

Analytics Insights Conference

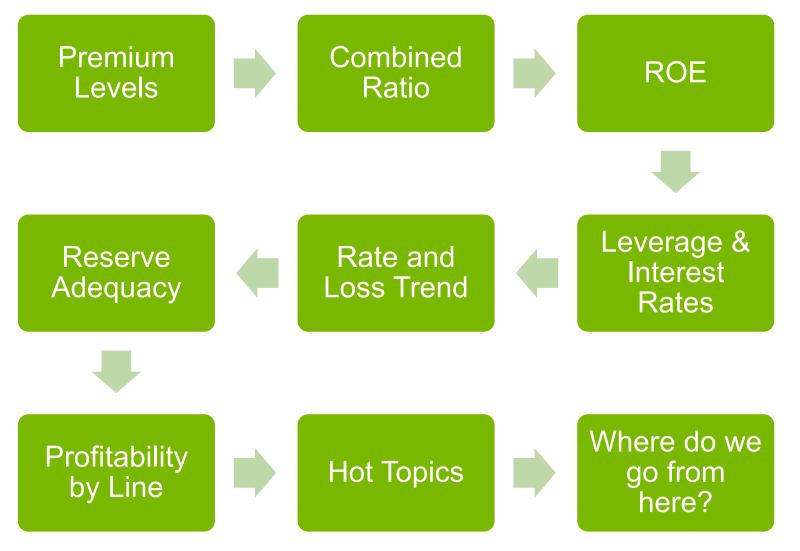
Innovation at the Intersection of Capital and Analytics



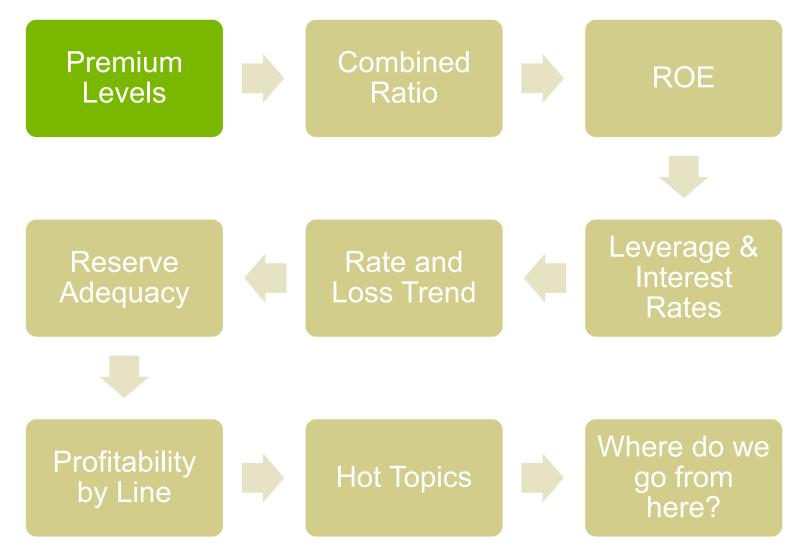
The Insurance Cycle: Historical Perspectives and Speculative Projections

Stephen J. Mildenhall July 21, 2010





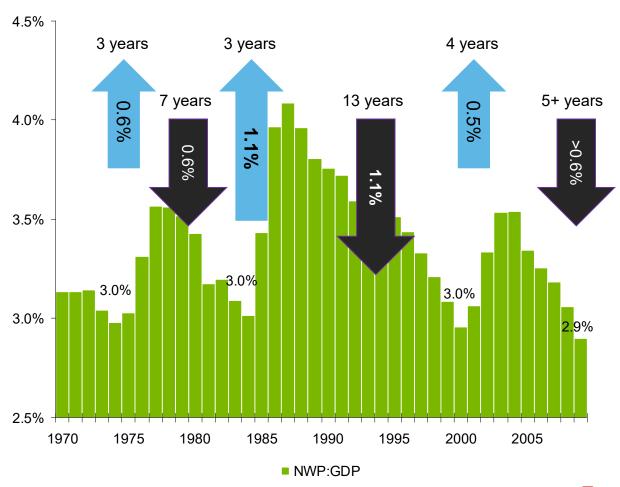




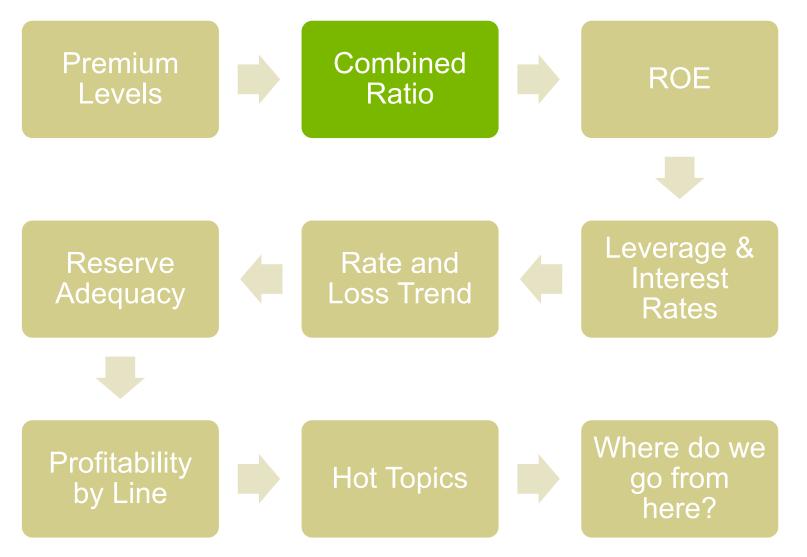


Overall Premium Levels At Historical Lows Relative to GDP...Is Market Primed To Turn?

