

## NO-CLAIM DISCOUNT OR BONUS/MALUS SYSTEMS IN EUROPE

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### BIOGRAPHY

Mr Whitehead is a consultant in the Paris, France. He has previously worked as a consultant in Bermuda and in London. He holds an MBA from the IMI in Geneva and a BA in Actuarial Studies from Macquarie University in Sydney, Australia. Mr Whitehead's consulting experience has concentrated on loss reserve reviews, particularly for reinsurance and captive insurance companies, and on appraisal valuations for property and casualty insurance companies subject to merger or acquisition. Mr Whitehead is a Fellow of the Institutes of Actuaries (London) and of Australia, a Fellow of the Casualty Actuarial Society and a Member of the American Academy of Actuaries.

### ABSTRACT

The paper introduces bonus/malus systems by briefly describing six of the systems which currently operate in Europe. The systems and their basis of operation vary widely among the six examples given.

Simple spreadsheet models of these six systems are used to illustrate the workings of these systems and the results are compared. It is evident that in some markets, the bonus/malus system is more of a marketing than a rating tool, while in others the premium rating basis relies heavily on the bonus/malus system for the determination of appropriate rates. The more "efficient" systems (e.g., the Swiss system) which produce premiums for each risk group more in line with the exposure of that risk group tend to be those in which the premium paid by an individual is more affected by the random timing of claims over say a 10 year experience period. The equity of the risk group is traded off against the equity of the individual.

In the context of a common market in Europe which will affect five of the six systems reviewed, the question of the implications of such market harmonization is raised.

WHAT ARE THEY

The "No-Claims Discount System" (in the UK, Australia\*, etc.) and the "Bonus/Malus Systems" (continental Europe) refer to methods used to determine premium reductions or loadings on individual private passenger automobile policies based on the claims experience of the individual insured.

For simplicity, the systems will be described as "Bonus/Malus Systems" in this paper.

WHAT THIS PAPER IS NOT

This paper is NOT intended to present a rigorous mathematical analysis of the theoretical validity of the various bonus/malus systems in use in Europe.

The methods of analysis avoid complications and subtleties which, although perhaps theoretically justified, would add little to this paper.

WHAT THIS PAPER IS

The paper first briefly describes the various systems in use in various European countries.

The paper is intended to be simple, direct and concise. Analysis focusses on the broader implications of the use of such systems - for example, in modelling the experience of a portfolio of policies, each policy in a class is assumed to be subject to the same claims frequency, and a binomial distribution (i.e.,

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\* I do realise that, except within Tillinghast's management structure, Australia is generally NOT considered part of Europe.

either there is no claim or there is one claim in a given year for each policy) is used whereas a Poisson distribution would probably be more "correct" in allowing for the possibility of more than one claim on a single policy in a given year. For the purposes of this paper, the impact of the simplifying assumption is not great and would only serve to distract the reader from the intended purpose of the analysis.

#### WHAT DOES THE PAPER ADDRESS?

##### **THE NATURE OF THE VARIOUS SYSTEMS IN USE**

The paper describes and analyses six systems of premium loading and/or discount applied to private automobile premiums based on the individual insured's claims experience

There are various "dimensions" of the bonus/malus systems which need to be recognised in order to appreciate the functioning and impact of the systems. These dimensions include the following:-

1. The system applies to claims reported to the insurer and not accidents per se - in effect, the potential penalty (loss of bonus or increased malus, often over several years in the future) acts as a deductible since the insured often has control as to whether to pay for the damages directly or to declare the claim and suffer the penalty. This applies essentially to the less severe accidents.
  
2. The systems relate to the experience of the insured vehicle on the individual's automobile policy, but the accrued bonus "belongs" to the policyholder! In Europe, multiple-vehicle insurance polices are almost

unknown in the private passengers automobile insurance markets. Typically, an insurance policy issued in the name of the insured will pertain to an identified vehicle. Depending on the country, the policy MAY also cover:-

- ▶ Other (named) drivers on the same policy for the "insured vehicle" only. Coverage may be limited to the insured's spouse, the insured's immediate family, or to drivers specifically listed on the policy.
  - ▶ Other vehicles, including rental vehicles, for the named insured(s) only. The policy of the owner of a borrowed vehicle would generally be the primary policy.
3. The systems generally apply only to the private passenger automobile markets. Rates for commercial vehicles and for fleets tend to be more flexible and subject to negotiation, often with more complicated experience rating plans available.
4. The discount (bonus) or loading (malus) resulting from the system may be applied to:
- ▶ the total premium
  - ▶ only the Third Party Liability component of the premium
  - ▶ only the Physical Damage component of the premium

In some countries, specific elements of premium are not subject to the discount/loading because claims arising from the corresponding insured peril do not lead to any penalty (for example, claims for windscreen damage often do not affect the accrued bonus, and the corresponding premium is not adjusted under the bonus/malus system).

- ▶ Generally, the discount or loading is applied after other relevant rating factors have been taken into account - i.e., after age and sex of driver, geographical location, type and age of vehicle, etc. have been taken into account. However, some of the systems are applied to a relatively unsophisticated premium rating base.
  - ▶ The discount or loading is generally expressed as a percentage of the full "standard" premium. No attempt is made, for example, to identify the underlying risk premium and to apply the premium modification to that component only.
  - ▶ Insured's on the highest level of bonus may have the option, after a set number of years in that class, to "protect" their level of bonus by paying an additional premium. Under such systems, a limited number of claims can be made against the "protected" policy without prejudicing the insured's bonus level. Effectively, the additional premium is being used to "buy out" the implicit deductible imposed by the application of the standard bonus/malus system.
5. The question as to whether the system is required to be applied under the relevant laws or regulations; whether it is applied universally on a

voluntary basis by insurers; or whether it is applied on an ad hoc basis by individual insurers.

#### **EQUITY REGARDING POLICYHOLDERS**

Equity, in the sense of "fairness", with regard to the various policyholders within the system can be considered at various levels:-

1. For the individual insured

- ▶ credibility - a bonus/malus system is an experience rating system based on the individual insured's claims experience (frequency, not severity). In the paper by Bailey and Simon<sup>1</sup> which studied the experience of the Canadian Merit Rating Plan, the authors concluded that "experience for one car for one year has significant and measurable credibility for experience rating", however, that "in a highly refined private passenger rating classification system which reflects the inherent hazard, there would not be much accuracy in an individual risk merit rating plan".

Indeed, if the risk classification plan were perfect in allocating insureds into classes with homogeneous inherent risk levels, there would be no theoretical justification for a bonus/malus system.

Two (UK, French) of the plans reviewed in this paper are applied to a premium which reflects many other rating factors (age and sex of driver, type and age of vehicle, geographical location, nature of use, etc.) and two others (Dutch, Italian) use premiums reflecting four rating factors. It is questionable whether these systems (particularly the French and UK ones) are really intended to

differentiate among insureds with inherently different risk levels as opposed to serving a primarily marketing or political need of appearing to give the individual insured credit for his own driving experience in an equitable manner, and introducing a hidden deductible.

- ▶ control - when the underlying risk is such that the average annual frequency of claim for a unit of exposure is of the order of 10% to 15% (the typical annual claims frequency on private passenger automobile policies in Europe where bonus/malus systems operate), it is evident that the actual timing of a claim for an individual is largely determined by chance. Whether the first (if any) claim occurs in the first year or the fifth or the tenth year of driving (assuming that the inherent risk of a claim remains level) is largely out of the individual's control. This being the case, it would appear unfair to penalise an individual severely based on the fortuitous timing of a claim. This argument can be extended to ask whether it is "fair" to penalise a driver due to the chance happening of zero, or one, or two, ... claims in a given experience period.

For example, consider the percentage of insureds in four sub-classes (each with constant claim frequencies of 5%, 10%, 15% and 30% respectively) who are expected to have zero, one, two, ... claims over a ten year period. The table below shows the values for up to three claims:

**PERCENTAGE OF INSURED WITH EXACTLY N CLAIMS IN 10 YEARS**

| Number of<br>Claims, N | ----- Annual Frequency of Claim ----- |     |     |     |
|------------------------|---------------------------------------|-----|-----|-----|
|                        | 5%                                    | 10% | 15% | 30% |
| 0                      | 60%                                   | 35% | 20% | 3%  |
| 1                      | 32%                                   | 39% | 35% | 12% |
| 2                      | 7%                                    | 19% | 28% | 23% |
| 3                      | 1%                                    | 6%  | 13% | 27% |
| 3+                     | -                                     | 1%  | 4%  | 35% |

From this table, over the range of claim frequency within which most insureds would fall, the dominance of the "chance" element of having 0, 1, 2 or perhaps even 3 claims over a 10 year period is self-evident.

