



Australia & NZ

Disability Income Experience

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Australian & NZ Market

- Benefit is a monthly annuity style benefit whilst person remains disabled
- Benefit based on income at time of underwriting (generally to max of 75% replacement) and is taxable
- Majority (90%) is annual renewal business (age rated based on age at renewal)
- Non-guaranteed rates
- Full offset if person earns income whilst disabled
- Agreed Value and Indemnity benefits are available

Australian & NZ Market


- Most common deferment periods are 30 and 90 day
- Benefit period is generally to Age 65, but 2 and 5 year periods also common for blue collar workers
- Many extras added :
 - Hospital benefit (pays benefit whilst in hospital during deferment period)
 - Rehabilitation benefits
 - Payment of minimum benefit period on certain accidents / illnesses

IAD 89-93 Standard Table

- Experience Reports for Australia and New Zealand are done on basis of comparing actual results to a standard table – IAD89-93
- IAD89-93 developed by the IAAust based on the Australian disability income experience for this period
- Incidence rates graduated by age/sex and 4 occupation classes
- Termination rates based on % of the US CIDA85 termination rate tables

IAD 89-93 Standard Table

- 4 Occupation classes
 - A : Professional and white collar
 - B : Other sedentary (light manual technical)
 - C : Light Manual (qualified trades persons)
 - D : Moderate to Heavy Manual



Australian Experience

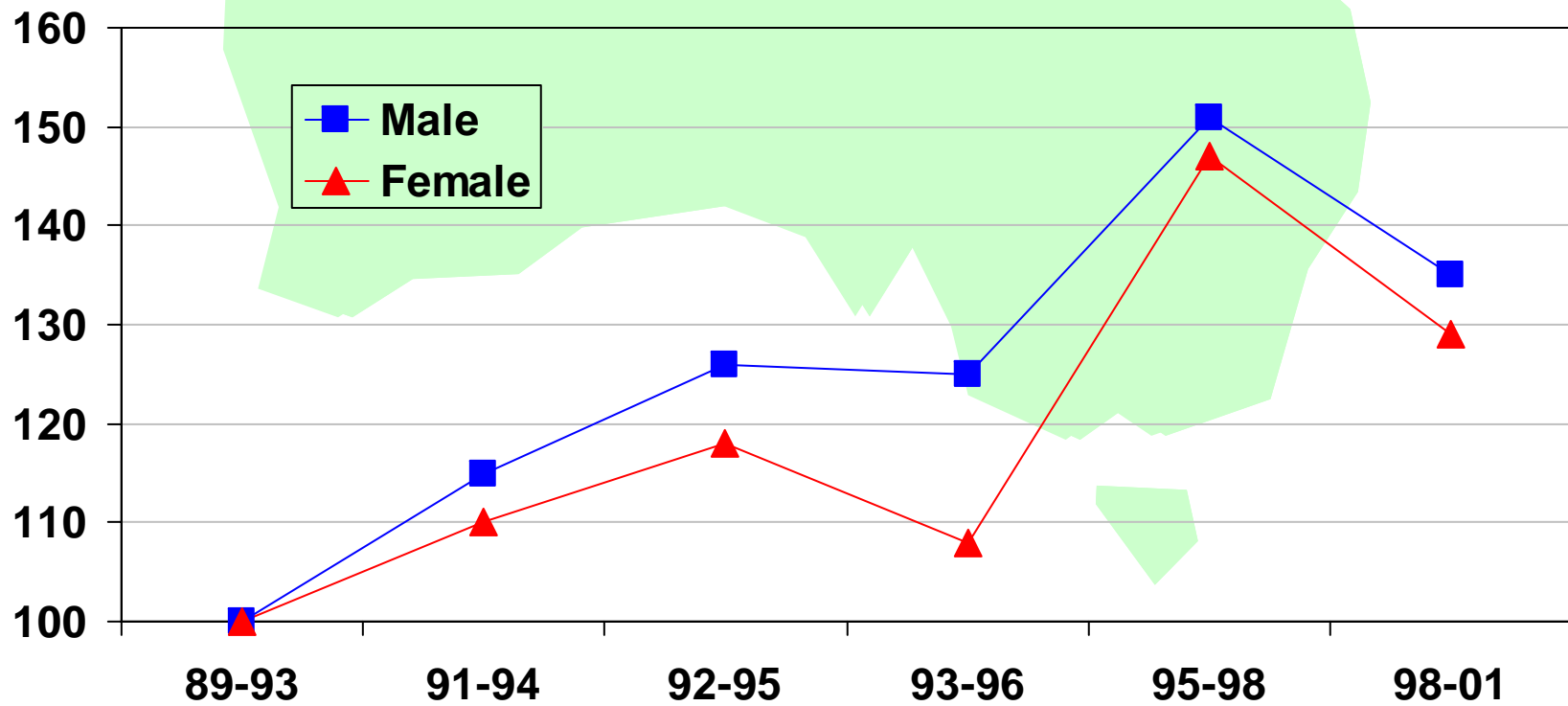
- **WARNING**

Experience results presented for Australia are preliminary. A final report has been written but is not yet published. Generally, the final report results show slightly more favourable trends than those indicated in this paper.

Australia – Latest Experience

Experience – Trends

Claim cost in first 3 years of claim : 1 mth deferment



Australia – Latest Experience

Incidence Experience - Males

Incidence Rates - % of IAD89-93 Preliminary results for continuing companies only

Males

Occ Class	2 week deferment		1 month Deferment	
	95-98	98-01	95-98	98-01
A	100%	73%	105%	78%
B	94%	81%	101%	97%
C	96%	83%	109%	105%
D	94%	73%	113%	108%
All	96%	78%	108%	97%

Australia – Latest Experience

Incidence Experience - Females

Incidence Rates - % of IAD89-93 Preliminary results for continuing companies only

Females

Occ Class	2 week deferment		1 month Deferment	
	95-98	98-01	95-98	98-01
A	96%	72%	97%	73%
B	101%	96%	97%	79%
C	93%	83%	93%	78%
D	90%	73%	84%	53%
All	95%	74%	96%	74%