Industry NWP % of GDP



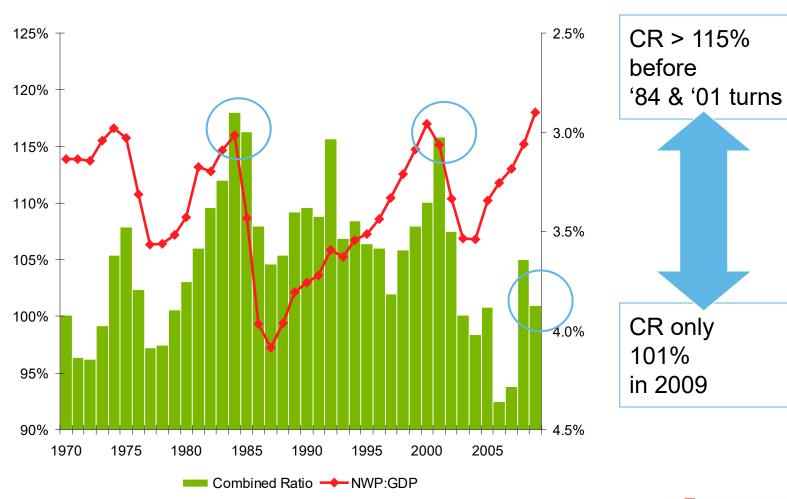




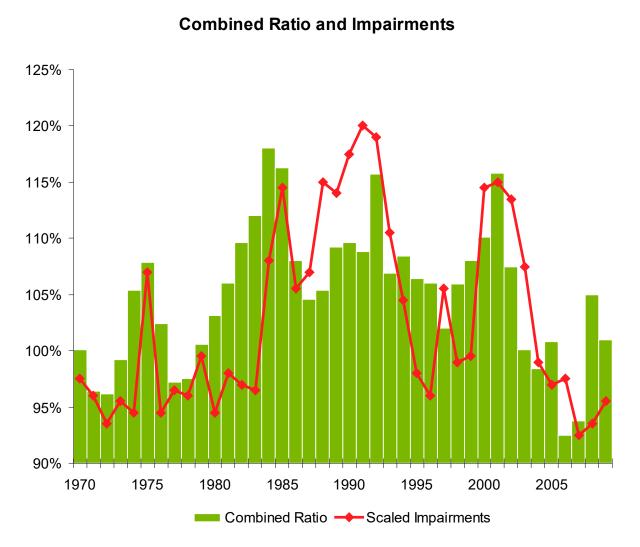


Calendar Year Results Far Better Than Seen Before Previous Market Turns

NWP % GDP and Combined Ratio



Overall Industry Appears Unstressed Impairments At Historically Low Levels



P&C Model Durable

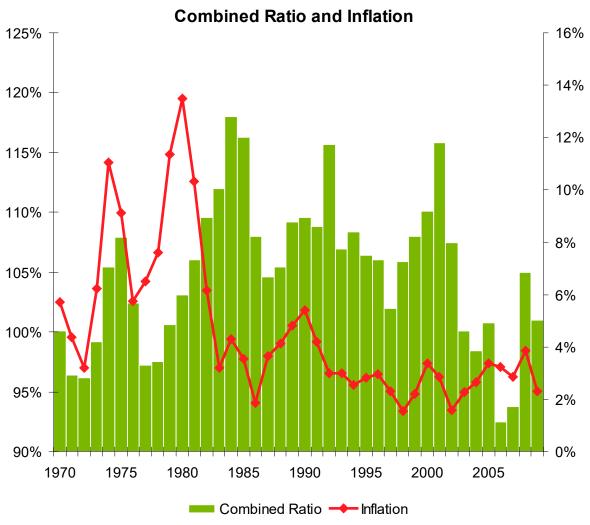
5 impairments in 2007 lowest on record

7 in 2008, 3rd lowest since 1970

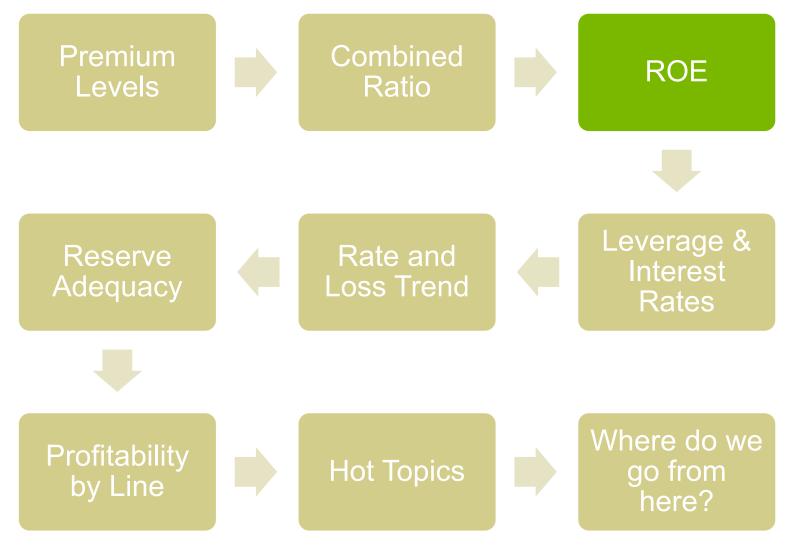
11 in 2009, 8th lowest



Specter Of Inflation? Cats And Pricing Have Driven Hard Markets Since 1984 Shock



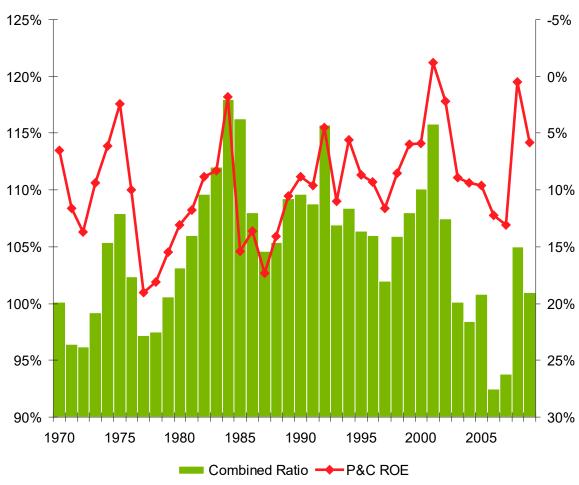






Historical Return on Equity (ROE) Vs. Combined Ratio

