Atlantic Commercial Vehicles - Industry

Calculation of the Number of Claims for full Credibility Standards

Data Value as of 31 December, 2003.

Bodily Injury 1999 37,541 6,320,309,825 4.48	
2000 32,194 4,029,447,697 3.89	
2001 37,297 10,798,038,836 7.76	2.00
Selected Avg. 99-01 5.38 95% 1.960 0.1044 2,248 2,164 2.	2.00
Property Damage 1999 2,959 66,287,292 7.57	
2000 3,274 118,585,263 11.06	
2001 3,691 462,422,876 33.94	
Selected Avg. 99-01 excl. >\$500K 7.55 95% 1.960 0.1044 3,013 3,246 3.	3.00
Third Party Liability 1999 11,617 1,879,283,159 13.92	
2000 11,006 1,333,278,080 11.01	
2001 13,573 3,653,179,592 19.83	
Selected Avg. 99-01 14.92 95% 1.960 0.1044 5,612 5,410 5.	5.00
Collision 1999 3,310 24,968,572 2.28	
2000 3,281 21,580,760 2.00	
2001 3,518 23,831,585 1.93	
Selected Avg. 99-01 2.07 95% 1.960 0.1044 1,082 1,082 1.	1.00
Comprehensive 1999 777 5,110,093 8.46	
2000 882 5,838,934 7.51	
2001 1,103 26,892,656 22.11	
Selected Avg. 99-00 7.99 95% 1.960 0.1044 3,167 3,246 3.	3.00

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