

Turning (Non-Life) Markets: History, Triggers, Catalysts and Impediments

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Presentation Outline



Historical Criteria, Triggers and Catalysts Associated With "Market Turns" in Non-Life Insurance Markets

- Underwriting Loss Trends
- Capital/Capacity
- Reinsurance Markets
- Pricing Discipline

Other Contributing Factors to the Underwriting Cycle

- Investment Environment
- Tort/Casualty Environment
- Inflation
- Economy (Supply/Demand)





Historically Four Criteria Must Be Met for a "Hard Market"

Factors Contributing to Markets Turns Are Consistent Over Time, Though the "Great Recession" Has Altered the Cyclical Dynamics

Traditional Criteria Necessary for a "Market Turn": All Four Criteria Must Be Met

Criteria	Status	Comments on Current Situation
Sustained Period of Large Underwriting Losses	Early Stage	 Apart from 2011 CAT losses, overall p/c underwriting losses remain modest Combined ratios (ex-CATs) still in low 100s (vs. 110+ at onset of last hard market) Prior-year reserve releases continue to reduce u/w losses, boost ROEs, though more modestly
Material Decline in Surplus/ Capacity	Entered 2011 At Record High; Since Fallen	 Surplus hit a record \$565B as of 3/31/11 Fell by 4.6% through 9/30/11 (latest available) Little excess capacity remains in reinsurance markets Weak growth in demand for insurance is insufficient to absorb much excess capacity
Tight Reinsurance Market	Somewhat in Place	 Much of the global "excess capacity" was eroded by cats Higher prices in Asia/Pacific Modestly higher pricing for US risks
Renewed Underwriting & Pricing Discipline	Spotty; Some	 Commercial lines pricing trends have turned from negative to flat or up in some lines (property, WC); Casualty is flat. Competition remains intense as many seek to maintain market share

Sources: Barclays Capital; Insurance Information Institute.



Historical Premium Growth Trends Clearly Show Cyclicality Primarily Driven by Large, Sustained Underwriting Losses

Is There Evidence of a Broad and Sustained Shift in Pricing Today?

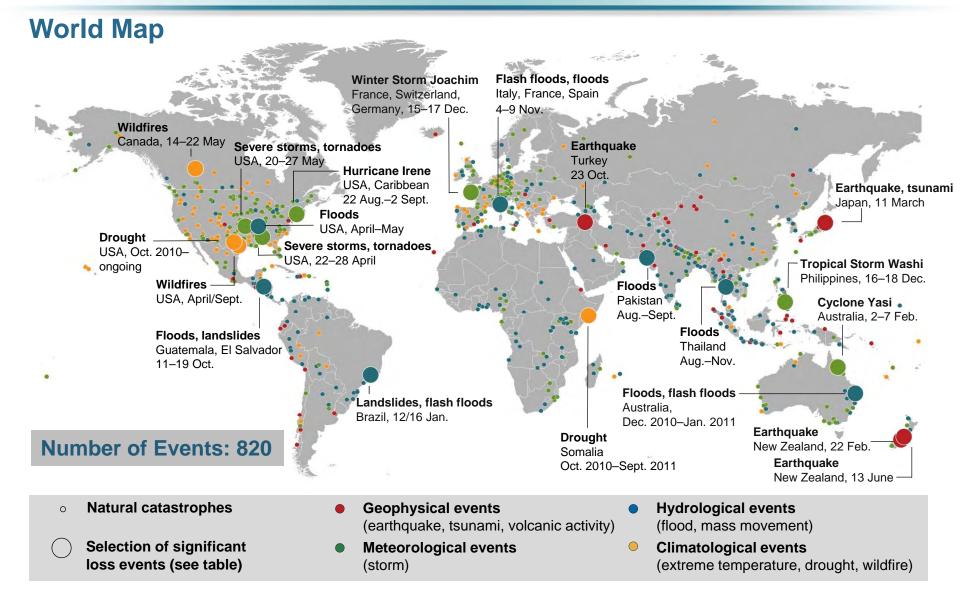


1. UNDERWRITING

Have Underwriting Losses Been Large Enough for Long Enough to Turn the Market? Effect of Reserve Releases?

Natural Loss Events, 2011

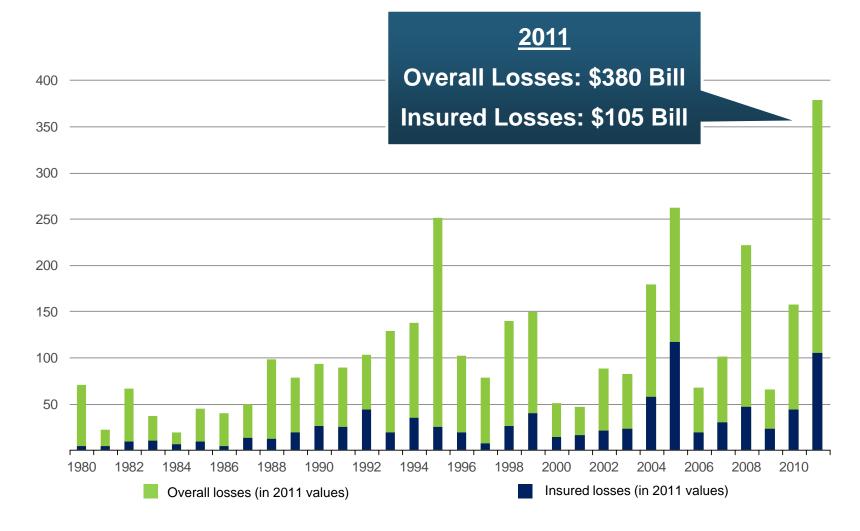




Worldwide Natural Disasters 1980–2011, Overall and Insured Losses



(Insured Losses, 2011 Dollars, \$ Billions)



Global Catastrophe Loss Summary: 2011

2011 Was the *Highest* Loss Year on Record for Economic Losses Globally

 Extraordinary accumulation of severe natural catastrophe: Earthquakes, tsunami, floods and tornadoes are the primary causes of loss

\$380 Billion in *Economic* Losses Globally (New Record)

New record, exceeding the previous record of \$270B in 2005

\$105 Billion in *Insured* Losses Globally

- 2011 losses were 2.5 times 2010 insured losses of \$42B
- Second only to 2005 on an inflation adjusted basis (new record on a unadjusted basis)
- Over 5 times the 30-year average of \$19B

\$72.8 Billion in *Economic* **Losses in the US**

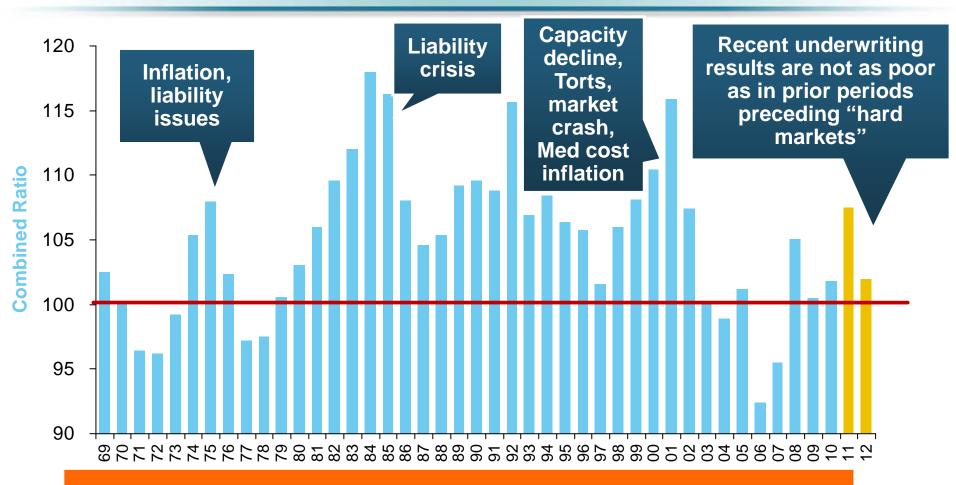
• Represents a 129% increase over the \$11.8 billion amount through the first half of 2010

\$35.9 Billion in *Insured* **Losses in the US Arising from 171 CAT Events**

- Fifth highest year on record
- Represents 51% increase over the \$23.8 billion total in 2010