Australia – Latest Experience

Occupation Relativities

Preliminary results for continuing companies only

Weighted Average Incidence Rates as % Male Class A

	2 weeks	1 month
male B	150% (156%)	175% (156%)
male C	238% (243%)	379% (320%)
male D	237% (273%)	438% (379%)

Weighted Average Incidence Rates as % Female Class A

	2 weeks	1 month
female B	154% (138%)	136% (134%)
female C	141% (164%)	189% (157%)
female D	146% (176%)	142% (174%)

Australia – Latest Experience

Amount vs Number of Claims

Preliminary results for continuing companies only

Ratio of A/E amounts versus A/E number for Incidence of Claim

Occ Class	MALE	FEMALE
A	108%	108%
B	104%	104%
C	109%	112%
D	113%	117%

Australia – Latest Experience

Termination Rates

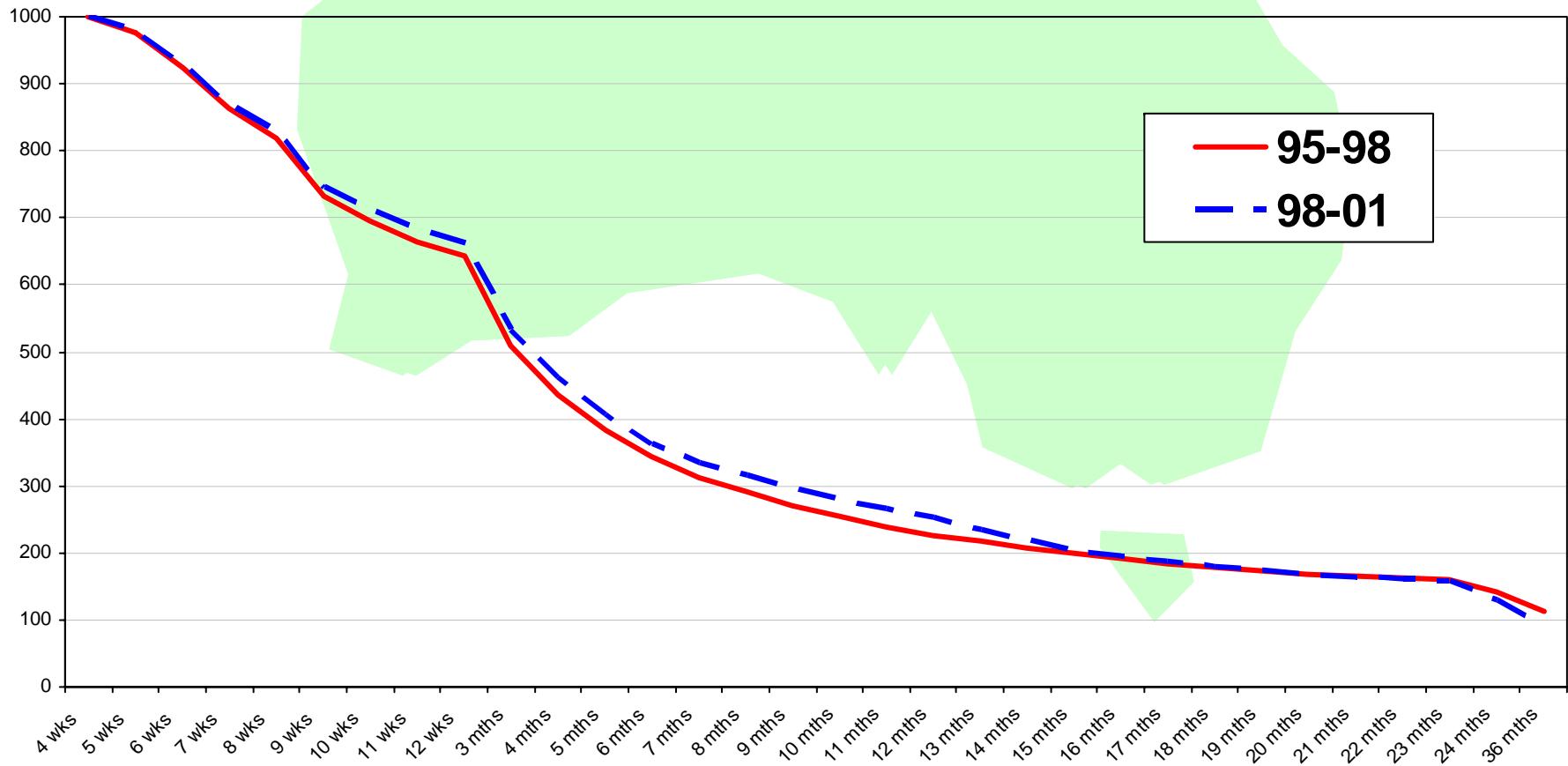
Preliminary results for continuing companies only

Ratio of A/E Number of Terminations

Occ Class	MALE		FEMALE	
	95-98	98-01	95-98	98-01
A	81%	81%	77%	80%
B	73%	77%	72%	74%
C	84%	88%	77%	77%
D	88%	84%	72%	64%

