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Large Scale Analysis of Renewal Discounts for
P&C Insurance

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Agenda

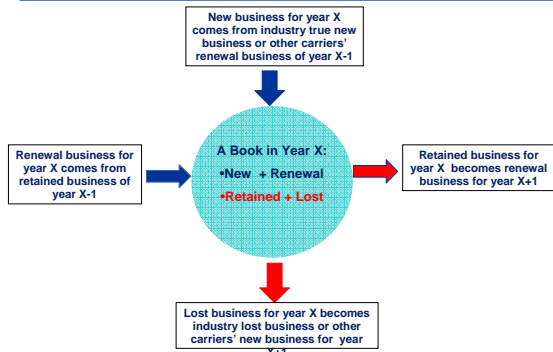
- Introduction
- Data
- Results and Discussions
- Conclusions
- Q&A

"Large Scale Analysis of Persistent and Renewal Discounts
for Property and Casualty Insurance," *CAS E-Forum*,
CAS, Pages 396-408, Winter, 2009

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Introduction - Dynamics of Insurance Business



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Introduction

- An underwriting and pricing topic with a long history:
 - Is it true that new business possesses a higher risk level than renewal business? If true, why?
 - Can or should the industry charge different prices between new and renewal business?
 - Insurance market has a wide variety of "explicit" or "implicit" underwriting and pricing measures to address the difference between new vs. renewal business:
 - Claim free discount
 - Loyalty credit
 - New business persistent discount
 - Accident and violation forgiveness for long time policyholders
 - ...etc.



Introduction

- Price differentiation between new and renewal business has caused debates in the past:
 - In California, persistency discount for personal auto has been a hot topic over the last decade. There was a cycle of banning the discount, lifting the ban, filing law suits and counter law suits
 - Different states have different regulations on new business surcharge or renewal business discount

State	Sample Responses from the Department of Insurance on New Business Surcharge or Renewal Business Discounts
AZ	There should be no difference in the premium that is charged between new business and renewal business if all the risk characteristics are the same
FL	It would be very unusual for companies to file a different price for new versus renewal.
NC	Does not prohibit difference for new and renewal business.
NY	We do allow renewal discounts and they are heavily used. These are often tied to "claim free" discounts.
OH	If a company provides support that there is a cost difference between new and renewal business then they can reflect the difference in their rates.
TX	There isn't anything that speaks directly to new business vs. renewal business for property and casualty insurance but any price difference between the two would be subject to the rate standards in the statutes.
WA	Renewal discounts are permitted in, as there is no statute or regulation prohibiting them



Introduction

- Prior researches:
 - Feldblum, 1990: Stable and persisting insureds are generally bringing in more profits to insurers
 - Conning & Company, 1988: New business loss ratio can be 10% to 30% higher than renewal business loss ratio
 - D'Arcy, 1989: As an insured stays longer with the same insurer, the insurer is able to obtain more information about the insured
 - D'Arcy, 1990: Renewal business in general exhibits continuing improvement in loss ratio
- Motivations of our research:
 - Try to answer the "Is It True" question
 - Also try to answer the "Why" question
 - Research supported by large amount of industry data as well external economic data



Performance Difference between New and Renewal Business

- For the true industry new business, such as first time drivers, first time home owners, or newly established business, it is expected that the risk quality is worse than average due to lack of experience
- For the new business that comes from other insurance carriers' lost business, their risk quality is poor as well:
 - Our result indicates that for insurance carriers, their lost business has higher loss ratios and worst financial scores than their retained business.
 - The reasons for the worse risk quality associated with the lost business may include poor risk quality associated with price shoppers, underwriting or pricing actions on poor risks, risks seeking lower prices before their price hikes take into effect, etc



Performance Difference between New and Renewal Business

- As a result, new business is worse than renewal business
 - New business has higher loss ratios
 - New business has worse retention
 - The worse performance for new business is across the board for all lines of business and for all companies
 - Royal and stable insureds are subsidizing transient and price shopping insureds
 - Renewal business discounts are justified by our research



Performance Difference between New and Renewal Business

- Other reasons for the performance difference may include "information gap" and lacking disciplines for new business pricing and underwriting:
 - Examples of information gap for new business include: not collecting prior loss information; not capturing underwriting data for new business electronically, not verification of new business' application data, etc.
 - Gathering more information for new business will be viewed as "unfriendly to do business"
 - Market driven pricing instead of exposure driven pricing for new business due to competition
- Insurance market seems to allow such subsidization and inefficiency.



Conclusions

- For P&C insurance carriers, new business performance is worse than renewal business
- The reasons why new business performance is worse:
 - First time insurance buyers are less experienced in dealing with managing their insurance risks
 - New business from other carriers' lost business typically have worse risk characteristics
- New business surcharge or renewal business discounts are justified. Our research further indicates that the longer an insureds stays with their insurers, the better their loss ratios (break even age is around 3 to 4 years)
- The performance difference between new vs. renewal can be minimized if the industry is enhancing its practice in collecting information for new business and pricing new business with discipline



Readers' Feedbacks

- *We have consistently seen similar results in our own data. Most of the effect is based on something intrinsic to the insured, rather than an underwriting or pricing action. We saw better retention for our best credit tiers prior to introducing it as a rating variable. Well over 90% of our attrition is customer-initiated.*
- *The "new business penalty" has become less pronounced in personal lines -- particularly in states with flexible rating laws. This may attribute the effect to the availability of more complete information that is now available, mainly due to widely available personal credit information and the expanded market share coverage of CLUE.*
- *One thing not captured in your data or discussion is the concept that new business is often / typically underpriced by design. Not everyone is willing to acknowledge that, but we see the effect over and over again. It makes perfect sense -- those who are less price sensitive are not looking for a new policy. Examples include:*
 - *Average schedule mod is always lower for newbiz -- in both hard markets and soft.*
 - *Use introduce new, aggressively priced programs for new business only*
 - *Rarely file the fully indicated "persistency discount" for long-term customers, because that is not the correct decision if the goal is to maximize profit*
 - *It is often the "correct" decision to price new business aggressively, because the marginal expense load for each new piece of business is often less than the overall expense load of the book (the whole "fixed v. variable expense" discussion).*



Readers' Feedbacks

- *Prior insurance can be further refined to be "Prior Bodily Injury Limits." Having previously purchased high BI limits can be a criteria for most preferred tier of a rating plan. Another way includes distinguishing between the types of carriers that the new business previously was insured with. Other prior insurance characteristics might include not-at-fault losses, lapses, and payment history.*
- *It is true that pure premiums are lower for renewal policies with otherwise similar characteristics. Even with a preferred company or preferred tier, pure premiums are lower for the renewal book. So the higher new business charge does not come from policyholders who have been terminated by their previous carrier, but because most preferred plans would define those policyholders as ineligible for coverage.*
- *Propensity to renew can be viewed as a valid characteristic in itself. Many of the variables we use for rating and tiering have no direct effect on driving performance. What these non-causal variables are is a proxy for "stability." Stability definitely correlates with lower loss costs. Propensity to renew is another proxy for stability, and it helps to segment a group that might not be recognized by other rating variables.*
- *Some companies will give renewal discounts. Others will give persistency discounts. But some get really creative in how they distribute those discounts, like accident forgiveness, which is a targeted renewal discount, the cutting edge of this issue is how to focus on specific segments of these populations, either to create a marketing campaign or to find the best of the subgroups and further segment based on identifying these low cost profiles.*



Q&A

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