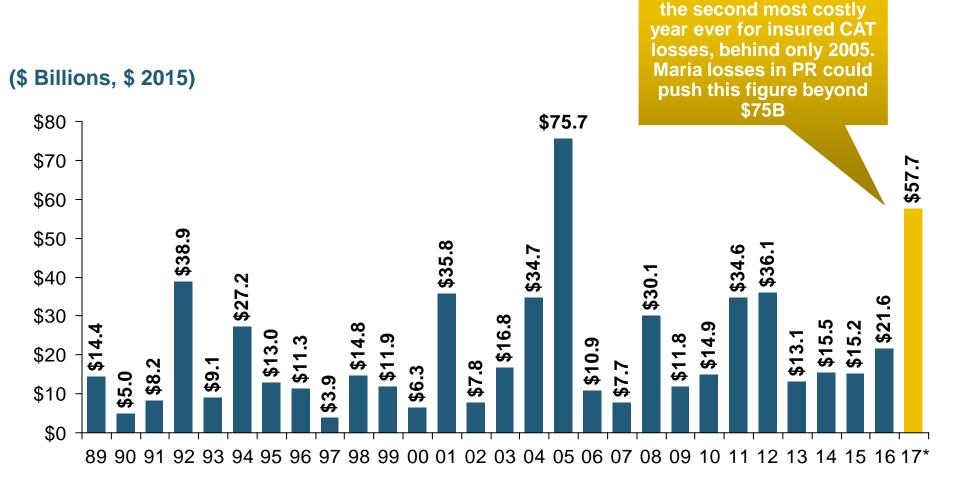
Sources: Blue Chip Economic Indicators (10/17 for 2017 and 2018; for 2019-2021 10/17 issue); Insurance Info. Institute.

Insured Catastrophe Losses

2017 Will Become One of the Costliest Years Ever for US Insurers

Hurricanes Harvey and Irma Exact a Big Toll

U.S. Insured Catastrophe Losses, 1989 – 2017E



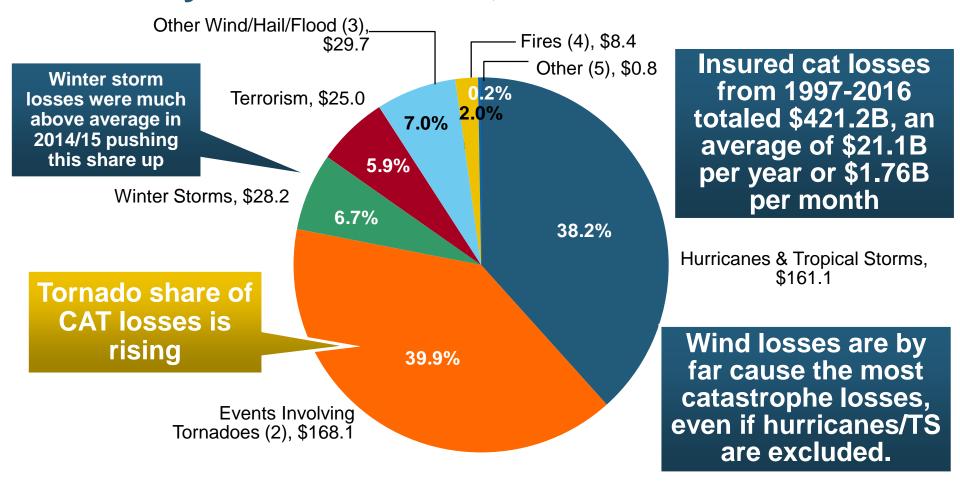
Note: 2001 figure includes \$20.3B for 9/11 losses reported through 12/31/01 (\$25.9B 2011 dollars). Includes only business and personal property claims, business interruption and auto claims. Non-prop/BI losses = \$12.2B (\$15.6B in 2011 dollars.)