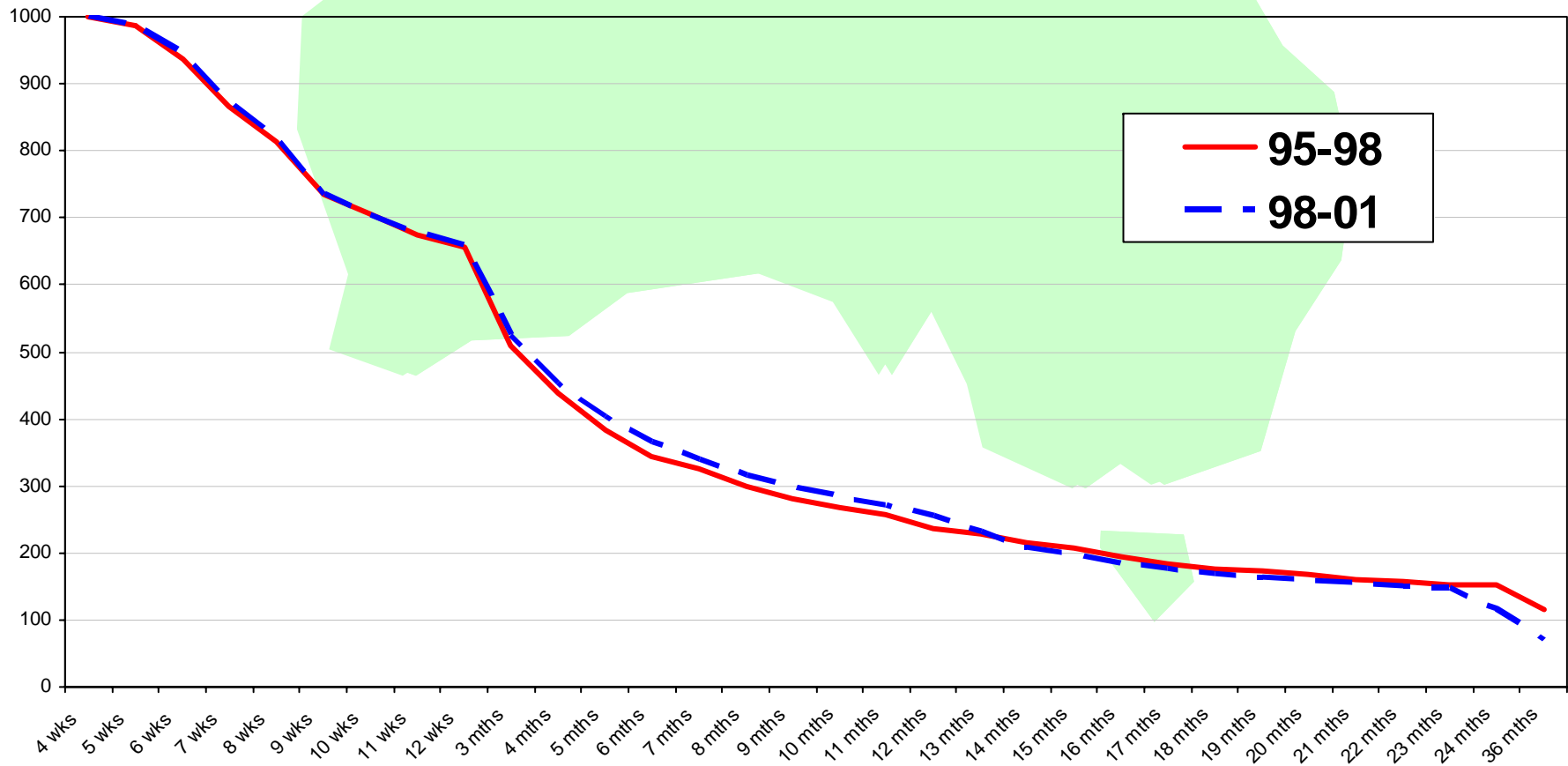
Australia – Latest Experience

Termination Rates – Male: Occ A: 1 mth deferment



Australia – Latest Experience

Termination Rates – Female: Occ A: 1 mth deferment



Australia – Latest Experience

Termination Rates

Preliminary results for continuing companies only

Actual Termination Rates of Claim by duration of claim

Termination Rate	95-98		98-01		Ratio	
	Male	Female	Male	Female	Male	Female
Mths 1 to 3	0.491	0.490	0.468	0.475	95%	97%
Mths 4 to 6	0.326	0.327	0.318	0.307	97%	94%
Mths 7 to 12	0.341	0.315	0.303	0.299	89%	95%
Mths 13 to 24	0.372	0.353	0.494	0.549	133%	155%
Mths 25 to 36	0.197	0.243	0.313	0.383	158%	157%

Australia – Latest Experience

Amount vs Number of Terminations

Preliminary results for continuing companies only

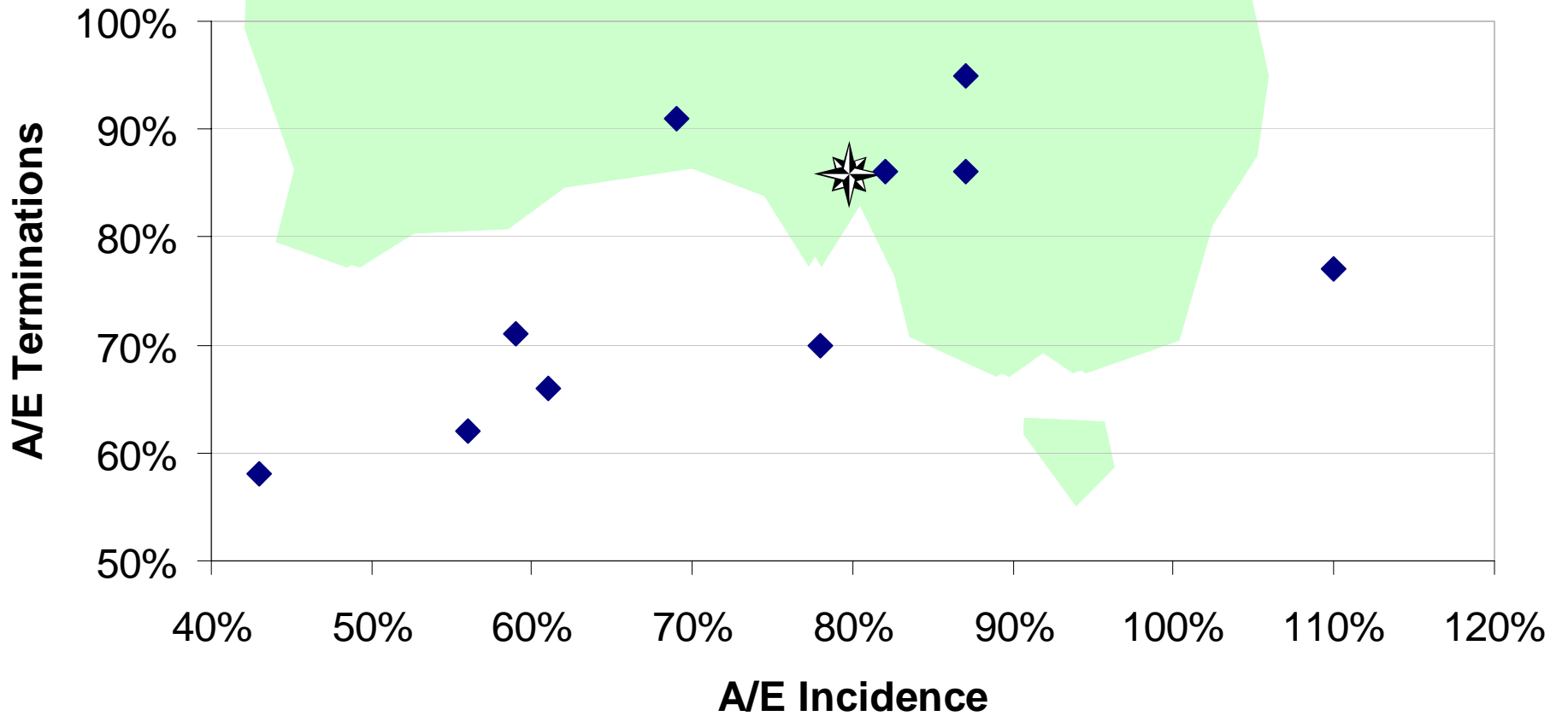
Ratio of A/E amounts versus A/E number for Termination Rates of Claim