- ▶ changes in inherent risk over time - the typical "life-cycle" of an insured with respect of individual private passenger automobile insurance is for the level of inherent risk to decline as the age of the insured and his level of driving experience and competence increase (at least until a relatively advanced age). (An exception to this in terms of the exposure under an individual policy is the increase in inherent risk as the children of the insured reach driving age and use the parent's vehicle (and insurance coverage!).) Is it fair for an individual who has an accident while part of a high risk group (where, as a young, inexperienced driver he may be "expected" to make a claim, and is paying a premium to reflect this) to be penalised several years later when he has been re-classified into a lower risk group (by virtue of increased age, years of driving experience and, perhaps, marital status and type of vehicle)?

2. For a "cohort" of insureds

A "cohort" of insureds consists of a cross-section of the insured population at a given point in time (as contrasted with a "generation" as described below). For example, a cohort may consist of a rating class during a given period.

- ▶ credibility - if a cohort is sufficiently large, the credibility afforded the experience of the class will be relatively high. On a collective basis, it is possible to evaluate the responsiveness of the aggregate premiums charged to a cohort from one year to the next compared with the relative level of actual claims against expected claims.
  
- ▶ membership - over the past decade in the US, there has been much debate of rating factors used to determine automobile insurance rates. The debate usually is trying to identify "appropriate" rating factors, by balancing those indicated as statistically sound against those which are socially acceptable. Membership of a rating class (or cohort) is often beyond the insured's control (e.g., sex, age) and it has often been argued that it is unfair to rate on such uncontrollable factors. It is interesting to note that by denying the ability to use statistically sound rating factors which, a priori, are fair to members of the various classes, an action intended to reduce discrimination against the individual will only serve to increase the inequity of the resulting system when viewed from the individual's perspective. (The Belgian Controlling Authority's attitude noted below may fall into this category.)

### 3. For a "generation" of policyholders

In the previous section, a cohort was identified as a cross-section of the insured population at a given point in time. Another view of the population is to trace the premiums paid by a "generation" of policyholders, for example, by evaluating over an extended period (say 10 to 20 years) the experience of a group of policyholders who enter the system during a given year. Such analysis may be described as using a "generation" approach. A given system may have a very different level of equity when viewed from a generation perspective compared with that of a cohort.

### 4. The Test of Fairness for the Individual Insured

In order to consider the fairness of a system, the analysis has tried to identify how differently the same insured would be treated if his claims experience varies in a manner which is solely due to chance. Ideally, two identical risks should pay the same premium over an extended experience period during which the only factor affecting claims experience is the random timing of claims. Starting from a base year 0, the premiums paid by an individual over a 10 year period is calculated under six claims experience scenarios - no claims; one claim in the base year; and four different patterns of three claims in years 0 through 9. The difference in the premium paid for the first two scenarios is an estimate of the implicit deductible imposed by the system for an insured in the selected initial bonus grade. (Note that the level of the implicit deductible varies with the current bonus grade, usually decreasing as the initial level of bonus increases.) For the six scenarios in each system, the premium paid over the 10 years is standardised against the average premium paid for the six scenarios. The range of these six standardised premium amounts provides an indication of the degree of inequity imposed by the system on the individual due to chance variations in claims experience. The standard

deviation (using the population rather than the sample definition of standard deviation) also been calculated as an indicator of this inequity. In a perfectly equitable system, the premium paid in each scenario would be identical and the standard deviation zero. As the standard deviation increases, the degree of sensitivity of premiums paid to the chance variation in claims experience (in number and/or timing) increases, and hence so does the level of inequity from the individual's point of view.

##### 5. The Concept of "Efficiency"

Lemaire<sup>2</sup> defines the "efficiency" of a bonus/malus system as the elasticity of the discounted expectation of all (future premium) payments with respect to the claim frequency. This definition needs to be measured separately for policy-holders in each starting bonus grade in the system. Note that this definition is a "generation" approach (looking at the average premiums paid by a group of insureds over an extended period of time) and introduces present values into the calculation.

As a simplified measure of the average (over all the bonus grades) efficiency of a bonus/malus system, we have used the following formula:

$$\frac{[Av \ Prem (Prob \ Claim \ x) \ Year \ 50 - Av \ Prem (All \ Insureds) \ Year \ 50] / Av \ Prem (All)]}{[Prob \ Claim \ x - Av \ Prob \ Claim \ All \ Insureds] / Av \ Prob}$$

The same approach has also been applied to the values at 10 and 30 years. (Note that the values at 30 and 50 years are to some extent artificial in that they show the results assuming the system is permitted to operate unchanged over an extended period of time. As Gerber<sup>3</sup> noted, "even in a country like Switzerland (where things move slowly) the bonus/malus system is modified once in a while!" However, the values at 30 and 50 years are a valid indicator of the longer term impact of the various systems.

As an example of the calculation, in the Swiss system, the average premium estimated for year 50 for the insureds in the sub-class with a claim frequency of 30% is  $2.0409 \times \text{Std Prem}$ .

The overall claim frequency for all sub-classes combined is 10%: the average premium for all insureds is  $0.6265 \times \text{Std Prem}$ .

Hence the "efficiency" of the Swiss system, in adjusting the average premium for the higher than average claim frequency in the 30% claim frequency sub-class is measured as:

$$\frac{[2.0409 - 0.6265] / .6265}{[0.30 - 0.10] / 0.10} = 113\%$$

That is, the bonus/malus system slightly more than compensates for the increased frequency in the 30% sub-class. This is actually a very good score - for the other systems, the value is generally of the order of 30% to 60%, indicating that the other systems do not (even approximately) lead to sufficiently higher average premiums to offset the higher frequency, even in the longer term.

Note that except for the value at 10 years (when the model presents the situation for a group of insureds who have entered the system evenly over the immediate past 10 years), the model does not really reflect the premiums paid over time in arriving at the current situation. The values in the model at 10 years can be regarded as the indication of the total of the premiums paid over 10 years by a group of insureds who entered the system over a one year period 10 years ago. In this way, the measure of efficiency at 10 years gives a feel for the equity of the various systems over the shorter term in reflecting the premium history of the group of insureds (i.e., on a generation basis).

Efficiency, as measured using the formula shown above from the values in the model shown at development years 30 and 50, is a measure of the equity of the system when considering the impact of the bonus/malus system on sub-classes or cohorts of insureds.

#### **EQUITY REGARDING INSURERS**

Equity among insurers may be affected by factors such as the following:

1. The freedom of the individual insurer to define and implement the system.
2. The ability of the insurer to select (or reject!) policyholders without restriction.
3. The ability of the insurer to determine rates for each class of insured without restriction on the factors used to define the classes and on the relative loadings applied for each class.

#### **DIMENSIONS IGNORED**

The analysis in the paper ignores:-

1. The other rating factors such as age and sex of the insured, age and type of the insured vehicle, geographical location which are intended to allocate policyholder to "correct" class. It is assumed that the loadings for these factors are unbiased. In the Dutch system, the initial allocation to a grade within the bonus/malus system is adjusted for age (<24, 24-25, 26-27, >27) and for mileage (<12,000 km; 12,000-20,000km; >

20,000km), with subsequent adjustments if the insured changes class. In the analysis, only the impact of claims has been taken into account.

2. Any changes in inherent risk/frequency over time. In modelling the experience of an individual insured or class of insureds, the models used do not reflect the fact that over the lifetime of the insured or the class, the inherent risk may change. These simplified models can still identify the inherent impact of the various bonus/malus systems on the individual insured or class of insureds. For those systems in which the other rating factors used in determining the standard rates already broadly reflect such changes in inherent risk, the models present a more realistic analysis.

#### **SYSTEMS IN USE IN EUROPE**

The table overleaf summarises the main characteristics of 6 of the systems in use in Europe, and compares two of these with the system which preceded the current one. The first four pages of the exhibits provide more details of the individual plans and summarise the main results of the analysis. Below are noted certain features of each system which are not included in the summary tables.

##### **1. French System**

Companies are free to determine the underlying standard premium to which the bonus/malus system (defined in the insurance law) is applied. Administratively, the system is awkward since the coefficient is the cumulative result of each year's insurance experience - in theory, there are 301 separate grades, since the coefficient is rounded to the nearest whole percentage point, subject to a minimum of 50% and a maximum of 350%. It is necessary to record the date of the

last claim since there is an over-riding rule which requires the coefficient to be subject to a maximum of 100% after two claim-free years. When underwriting a new insured with previous insurance experience, it can be very difficult to reconstruct the coefficient applicable.

Due to the relatively slow rate of decrease in the coefficient (5% for each claim-free year), and the companies' freedom in setting the underlying standard premium rate, the major impact of the system is likely to be the reduction in claims frequency due to the implicit deductible introduced by the system.