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

2017 is likely to become

^{*}Includes PCS H1 insured losses of \$17.7B, estimated Hurricane Harvey and Irma insured losses of \$20B and \$18B, respectively. Stated in 2017 dollars. Excludes NFIP losses.

Inflation Adjusted U.S. Catastrophe Losses by Cause of Loss, 1997–2016¹

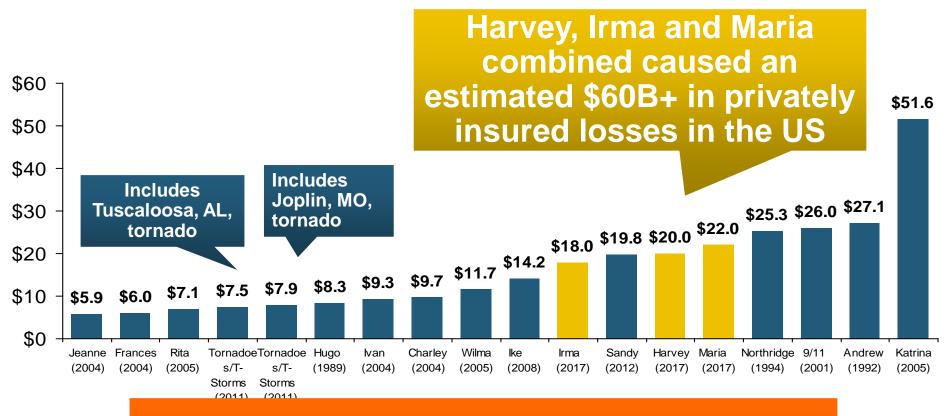


- 1. Catastrophes are defined as events causing direct insured losses to property of \$25 million or more in 2016 dollars.
- 2. Excludes snow.
- Does not include NFIP flood losses.
- Includes wildland fires
- 5. Includes civil disorders, water damage, utility disruptions and non-property losses such as those covered by workers compensation.

Source: ISO's Property Claim Services Unit.

Top 18 Most Costly Disasters in U.S. History—Katrina Still Ranks #1

(Insured Losses, 2017 Dollars, \$ Billions)*



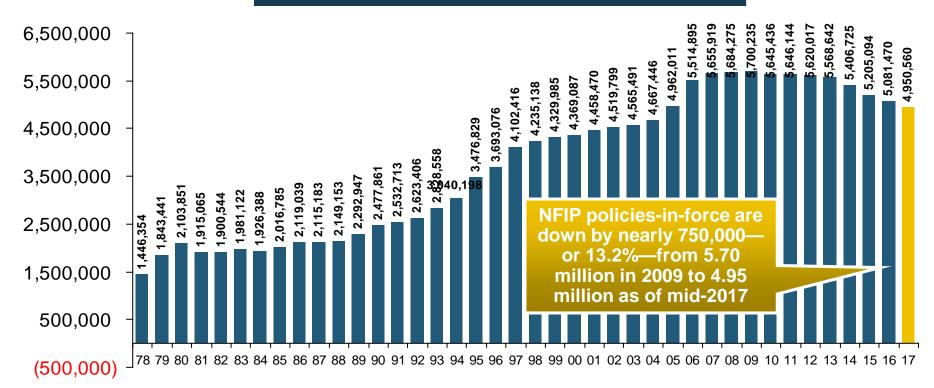
15 of the 18 Most Expensive Insurance Events in US History Have Occurred Since 2004—3 of those in 2017

^{*}Adjusted to June 2017 values.

