Atlantic Private Passenger Vehicles - Industry

Calculation of the Number of Claims for full Credibility Standards

Data Value as of 31 December, 2003.

Coverage	Acc. Year	Severity Mean	Severity Variance	Severity Variance / Mean2	Probability of Counts within Confidence Interval	Normal Distribution Value	К	Indicated Std. for Full Credibility	Selected Std. for Full Credibility	Selected 1,082 Multiplier
Bodily Injury	1999	33,181	4,540,950,571	4.12						
,,	2000	31,616	3,108,410,601	3.11						
	2001	29,584	2,758,383,048	3.15						
	Selected	Avg. 99-01	, , ,	3.46	95%	1.960	0.1046	1,567	2,164	2.00
Property Damage	1999	2,359	25,524,303	4.59						
	2000	2,428	12,655,980	2.15						
	2001	2,592	15,304,329	2.28						
	Selected	Avg. 99-01 excl	. >\$300K	2.37	95%	1.960	0.1046	1,185	1,082	1.00
Third Party Liability	1999	12,537	1,707,181,159	10.86						
	2000	12,659	1,287,212,131	8.03						
	2001	12,496	1,189,078,332	7.61						
	Selected	Avg. 99-01		8.84	95%	1.960	0.1046	3,455	3,246	3.00
Collision	1999	2,525	13,263,243	2.08						
	2000	2,741	15,820,921	2.11						
	2001	2,786	15,952,748	2.06						
	Selected	Avg. 99-01		2.08	95%	1.960	0.1046	1,082	1,082	1.00
Comprehensive	1999	713	2,970,217	5.85		•				
•	2000	818	3,769,293	5.63						
	2001	830	3,688,215	5.35						
	Selected	Avg. 99-01		5.61	95%	1.960	0.1046	2,321	2,164	2.00

Notes:

Full Credibility Standard for Collision is set at 1,082,

Credibility Standards for other coverages are calculated based on Collision.

For Normal Distribution, the value of 1.96 corresponds to 97.5% probability (two tails)

K calculated based on the formula : Full Cred. Std. = (Normal Dist. Value/K)^2 X (1+Var./Mean^2)

K is solved for using Collision severity's Var./Mean^2, and is used by other coverages