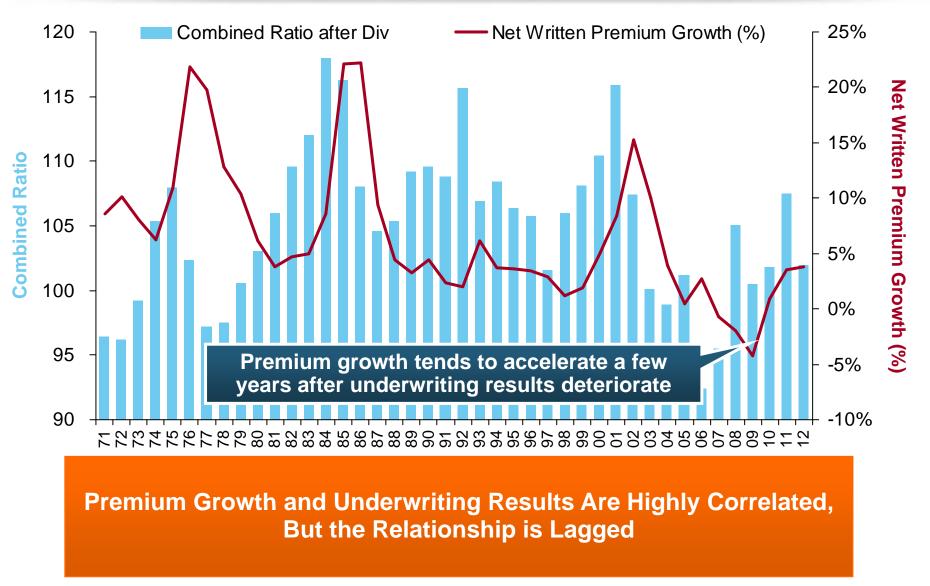
US Non-Life Combined Ratio, 1969-2012F

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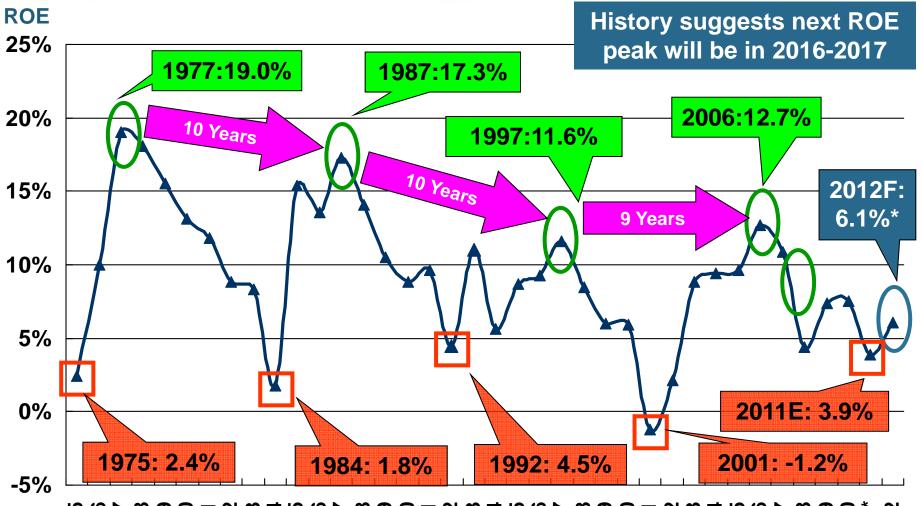


Current Period Underwriting Results Have Deterorated But Not to the Extend Experienced Prior to the Hard Markets of a Decade Ago or in the 1980s; Similarities to the Mid-1970s?

US Non-Life Net Written Premium Growth vs. Combined Ratio, 1971-2012F



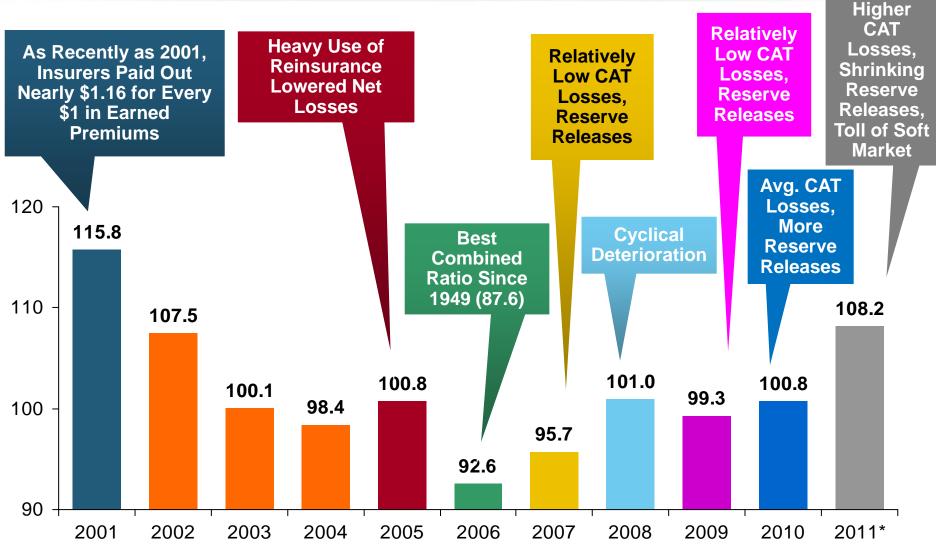
Profitability Peaks & Troughs in the P/C Insurance Industry, 1975 – 2012F*



*Profitability = P/C insurer ROEs. 2011-12 figures are A.M. Best estimates. Note: Data for 2008-2012 exclude mortgage and financial guaranty insurers. For 2011:Q3 ROAS = 1.9% including M&FG. Source: Insurance Information Institute; NAIC, ISO, A.M. Best.

P/C Insurance Industry Combined Ratio, 2001–2011:Q3*

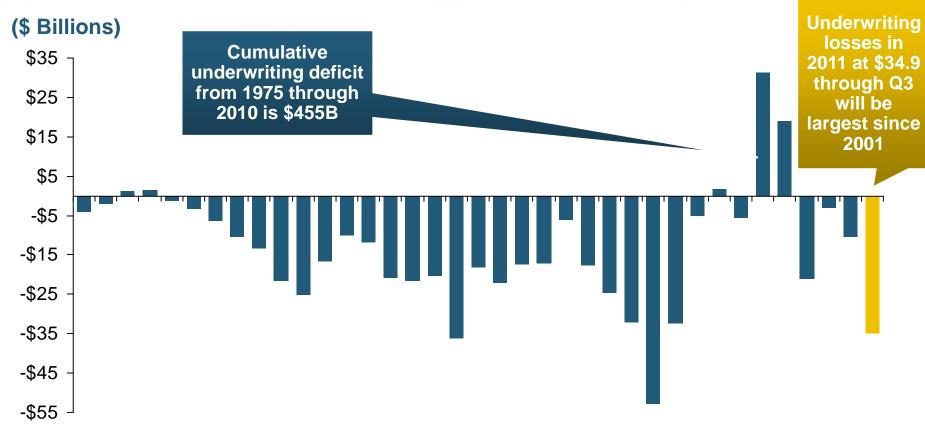




* Excludes Mortgage & Financial Guaranty insurers 2008--2011. Including M&FG, 2008=105.1, 2009=100.7, 2010=102.4, 2011=109.9 Sources: A.M. Best, ISO.

Underwriting Gain (Loss) 1975–2011*

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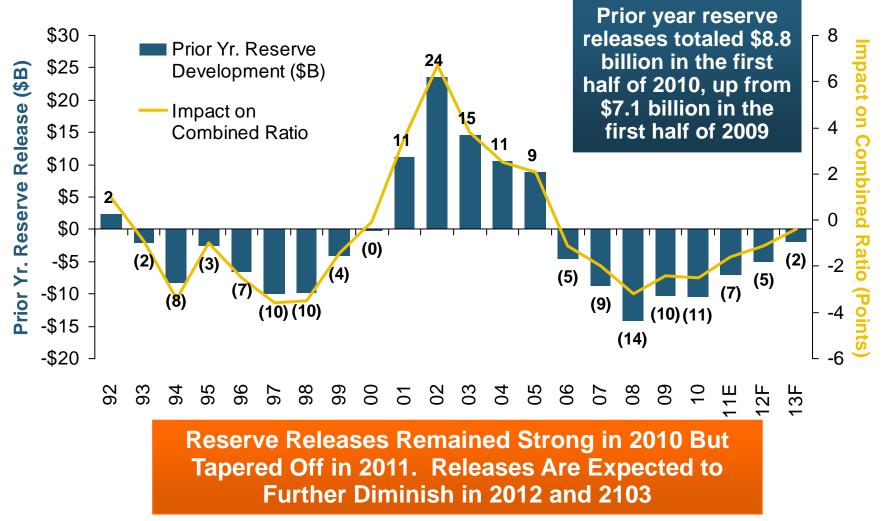


75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 1011*

Large Underwriting Losses Are *NOT* Sustainable in Current Investment Environment

* Includes mortgage and financial guaranty insurers in all years Sources: A.M. Best, ISO; Insurance Information Institute.

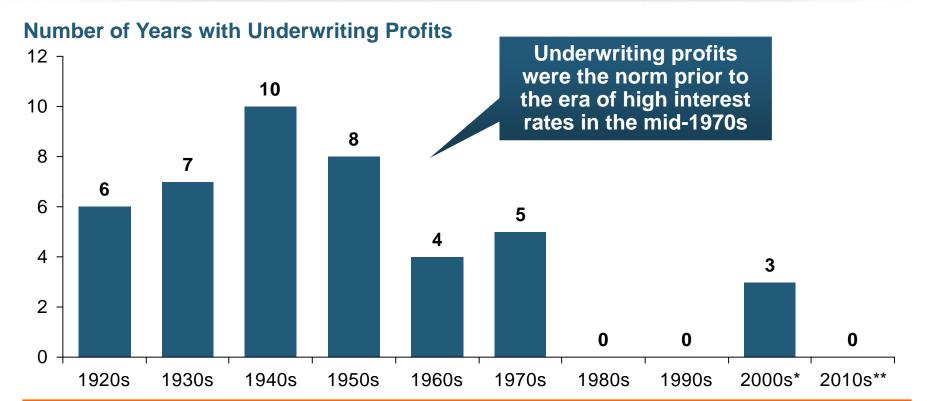
P/C Reserve Development, 1992–2013F



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: Barclays Capital; A.M. Best.

Number of Years with Underwriting Profits by Decade, 1920s–2010s



Underwriting Profits Were Common Before the 1980s (40 of the 60 Years Before 1980 Had Combined Ratios Below 100) – But Then They Vanished. Not a Single Underwriting Profit Was Recorded in the 25 Years from 1979 Through 2003

* 2009 combined ratio excl. mort. and finl. guar.anty insurers was 99.3, which would bring the 2000s total to 4 years with an u/w profit. **Data for the 2010s includes 2010, 2011 and estimate for 2012.