Occ Class	MALE	FEMALE
A	96%	98%
B	95%	95%
C	95%	95%
D	93%	97%

Australia – Latest Experience

Variation in Experience by Company

Preliminary results

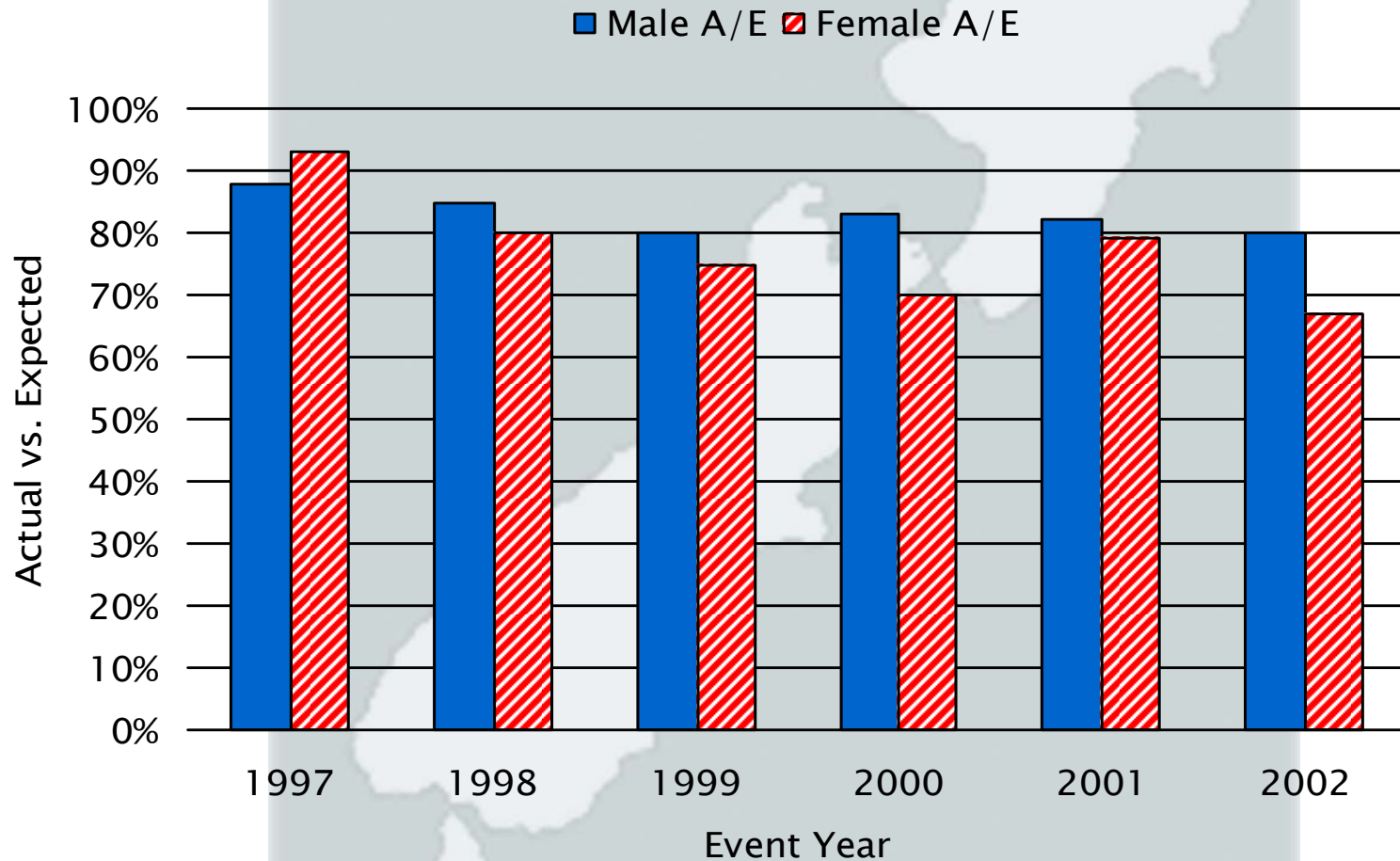


Summary for Australia

- Experience has improved significantly
 - Driven by lower incidence experience (although there are concerns about the quality of some of the data)
- Termination rates during first year of claim continue to deteriorate, however, this is being compensated by better termination rates at later durations
- Incidence and termination rates by amounts are worse than by number (total claims cost by amounts about 15% higher than by number), need to be careful in setting pricing and reserving assumptions – especially for reinsurers on a surplus basis