**SUMMARY OF BONUS/MALUS SYSTEMS IN USE IN EUROPE**

| Country         | Basis/<br>Adoption     | Number<br>of Grades | Premium in Grade as % of Std Prem |                  |                | Applied<br>to            | Protection<br>Available?     | Rules if:<br>(Change in Grade)<br>(% loading) |                       |            |
|-----------------|------------------------|---------------------|-----------------------------------|------------------|----------------|--------------------------|------------------------------|---|-----------------------|------------|
|                 |                        |                     | Minimum                           | Standard         | Maximum        |                          |                              | No Claim                                      | Per Claim             |            |
| UK              | Voluntary<br>Ad hoc    | 5 to 7              | Grade 5/7<br>35 to 40             | Grade 1<br>100   | Grade 1<br>100 | Total Prem               | Yes after 3<br>yrs Grade 5/7 | +1<br>na                                      | +2<br>na              |            |
| FRANCE          | BY LAW/<br>Obligatory  | 301                 | Grade 301<br>50                   | Grade 251<br>100 | Grade 1<br>350 | Total Prem               | NO                           | na  | na                    | -5%<br>25% |
| SWISS<br>"old"  | "TARIFF"<br>Universal  | 22                  | Grade 22<br>45                    | Grade 13<br>100  | Grade 1<br>270 | TPL                      | NO                           | +1<br>na                                      | -3<br>na              |            |
| SWISS<br>"new"  | "TARIFF"<br>Universal  | 22                  | Grade 22<br>45                    | Grade 13<br>100  | Grade 1<br>270 | TPL                      | NO                           | +1<br>na                                      | -4<br>na              |            |
| ITALY<br>"old"  | BY LAW<br>Obligatory   | 13                  | Grade 13<br>70                    | Grade 6<br>100   | Grade 1<br>200 | TPL Premium              | NO                           | +1<br>na                                      | -1(Max4)<br>na        |            |
| ITALY<br>"new"  | BY LAW<br>Obligatory   | 18                  | Grade 18<br>50                    | Grade 6<br>100   | Grade 1<br>200 | TPL Premium              | NO                           | +1<br>na                                      | -2 to -3<br>na (Max4) |            |
| DUTCH<br>1989   | VOLUNTARY<br>Agreement | 14                  | Grade 14<br>30                    | Grade 2<br>100   | Grade 1<br>120 | TPL +<br>Accident Damage | NO                           | +1<br>na                                      | -4 to -5<br>na        |            |
| BELGIAN<br>1990 | BY LAW<br>Obligatory   | 21                  | Grade 21<br>50                    | Grade 9<br>100   | Grade 1<br>200 | TPL Premium              | NO                           | +1<br>na                                      | -4 to -5<br>na        |            |

## 2. UK System

Both the structure of the bonus/malus system and the underlying standard premiums are determined by the individual insurer. Hence the bonus/malus system is being applied to a premium determined within a detailed risk classification plan which should undermine the potential experience rating impact of the bonus/malus system. The inefficiency of the system, and the fact that the average bonus produced under the typical system is too high, are widely recognised in the industry. The introduction of bonus protection (which effectively removes the implicit deductible element of the system) has only exacerbated the situation. In recent years, several niche players have entered the market without a bonus/malus system in order to try to profit from those sectors of the market for which the usual bonus/malus systems result in excessive premiums (typically in the low bonus classes). Some of the major companies have introduced special rating plans for favoured groups of insureds (for example, the over 50 year-old drivers with a good driving record) which are outside the usual bonus/malus systems. To some extent, such plans are merely removing groups of insured who would otherwise be part of the protected bonus class of insureds. The special plans often re-introduce a deductible!

## 3. Swiss System

The Swiss system has recently been changed to increase the penalty on making a claims from 3 to 4 bonus grades. This was done essentially to increase the technical efficiency of the system (i.e., so that the average premium for poor risks is increased sufficiently). The standard premium is determined on only two rating factors - the type of vehicle (e.g., private passenger vehicle) and the engines cubic capacity). Given such a simple rating base, there is evidently scope for the experience rating effect of the bonus/malus system to come into play.

#### 4. Italian System

The Italian system has been recently extensively overhauled, with the extension of the number of classes from 13 to 18 - the new classes effectively extend the bonus scale to provide for higher bonuses. This has been countered by increasing the penalty for a claim from 1 grade under the former system to 2 to 3 grades under the new system. These changes will make the system more discriminatory - in favour of the "good" risk and against the "poor" risk, hence increasing the system's efficiency.

#### 5. Dutch System

Companies are free to set their rates and to define the bonus/malus system they use, however, any changes which lead to increases in premiums for individual insureds need to be approved by the Ministry of Economic Affairs under price control legislation.

The system described has been developed by a working party formed by a number of large Dutch insurers which felt that a thorough review of the existing system was due. The resulting system is a modification of the system recommended by the working party after discussions with management which brought certain commercial pressures to bear. The bonus/malus system is seen as an integral part of the whole rating structure which was under review.

The basic premium is calculated as a function of the vehicle weight for Third Party Liability cover and a function of the car's original catalogue value for Accidental Damage cover. A percentage loading is applied depending on the geographical location of the insured- there are 3 rating zones. In addition to the impact of claims on the progression through the bonus/malus grades, there

are three classes of mileage (less than 7,000 miles pa, 7,000 - 12,000 miles pa and over 12,000 miles pa) and 4 age groups (less than 24, 24-25, 26-27, and over 27) which are used to adjust the initial bonus grade allocated to a new insured. Changes in age and/or mileage on renewal will be reflected in an adjustment to bonus/malus grade in addition to the impact of the relevant claims experience.

#### 6. Belgian System

The premium rating base and bonus/malus systems are both written into the law in Belgium. The premium is based on a constant plus an amount determined as a function of the power rating of the car's engine. Hence, the bonus/malus system is being heavily relied upon to provide appropriate premiums for individual insureds. Lemaire<sup>4</sup>, when introducing the background to the development of the new Belgian rating system, notes that "...the Control Authorities clearly hinted, during informal preliminary meetings, that they did not like the idea of a priori classification variables, their main argument being that the fact that a policyholder is young or lives in a densely populated area does not necessarily imply that he is more likely to cause accidents". Given this background, the almost total reliance on an a posteriori rating system is understandable. It is, perhaps, not too late to start the educational process. Indeed, if reliance on an a posteriori rating system is desired, then almost necessarily the equity of the system as regards the individual must suffer. Maybe it is politically more acceptable to have a relatively small subsidy paid by the majority of policyholders to keep the level of high risk group premiums "reasonable" rather than requiring each risk group to pay its way? The introduction and growth of the involuntary markets in the US may be seen as supportive evidence of the Belgian philosophy!

## METHOD OF ANALYSIS

### MODELING THE SYSTEM

For each bonus/malus system, a simple spreadsheet based model was built which projects the development over 50 years of the distribution by bonus grade assuming 10,000 new entrants to the base class (which pays 100% of the standard premium) for each of the first 10 years. The distribution obtained in the 50th year is taken as an approximation to the ultimate steady state which would be achieved if the system continued to operate without modification indefinitely.

Three "risk-types" of insureds were separately modelled by assuming three levels of claims frequency, viz., 5% per annum, 10% per annum and 30% per annum. The models assume that each insured has either zero or one claim each year - multiple claims are not modelled. This assumption will tend to underestimate slightly the numbers of insureds in the higher grades (high malus), especially in those systems which penalise claims relatively heavily (for example, the Swiss system which penalises the insured 4 bonus grades per claim). However, the distortion is minor and probably tends to decrease as the term of the projection is extended.

In addition to the "class" model, the impact of the system on an individual insured over a 10 year period was modelled assuming various patterns of claims over that 10 year period in order to determine the level of the implicit deductible imposed by the system and to illustrate the degree of fairness of the system when considered from the individual's perspective.

### EVALUATION OF EFFECTS OF SYSTEMS

Given that each insured in a rating class pays a premium based on the same standard premium subject to the relevant bonus or malus, the impact of the

bonus/malus system can be evaluated by calculating the average premium paid by the group of insureds under consideration as a percentage of that standard premium. An index of the premium charged is thus obtained by determining the relative average premium paid by the sub-class of insureds compared with the average premium paid by the class in total (i.e., the sum of the three sub-classes).

As noted above, the "model" developed for each system traces the development of the "population" of insureds over a 50 year period with the following assumptions:

- ▶ 10 000 new entrants each year for 10 years in the "standard" class.
  
- ▶ the population consists of three sub-classes of insured as follows:  
    20% of the population has a claim frequency of 5% per annum  
    75% of the population has a claim frequency of 10% per annum  
    5% of the population has a claim frequency of 30% per annum.  
Hence, the average claim frequency is 10% per annum.
  