Note: Data for 1920–1934 based on stock companies only.

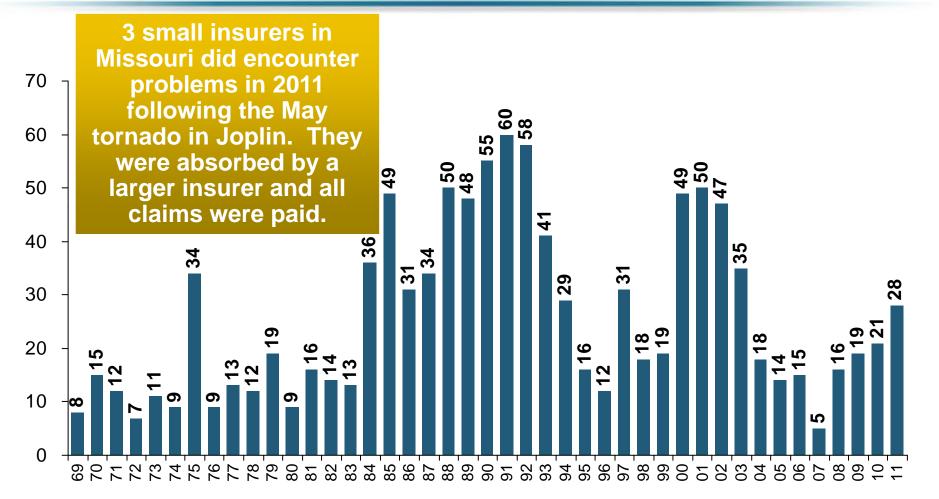
Sources: Insurance Information Institute research from A.M. Best Data.



Financial Strength & Underwriting

Cyclical Pattern is P-C Impairment History is Directly Tied to Underwriting, Reserving & Pricing

US Non-Life Insurer Impairments, 1969–2011

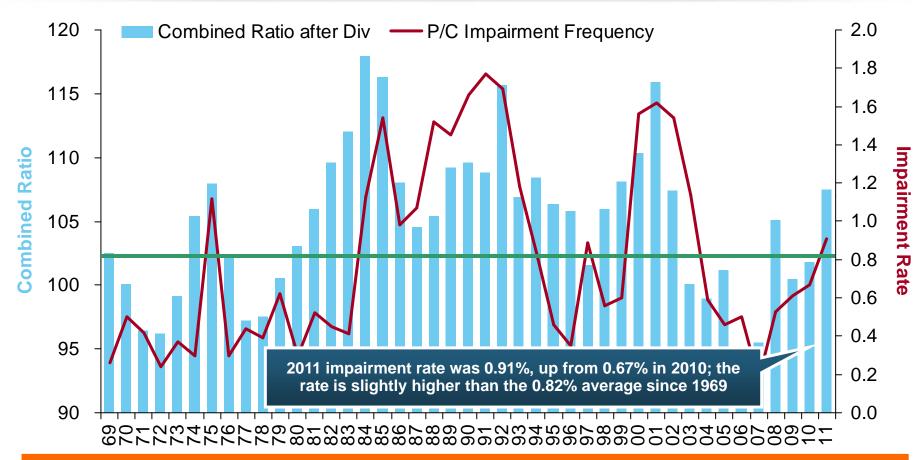


The Number of Impairments Varies Significantly Over the P/C Insurance Cycle, With Peaks Occurring Well into Hard Markets

Source: A.M. Best Special Report "1969-2011 Impairment Review," January 23, 2012; Insurance Information Institute.

P/C Insurer Impairment Frequency vs. Combined Ratio, 1969-2011

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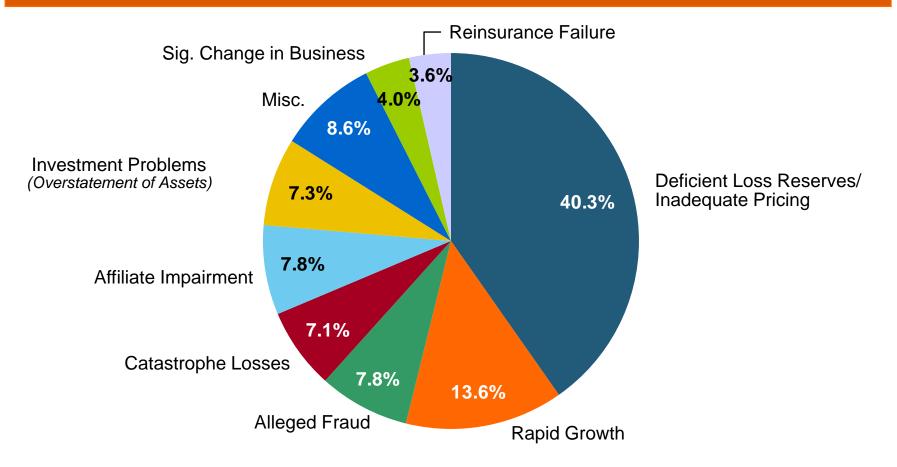


Impairment Rates Are Highly Correlated With Underwriting Performance and Reached Record Lows in 2007; Recent Increase Was Associated Primarily With Mortgage and Financial Guaranty Insurers and Not Representative of the Industry Overall

Reasons for US P/C Insurer Impairments, 1969–2010



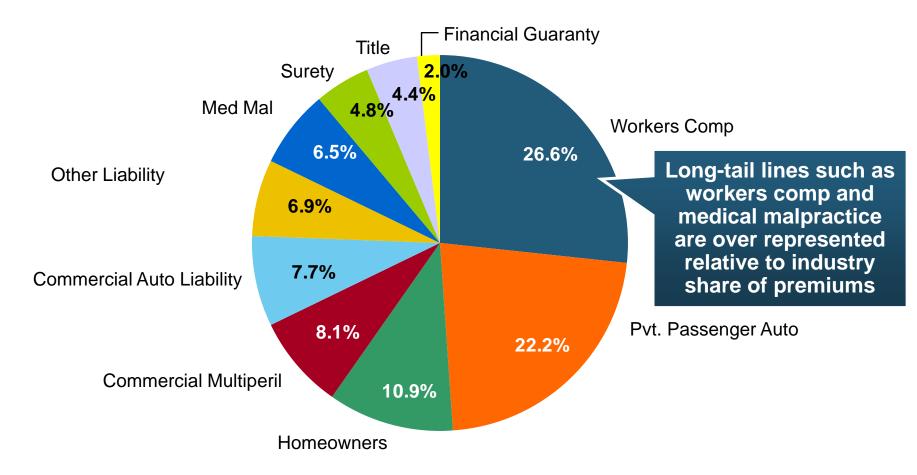
Historically, Deficient Loss Reserves and Inadequate Pricing Are By Far the Leading Cause of P-C Insurer Impairments. Investment and Catastrophe Losses Play a Much Smaller Role



Source: A.M. Best: 1969-2010 Impairment Review, Special Report, April 2011.

Top 10 Lines of Business for US P/C Impaired Insurers, 2000–2010

Workers Comp and Pvt. Passenger Auto Account for Nearly Half of the Premium Volume of Impaired Insurers Over the Past Decade



Source: A.M. Best: 1969-2010 Impairment Review, Special Report, April 2011.

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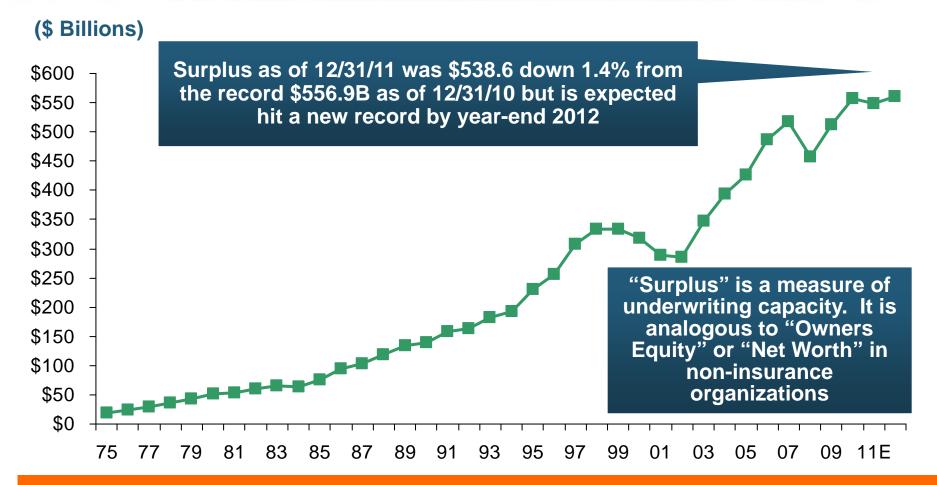


2. SURPLUS/CAPITAL/CAPACITY

Have Large Global Losses Reduced Capacity in the Industry, Setting the Stage for a Market Turn?

