CAS/CARe Seminar

Boston - Monday, June 4, 2012



John Buchanan, FCAS, MAAA ISO – Principal, Reinsurance Division

INT-2: International Casualty Overview Slides

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Intermediate Track 2 International Pricing Approaches - Casualty

This session will apply and extend the concepts from IT1 for International Casualty lines of business. Similarities and differences between US and European cultures and approaches will be discussed. Different data sources, benchmarking uses, and coverage adjustments will be highlighted. This session will include a case study approach to highlighting sensitivities and pitfalls of applying US and other benchmarks in exposure modeling as proxies to other countries.

Moderator / Panelist:

John Buchanan, ISO – Principal, Reinsurance Division

Panelists:

Robert Bender, Swiss Re – SVP, Head Analytical Services Americas Ana Mata, Matßlas Ltd-London – Managing Director

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Agenda – IT2



- Overview (10 mins John)
 - Framing the Presentations
 - Reinsurance Market Benchmarking
- Perspectives on European vs US Casualty Costing (30 mins Bob)
 - The Same But Different
 - European View of ISO Curves
 - European ILF Method and Curves
- Int'l Casualty Reinsurance Pricing Approaches (30 mins Ana)
 - Comparison of Methodologies US/UK/Europe
 - Case Study UK Motor XOL
 - Other Issues
- Questions

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Interm	ediate '	Track	2 (In	ternatio	nal C	asua	ltv) 🍮		
			•	Today's Present			J /		
	1	2	3	4	5	6	7		
		Trends				Loss Dev't Factors			
	Severity	Ground Up Freq	Exposure	Excess Severity	Freq	Ground Up	Excess	•	
Property	Severity	1104	Exposure	Severity	1104	Ground Op	LACCIS	1	
Casualty	IT2-AM							İ	
Specialty	IT2-AM							İ	
	8	9	10	11	12	13	14	J 15	
				Excess		Region/	Layer		
	Rate Ch	nanges	Ground-Up	Loss		Hazard/	Experience/	Emerg	
	Primary	Reinsurance	Loss Costs	Factors	ALAE	Subline	Exposure	Test	
Property									
Casualty	IT2-AM	IT2-AM		IT2-JB/AM/RB	IT2-AM		IT2-AM		
Specialty				IT2-AM/RB					
	16	17	18	19	20	21	22	23	
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	Forces	Primary	Reinsurers	Volatility	Distribution	Application	Correlations	Cycl	
Property									
Casualty	IT2-AM/RB				IT2-AM				
Specialty									

Reinsurance Market

 Reinsurance business mix¹ 	<u>Europe</u>	US / Can				
 Property 	46%	34%				
 Motor 	21%	8%				
 Liability & WC 	20%	35%				
Other	3%	23%				
Reinsurance type ²						
 Proportional 	70%	50%				
 Non-Proportional 	30%	50%				
• P & C Reinsurance Demand ³	\$ 51 b	\$ 65 b				

Original source: Tim Aman CARe-Phila 2007: 1 Axco, 2 Estimated, 3 A M Best Co Source: CARE-London July 2007 – J. Buchanan

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Exposure Benchmarks Insurance business mix US / Can Europe Lloyds, SRe, MRe · Property 24% 27% ISO 38% Motor 41% GLD · Liability 10% (dated) 14% NCCI • WC 0% 11% A&H 17% 2% Consultants

- · Lots of US Exposure Curves available
- Many sub-lines don't have standard curves or are under development D&O, E&O, FI, EPLI, Umbrella; earlier European Motor and Liability curve fits much different than standard US curves, especially above £1mm

11%

- · Companies need to accumulate own: difficult, credibility issues
- New Initiative under way by ISO Global Benchmarking Services (2012)

Original source: Tim Aman CARe-Phila 2007

Other

Mix Source: Tim Aman CARe-Phila Axco

5%

ISO - Global Benchmarking Services (GBS)

- Approach Type
 - Proxy
 - Data collection
 - Combination
- Lines of Business
 - Property, Casualty, Specialty
- Types of Analysis
 - Excess loss distributions
 - Sensitivity ranges, macro-industry, cross-country, other industry studies
 - Excess trend factors
 - Excess development factors
- European Territories (2012)