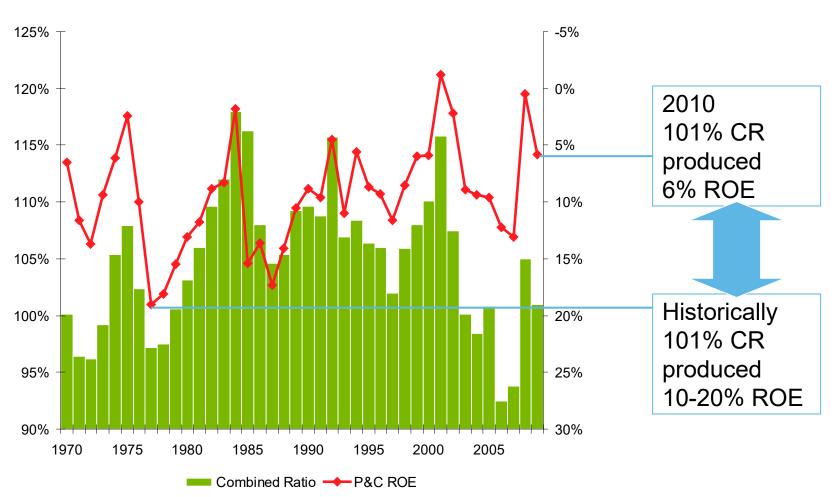
ROE and Combined Ratio





Low Investment Returns: Lower Pain Threshold? ROE 8 Points Lower Than Earlier Periods for Same Combined Ratio

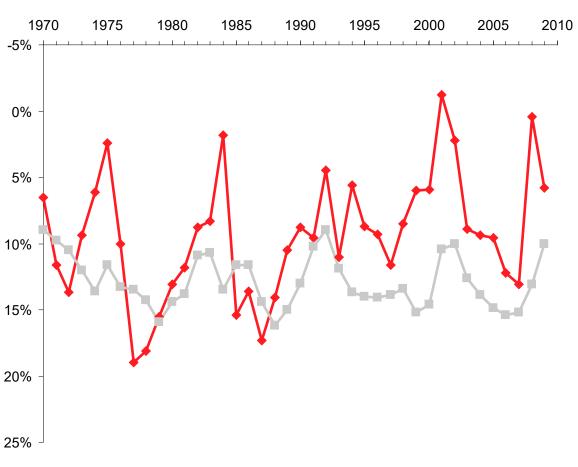
ROE and Combined Ratio





Aside: Insurance Vs. All Industry Return And Volatility Insurance Returns: 73% Of Return With 237% of Volatility

P&C ROE vs. All Industry ROE



P&C Industry Avg. ROE 9.3% Std. Dev. 4.7%

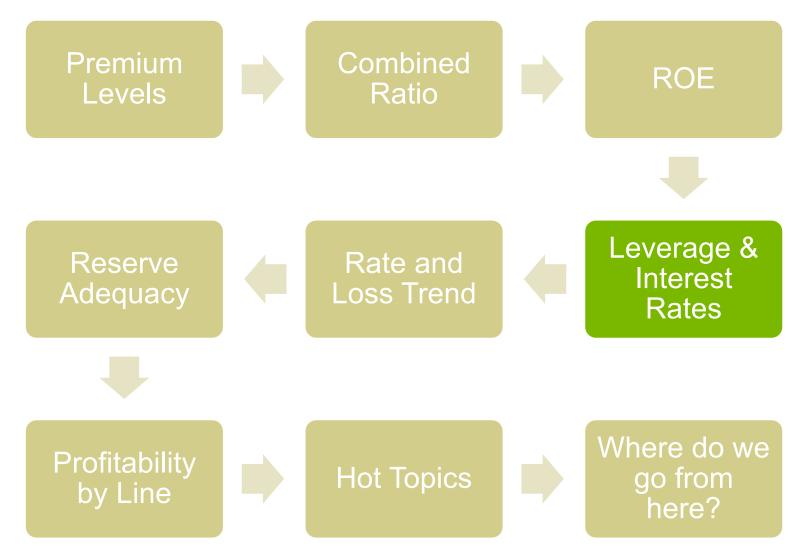


All US Industry Avg. ROE 12.8% Std. Dev. 2.0%

Correlation: 36%



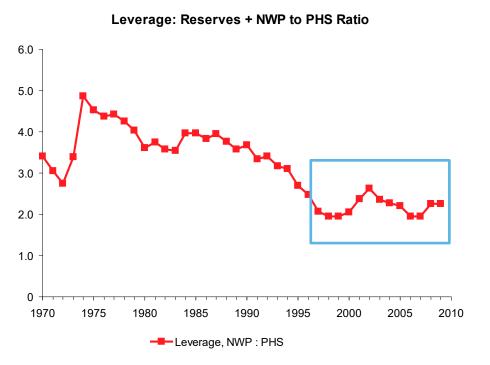
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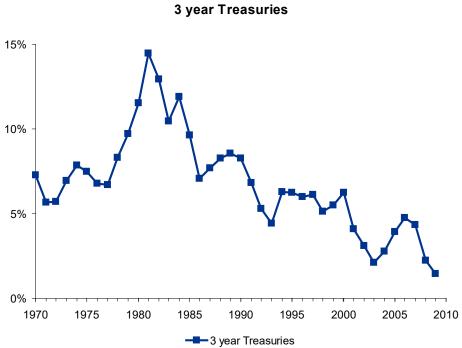