US Policyholder Surplus: 1975–2012E



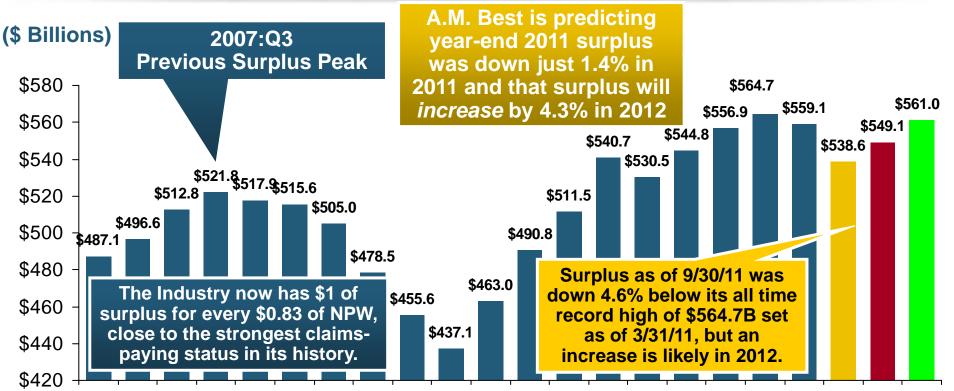


The Premium-to-Surplus Ratio Stood at \$0.83:\$1 as of 9/30/11, A Near Record Low (at Least in Recent History)*

Source: A.M. Best (2011/12 forecast from A.M. Best percentage growth est./forecast), ISO, Insurance Information Institute.

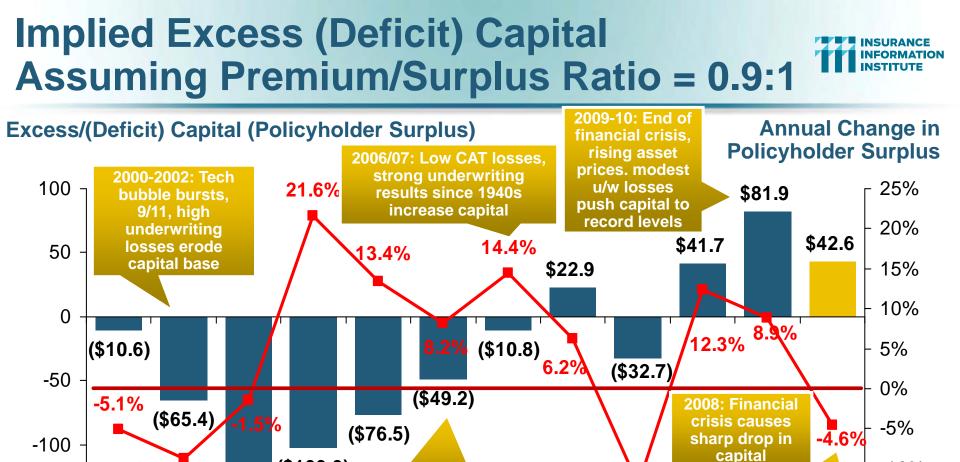
Policyholder Surplus, 2006:Q4–2012E

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06:Q4 07:Q1 07:Q2 07:Q3 07:Q4 08:Q1 08:Q2 08:Q3 08:Q4 09:Q1 09:Q2 09:Q3 09:Q4 10:Q1 10:Q2 10:Q3 10:Q4 11:Q1 11:Q2 11:Q3 11:Q4 12:Q4

*Includes \$22.5B of paid-in capital from a holding company parent for one insurer's investment in a non-insurance business in early 2010. Sources: ISO, A.M .Best (2011:Q4 and 2012:Q4 estimates).



Capital Excess (Deficit) Record Policyholder Surplus (Capital) Resulted in Significant Excess Capital in the P/C Insurance Sector in 2010. Deteriorating Underwriting Losses, Higher CAT Activity, More Modest Market Returns Shrank Excess Capital in 2011 by Nearly Half.

2005

2005: Katrina, Rita, Wilma

produce record CAT losses

2006

2007

-10%

-15%

High cats, u/w

losses push

capital down

2011*

2010

-12.0%

Annual Change in Capital

2009

2008

(\$103.0)

2003

2004

(\$124.6)

2002

-8.8%

2000

2001

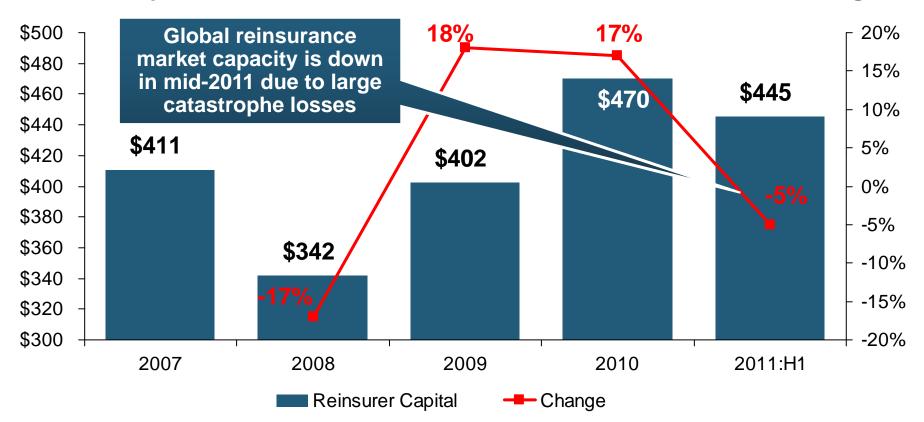
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Note: The assumption of a 0.9:1 P/S ratio is derived from a Feb. 2011 announcement by Advisen, Ltd., that the US P/C insurance industry has \$74 billion in excess capital. The implied P/S ratio (calculated by III) is 0.88:1, which was rounded to 0.9:1. Source: Insurance Information Institute calculations from A.M. Best and ISO data. * Net Premiums Written

Global Reinsurance Capital, 2007-2011:H1

Reinsurer Capital

% Change

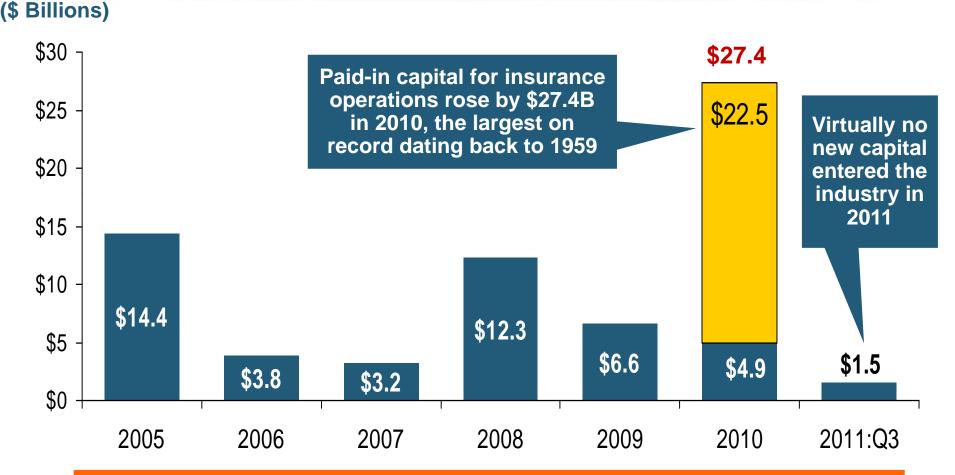


High Global Catastrophe Losses Have Had a Modest Adverse Impact on Global Reinsurance Market Capacity

Source: Aon Reinsurance Market Outlook, September 2011 from Individual Company and AonBenfield Analytics; Insurance Information Institute.

Paid-in Capital, 2005–2011:Q3

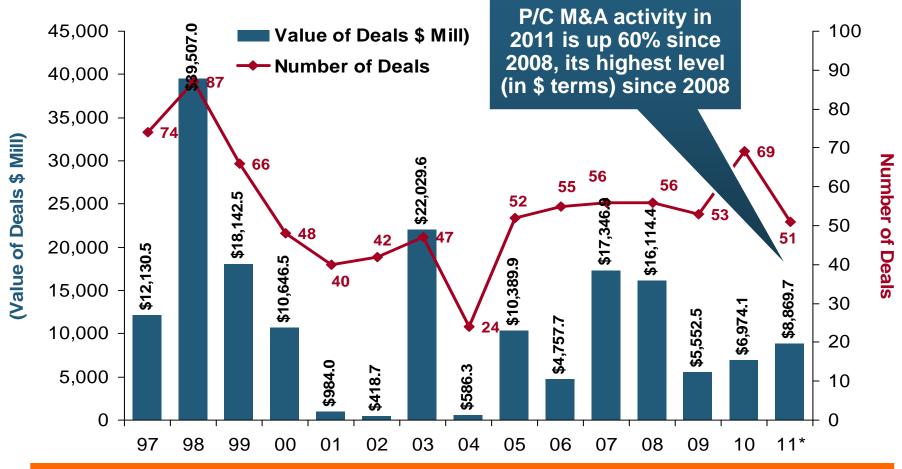




In 2010 One Insurer's Paid-in Capital Rose by \$22.5B as Part of an Investment in a Non-insurance Business

M&A Activity in the US P/C Insurance Industry, 1997-2011*



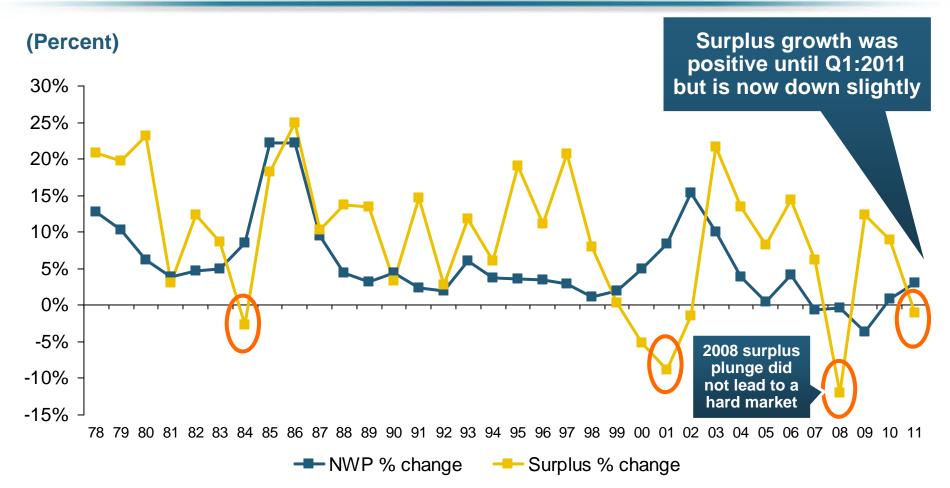


M&A Activity in the P/C Insurance Industry Remains Well Below its 1990s Peak

*2011 data are through December 1.

