Water Damage Risk and Canadian Property Insurance Pricing

A Canadian Institute of Actuaries Research Project

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Agenda

- Mandate of the CIA Research P&C Subcommittee
- Motivation for the research project
- Water Damage: Canadian Context
- Presentation of the Water Damage Risk report
- Lessons learned and next steps



Mandate of the Research P&C Subcommittee

- Act as a sub-committee of the CIA Research Committee, in order to:
 - Identify Property & Casualty related issues
 - Prioritize relevant and timely industry concerns
 - Engage stakeholders (Researchers, CIA members, CIA Research Committee)
 - Manage the research process
- Address gaps in Canadian-specific actuarial research
- Publish research that can be applied by actuaries in practice



Motivation for the Research Project

- Impact of water damage risk is an important issue for the Canadian P&C insurance industry.
- Reports had been written on water damage and climate change. They did not cover well the pricing perspective.
- The number of actuarial papers written on water damage pricing is very limited.
- Learn from a phase 1 report and potentially conduct a phase 2.



Water Damage: Canadian Context

- Homeowner Insurance rate manual and forms are not subject to regulator's approval.
- No formal statistical plan is available for property insurance. Industry detailed data is not available.
- Overland flooding is not covered on personal property policies. (No official government program is available)
- Auto insurance in Canada accounts for over 50% of incurred loss and slightly less than 45% in the U.S.



Lessons Learned

- Any quantitative/modeling exercise will be difficult: we anticipate very low appetite for sharing data on a phase 2
- Survey revealed that there might be a large gap between participating companies. Advanced methodologies are seen as a competitive advantage
- Lack of municipal infrastructure data or other « open source » data is a major road block.



Next Steps

 Leverage report and get decision makers attentions.

Follow outcome of the IBC MRAT project.

 Issue a call for papers: step by step approach to help the "lay actuary" price water damage risk and other related topics



Questions/Discussion