- ▶ a binomial distribution of claims numbers is assumed for each insured - that is, multiple claims on an individual policy in a given year are not modelled. For example, with an assumed claims frequency of 10% per annum, 90% of policyholders are assumed not to claim during a given year and 10% of insured are assumed to have 1 claim.
  
- ▶ the claim frequency is not affected by the level of the implicit deductible.

- there are no exits from the system.

Thus the model shows the development over 50 years of the distribution of the population by bonus/malus grade for each sub-class for a "cohort" of insureds who enter the insurance system evenly over a 10 year period at the standard premium grade.

Average % of Standard Premium: we calculate the average premium paid by the sub-class of insureds (across all bonus/malus grades) for each development year based on the distribution of insureds by bonus/malus grade and the relevant levels of bonus/malus.

Relative Premium: for each development year, the average premium paid by each sub-class is standardised against the average premium paid by the three sub-classes in total.

There is a graph included in the exhibits for each of the bonus/malus systems modelled - these graphs show the evolution of the Average Premium as a % of Standard Premium, and the Relative Average Premium for each of the three sub-classes and for the class in total over the 50 years modelled. In a perfectly efficient system, the relative premium for the 30% sub-class should be 3.00 and that for the 5% sub-class 0.50. The less efficient the system, the closer these values will remain to 1.00, the relative premium for the class in total.

Standardised Standard Premium (SSP): the "standard" premium for a given system has little intrinsic significance - the premium in any of the bonus/malus grades could be taken as the "standard" after application of a suitable scaling factor. In order to be able to make comparisons among the systems, it is necessary to

standardise the standard premium. The Swiss system has been taken as the base - the SSP is taken to be the average premium payable under the Swiss system during the 50th year which should be, approximately, the steady state. The relative SSP from the other systems is determined by the ratio of the average premium estimated for year 50 in that system compared to that applying in the Swiss system. In this way, the two systems would generate the same premium volume for the same exposure base as is used in the models assuming the respective distribution of insureds by grade as estimated by the models. As an example of the use of the SSP, in the summary exhibit the implied deductible for each system is expressed as a percentage of the SSP.

## RESULTS

The table overleaf summarises the main results of the analysis.

1. Efficiency: the Swiss system is obviously the most efficient of the systems reviewed, particularly in dealing with higher than average risks. None of the systems is particularly sensitive to lower than average risks - the Swiss system only reduced premiums by 50% of the relative risk reduction. In the shorter term (over 10 years), the Swiss system is again the best, although the Dutch and Belgian systems do well too. It is interesting to note that the UK system, which over the very long term is almost ineffective in distinguishing among high and low risk insureds, is almost as efficient as the Dutch and Belgian systems over 10 years.
  
2. Implicit Deductible: the implicit deductible varies with the bonus grade which the policyholder currently has. The summary shows two examples for each system which tend to suggest that there is a correlation between higher efficiency in a system and a higher implicit deductible. The UK system is distorted by the presence of the extra premium for bonus

**SUMMARY OF RESULTS**

| Country | EFFICIENCY |       |          |      | IMPLICIT DEDUCTIBLE |              |              | FAIRNESS TO INDIVIDUAL |      |         |
|---------|------------|-------|----------|------|---------------------|--------------|--------------|------------------------|------|---------|
|         | 5% risk    |       | 30% risk |      | Starting Grade      | Deductible   |              | MIN                    | MAX  | STD DEV |
|         | % Std Pr   | % SSP | MIN      | MAX  | STD DEV             |              |              |                        |      |         |
| FRENCH  | 8%         | 12%   | 10%      | 33%  | 12<br>10            | 56%<br>64%   | 65%<br>74%   | 86%                    | 114% | 11%     |
| UK      | 11%        | 1%    | 12%      | 6%   | 6<br>2              | 0%<br>110%   | 0%<br>171%   | 93%                    | 130% | 14%     |
| SWISS   | 21%        | 45%   | 25%      | 113% | 12<br>5             | 380%<br>665% | 380%<br>665% | 53%                    | 158% | 34%     |
| ITALY   | 10%        | 9%    | 13%      | 31%  | 12<br>3             | 72%<br>315%  | 85%<br>373%  | 84%                    | 125% | 13%     |
| DUTCH   | 16%        | 28%   | 15%      | 52%  | 10<br>4             | 70%<br>255%  | 116%<br>423% | 65%                    | 157% | 29%     |
| BELGIAN | 13%        | 25%   | 14%      | 60%  | 13<br>4             | 172%<br>174% | 345%<br>348% | 70%                    | 147% | 25%     |

protection (assumed to be 5% of the standard premium). Although the analysis shows an implicit deductible of zero for a policyholder in bonus grade 6, the decision not to claim will allow the policyholder to be eligible for bonus protection sooner which may be perceived as having value to the policyholder.

3. Fairness to the individual insured: as noted above, the method used to identify the degree of fairness to the individual insured is somewhat arbitrary - the results for each system would vary with the starting grade of the insured in year 0 and with the various claims experience scenarios modelled. The results tend to indicate that the degree of fairness (which is taken to be reflected in a low standard deviation of the relative premiums paid under the six scenarios, and a low range between high and low premiums paid) is negatively correlated with the efficiency of the system. This, perhaps should not come as an unexpected result, since a system which is efficient is one which responds quickly to the indications of the claims experience, while the concept of fairness to the individual is related to stability of premium under conditions where chance is the only element at work.

## CONCLUSION

It is evident that most of the systems reviewed, with the possible exception of the Swiss and the Dutch systems, are not effective in introducing an average penalty or discount which is appropriate to the relative level of risk of various sub-classes of insureds within a given rating class. Given that the systems are not effective in respect of groups of insureds, the situation in respect of individual insureds can only be expected to be less equitable. This is because the timing of individual claims becomes relevant to evaluating the impact of the bonus/malus system, and for the individual, such timing is largely of a fortuitous nature. This will lead to individual insureds with the same underlying level of risk being treated differently - under certain systems, significantly differently.

Since the adjustment, which is a percentage loading or discount on the standard premium, is based solely on frequency of claims (severity of the claims is not directly reflected although it does have an indirect impact through the implicit deductible) and does not explicitly provide an experience adjustment relative to an "expected" level of claims, the bonus/malus systems as currently structured cannot be expected to reduce systematically the bias in a class premium rate which is not "correct".

From an "actuarial" point of view, the use of bonus/malus systems as a principal component in the determination of premiums for individual private automobile insurance policies appears questionable. The lack of credibility of an individual risk over one year, the changing nature of the underlying risk over time, and the resultant inequity to the individual insured due to the impact of the random timing of claims all support this contention. However, the systems can be recommended from various other points of view, viz.:

- ▶ Insureds' "psychological comfort" - the individual insured is likely to identify well with the system which appears to reward him for being a "good" driver, where "good" is defined as being an insured who does not claim. His attitude may change after he is forced to claim following an accident which is not his fault but which will result in his incurring a premium penalty!
- ▶ As a hidden deductible or excess - where the insured has the choice as to whether or not he makes a claim after an at-fault accident, the present value of the expected cumulative future premium penalties which the claim will produce represents a threshold below which he will ("logically") not claim but will agree to pay the claim amount himself without involving the insurer. In effect, the expected future premium penalty has the same effect as a deductible or excess of an equal amount. As noted in the paper, the relative level of such implicit deductibles is extremely high in some systems. From the insurers' point of view, especially in the marketing department, it is usually preferable to have a deductible which is not explicit. Although most insureds recognise this situation in principle, most probably underestimate the actual level of the implied deductible (at least until they have a claim!). The expense saving resulting from the elimination of many small claims can be significant. Note that offering bonus "protection" effectively removes this advantage.
- ▶ As a marketing tool - especially in those systems which are not fully specified by law, the design and implementation of the bonus/malus system can be regarded as an additional dimension in the developing the product. It is vital the premium rates fully recognise not only the specific design

of the bonus/malus system to be used, but also its implementation including, for example, expected levels of "introductory bonuses" which are to be offered to new insureds with a clean driving record but who have not previously been insured in their own name.

- ▶ Political Expediency - this derives from the insureds "psychological comfort" when viewed from the position of the political body responsible for determining the basis and level of rates in a market where rates are controlled. It is often considered much safer for the regulator to formulate a system which appears to base the premium to a large extent on the individual insureds' experience, rather than impose a detailed risk classification plan which may be seen to discriminate on a politically sensitive (although perhaps statistically justifiable) basis.

Furthermore, it may be argued that in particular markets, the data base available is too small to provide a sound statistical basis for determining a reasonably complete risk classification rating plan.