NFIP Policies in Force, 1979 – 2017*

\$24.9B in debt. Harvey NFIP claims are expected total \$7-\$10B with Irma adding to this total. NFIP will need to borrow, likely pushing its debt load well above \$35B

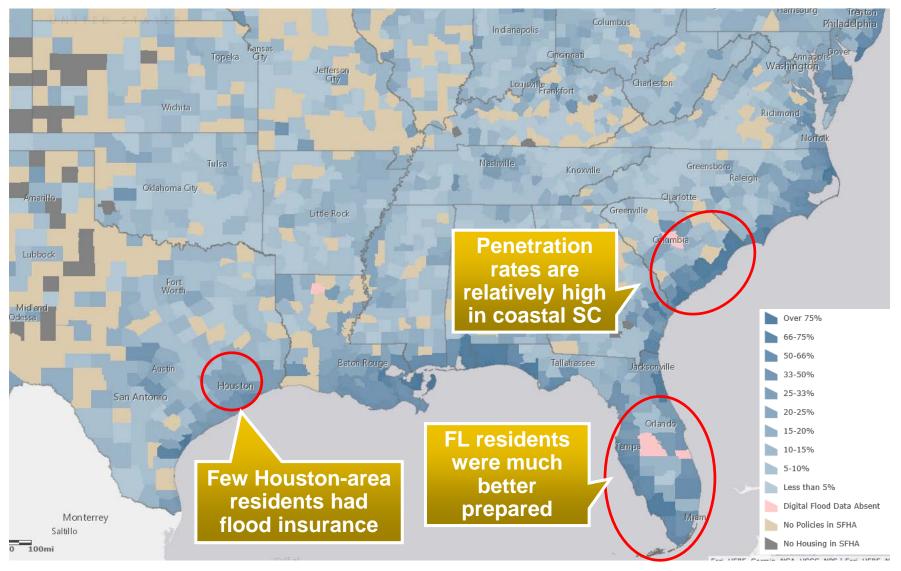
(Policies in Force)



^{*}As of June 30, 2017

Sources: NFIP/FEMA accessed 9/18/17 at: https://www.fema.gov/total-policies-force-calendar-year; USC Risk and Uncertainty Management Center.

Residential NFIP Penetration Rates, August 2016



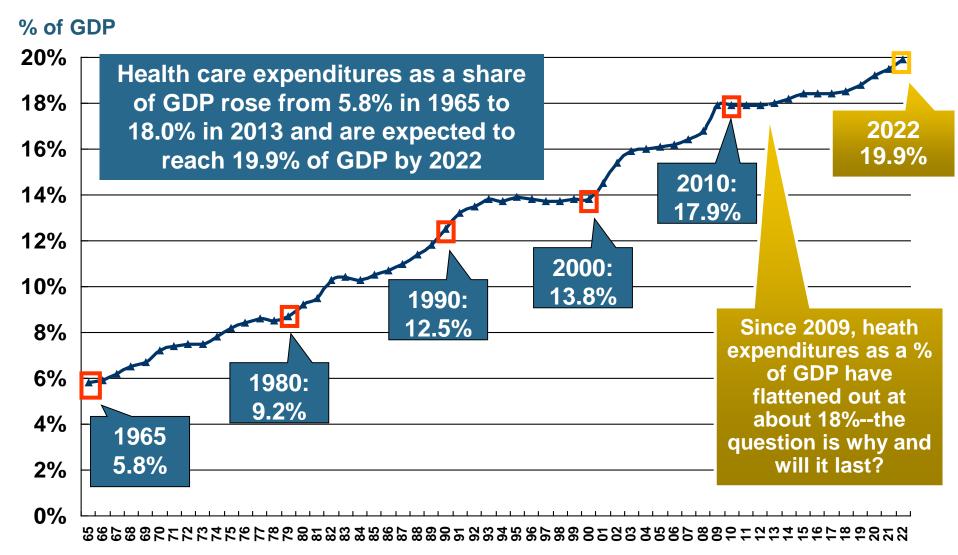
Source: NFIP accesses 9/18/17 at:

Health Insurance Markets

Decades-Old Problem in Search of an Economically and Politically Viable Solution

Adverse Selection Death Spiral?