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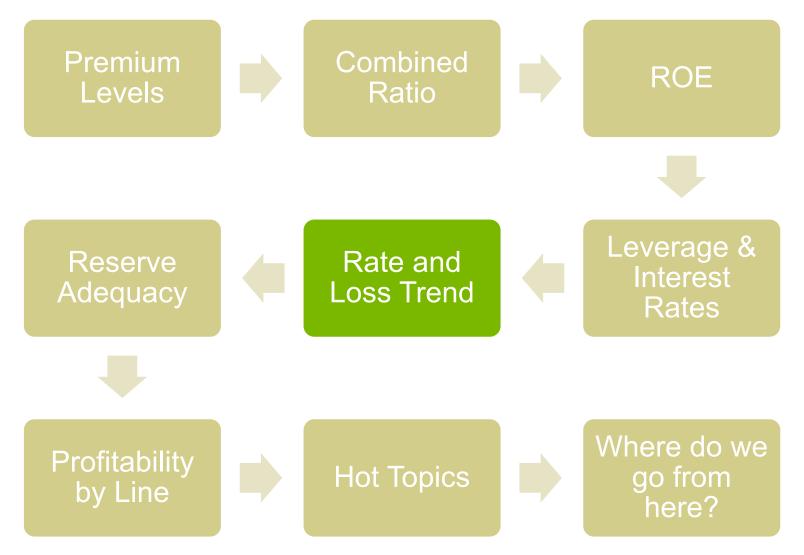
Leverage And Interest Rates





Decline in leverage stable since mid 1990's







Commercial Lines And Casualty Rate Change History Consensus Of Estimates

Aon	Benfield	Com	pany	Sample

			Market				Specialty	Standard
Year	Qtr	CIAB (GL)	Scout	Advisen	CLIPS	All Co. Avg	Co. Avg	Co. Avg
2005	Q2	-10.0%	-2.3%	-7.1%	-2.0%			
2005	Q3	-7.7%	-5.3%	-8.3%	-2.0%			
2005	Q4	-4.7%	-4.7%	-6.6%	-2.0%			
2006	Q1	-6.0%	-5.7%	-4.4%	-2.0%			
2006	Q2	-5.6%	-6.0%	-2.1%	-1.0%			
2006	Q3	-6.3%	-9.0%	-0.4%	-1.0%			
2006	Q4	-8.4%	-8.7%	-1.3%	-3.0%			
2007	Q1	-10.5%	-10.3%	-2.0%	-4.0%	-3.9%	-5.2%	-3.0%
2007	Q2	-11.4%	-13.0%	-2.5%	-5.0%	-6.0%	-8.0%	-4.8%
2007	Q3	-12.1%	-15.0%	-2.9%	-5.0%	-7.5%	-9.4%	-5.4%
2007	Q4	-12.2%	-15.3%	-3.6%	-6.0%	-7.1%	-7.4%	-5.8%
2008	Q1	-12.6%	-13.7%	-5.4%	-6.0%	-6.6%	-6.9%	-5.5%
2008	Q2	-11.9%	-11.3%	-6.0%	-6.0%	-7.6%	-7.8%	-5.9%
2008	Q3	-9.7%	-10.3%	-6.9%	-5.0%	-5.8%	-6.0%	-4.9%
2008	Q4	-5.8%	-9.0%	-6.4%	-3.0%	-3.6%	-4.4%	-2.6%
2009	Q1	-4.2%	-8.0%	-3.9%	0.0%	-0.6%	-0.8%	-0.5%
2009	Q2	-4.9%	-6.3%	-2.8%	1.0%	0.6%	0.0%	1.2%
2009	Q3	-4.7%	-5.0%	-1.7%	0.0%	0.7%	0.6%	0.9%
2009	Q4	-5.6%	-4.7%	-1.7%	0.0%	0.9%	0.9%	0.5%
2010	Q1	-4.9%	-4.3%	-2.4%		-0.1%	-1.0%	0.7%

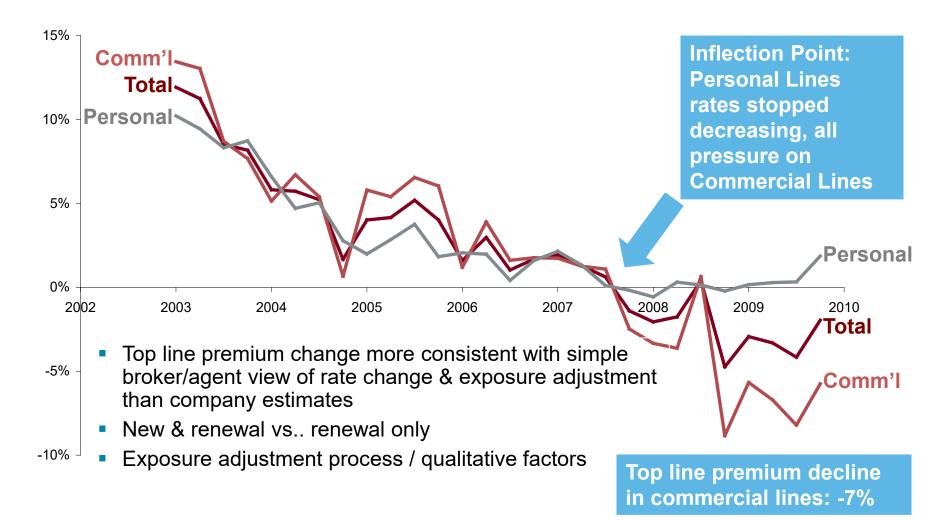
Broker and agent industry rate/premium changes: -5%

Exposure adjustment from recession: -3%

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Macro Premium Trends: Quarter Over Quarter Change In Industry Direct Written Premium