A great deal of work has been done to develop bonus/malus systems which are "efficient" on a risk group basis. The benefits of the implicit deductible in reducing claims frequency cannot be denied - however, the same effect could be achieved through explicit deductibles which could be set at levels which are more logical, consistent and useful. Perhaps it is time for the balance to be moved back towards the equity of the premium rating system as it affects the individual insured?

#### A THOUGHT FOR THE FUTURE

With the approach of an open market within the EEC (the Swiss are safe, at least for the time being!), it is likely that the level of government intervention in the personal lines insurance markets will tend to decline over the coming decade, particularly in terms of the rating basis to be used. At the same time, it is becoming easier for insurers in any member State to operate in all of the other member States, hence increasing the potential for competition. Together, these forces are likely to break down the tariff and cartel arrangements which currently underpin many of the private passenger automobile insurance markets in Europe. It will be interesting to see whether the efficient but intricate and long term bonus/malus systems of continental Europe can survive in such an environment. Equally, it is questionable whether the marketing based "No-Claims Discount" approach currently dominating the UK market will survive intact. ISO, where are you?

BIOGRAPHY:

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3. GERBER HU, "The new bonus/Malus System of Switzerland", XXII ASTIN Colloquium, 1990.
4. LEMAIRE, J "Construction of the New Belgian Motor Third Party Tariff Structure"; Wharton School - University of Pennsylvania.

## SUMMARY

## PREMIUM SCALE AND TRANSITION RULES

(Premium Scale in % Standard Premium: Transition Rules show Bonus Grade during Year 1 given 0, 1 or 2 claims during Year 0)

| Grade in<br>Year 0 | (1) French System |                        |         | (2) UK System |                        |          | Swiss System |                        |         |          |         |          |
|--------------------|-------------------|------------------------|---------|---------------|------------------------|----------|--------------|------------------------|---------|----------|---------|----------|
|                    | Premium           | Grade During Year 1 if |         | Premium       | Grade During Year 1 if |          | Premium      | Grade During Year 1 if |         |          |         |          |
|                    | Scale             | 0 claims               | 1 claim | 2 claims      | Scale                  | 0 claims | 1 claim      | 2 claims               | Scale   | 0 claims | 1 claim | 2 claims |
| (APPROXIMATED)     |                   |                        |         |               |                        |          |              |                        |         |          |         |          |
| 1                  | 300.00%           | 1                      | 1       | 1             | 100.00%                | 2        | 1            | 1                      | 270.00% | 2        | 1       | 1        |
| 2                  | 250.00%           | 2                      | 1       | 1             | 70.00%                 | 3        | 1            | 1                      | 250.00% | 3        | 1       | 1        |
| 3                  | 200.00%           | 3                      | 2       | 1             | 60.00%                 | 4        | 1            | 1                      | 230.00% | 4        | 1       | 1        |
| 4                  | 175.00%           | 4                      | 3       | 1             | 50.00%                 | 5        | 2            | 1                      | 215.00% | 5        | 1       | 1        |
| 5                  | 150.00%           | 6                      | 4       | 2             | 40.00%                 | 6        | 3            | 1                      | 200.00% | 6        | 1       | 1        |
| 6                  | 137.50%           | 7                      | 5       | 3             | 35.00%                 | 7        | 4            | 2                      | 185.00% | 7        | 2       | 1        |
| 7                  | 125.00%           | 8                      | 6       | 4             | 35.00%                 | 8        | 5            | 3                      | 170.00% | 8        | 3       | 1        |
| 8                  | 112.50%           | 9                      | 7       | 5             | 35.00%                 | 9        | 5            | 4                      | 155.00% | 9        | 4       | 1        |
| 9                  | 100.00%           | 10                     | 8       | 6             | 35.00%                 | 10       | 5            | 5                      | 140.00% | 10       | 5       | 1        |
| 10                 | 95.00%            | 11                     | 9       | 7             | 40.00%                 | 10       | 10           | 10                     | 130.00% | 11       | 6       | 2        |
| 11                 | 90.00%            | 12                     | 9       | 8             |                        |          |              |                        | 120.00% | 12       | 7       | 3        |
| 12                 | 85.00%            | 13                     | 10      | 9             |                        |          |              |                        | 110.00% | 13       | 8       | 4        |
| 13                 | 80.00%            | 14                     | 11      | 9             |                        |          |              |                        | 100.00% | 14       | 9       | 5        |
| 14                 | 76.00%            | 15                     | 12      | 10            |                        |          |              |                        | 90.00%  | 15       | 10      | 6        |
| 15                 | 72.00%            | 16                     | 13      | 11            |                        |          |              |                        | 80.00%  | 16       | 11      | 7        |
| 16                 | 68.00%            | 17                     | 14      | 12            |                        |          |              |                        | 75.00%  | 17       | 12      | 8        |
| 17                 | 64.00%            | 18                     | 15      | 13            |                        |          |              |                        | 70.00%  | 18       | 13      | 9        |
| 18                 | 60.00%            | 19                     | 16      | 14            |                        |          |              |                        | 65.00%  | 19       | 14      | 10       |
| 19                 | 57.00%            | 20                     | 17      | 15            |                        |          |              |                        | 60.00%  | 20       | 15      | 11       |
| 20                 | 54.00%            | 21                     | 18      | 16            |                        |          |              |                        | 55.00%  | 21       | 16      | 12       |
| 21                 | 51.00%            | 22                     | 19      | 17            |                        |          |              |                        | 50.00%  | 22       | 17      | 13       |
| 22                 | 50.00%            | 22                     | 19      | 17            |                        |          |              |                        | 45.00%  | 22       | 18      | 14       |

- NOTES:
- (1) The French system does not have defined grades - from an initial value of 1.00, the coefficient is multiplied by 0.95 after a claim free year, otherwise by 1.25 for each 100% at fault claim and 1.125 for each partially at fault claim.  
The minimum coefficient is 0.50 and the maximum is 3.50. After 2 claim-free years, the maximum coefficient is 1.00.  
The above system has been approximated by use of the premium scale and transition table shown above - in addition, the rule that after 2 claim-free years, the maximum coefficient is 1.00 has also been incorporated in the model.
  - (2) The UK system modelled is typical of the market - the availability of obtaining bonus protection after three years in the highest bonus class is assumed.