Source: SNL Securities; Insurance Information Institute.

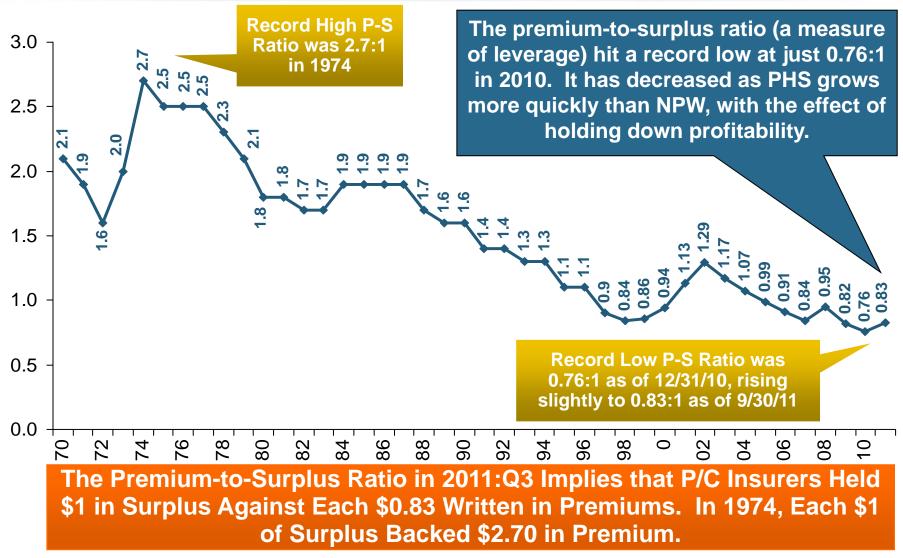
Historically, Hard Markets Follow When Surplus "Growth" is Negative*



Sharp Decline in Capacity is a Necessary but Not Sufficient Condition for a True Hard Market

* 2011 NWP and Surplus figures are % changes as of Q3:11 vs. Q3:10. Sources: A.M. Best, ISO, Insurance Information Institute NSURANC

Ratio of Net Premiums Written to Policyholder Surplus, 1970-2011*



*2011 data are as of 9/30/11.

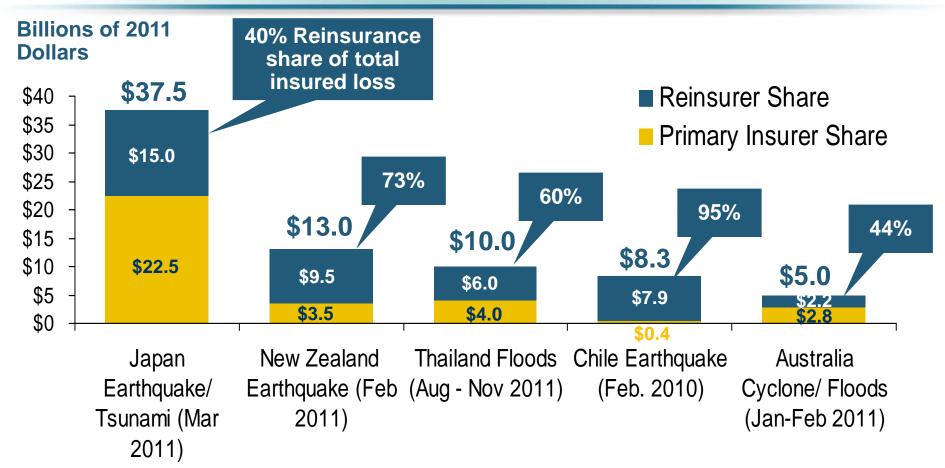
Sources: Insurance Information Institute calculations from A.M. Best data.



3. REINSURANCE MARKET CONDITIONS

Record Global Catastrophes Activity is Pressuring Pricing

Reinsurer Share of Recent Significant Market Losses

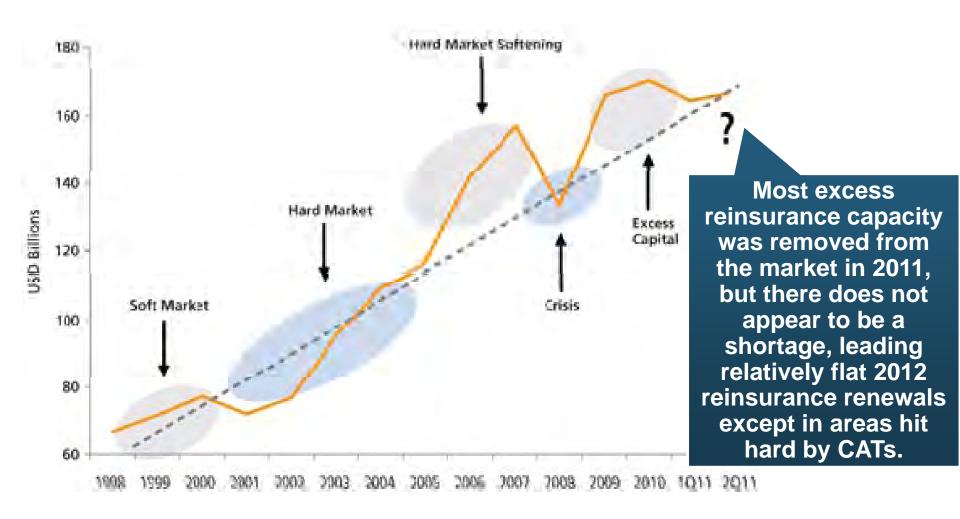


Reinsurers Paid a High Proportion of Insured Losses Arising from Major Catastrophic Events Around the World in Recent Years

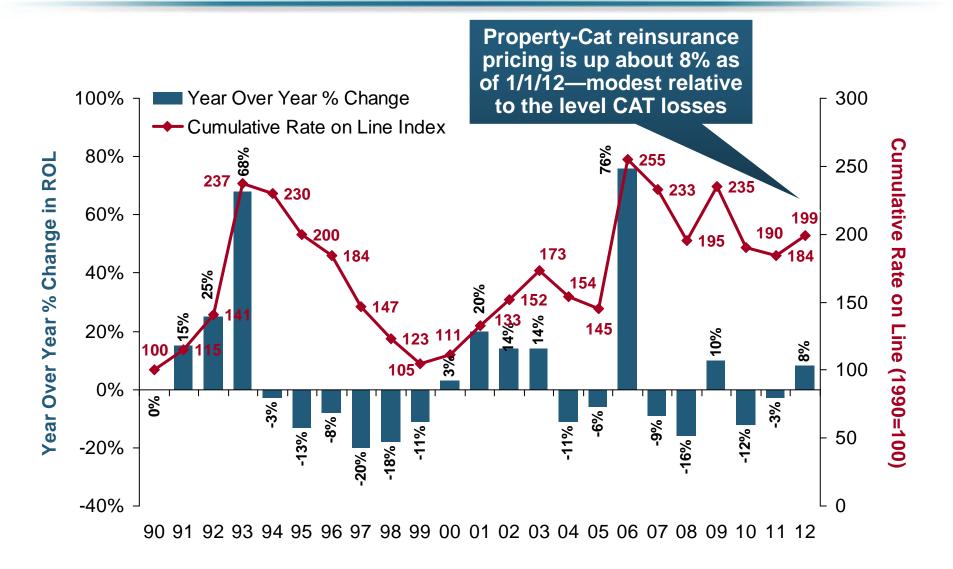
Source: Insurance Information Institute from reinsurance share percentages provided in RAA, ABIR and CEA press release, Jan. 13, 2011.

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Historical Capital Levels of Guy Carpenter Reinsurance Composite, 1998—2Q11



Global Property Catastrophe Rate on Line Index, 1990—2012 (as of Jan. 1)

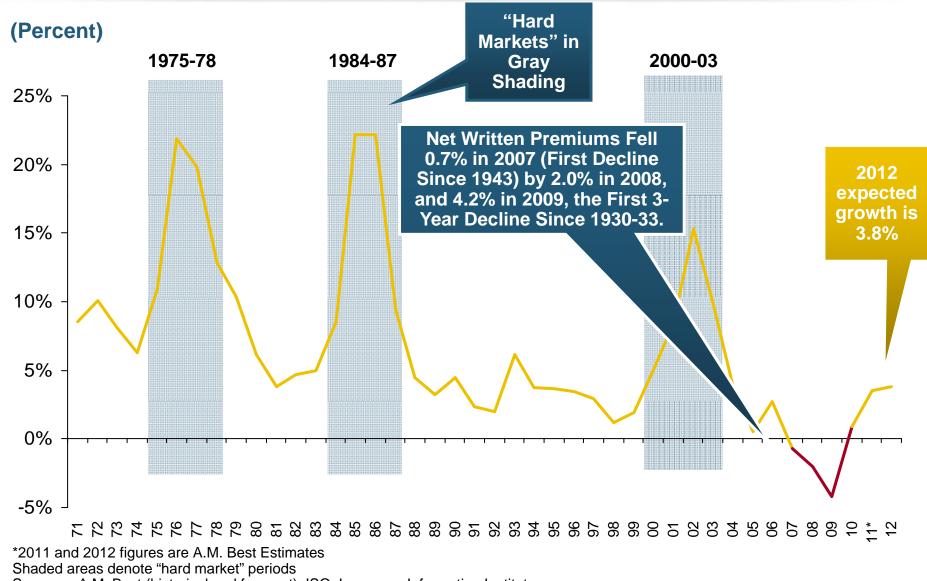




4. RENEWED PRICING DISCIPLINE

Is There Evidence of a Broad and Sustained Shift in Pricing?