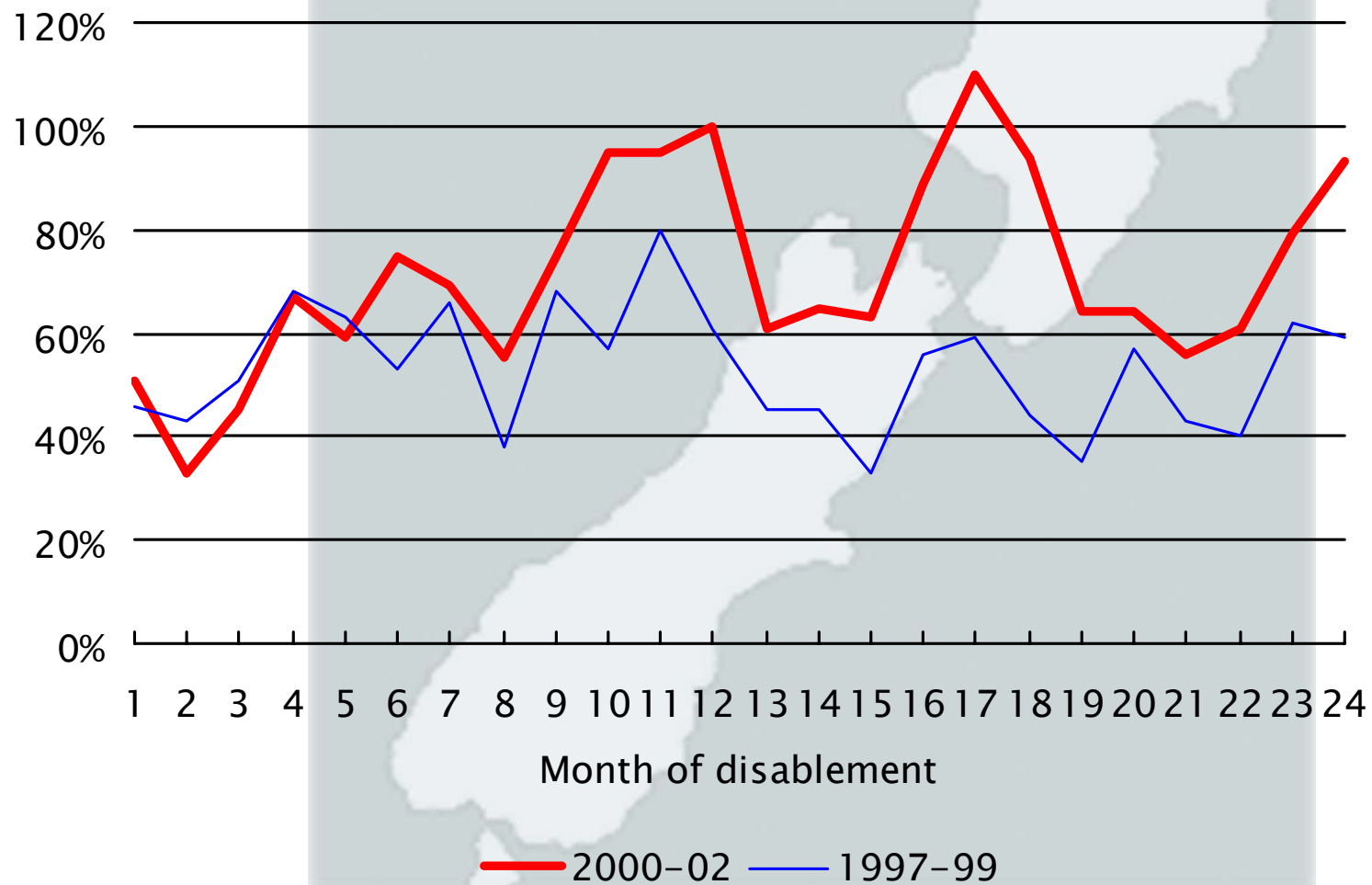
New Zealand – Latest Observed Experience

Incidence Rate Experience



New Zealand – Latest Observed Experience

Termination Rate Experience



New Zealand – Latest Observed Experience

Claim Duration Experience

Ratio (%) of actual to expected claim length by deferment period and investigation period

Deferment Period	1997–99	2000–02
30–days	169	146
90–days	146	132

Ratio (%) of actual to expected claim length by occupation class and investigation period

Occupation Class	1997–99	2000–02
White-collar	168	141
Blue-collar	154	140

New Zealand – Latest Observed Experience



- Important feature of NZ Experience is the interaction with the government accident compensation scheme (ACC)
- ACC provides benefit up to 80% of taxable salary (with maximum dollar cap) in event a person is injured and unable to work
- Covers most forms of accidental injury (work and outside work) and can sometimes overlap with what would normally be considered a sickness

New Zealand – Latest Observed Experience

Paid ratio (%) by cause of claim and investigation period

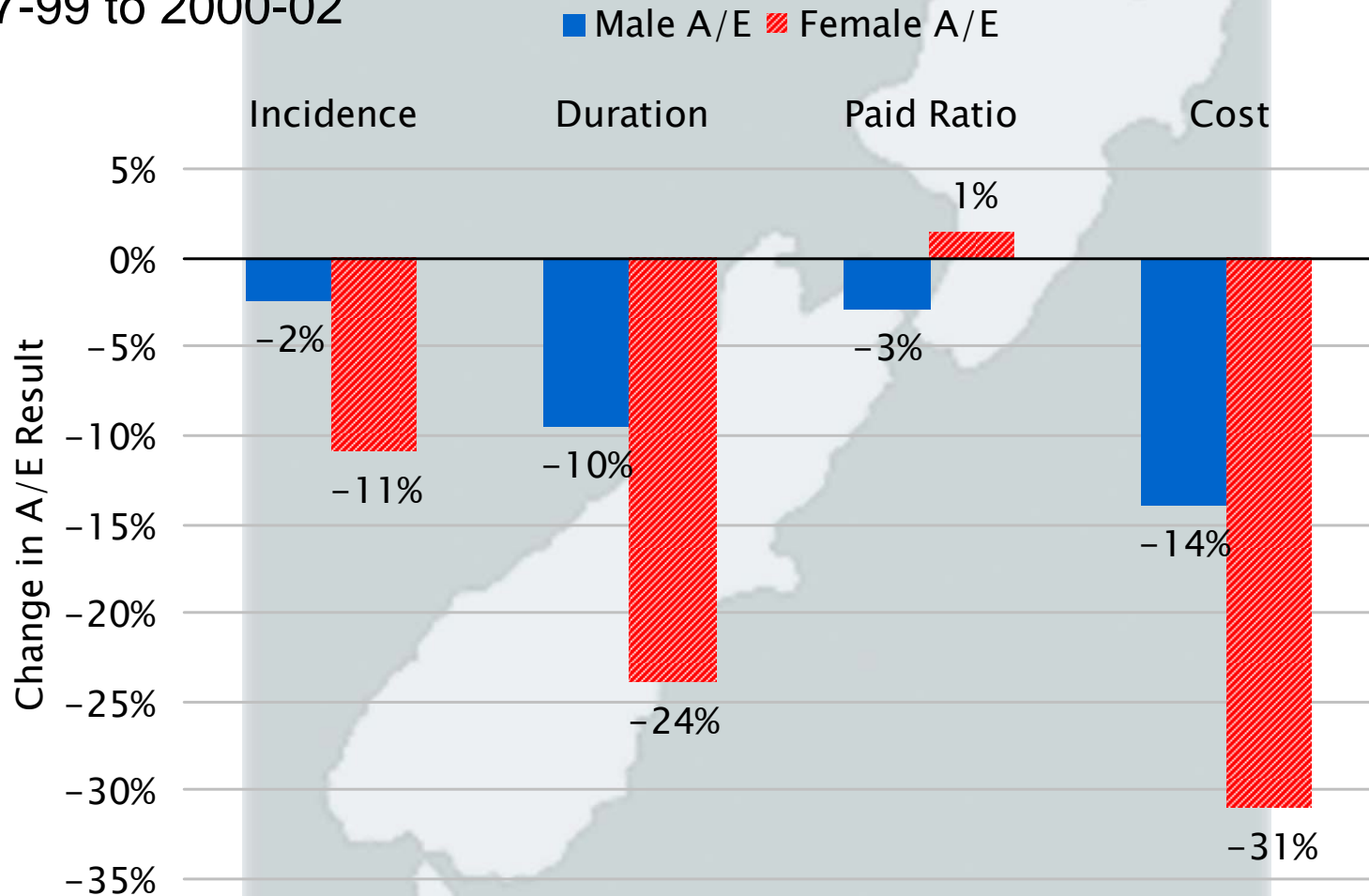
Cause of Claim	1997-99	2000-02
Accident	52	43
Sickness	79	81
All	72	70