## SUMMARY

## RESULTS

| Number of Grades<br>Entry Grade  | French System       |   |        |         | UK System |        |                     |        | Swiss System |         |            |         |                     |        |            |         |         |
|--|---------------------|---|--------|---------|-----------|--------|---------------------|--------|--------------|---------|------------|---------|---------------------|--------|------------|---------|---------|
|  | 22                  | (Approximation to 301 grades in practice) | 9      | 10      | 1         | 10     | 22                  | 13     | 5%           | 10%     | 30% TOTAL: | 10%     | 5%                  | 10%    | 30% TOTAL: | 10%     |         |
| <b>"EFFICIENCY" OF SYSTEM FOR A SUB-CLASS OF INSURED</b>                   |                     |   |        |         |           |        |                     |        |              |         |            |         |                     |        |            |         |         |
| Sub-Class: Frequency =   |                     |   |        |         |           |        |                     |        |              |         |            |         |                     |        |            |         |         |
| Av Prem % Std @ Yr 10  |                     | 81.91%                                    | 85.09% | 102.24% |           | 85.31% |                     |        | 52.30%       | 55.11%  | 68.60%     |         | 55.22%              |        | 76.58%     | 85.31%  | 128.54% |
| 30   |                     | 51.02%                                    | 53.79% | 91.82%  |           | 55.13% |                     |        | 39.99%       | 39.95%  | 49.04%     |         | 40.41%              |        | 48.99%     | 60.38%  | 190.09% |
| 50   |                     | 50.89%                                    | 52.73% | 88.70%  |           | 54.16% |                     |        | 40.00%       | 40.00%  | 44.90%     |         | 40.24%              |        | 48.44%     | 57.00%  | 204.09% |
| Rel Av Prem @ Yr 10  |                     | 0.96                                      | 1.00   | 1.20    |           | 1.00   |                     |        | 0.95         | 1.00    | 1.24       |         | 1.00                |        | 0.89       | 1.00    | 1.50    |
| 30   |                     | 0.93                                      | 0.98   | 1.67    |           | 1.00   |                     |        | 0.99         | 0.99    | 1.21       |         | 1.00                |        | 0.76       | 0.93    | 2.94    |
| 50   |                     | 0.94                                      | 0.97   | 1.64    |           | 1.00   |                     |        | 0.99         | 0.99    | 1.12       |         | 1.00                |        | 0.77       | 0.91    | 3.26    |
| Efficiency @ Yr 10   |                     | 8 %                                       | #N/A   | 10 %    |           |        |                     |        | 11 %         | #N/A    | 12 %       |         |                     |        | 21 %       | #N/A    | 25 %    |
| 30   |                     | 15 %                                      | #N/A   | 33 %    |           |        |                     |        | 2 %          | #N/A    | 11 %       |         |                     |        | 48 %       | #N/A    | 97 %    |
| 50   |                     | 12 %                                      | #N/A   | 32 %    |           |        |                     |        | 1 %          | #N/A    | 6 %        |         |                     |        | 45 %       | #N/A    | 113 %   |
| <b>STANDARDISED STANDARD PREMIUM</b>                                       |                     |   |        |         |           |        |                     |        |              |         |            |         |                     |        |            |         |         |
| Av Std Prem Yr 50  |                     | 54%                                       |        |         |           |        |                     |        | 40%          |         |            |         |                     |        | 63%        |         |         |
| Index to Standardise Prem  |                     | 1.16                                      |        |         |           |        |                     |        | 1.56         |         |            |         |                     |        | 1.00       |         |         |
| <b>2 EXAMPLES OF THE IMPLICIT EXCESS OR DEDUCTIBLE</b>                     |                     |   |        |         |           |        |                     |        |              |         |            |         |                     |        |            |         |         |
| Starting Grade   | 12                  | 10  |        |         |           | 6      | 2                   |        |              |         |            |         |                     |        | 12         | 5       |         |
| Indicated Excess (% Std Fr)  | 56%                 | 64%                                       |        |         |           | 0%     | 110%                |        |              |         |            |         |                     |        | 380%       | 665%    |         |
| Excess % SSP   | 65%                 | 74%                                       |        |         |           | 0%     | 171%                |        |              |         |            |         |                     |        | 380%       | 665%    |         |
| <b>TEST OF FAIRNESS TO INDIVIDUAL INSURED: PREMIUM PAID OVER 10 YEARS:</b> |                     |   |        |         |           |        |                     |        |              |         |            |         |                     |        |            |         |         |
| Starting Grade   | 12                  | 12  | 12     | 12      | 12        | 6      | 6                   | 6      | 6            | 6       | 6          | 6       | 12                  | 12     | 12         | 12      | 12      |
| Claims in Years:   | NONE                | 0   | 25.8   | 0,2,4   | 0,1,2     | 7.8,9  | NONE                | 0      | 3,6,9        | 1,5,9   | 7.8,9      | 0,1,2   | NONE                | 0      | 2,5,8      | 0,4,8   | 0,1,2   |
| Std Premiums Paid  | 6.32                | 6.88                                      | 7.31   | 8.43    | 8.35      | 6.94   | 3.90                | 3.90   | 3.90         | 4.05    | 3.90       | 5.45    | 6.90                | 10.70  | 13.30      | 16.30   | 20.45   |
| Rel to AVERAGE line above  | 85.73%              | 93.33%                                    | 99.16% | 114.36% | 113.27%   | 94.14% | 93.23%              | 93.23% | 93.23%       | 96.81%  | 93.23%     | 130.28% | 53.35%              | 82.73% | 102.84%    | 126.03% | 158.12% |
| MIN & MAX of line above  | MIN                 | 85.73%                                    | MAX    | 114.36% |           |        | MIN                 | 93.23% | MAX          | 130.28% |            |         | MIN                 | 53.35% | MAX        | 158.12% |         |
| Std Deviation line -2 above  | STANDARD DEVIATION: | 10.53%                                    |        |         |           |        | STANDARD DEVIATION: | 13.60% |              |         |            |         | STANDARD DEVIATION: | 34.33% |            |         |         |

## SUMMARY

## PREMIUM SCALE AND TRANSITION RULES

(Premium Scale in % Standard Premium: Transition Rules show Bonus Grade during Year 1 given 0, 1 or 2 claims during Year 0)

| Grade in<br>Year 0 | Italian System   |                                    |         | Dutch System |                  |                                    | (3)<br>Premium<br>Scale | Belgian System |                                    |         |          |
|--------------------|------------------|------------------------------------|---------|--------------|------------------|------------------------------------|-------------------------|----------------|------------------------------------|---------|----------|
|                    | Premium<br>Scale | Grade During Year 1 if<br>0 claims | 1 claim | 2 claims     | Premium<br>Scale | Grade During Year 1 if<br>0 claims | 1 claim                 | 2 claims       | Grade During Year 1 if<br>0 claims | 1 claim | 2 claims |
| 1                  | 200.00%          | 2                                  | 1       | 1            | 120.00%          | 2                                  | 1                       | 1              | 200.00%                            | 2       | 1        |
| 2                  | 175.00%          | 3                                  | 1       | 1            | 100.00%          | 3                                  | 1                       | 1              | 160.00%                            | 3       | 1        |
| 3                  | 150.00%          | 4                                  | 1       | 1            | 90.00%           | 4                                  | 1                       | 1              | 140.00%                            | 4       | 1        |
| 4                  | 130.00%          | 5                                  | 2       | 1            | 80.00%           | 5                                  | 1                       | 1              | 130.00%                            | 5       | 1        |
| 5                  | 115.00%          | 6                                  | 3       | 1            | 70.00%           | 6                                  | 2                       | 1              | 123.00%                            | 6       | 1        |
| 6                  | 100.00%          | 7                                  | 4       | 1            | 60.00%           | 7                                  | 3                       | 1              | 117.00%                            | 7       | 2        |
| 7                  | 94.00%           | 8                                  | 5       | 2            | 55.00%           | 8                                  | 4                       | 1              | 111.00%                            | 8       | 3        |
| 8                  | 88.00%           | 9                                  | 6       | 3            | 50.00%           | 9                                  | 5                       | 1              | 105.00%                            | 9       | 4        |
| 9                  | 82.00%           | 10                                 | 7       | 4            | 45.00%           | 10                                 | 6                       | 2              | 100.00%                            | 10      | 5        |
| 10                 | 78.00%           | 11                                 | 8       | 5            | 40.00%           | 11                                 | 7                       | 3              | 95.00%                             | 11      | 6        |
| 11                 | 74.00%           | 12                                 | 9       | 6            | 37.50%           | 12                                 | 7                       | 3              | 90.00%                             | 12      | 7        |
| 12                 | 70.00%           | 13                                 | 10      | 7            | 35.00%           | 13                                 | 8                       | 4              | 85.00%                             | 13      | 8        |
| 13                 | 66.00%           | 14                                 | 11      | 8            | 32.50%           | 14                                 | 8                       | 4              | 81.00%                             | 14      | 9        |
| 14                 | 62.00%           | 15                                 | 12      | 9            | 30.00%           | 14                                 | 9                       | 5              | 77.00%                             | 15      | 10       |
| 15                 | 59.00%           | 16                                 | 13      | 10           |                  |                                    |                         |                | 73.00%                             | 16      | 11       |
| 16                 | 56.00%           | 17                                 | 14      | 11           |                  |                                    |                         |                | 69.00%                             | 17      | 12       |
| 17                 | 53.00%           | 18                                 | 15      | 12           |                  |                                    |                         |                | 66.00%                             | 18      | 13       |
| 18                 | 50.00%           | 18                                 | 16      | 13           |                  |                                    |                         |                | 63.00%                             | 19      | 14       |
| 19                 |                  |                                    |         |              |                  |                                    |                         |                | 60.00%                             | 20      | 15       |
| 20                 |                  |                                    |         |              |                  |                                    |                         |                | 57.00%                             | 21      | 16       |
| 21                 |                  |                                    |         |              |                  |                                    |                         |                | 54.00%                             | 22      | 17       |
| 22                 |                  |                                    |         |              |                  |                                    |                         |                | 54.00%                             | 22      | 18       |
|                    |                  |                                    |         |              |                  |                                    |                         |                |                                    |         | 13       |