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Rate Summary

Personal Lines

- Total premium flat to slightly up
- PPA frequency up-tick
- Severity trend below average
- Weather (especially Midwest tornado hail) continues to drive property volatility

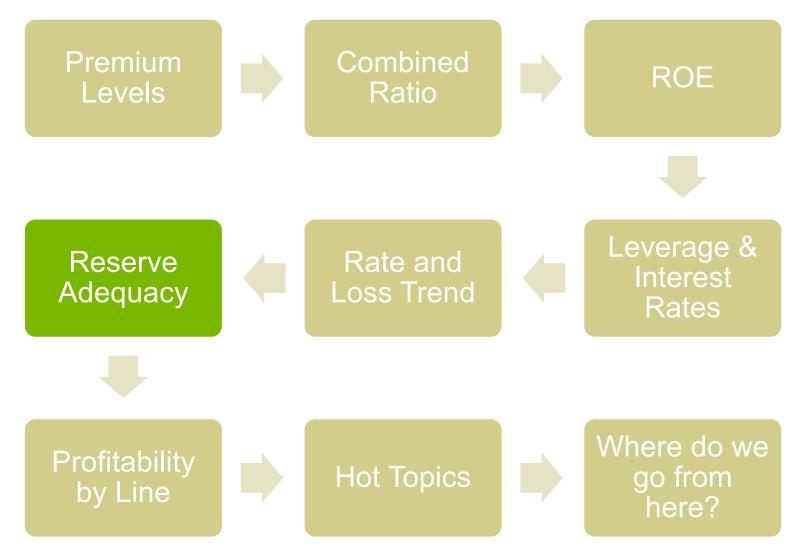
Commercial

- Premium down 5 to 10 percent, reflecting economic slowdown impact on revenue/payroll
- Quoted rate changes suggest pressure on loss picks
- Signs that tort costs are increasing after benign 2009/10
- Pressure on Med Mal reforms (MS, IL, GA, KS, MD)

Reinsurance

- Double dip rate-on-rate declines
- Abundant capital and capacity; Q1 2010 industry surplus of \$434B is at an all time high
- US catastrophe rates down 10 to 20 percent at July 1
- Gulf Energy pocket of hardening rate





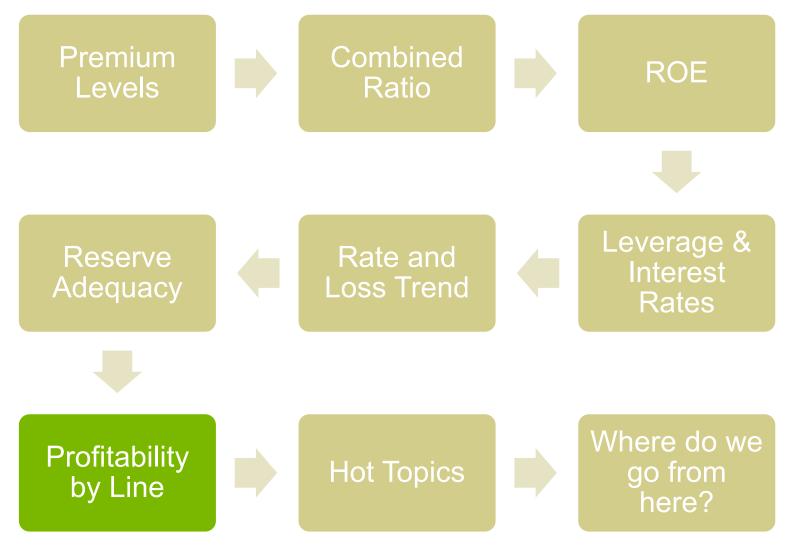


Industry Reserve Levels How Much Gas Is Left In The Tank?

Reserve Development (\$B)

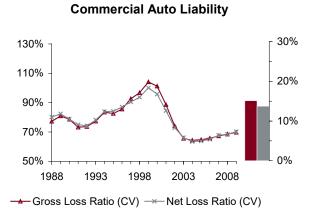
_	Favorable / (A	dverse) Develo	Remaining	Years at	
	2007	2008	2009	Redundancy	Run Rate
Home/Farm	0.3	0.5	1.4	(0.3)	N/A
PP Auto Liab	2.1	1.1	1.8	4.2	2.5
Comm Auto Liab	0.7	0.5	0.4	2.1	4.0
Work Comp	1.0	1.1	(0.5)	(8.0)	N/A
CMP	0.9	1.8	1.3	1.5	1.1
Med Prof Liab Occ	0.4	0.3	0.5	2.1	5.4
Med Prof Liab CM	1.5	2.0	1.6	5.5	3.2
Spec Liab	0.1	0.3	0.5	1.7	5.5
Oth Liab Occ	(0.4)	1.6	(0.4)	1.5	5.6
Oth Liab CM	0.4	1.8	8.0	3.1	3.1
International	(0.1)	(0.0)	(0.0)	(0.1)	N/A
Reins NP Prop	0.8	0.8	1.1	2.3	2.6
Reins NP Liab	(1.7)	(0.3)	8.0	(3.0)	N/A
Reins NP Fin	0.1	0.1	0.2	0.6	4.1
Prod Liab Occ	(0.1)	(1.0)	(0.6)	0.7	N/A
Prod Liab CM	0.0	0.0	0.0	0.1	2.0
All Other 2 Yr Lines	3.5	3.8	2.6	2.2	0.7
Total xFin Mort Guaranty	9.5	14.4	11.5	23.2	2.0
Fin Mort Guaranty	(1.2)	(12.6)	7.0	(1.4)	N/A
Total	8.3	1.7	18.6	21.9	2.3

