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Developments and Findings in Exposure Rating of ECO/XPL in Clash Treaties

CAS Seminar on Reinsurance – June 4th-5th, 2012
Chris Najim



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Agenda

- Quick Review
- Jurisdictional Developments
- Line of Business and Policy Limit Relationships
- Insurer Size and Claims Practices
- Conclusion

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Quick Review

Quick Review: Basic Information

- ECO/XPL losses occur in addition to or outside of policy limits, and are caused by allegations of faulty claim handling by the insurer.
- ECO/XPL losses are a significant component of the expected loss for clash treaties, but the proportion depends on the lines of business and the ratio of treaty retention to maximum policy limit.
 - Low ratio, Work Comp included small proportion
 - High ratio, Work Comp not included high proportion
- Traditionally a judgmental rate-on-line approach has been used to price ECO/XPL.
- A model-based approach provides consistency, ties rates more closely to available data.

Quick Review: Braithwaite and Ware Paper

- A good basic resource:

"Pricing Extra-Contractual Obligations and Excess of Policy Limits Exposures in Clash Reinsurance Treaties"

Braithwaite and Ware, Journal of Reinsurance, Spring 1995
- Gives basic form of an exposure rating model for ECO/XPL.
- Identifies underwriting considerations when pricing ECO/XPL, including:
 - States
 - Lines of Business / Policy Limits
 - Size
 - Claims Management Quality

Quick Review: Braithwaite and Ware Model

- Basic formula for exposure rating model for ECO/XPL expected loss:

$$E[L] = \text{Premium} * \text{Constant} * \int_{\text{Attachment}}^{\text{Limit}} f(x)dx$$

Premium = subject premium

Constant – set so as to achieve desired overall frequency, then modified by underwriting characteristics

$\int_{\text{Attachment}}^{\text{Limit}} f(x)dx$ – reflects expected average severity on the layer being priced

- Severity distribution – two-parameter Pareto

Jurisdictional Developments

Jurisdictional Developments: Overview

- Good sources of information: PCI, IRC, large reinsurers, brokers
- The past few years have seen numerous attempts to pass bad faith bills harmful to the insurance industry.
- 26 negative bills introduced in several states in 2011, but nothing was enacted.

CA, CO, DC, FL, GA, IL, IA, MD, MI, MS, NE, NH, NJ, NY, OR, PA, UT

- Most efforts at bad faith reform also failed.
- Expect return of negative legislation in several states.

Jurisdictional Developments: Florida

- Florida is by far the worst bad faith environment – mainly but not limited to personal auto
- Characteristics:
 - Extremely short time periods in which to offer limits
 - Written settlement demand not required
 - Burden placed on insurer to tender policy limits without any demand
 - No rules on how cases are to be settled
 - No right to cure in third party cases
 - No mandatory policy limits
 - Presence of lawyers who take advantage of the situation
- An effort to implement bad faith reform failed earlier this year.
- 2003 Med Mal tort reform – safe harbor provision, caps on pain and suffering. However, FL Supreme Court is reviewing.

Jurisdictional Developments: Other States

- Next tier of states with worst bad faith environments:
 - WA, CA, IL (Cook County), MO (Madison County)
- Washington: 2007 law eased restrictions on filing bad faith lawsuits, significantly eased restrictions on punitive damages.
- California: denial of coverage on GL/CMP
- There have been some successes at implementing reform.
- West Virginia: 2005 reform law replaces courts with an administrative procedure for handling bad faith cases, has reduced auto liability costs.
- Tennessee: 2011 reform law limits ability to sue and punitive damages.
- Reform bills currently under discussion in GA, LA, WV.

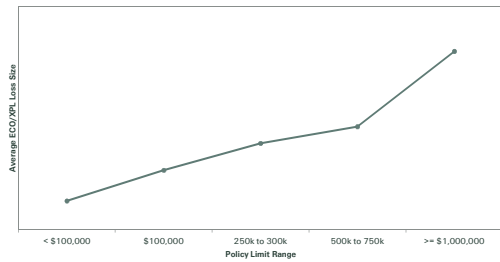
Line of Business and Policy Limit Relationships

**Line of Business/Policy Limit Relationships:
 Overview**

- Frequency hierarchy by line of business:
 - 1) Personal Auto (low limits, strict timelines)
 - 2) GL / CMP (denial of coverage, complex language)
 - 3) Commercial Auto
 - 4) Other – Personal Liability, Professional Liability, Work Comp
- Severity by line of business harder to delineate, but have experienced a number of very large losses recently involving personal auto bad faith.
- Frequency by policy limit: in general, there is higher potential for ECO/XPL at low policy limits.
- Severity by policy limit: assumption that expected average severity increases as policy limit increases has been challenged by recent personal auto experience.

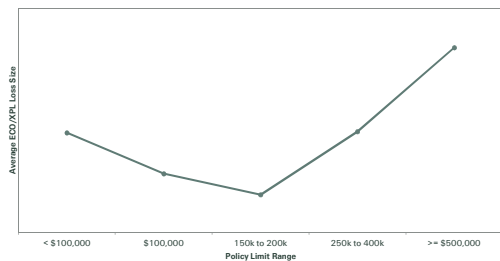
**Line of Business/Policy Limit Relationships:
 Average Severity by Limit for Commercial Lines**

Average ECO/XPL Loss Size vs. Policy Limit Range - Commercial LOB's



**Line of Business/Policy Limit Relationships:
 Average Severity by Limit for Personal Lines**

Average ECO/XPL Loss Size vs. Policy Limit Range - Personal LOB's



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Insurer Size and Claims Practices

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Insurer Size and Claims Practices: Overview

- Braithwaite and Ware: larger insurers more susceptible to lawsuits due to the deep-pocket effect

- However, we have been noticing a trend in the opposite direction.
 - involves plaintiff lawyers in states with poor bad faith environments
 - targets are smaller insurers who don't do much business in the state
 - such insurers aren't aware of / don't know how to handle the issues
 - example: personal auto in Florida

- An insurer's quality of claim management may be a far better indicator of vulnerability to ECO/XPL claims than size.

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Insurer Size and Claims Practices: Insurer Characteristics

- Braithwaite and Ware on claims practices:
 - Average workload and experience level of the staff
 - Insurer's approach to settling claims
 - Stability of claims staff
- Other claims department characteristics:
 - Level of centralization of the claims department
 - Level of authority per office
 - Level of oversight of claims handlers
 - Level of reliance on independent adjusters and TPA's
 - Level of authority and supervision given to TPA's
 - Frequency of claims audits
- Other insurer characteristics:
 - Complexity of exposures
 - Writers of niche business
 - Use of manuscript policies

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Insurer Size and Claims Practices: Quantitative Measurements

- A number of these characteristics can be measured quantitatively:
 - Average claims staff years of experience
 - Total number of pending files
 - Number of pending per claim handler
 - Number of claim handlers per supervisor (evaluation also depends on whether supervisors handle claims)
 - For small companies: number of states written
- For renewals, all of this information can be obtained from claims audit reports
- For new business, information might be obtainable from the client or the broker

Conclusion

Conclusion

- An exposure rate for an expected ECO/XPL loss can be constructed using a model which
 - is multiplicative,
 - can be divided into frequency and severity components,
 - and allows for the presence of interactions
- Potentially a good candidate for predictive modeling?
- Problems:
 - lack of data / coding of data
 - extreme values
 - Pareto distribution
- Will have to rely on less rigorous approaches to estimate parameters.



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