Paid ratio by claim cause and occupation class in 2000-02

Occupation Class	Accident	Sickness	Total
A	41	83	76
B	43	82	74
C	57	76	71
D	43	80	63
E	44	77	60

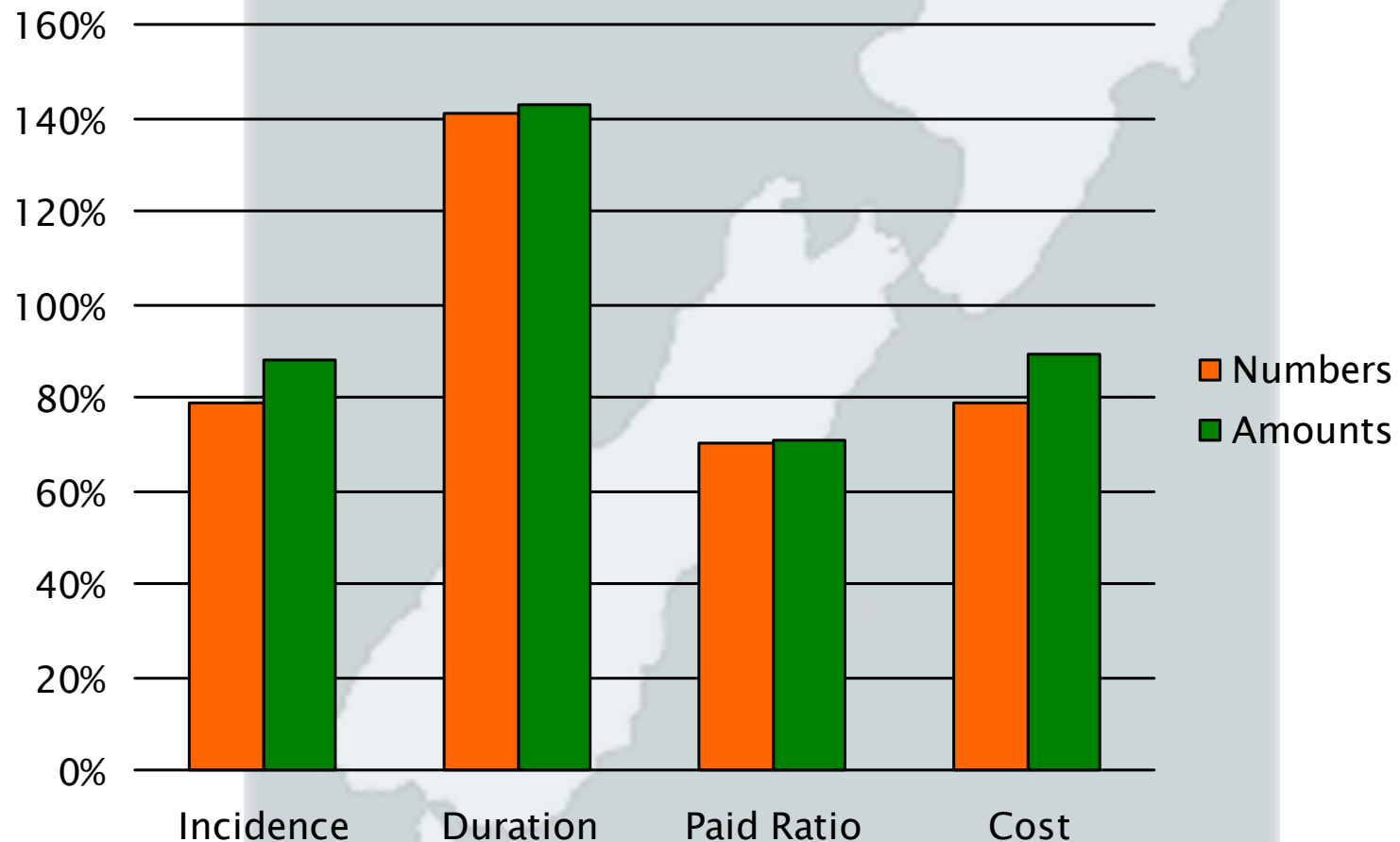
New Zealand – Latest Observed Experience

Contribution of each component to total change in claim cost from 1997-99 to 2000-02