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



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

Example of Health Insurance Exchange Monthly Premiums in SC from HealthCare.gov

25-Year Old Single Adult, No Tobacco Use

Richland County														
								2018						
Metal Levels	# Plans	Min.		Max.		Avg.		# Plans	Min.		Max.		Avg.	
		Pre	mium	Prei	mium	P	remium	// I Ittl	Pr	emium	Premium		Premium	
Platinum Plans	None Available						None Available							
Gold Plans	5	\$	400.85	\$	418.79	\$	412.12	4	\$	463.33	\$	486.88	\$	477 77
Silver Plans	15	\$	316.64	\$	352.39	\$	333.67	14	\$	441.17	\$	452.75	\$	446.15
Bronze Plans	5	\$	291.42	\$	295.59	\$	293.31	5	\$	309.07	\$	325.38	\$	316.77
Catastrophic Plans	1	\$	237.96	\$	237.96	\$	237.96	1	\$	223.62	\$	223.62	\$	223.62

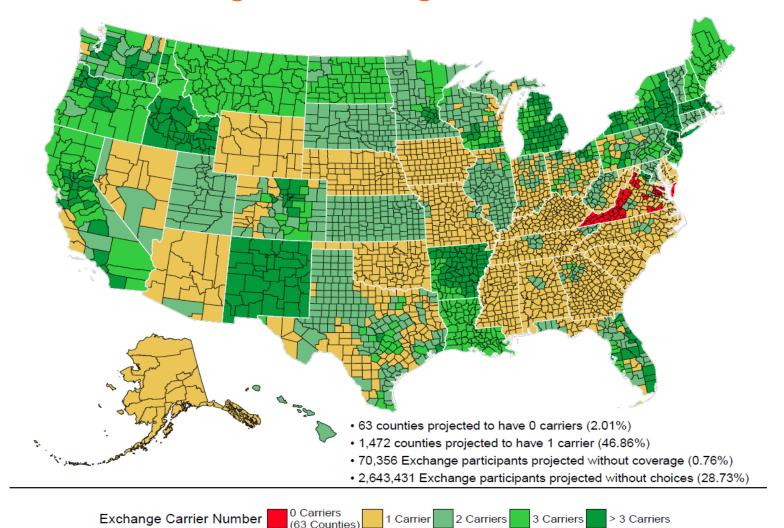
Average Silver Plan monthly premium in 2018 for 25-yr. old single adult will rise by 33.7%, to \$446.15 from \$333.67.

60-Year Old Single Adult, No Tobacco Use

Richland County													
	2017 2018												
Metal Levels	# Plans	Min.	Max.	Avg.	# Plans	Min.	Max.	Avg.					
		Premium	Premium	Premium	# Flans	Premium	Premium	Premium					
Platinum Plans		None	Available		None Available								
Gold Plans	5	\$ 1,083.56	\$ 1,132.07	\$ 1,114.03	4	\$ 1,252.47	\$ 1,316.13	\$ 1,291.51					
Silver Plans	15	\$ 855.93	\$ 952.57	\$ 901.97	14	\$ 1,192.56	\$ 1,223.86	\$ 1,206.03					
Bronze Plans	5	\$ 787.75	\$ 799.03	\$ 792.86	5	\$ 835.49	\$ 879.57	\$ 856.29					

Silver Plan for a 60-yr. old single adult will rise by 33.7%, to \$1,206.03 from \$901.97.