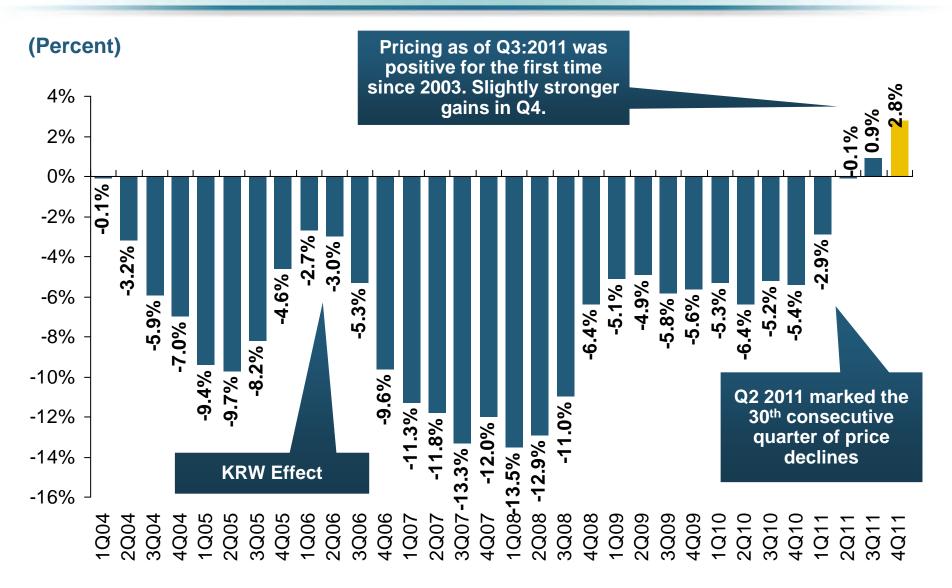
Annual % Change in Non-Life Premiums: INSURANCE Market Turns Are a Recurrent Event



Sources: A.M. Best (historical and forecast), ISO, Insurance Information Institute.

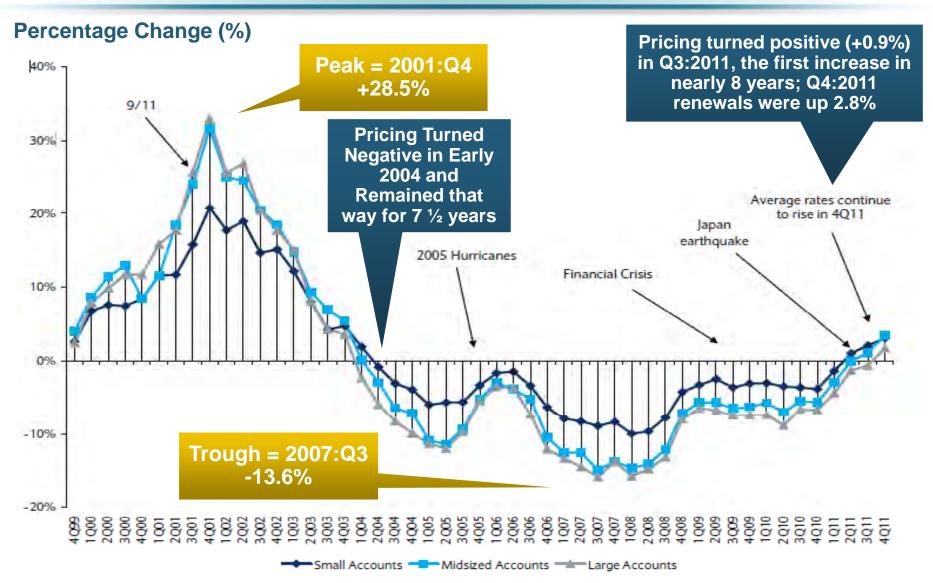
INFORMATION

Average Commercial Rate Change, All Lines, (1Q:2004–4Q:2011)



Source: Council of Insurance Agents & Brokers (1Q04-4Q11); Insurance Information Institute

Change in Commercial Rate Renewals, by Account Size: 1999:Q4 to 2011:Q4

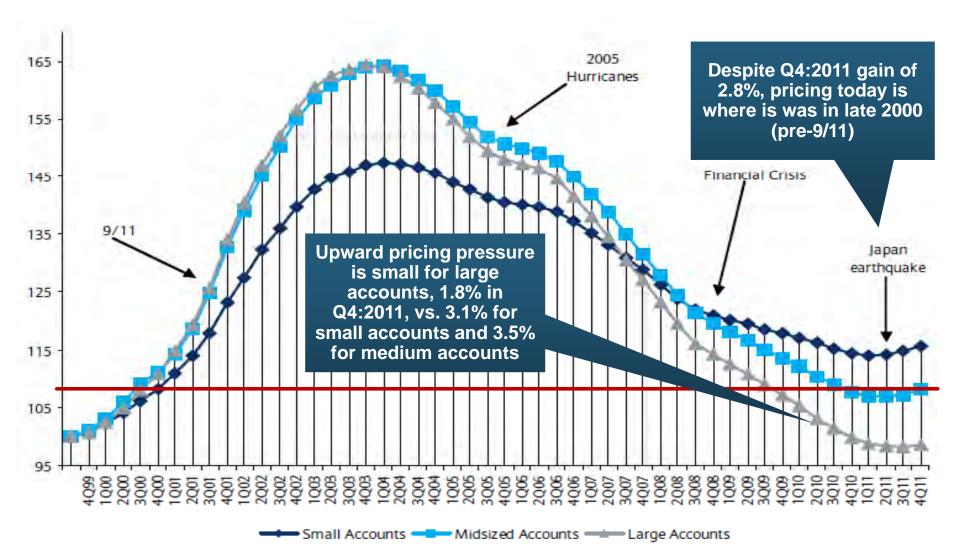


Source: Council of Insurance Agents and Brokers; Barclay's Capital; Insurance Information Institute.

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Cumulative Qtrly. Commercial Rate Changes, **The Insurance** by Account Size: 1999:Q4 to 2011:Q4

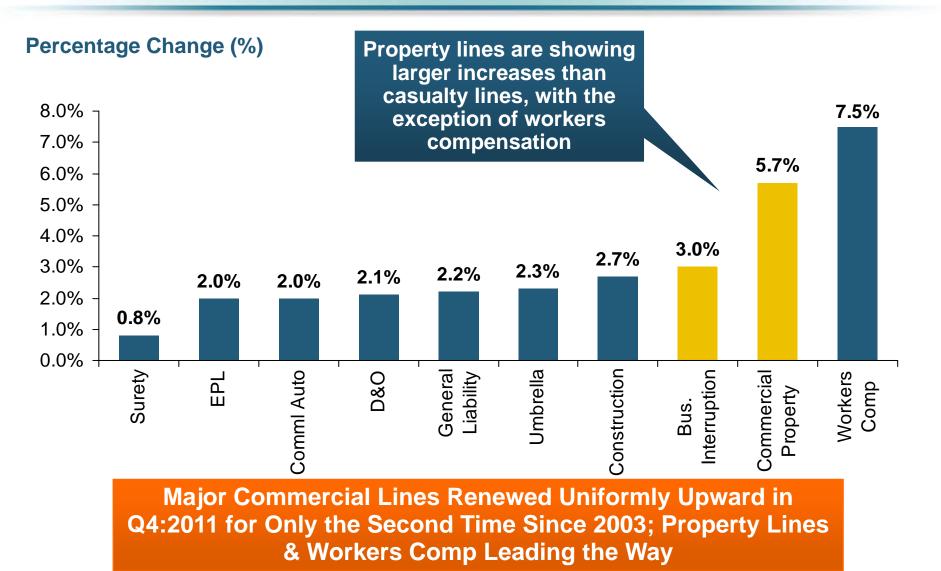
1999:Q4 = 100



Source: Council of Insurance Agents and Brokers; Barclay's Capital; Insurance Information Institute.

Change in Commercial Rate Renewals, by Line: 2011:Q4





Source: Council of Insurance Agents and Brokers; Insurance Information Institute.



Other Cycle-Influencing Factors

Could Other Factors Act as a Catalyst to Turn the Market?

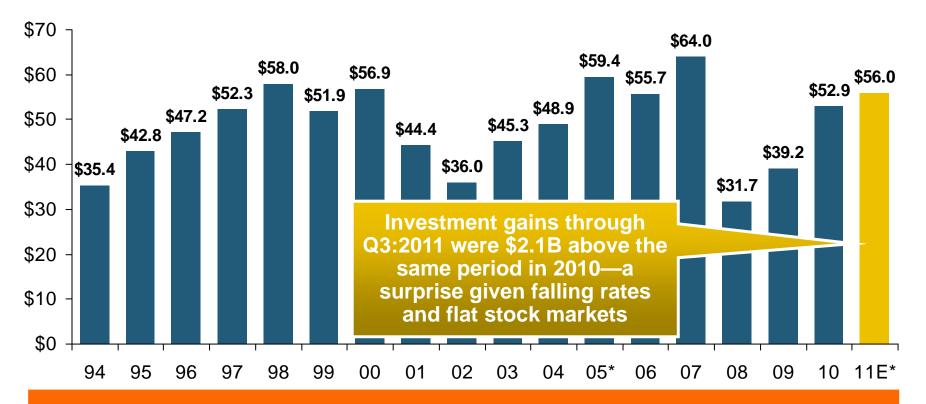


INVESTMENTS: THE NEW REALITY

Investment Performance is a Key Driver of Profitability Does It Influence Underwriting or Cyclicality?