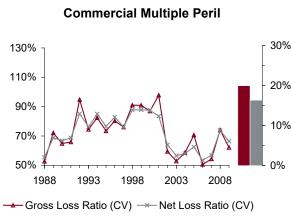
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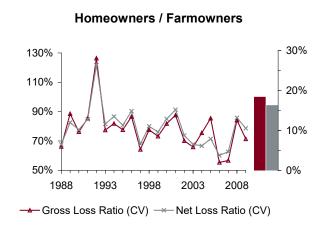


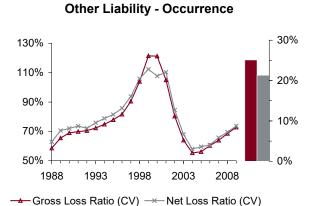


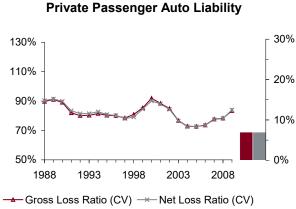
Standard Lines Historical Gross And Net Accident Year Loss Ratios

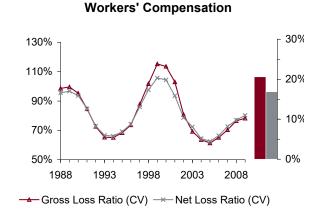




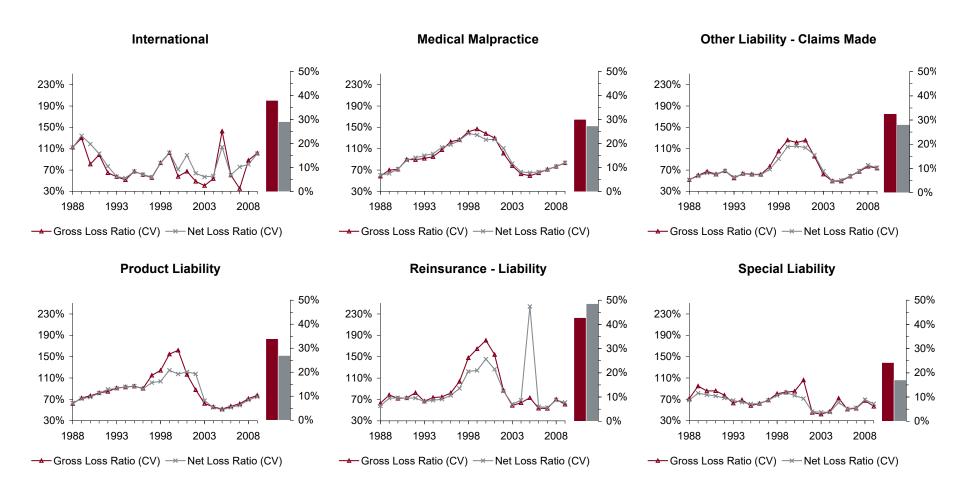








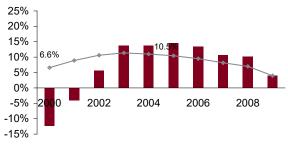
Specialty Lines Historical Gross And Net Accident Year Loss Ratios





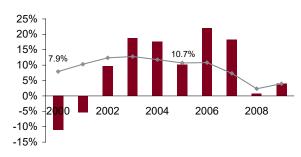
Standard Lines ROE And Average Accident Year ROE