Number of ACA Exchange Insurers by County for 2018

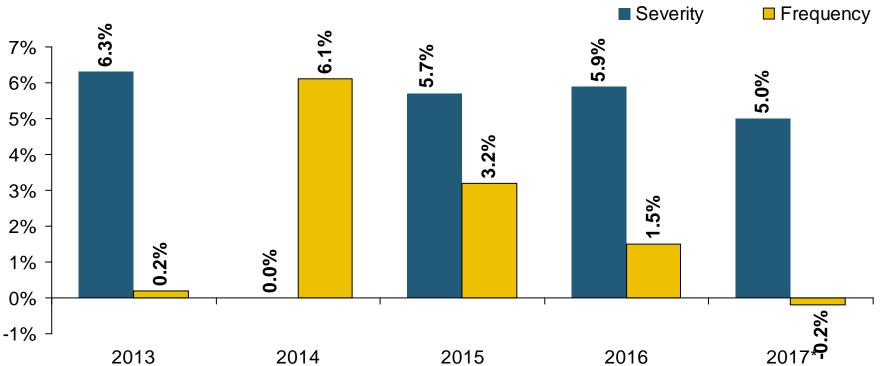


Claim Trends in SC Private Passenger Auto Insurance

Rising Frequencies and Severities in Many Coverages Will that Pattern Be Sustained?

SC Coverage: Collision Severity Is Sharply Higher in Recent Years*

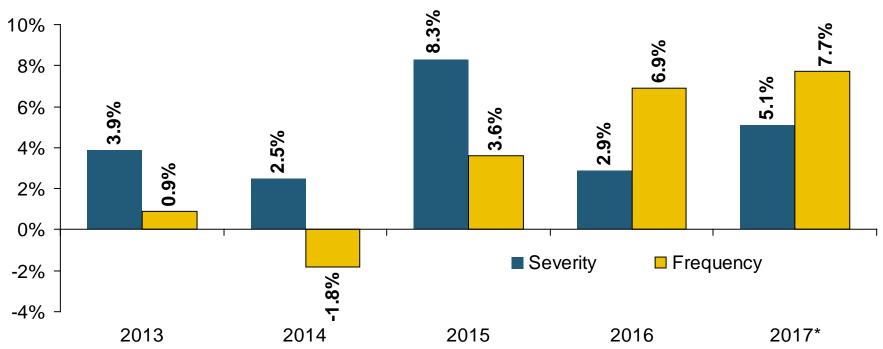




Improving Economy, Distracted Driving, DUI Are Just a Few of the Numerous Factors Pushing Collision Claim Severity Higher

SC Coverage: BI Severity & Frequency Trends Are Both Higher in Recent Years*





Improving Economy, Distracted Driving, DUI Are Just a Few of the Numerous Factors Pushing Bodily Injury Claim Frequency and Severity Higher

USC's Inaugural RMI Newsletter

http://us16.campaign-archive1.com/?u=de4d9fc579ae40ab21b8a5d36&id=28137b2148)



RISK and Uncertainty Management Center

Darla Moore School of Business | University of South Carolina

August 25, 2017

Introducing the RMI Newsletter

Darla Moore School of Business, University of South Carolina

A quarterly glimpse of recent happenings for the Risk and Uncertainty Management Center, Gamma Iota Sigma members, Risk Management and Insurance (RMI) Majors, Minors, and Alumni.



We are pleased to announce that the Darla Moore School of Business has been awarded the prestigious Global Centers of Insurance Excellence (GCIE) designation by the International Insurance Society





A big THANKS goes out to Auto-Owners Insurance and Regional Vice President, Jay Lannin for their generous donation to USC's Risk and Uncertainty Management Center!



The Risk Management and Insurance program at the University of South Carolina wants to thank the Council of Insurance Agents and Brokers for their outstanding support.

RISK and Uncertainty Management Center

Contact us to learn more about the Risk and Uncertainty Management Center and get your business involved!

Benefits include access to the latest research in risk management and opportunities to engage with and hire top talent in risk management and insurance.

THE WALL STREET JOURNAL.

Check out the June 24th article from the front page of the Wall Street Journal featuring RMI professor, Robert Hartwig.

Insurance Is a Fun Career! Just Consider the Zombies and Bacon

Insurers use extreme measures to lure new hires, from ghoulish videos to free beer; Allstate's 'happiness guru'



Since joining the USC faculty last year, RMI Professor Robert

Hartwig has been interviewed by local, state and national media more than 100 times on a wide variety of issues, earning the Moore School and USC mentions in publications, on television and radio across the country. Recent

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