

XVth GENERAL INSURANCE SEMINAR.

Evolution of the Industry



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Agenda

- Introduction
- Current Practice
- Methodology
- Example
- Conclusion



Introduction

- Claims handling expense assumption –
 How important is it?
- Why do a full expense analysis?
 - O/S Claims vs Premium Liabilities
 - Impact of changing claims experience
 - Dollar impact material
 - Simple ratio methods flawed
 - Understand claims handling process

Current Practice

- A range of methods used simple ratios to full analysis
- Analysis conducted quarterly to very infrequently
- Some companies employed the same expense loading across all classes
- Some companies employed the same loading for O/S claims and Premium Liabilities



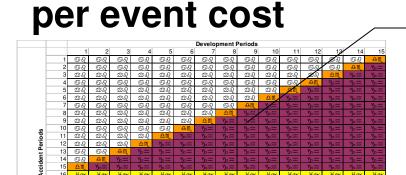
Current Practice (Cont')

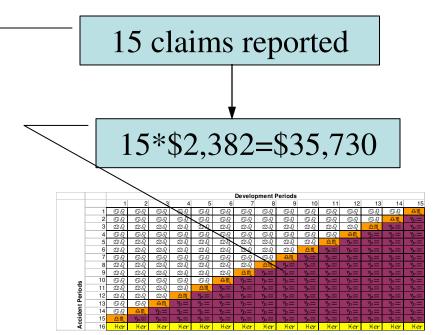
Claims Handling Expense Loadings (% of Gross Central Estimates)

Class of Business	Outstanding Claims Valuation		aluation	Premium Liability Valuation		
	High	Low	Average	High	Low	Average
Total	8.5%	4.3%	5.6%	9.4%	4.9%	7.0%
Domestic Short Tail	8.5%	4.5%	5.9%	10.6%	4.9%	7.4%
Commercial Short Tail	6.0%	2.0%	4.5%	6.8%	3.2%	5.3%
Long Tail	6.7%	4.2%	5.2%	8.3%	4.5%	6.2%

Methodology

 Projected claims handling expenses = number of future claim handling events x







Methodology (Cont')

- Define claim handling events
 - claims lodgement
 - claims finalisation
 - ongoing administration per open claim
- Collect Data
 - choose historical analysis period
 - fully allocated claims handling expenses
 - count number of past claim events
 - model the relative effort for each claim event

Methodology (Cont')

- Model the per event cost
 - per event cost = expenses incurred x relative effort for the event / count of events
- Project future claims handling expenses
 - project count of future events
 - projected future expenses = count of future events x per event expense
 - inflation and discounting
 - convert into expense loading





Methodology (Cont')

Challenges

- Fully allocated claims handling expense
- Modelling the relative effort for each type of claim event



Relative Effort

- List steps
- Estimate time & frequency
- Map to events
- No. of events for relative effort
- Reconcile

Event	Step	Time	Frequency	Effort	
Lodge	Receive initial claim call	3	90%	2.7	
Lodge	Receive initial claim letter	4	10%	0.4	
Lodge	Follow up call	5	10%	0.5	
Ongoing	Regular review of claim	90	250%	225	
Finalise	Pay claim	10	80%	8	
Finalise	Close claim file	15	100%	15	
	Total per claim			1800	min
	Lodge			720	min
	Ongoing			720	min
	Finalise			360	min

	Numbers	Effort	Relative Effort
Claims lodged	480	5,760	25%
Claims Open	1250	15,000	65%
Claims Finalised	375	2,250	10%
Total Effort expended		23,010	hours
Total Staff hours		24,742	hours
		93%	

Example

Example:	Hypothetical NSW CTP
Analysis period:	2002/03
Total gross claim payments:	\$172 million
Total historical claims handling expenses:	\$20 million
Ratio of claim expenses to payments:	11.70%
Relative effort spent on:	
processing claims reports	25%
processing claims finalisations	10%
ongoing administration of open claims	65%
Claims reported in analysis period:	2,099
Claims finalised in analysis period	3,125
Average number of claims open in period:	5,365
Expense per claim report:	\$2,382
Expense per claim finalisation:	\$640
Expense per claim open per development year:	\$2,423
Inflation rate	4% pa
Discount rate	5.25% pa

Example (Cont')

	Outstanding Claims	Premium Liability
Projected number of claim reports	1,186	941
Projected number of claim finalisations	6,037	941
Projected number of open claim years	11,344	1,989
Infl&Disc Projected reporting expenses	\$2.8 million	\$2.3 million
Infl&Disc Projected finalisation expenses	\$3.8 million	\$0.6 million
Infl&Disc Projected admin expenses	\$27.2 million	\$4.8 million
Total projected claim handling expenses	\$33.9 million	\$7.6 million
(infl & disc)		
Gross Central Estimate of future claim	\$747.1 million	\$83.4 million
payments (infl & disc)		
Claims Handling Expense loading	4.50%	9.10%
Per claim payment	\$123,800	\$88,600
Per claim expense	\$5,600	\$8,100



Conclusion

- Simple ratios method is flawed
- Difference between loading for O/S Claims vs Premium Liabilities
- Full analysis allows for changes in claims experience
- Consider differences between past and future experience
- Time variant factors
- Let's get excited!