Property/Casualty Insurance Industry Investment Gain: 1994–2011E¹

(\$ Billions)

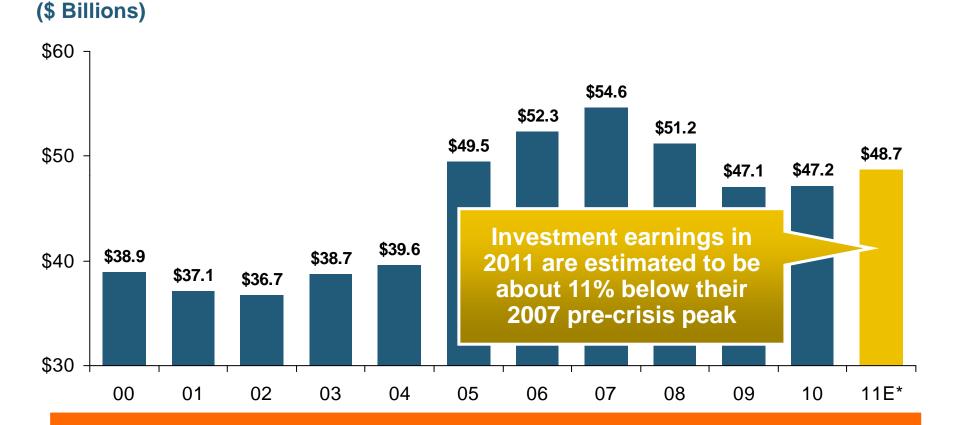


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Investment Gains in 2011 Were Surprisingly Robust. Investment Gains Recovered Significantly Due to Realized Investment Gains; The Financial Crisis Caused Investment Gains to Fall by 50% in 2008

 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; 2011 figure is annualized based 2011:Q3 actual of \$42.0B. Sources: ISO; Insurance Information Institute.

Property/Casualty Insurance Industry Investment Income: 2000–2011E¹



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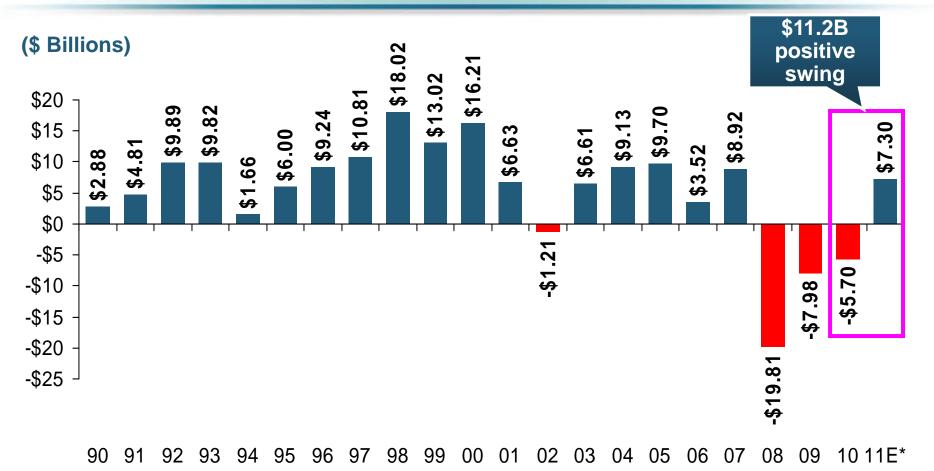
Investment Income in 2011 Was Surprisingly Strong, Though Investment Income Is Likely to Weaken in 2012 Due to Persistently Low Interest Rates

¹ Investment gains consist primarily of interest and stock dividends.

* 2011E figure is annualized based on actual \$36.5B in investment income through 2011:Q3.

Sources: ISO; Insurance Information Institute.

P/C Insurer Net Realized Capital Gains/Losses, 1990-2011E

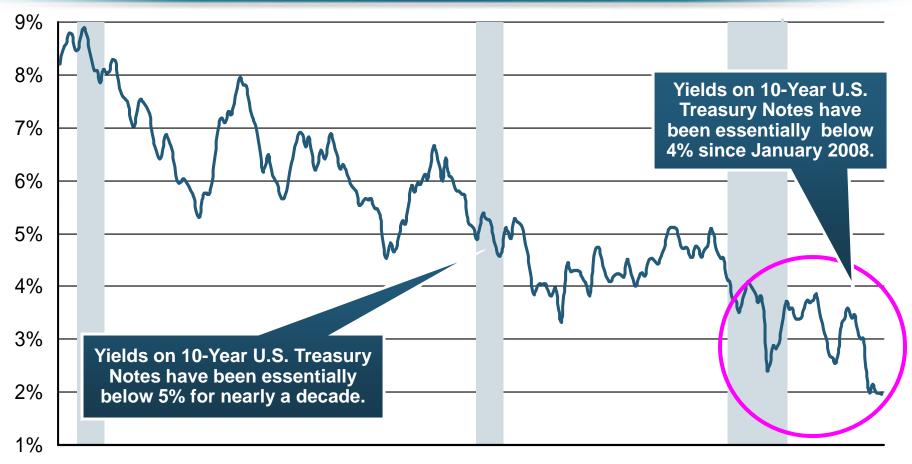


Insurers Posted Net Realized Capital Gains in 2011 for the First Time Since 2007. Realized Capital Losses Were the Primary Cause of 2008/2009's Large Drop in Profits and ROE

*2011 is an estimate based on annualized actual 2011 9-month figure of \$5.5B. Sources: A.M. Best, ISO, Insurance Information Institute.

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U.S. 10-Year Treasury Note Yields: A Long Downward Trend, 1990–2012*



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

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.

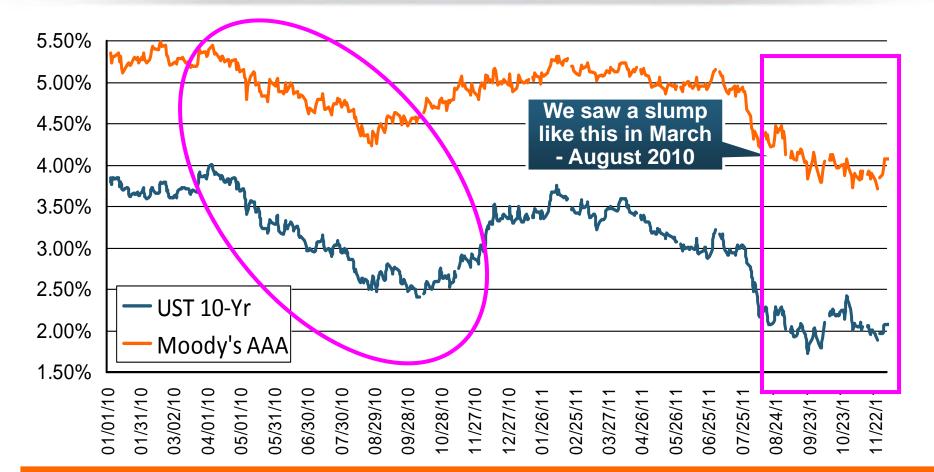
*Monthly, through January 2012. Note: Recessions indicated by gray shaded columns. Sources: Federal Reserve Bank at http://www.federalreserve.gov/releases/h15/data/Monthly/H15 TCMNOM Y10.txt

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

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Daily Yields, 10-Year U.S. T-Notes vs. Moody's Seasoned AAAs, 2010-2011*



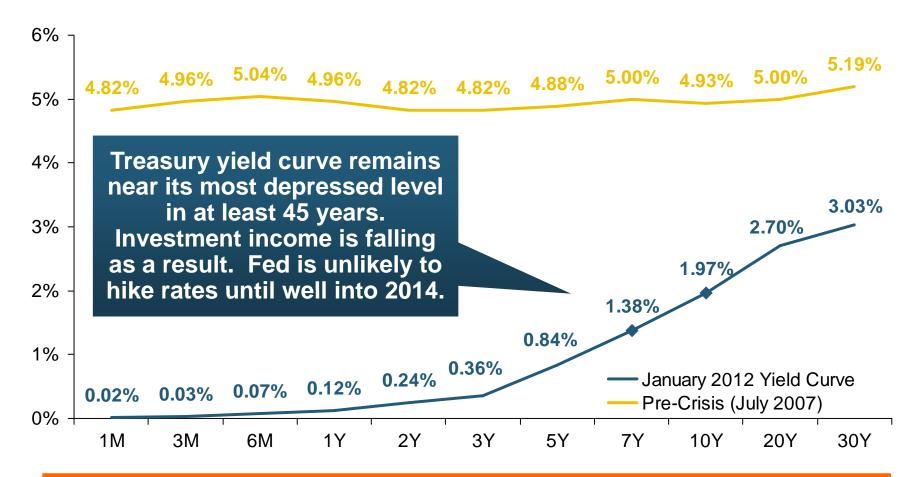


The spread between the two yields reflects confidence (or lack of it) in the economy's prospects. A wider spread indicates worry; narrower = confidence.