Commercial Auto Liability



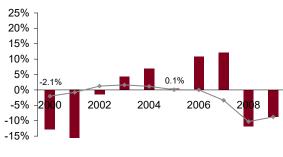


Commercial Multiple Peril



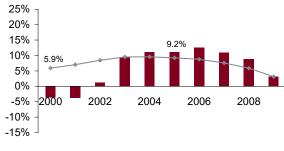
■ Accident Year ROE → Cumulative ROE

Homeowners / Farmowners



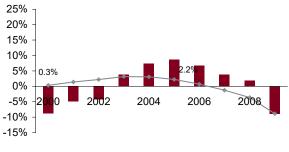
Accident Year ROE → Cumulative ROE

Other Liability - Occurrence



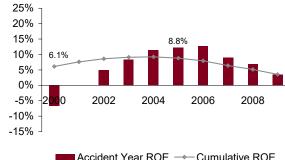
■ Accident Year ROE → Cumulative ROE

Private Passenger Auto Liability



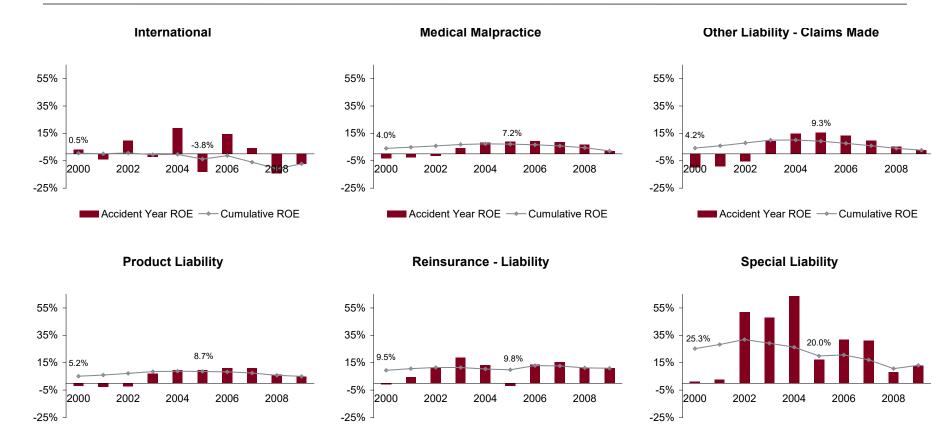
Accident Year ROE → Cumulative ROE

Workers' Compensation





Specialty Lines ROE And Average Accident Year ROE



■ Accident Year ROE → Cumulative ROE



Accident Year ROE → Cumulative ROE

Proprietary & Confidential 24

■ Accident Year ROE → Cumulative ROE

Standard Lines Ranks

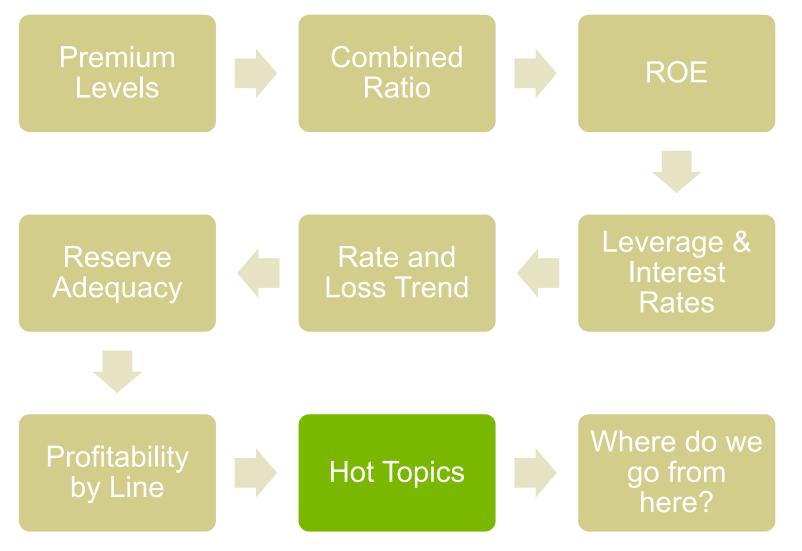
Ranks	Commercial Auto Liability	Commercial Multiple Peril	Homeowners / Farmowners	Other Liability - Occurrence	Private Passenger Auto Liability	Workers' Compensation
10 Year Avg Net Premium Growth	5	4	2	1	6	3
10 Year Average Net Loss Ratio	2	1	4	3	6	5
10 Year Average Net Combined Ratio	3	2	6	1	5	4
Avg CY Development to Premium (+=good)	4	3	2	6	1	5
10 Year Average Calendar Year Loss Ratio	2	1	3	6	5	4
Gross Loss Ratio CV, 1987-08	2	4	3	6	1	5
Net Loss Ratio CV, 1987-08	2	3	4	6	1	5
Worst Gross LR 1987-08	3	2	6	5	1	4
Worst Net LR 1987-08	3	1	6	5	2	4
Biggest Net LR Increase	2	5	6	4	1	3
5 Year Economic ROE	2	1	6	3	5	4
10 Year Economic ROE	2	1	6	4	5	3
2009 Premium to Surplus Ratio	4	3	2	6	1	5
Average Rank	2	1	5	5	3	4



Specialty Lines Ranks

Ranks	International	Medical Malpractice	Other Liability - Claims Made	Product Liability	Reinsurance - Liability	Special Liability
10 Year Avg Net Premium Growth	6	2	1	4	5	3
10 Year Average Net Loss Ratio	4	5	3	2	6	1
10 Year Average Net Combined Ratio	5	6	4	3	2	1
Avg CY Development to Premium (+=good)	2	1	4	6	5	3
10 Year Average Calendar Year Loss Ratio	2	4	3	6	5	1
Gross Loss Ratio CV, 1987-08	5	2	3	4	6	1
Net Loss Ratio CV, 1987-08	5	3	4	2	6	1
Worst Gross LR 1987-08	3	4	2	5	6	1
Worst Net LR 1987-08	4	5	2	3	6	1
Biggest Net LR Increase	5	1	4	3	6	2
5 Year Economic ROE	6	5	3	4	2	1
10 Year Economic ROE	6	5	4	3	2	1
2009 Premium to Surplus Ratio	2	4	3	6	5	1
Average Rank	5	3	2	4	6	1







accident aces agents america asia balance better billion

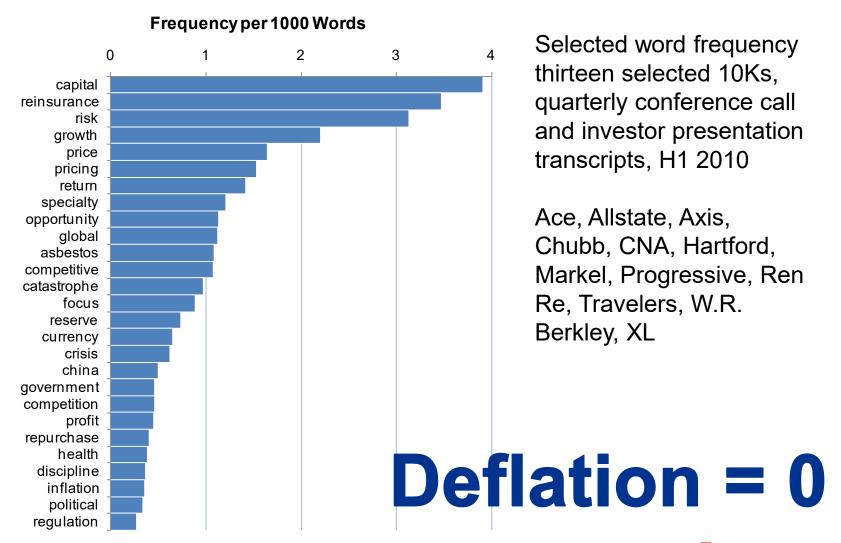
DUSINESS businesses capabilities **Capital** casualty china clients combined commercial countries credit crisis customers distribution europe evan example fact financial focus frankly general global good great greenberg grow growing growth huatai ill important infrastructure insurance international investment largest latin life lines local management market markets middle needs officer operating operations opportunities opportunity particularly personal portfolio premium presence pricing probably product products property question rate

reinsurance risk sales second services side significant slide small specialty

terms terrific travel underwriters underwriting value while world years



What Is On Investor's and Senior Management's Minds? Public Document Word Frequency