New Zealand – Latest Observed Experience

Comparison of ratios (%) of actual to expected results in 2000-02 weighted by numbers and amounts



New Zealand – Latest Observed Experience

Warning: smoking hazardous to your health

Ratio (%) of actual to expected incidence for smokers over non-smokers in 2000-02

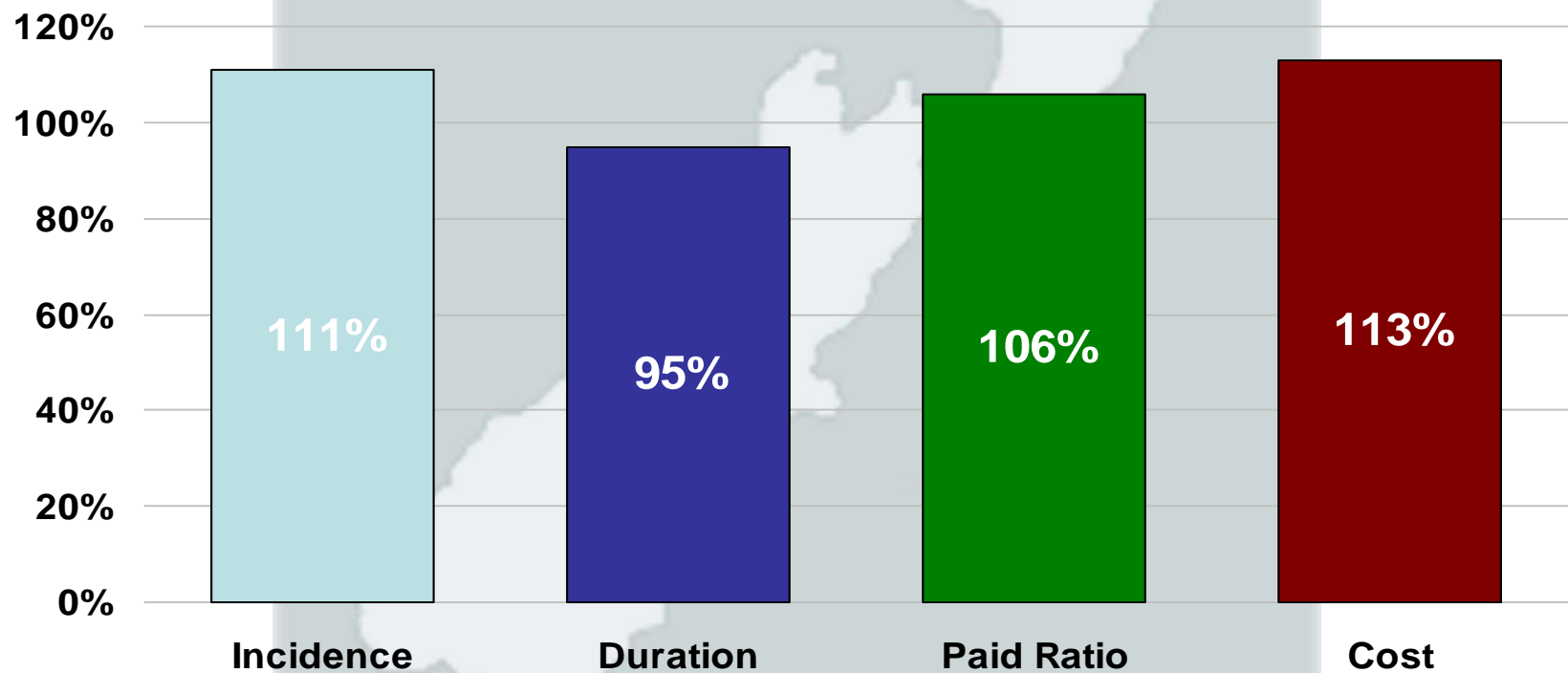
Occupation Class	Male	Female	All
White-collar	142 (13)	135 (16)	138 (10)
Blue-collar	123 (10)	117 (31)	122 (10)
All Occupation Classes	122 (7)	129 (14)	124 (6)

Ratio (%) of actual to expected claim cost for smokers over non-smokers in 2000-02

Occupation Class	Male	Female	All
White-collar	143	123	134
Blue-collar	132	123	131
All Occupation Classes	124	121	123

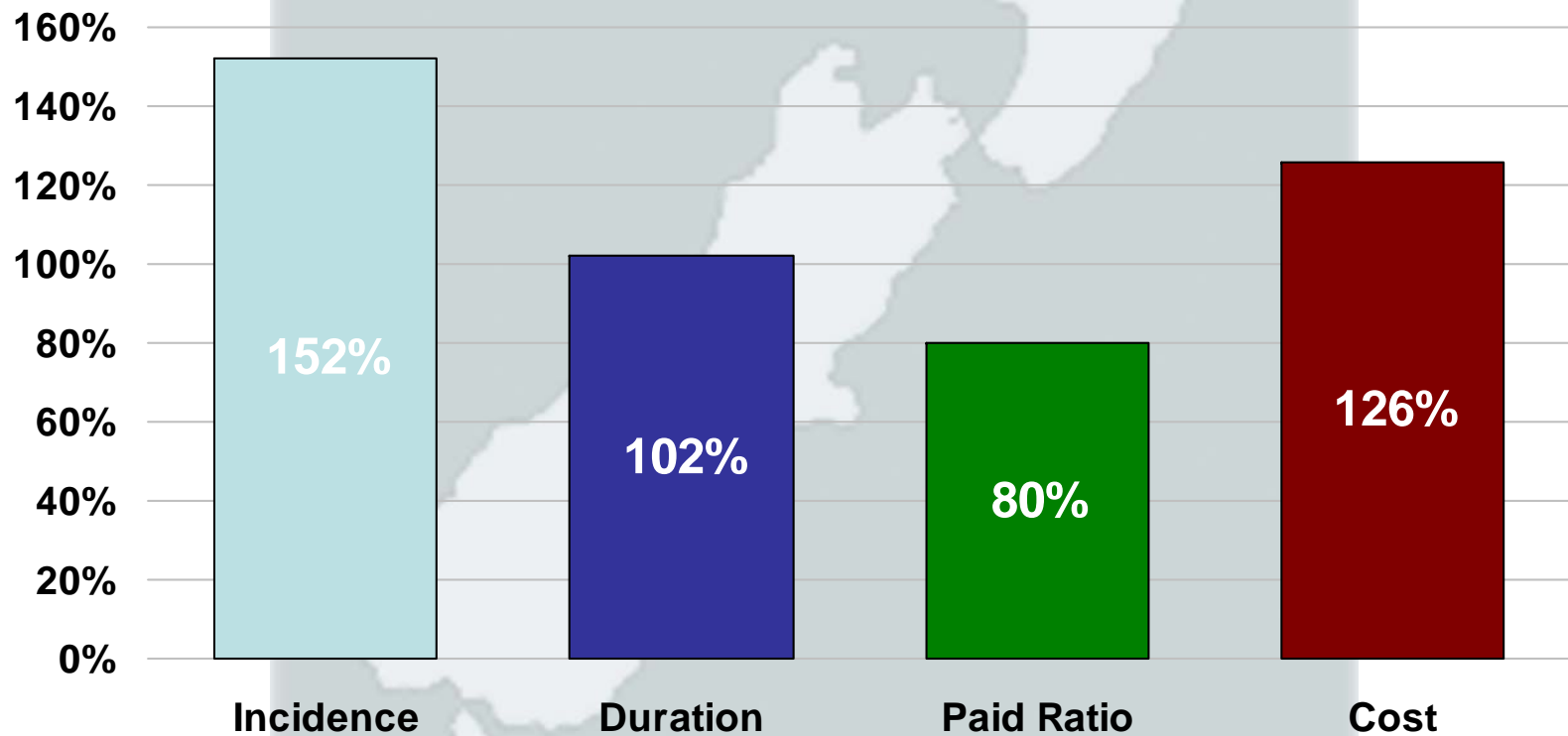
New Zealand – Latest Observed Experience