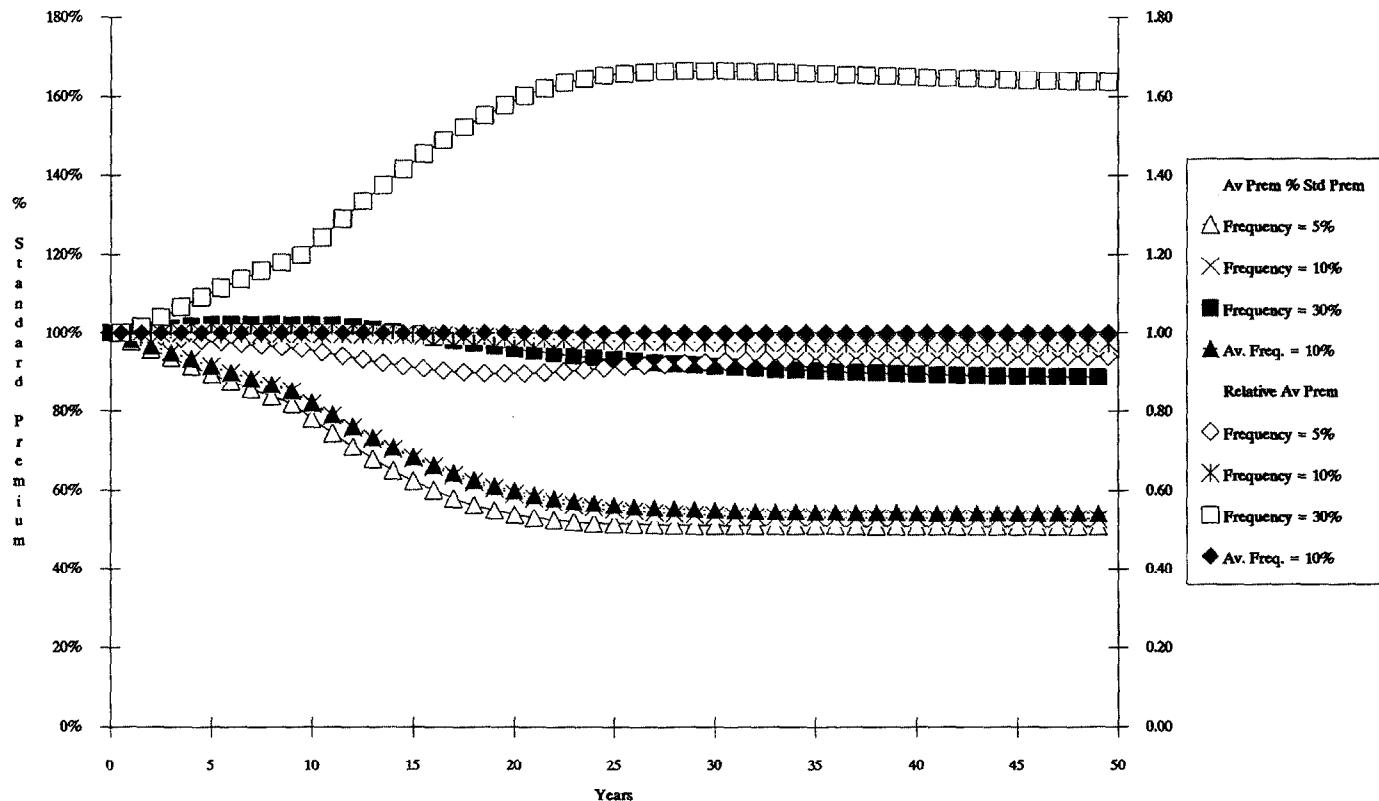
NOTES: (3) The Belgian system provides that after 4 claim-free years, the maximum coefficient is 1.00. This feature has not been modelled.

## SUMMARY

## RESULTS

| Number of Grades<br>Entry Grade  | Italian System |            |            |         |         | Dutch System |            |            |         |         | Belgian System |        |                     |            |            |         |
|--|----------------|------------|------------|---------|---------|--------------|------------|------------|---------|---------|----------------|--------|---------------------|------------|------------|---------|
|  | 18             |            |            |         | 14      |              |            |            | 22      |         |                |        |                     |            |            |         |
|  | 6              |            |            |         | 2       |              |            |            | 9       |         |                |        |                     |            |            |         |
| <b>"EFFICIENCY" OF SYSTEM FOR A SUB-CLASS OF INSURED</b>                   |                |            |            |         |         |              |            |            |         |         |                |        |                     |            |            |         |
| Sub-Class: Frequency =   | 5%             | 10%        | 30% TOTAL: | 10%     | 5%      | 10%          | 30% TOTAL: | 10%        | 5%      | 10%     | 30% TOTAL:     | 10%    | 5%                  | 10%        | 30% TOTAL: | 10%     |
| Av Prem % Std @ Yr 10  | 80.63%         | 84.45%     | 106.07%    | 84.77%  | 61.62%  | 67.13%       | 87.20%     | 67.04%     | 84.96%  | 90.52%  | 116.55%        | 90.71% |                     |            |            |         |
| 30   | 50.61%         | 52.26%     | 95.02%     | 54.07%  | 32.62%  | 37.44%       | 77.83%     | 38.50%     | 56.54%  | 65.19%  | 136.76%        | 67.04% |                     |            |            |         |
| 50   | 50.53%         | 51.31%     | 85.85%     | 52.88%  | 32.48%  | 36.52%       | 76.85%     | 37.73%     | 55.44%  | 60.23%  | 139.23%        | 63.23% |                     |            |            |         |
| Rel Av Prem @ Yr 10  | 0.95           | 1.00       | 1.25       | 1.00    | 0.92    | 1.00         | 1.30       | 1.00       | 0.94    | 1.00    | 1.28           | 1.00   |                     |            |            |         |
| 30   | 0.94           | 0.97       | 1.76       | 1.00    | 0.85    | 0.97         | 2.02       | 1.00       | 0.84    | 0.97    | 2.04           | 1.00   |                     |            |            |         |
| 50   | 0.96           | 0.97       | 1.62       | 1.00    | 0.86    | 0.97         | 2.04       | 1.00       | 0.88    | 0.95    | 2.20           | 1.00   |                     |            |            |         |
| Efficiency @ Yr 10   | 10 %           | #N/A       | 13 %       |         | 16 %    | #N/A         | 15 %       |            | 13 %    | #N/A    | 14 %           |        |                     |            |            |         |
| 30   | 13 %           | #N/A       | 38 %       |         | 31 %    | #N/A         | 51 %       |            | 31 %    | #N/A    | 52 %           |        |                     |            |            |         |
| 50   | 9 %            | #N/A       | 31 %       |         | 28 %    | #N/A         | 52 %       |            | 25 %    | #N/A    | 60 %           |        |                     |            |            |         |
| <b>STANDARDISED STANDARD PREMIUM</b>                                       |                |            |            |         |         |              |            |            |         |         |                |        |                     |            |            |         |
| Av Std Prem Yr 50<br>Index to Standardise Prem                             | 53%            |            |            |         | 38%     |              |            |            | 63%     |         |                |        |                     |            |            |         |
|  | 1.18           |            |            |         | 1.66    |              |            |            | 1.01    |         |                |        |                     |            |            |         |
| <b>2 EXAMPLES OF THE IMPLICIT EXCESS OR DEDUCTIBLE</b>                     |                |            |            |         |         |              |            |            |         |         |                |        |                     |            |            |         |
| Starting Grade   | 12             | 3          |            |         | 10      | 4            |            |            | 13      | 5       |                |        |                     |            |            |         |
| Indicated Excess (% Std Pr)  | 72%            | 315%       |            |         | 70%     | 255%         |            |            | 172%    | 345%    |                |        |                     |            |            |         |
| Excess % SSP   | 85%            | 373%       |            |         | 116%    | 423%         |            |            | 174%    | 348%    |                |        |                     |            |            |         |
| <b>TEST OF FAIRNESS TO INDIVIDUAL INSURED: PREMIUM PAID OVER 10 YEARS:</b> |                |            |            |         |         |              |            |            |         |         |                |        |                     |            |            |         |
| Starting Grade   | 12             | 12         | 12         | 12      | 12      | 12           | 10         | 10         | 10      | 10      | 10             | 10     | 13                  | 13         | 13         | 13      |
| Claims in Years:   | NONE           | 0          | 2,5,8      | 0,4,8   | 0,1,2   | 7,8,9        | NONE       | 0          | 1,4,7   | 0,4,8   | 0,1,2          | 7,8,9  | NONE                | 0          | 2,5,8      | 0,4,8   |
| Std Premiums Paid  | 5.46           | 6.18       | 6.60       | 6.96    | 8.18    | 5.84         | 3.15       | 3.85       | 5.38    | 4.85    | 7.60           | 4.20   | 6.27                | 7.99       | 9.07       | 9.76    |
| Rel to AVERAGE line above  | 83.53%         | 94.54%     | 100.97%    | 106.48% | 125.14% | 89.34%       | 65.11%     | 79.57%     | 111.20% | 100.24% | 157.08%        | 86.81% | 70.42%              | 89.74%     | 101.87%    | 109.62% |
| MIN & MAX of line above  | MIN            | 83.53% MAX | 125.14%    |         |         |              | MIN        | 65.11% MAX | 157.08% |         |                |        | MIN                 | 70.42% MAX | 147.02%    |         |
| Std Deviation line -2 above  |                |            |            |         |         |              |            |            |         |         |                |        | STANDARD DEVIATION: | 24.62%     |            |         |
|  |                |            |            |         |         |              |            |            |         |         |                |        |                     |            |            |         |