Management Focus

Capital

 Capital management #1 challenge for industry

Reinsurance

Volatility transfer, capital & capacity

Risk

Rating agency, regulator, investor

Growth

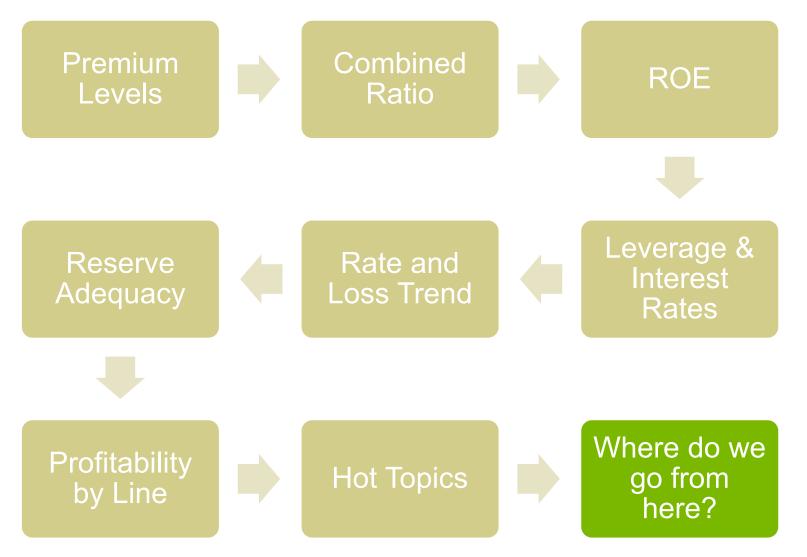
Product enhancement & differentiation

Price

Risk sensitive benchmarks, aligned capital and growth objectives



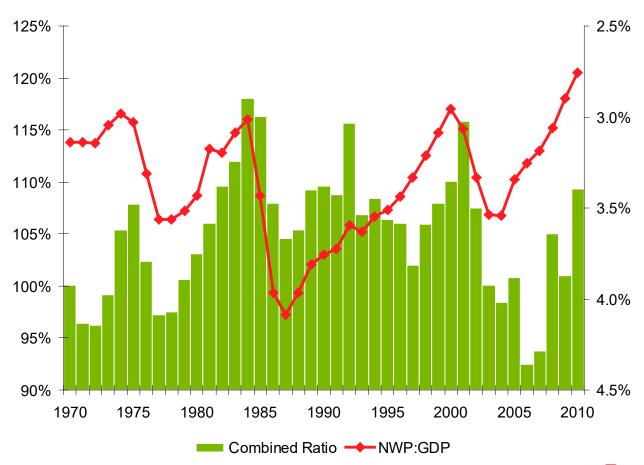
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What Will Turn The Market? - 2010 with \$25B Net Pre-Tax Cat Losses, No Reserve Releases, 3% Rate Cut

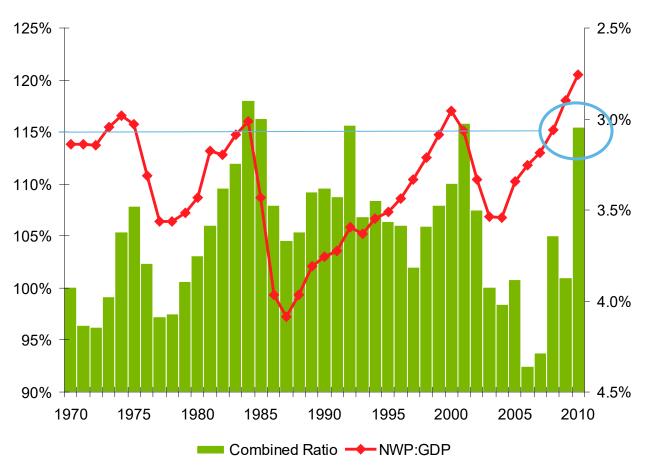
Industry Calendar Year Combined Ratio \$25B Extraordinary Cat Losses

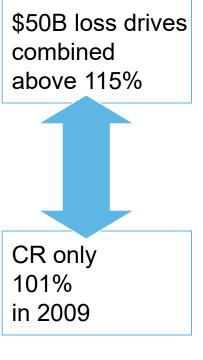




What Will Turn The Market? - 2010 with \$50B Net Pre-Tax Cat Losses, No Reserve Releases, 3% Rate Cut

Industry Calendar Year Combined Ratio \$50B Extraordinary Cat Losses







What Industry Event Needed For \$50B Net?

Hurricane occurrence estimate = 50 year return period

- \$82B industry event
- \$17B reinsurance recovery net of reinstatement premiums
- \$17B FHCF recovery
- \$48B net industry loss

Earthquake occurrence estimate = 250 year return period

- \$72B industry event
- \$21B reinsurance recovery net of reinstatement premiums
- \$51B net industry loss

All region **aggregate**estimate = 25

year return period

- \$81B industry event
- \$18B reinsurance recovery net of reinstatement premiums
- \$13B FHCF recovery
- \$50B net industry loss



Speculative Projections

Rate with No Shock

Shock to Move Market

Reserves

Loss Trend

Investment Income

Capital & Leverage

- Continued downward trend through at least 2012
- · Top line pressure moderated by economic rebound
- \$30-50B net permanent hit to US P&C industry
- Nat cat hurricane/quake most likely trigger

• 2+ years releases available in aggregate

- Current accident year picks aggressive
- Severity trend tracking with historical norms
- Frequency trend could reverse with economy
- Low interest rate environment for next 1-2 years
- Increased volatility in all sectors
- US capital will keep leverage in 2 to 2.5 range
- EU capital uncertainty from Euro and Solvency II

AON BENFIELD

Contact

Stephen J. Mildenhall

Chief Executive Officer

Aon Benfield Analytics

+1.312.381.5880 (office)

+1.312.961.8781 (cell)

stephen.mildenhall@aonbenfield.com