Agreed Value benefits versus Indemnity



New Zealand – Latest Observed Experience

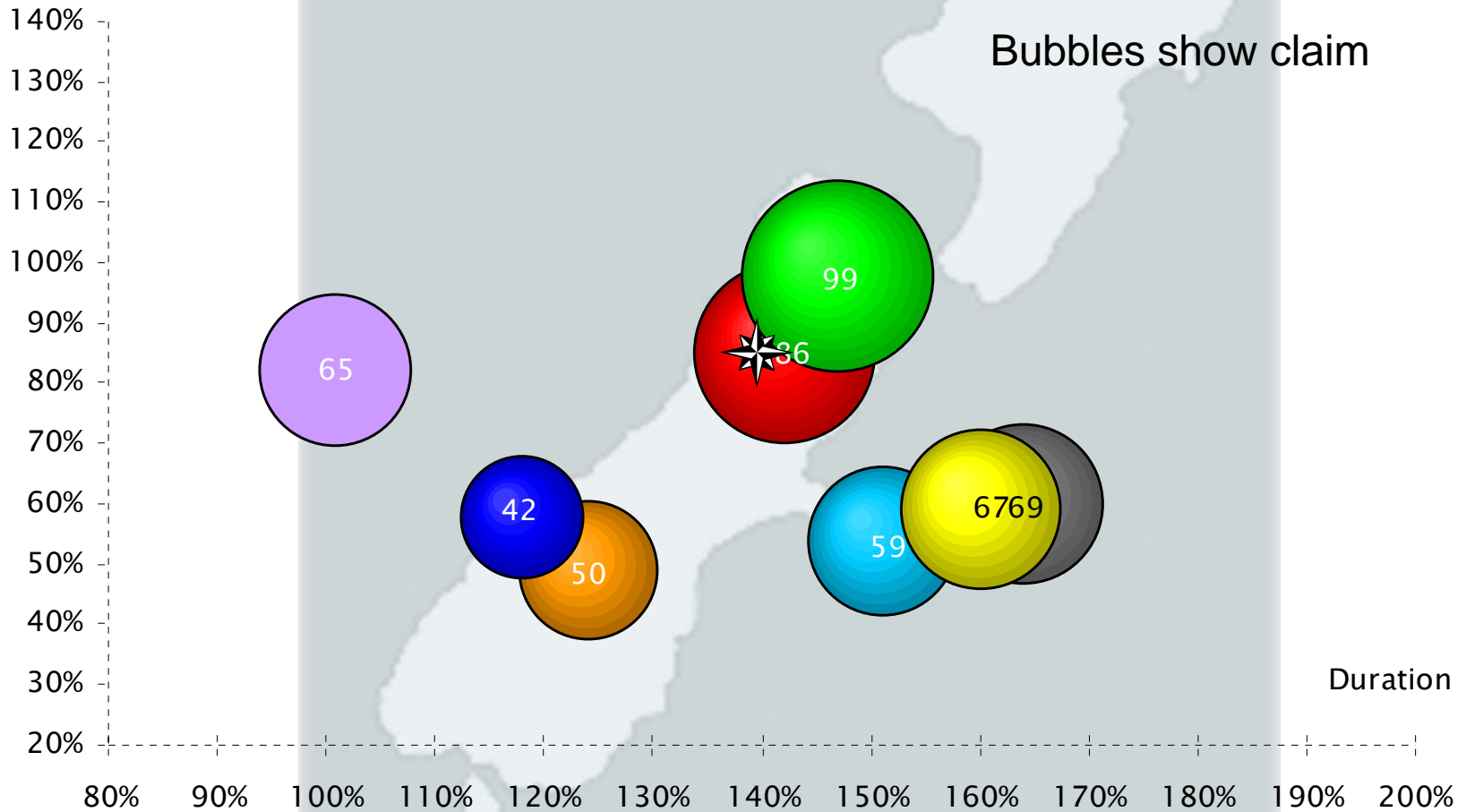
Self-employed versus Employed



New Zealand – Latest Observed Experience

Variation in experience by company

Incidence



Summary for New Zealand

- Experience has improved
 - Driven by increased termination rates
- Difference between self-employed and employee can be an important rating variable – is just as important as smoker status
- Incidence and termination rates by amounts are worse than by number, need to be careful in setting pricing and reserving assumptions – especially for reinsurers on a surplus basis
- Experience varies greatly by company