*through 11/30/2011

Sources: Federal Reserve Board at http://www.federalreserve.gov/releases/h15/data/Business_day/H15_AAA_NA.txt

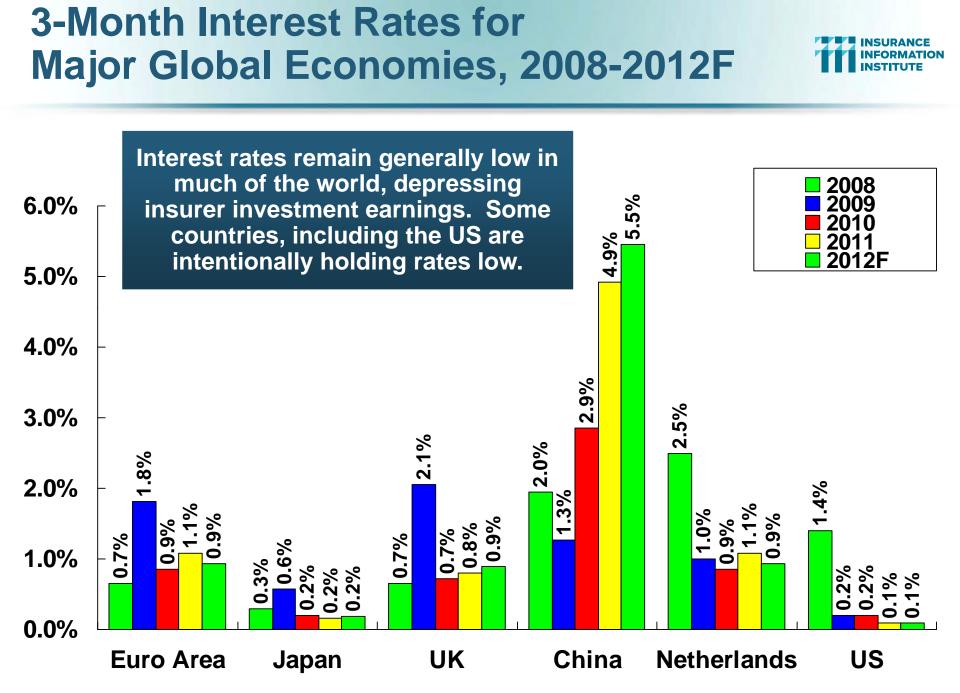
Treasury Yield Curves: Pre-Crisis (July 2007) vs. Jan. 2012



The Fed Is Actively Signaling that it Is Determined to Keep Rates Low Through Late 2014

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

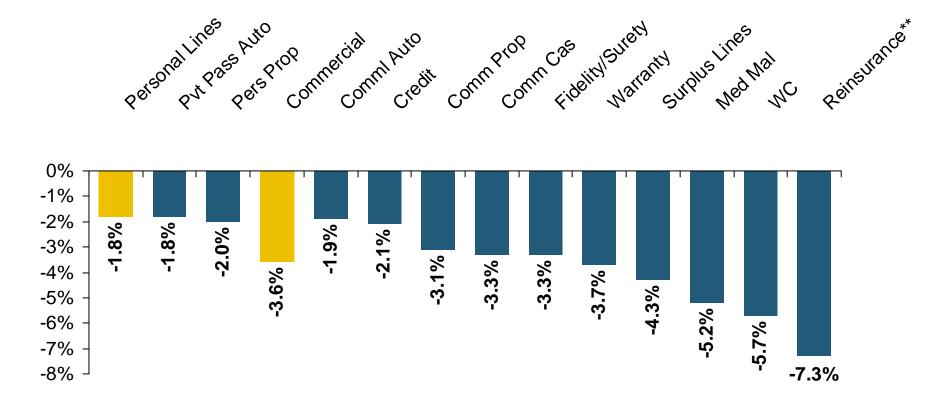
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Source: Blue Chip Economic Indicators, Feb. 2012 edition.

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.

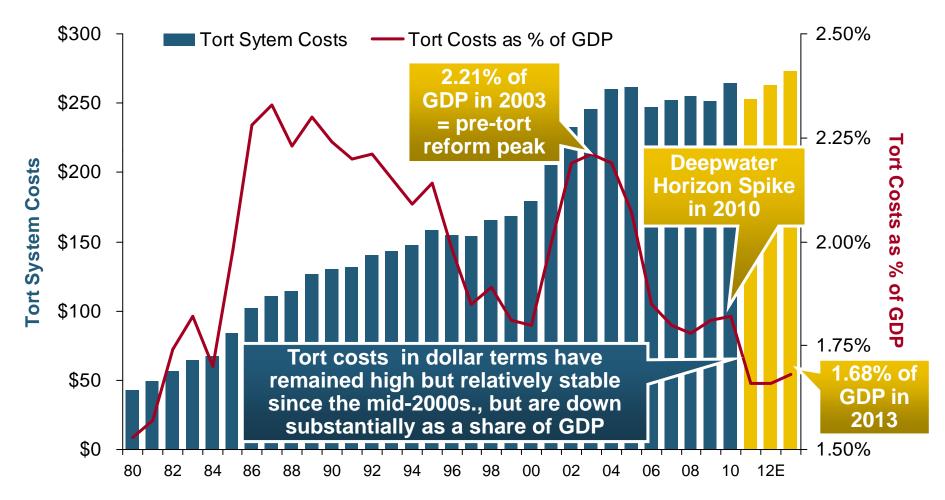


Shifting Legal Liability & Tort Environment

Tort Environment Appears to Be Less of a Driver than in Past

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





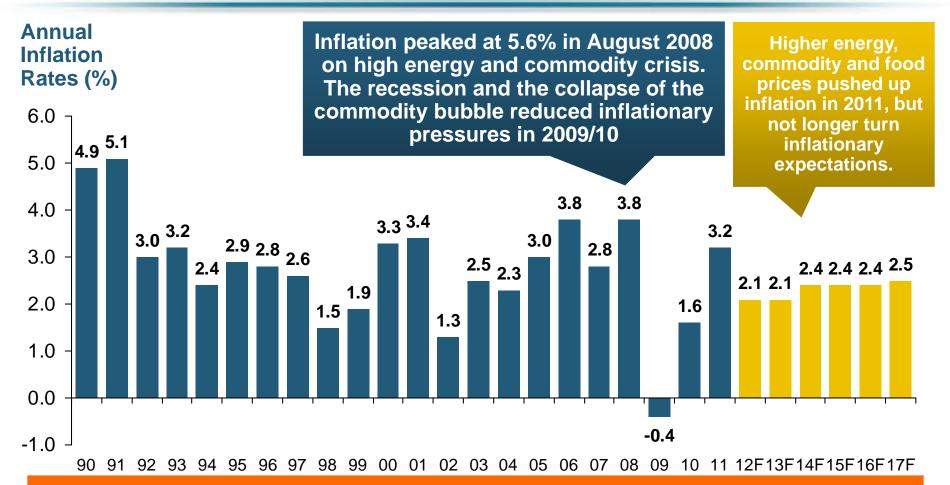


Inflation

Is it a Threat to Claim Cost Severities?

Annual Inflation Rates, (CPI-U, %), 1990–2017F

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The slack in the U.S. economy suggests that inflationary pressures should remain subdued for an extended period of times. Energy, health care and commodity prices, plus U.S. debt burden, remain longer-run concerns

Sources: US Bureau of Labor Statistics; Blue Chip Economic Indicators, 10/11 and 1/12 (forecasts).

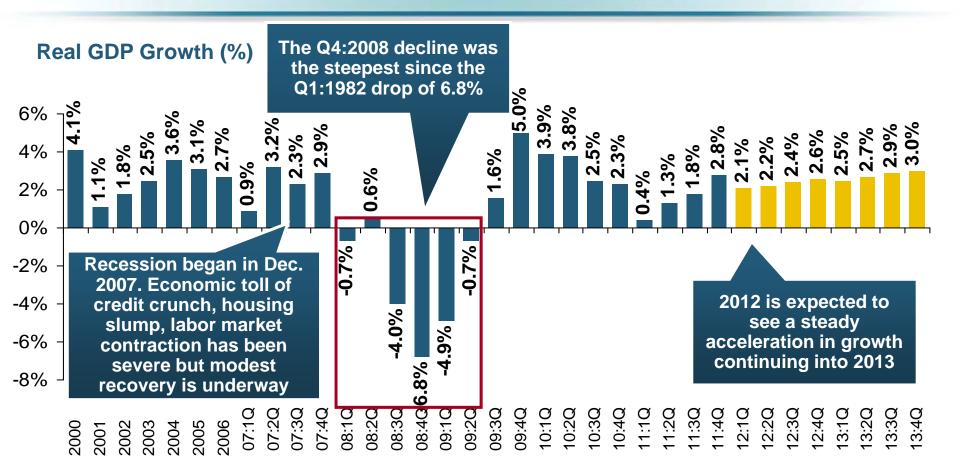


The Strength of the Economy Will Influence P/C Insurer Growth Opportunities

Growth Will Expand Insurable Exposures and Help Absorb Excess Capital

US Real GDP Growth*





Demand for Insurance Continues To Be Impacted by Sluggish Economic Conditions, but the Benefits of Even Slow Growth Will Compound and Gradually Benefit the Economy Broadly

* Estimates/Forecasts from Blue Chip Economic Indicators.

Source: US Department of Commerce, Blue Economic Indicators 2/12; Insurance Information Institute.

Summary



- None of the "Traditional Criteria" for a Market Turn (or "Hard Market") Has Been Completely Realized
- Other Major Driving Factors Such as a Material Deterioration in Tort Environment or Inflation Are Absent
 - Deterioration in Underwriting Results Has Been Masked
 - Prior-year reserve releases
- Investment Earnings in Aggregate Have Yet to Fall Materially
 - Decline in investment income offset by realization of capital gains



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