## BONUS/MALUS SYSTEM MODEL - French



| BONUS/MALUS SYSTEM MODEL - French |        |        |        |        |        |        |        |        |        |         |         | Probability | Claim   | 5.00%   | NUMBER OF INSURED |         |         |         |         |         |         | Premium |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-------------|---------|---------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| Class / Year                      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      |             |         |         | 10                | 11      | 12      | 20      | 30      | 40      | 50      |         |
| NEW ENTRANTS:                     | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 10 000  | 0           | 0       | 0       | 0                 | 0       | 0       | 0       | 0       | 0       | 0       |         |
| 1                                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0           | 0       | 0       | 0                 | 0       | 0       | 0       | 0       | 0       | 100.00% |         |
| 2                                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 1       | 1       | 1           | 1       | 1       | 0                 | 0       | 0       | 0       | 0       | 0       | 300.00% |         |
| 3                                 | 0      | 0      | 0      | 1      | 4      | 6      | 7      | 8      | 8      | 9       | 9       | 9           | 9       | 9       | 1                 | 0       | 0       | 0       | 0       | 0       | 250.00% |         |
| 4                                 | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 2      | 2      | 3       | 3       | 3           | 3       | 3       | 1                 | 0       | 0       | 0       | 0       | 0       | 200.00% |         |
| 5                                 | 0      | 0      | 25     | 49     | 51     | 55     | 56     | 57     | 60     | 61      | 61      | 62          | 62      | 62      | 3                 | 0       | 0       | 0       | 0       | 0       | 150.00% |         |
| 6                                 | 0      | 0      | 0      | 24     | 69     | 71     | 78     | 82     | 83     | 84      | 87      | 87          | 87      | 87      | 6                 | 1       | 1       | 1       | 1       | 1       | 137.50% |         |
| 7                                 | 0      | 0      | 0      | 0      | 0      | 43     | 63     | 68     | 77     | 83      | 85      | 89          | 89      | 89      | 12                | 1       | 1       | 1       | 1       | 1       | 125.00% |         |
| 8                                 | 0      | 500    | 975    | 999    | 1 044  | 1 068  | 1 093  | 1 137  | 1 180  | 1 206   | 1 222   | 1 237       | 1 237   | 1 237   | 6                 | 3       | 3       | 3       | 3       | 3       | 112.50% |         |
| 9                                 | 10 000 | 10 000 | 10 475 | 11 378 | 11 423 | 11 531 | 11 638 | 11 671 | 11 709 | 11 762  | 11 790  | 1 805       | 1 805   | 1 805   | 19                | 16      | 16      | 16      | 16      | 16      | 100.00% |         |
| 10                                | 0      | 9 500  | 9 500  | 9 951  | 11 237 | 11 280 | 11 403 | 11 583 | 11 616 | 11 658  | 11 738  | 2 266       | 2 266   | 2 266   | 22                | 16      | 16      | 16      | 16      | 16      | 95.00%  |         |
| 11                                | 0      | 0      | 9 025  | 9 025  | 9 454  | 11 083 | 11 123 | 11 260 | 11 522 | 11 555  | 11 602  | 11 711      | 294     | 294     | 28                | 17      | 17      | 17      | 17      | 17      | 90.00%  |         |
| 12                                | 0      | 0      | 0      | 8 574  | 8 574  | 8 981  | 10 915 | 10 954 | 11 102 | 11 456  | 11 489  | 11 542      | 384     | 384     | 36                | 20      | 19      | 19      | 19      | 19      | 85.00%  |         |
| 13                                | 0      | 0      | 0      | 0      | 8 145  | 8 145  | 8 532  | 10 737 | 10 774 | 10 932  | 11 384  | 11 418      | 897     | 897     | 66                | 44      | 43      | 43      | 43      | 43      | 80.00%  |         |
| 14                                | 0      | 0      | 0      | 0      | 0      | 7 738  | 7 738  | 8 105  | 10 550 | 10 584  | 10 751  | 11 307      | 1 277   | 1 277   | 277               | 277     | 276     | 276     | 276     | 276     | 76.00%  |         |
| 15                                | 0      | 0      | 0      | 0      | 0      | 0      | 7 351  | 7 351  | 7 700  | 10 354  | 10 387  | 10 561      | 1 432   | 1 432   | 330               | 278     | 275     | 275     | 275     | 275     | 72.00%  |         |
| 16                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 6 983  | 6 983  | 7 315   | 10 151  | 10 183      | 4 391   | 4 391   | 345               | 278     | 275     | 275     | 275     | 275     | 68.00%  |         |
| 17                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 6 634  | 6 634  | 6 949   | 9 943   | 4 903       | 4 903   | 459     | 289               | 285     | 285     | 285     | 285     | 64.00%  |         |         |
| 18                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 6 302   | 6 302   | 6 602       | 5 185   | 697     | 513               | 504     | 504     | 504     | 504     | 60.00%  |         |         |
| 19                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 5 987   | 5 987       | 13 223  | 5 031   | 4 919             | 4 919   | 4 914   | 4 914   | 4 914   | 4 914   | 57.00%  |         |
| 20                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 5 688       | 11 844  | 5 029   | 4 674             | 4 668   | 4 668   | 4 668   | 4 668   | 4 668   | 54.00%  |         |
| 21                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0           | 0       | 10 823  | 4 753             | 4 451   | 4 451   | 4 451   | 4 451   | 51.00%  |         |         |
| 22                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0           | 0       | 44 954  | 82 855            | 84 202  | 84 251  | 84 251  | 84 251  | 50.00%  |         |         |
| TOTAL                             | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000     | 100 000 | 100 000 | 100 000           | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | Loading |         |

| BONUS/MALUS SYSTEM MODEL - French |        |        |        |        |        |        |        |        |        |         |         | Probability | Claim   | 10.00%  | NUMBER OF INSURED |         |         |         |         |         |         | Premium |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-------------|---------|---------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| Class / Year                      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      |             |         |         | 10                | 11      | 12      | 20      | 30      | 40      | 50      |         |
| NEW ENTRANTS:                     | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 10 000  | 0           | 0       | 0       | 0                 | 0       | 0       | 0       | 0       | 0       | 0       | 100.00% |
| 1                                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 2      | 2       | 3       | 3           | 3       | 3       | 2                 | 0       | 0       | 0       | 0       | 0       | 300.00% |         |
| 2                                 | 0      | 0      | 0      | 0      | 1      | 4      | 7      | 10     | 12     | 13      | 14      | 15          | 15      | 15      | 1                 | 1       | 1       | 1       | 1       | 1       | 250.00% |         |
| 3                                 | 0      | 0      | 0      | 10     | 28     | 46     | 57     | 63     | 70     | 75      | 78      | 82          | 82      | 82      | 6                 | 4       | 3       | 3       | 3       | 3       | 200.00% |         |
| 4                                 | 0      | 0      | 0      | 0      | 0      | 0      | 7      | 14     | 16     | 21      | 25      | 26          | 26      | 17      | 3                 | 1       | 1       | 1       | 1       | 175.00% |         |         |
| 5                                 | 0      | 0      | 100    | 190    | 208    | 232    | 243    | 255    | 272    | 282     | 289     | 298         | 298     | 298     | 11                | 5       | 5       | 5       | 5       | 5       | 150.00% |         |
| 6                                 | 0      | 0      | 0      | 90     | 252    | 268    | 312    | 341    | 351    | 368     | 386     | 392         | 392     | 392     | 22                | 17      | 16      | 16      | 16      | 16      | 137.50% |         |
| 7                                 | 0      | 0      | 0      | 0      | 0      | 146    | 211    | 244    | 297    | 336     | 355     | 383         | 383     | 383     | 38                | 22      | 20      | 20      | 20      | 20      | 125.00% |         |
| 8                                 | 0      | 1 000  | 1 900  | 1 990  | 2 152  | 2 241  | 2 344  | 2 499  | 2 645  | 2 753   | 2 844   | 1 938       | 509     | 130     | 73                | 65      | 65      | 65      | 65      | 65      | 112.50% |         |
| 9                                 | 10 000 | 10 000 | 10 900 | 12 520 | 12 682 | 13 053 | 13 420 | 13 568 | 13 744 | 13 959  | 4 087   | 4 188       | 760     | 245     | 174               | 163     | 163     | 163     | 163     | 163     | 100.00% |         |
| 10                                | 0      | 9 000  | 9 000  | 9 810  | 11 997 | 12 143 | 12 544 | 13 109 | 13 254 | 13 450  | 13 756  | 4 884       | 1 166   | 297     | 191               | 176     | 176     | 176     | 176     | 176     | 95.00%  |         |
| 11                                | 0      | 0      | 8 100  | 8 100  | 8 829  | 11 453 | 11 585 | 12 005 | 12 779 | 12 920  | 13 136  | 13 538      | 1 539   | 395     | 212               | 190     | 190     | 190     | 190     | 190     | 90.00%  |         |
| 12                                | 0      | 0      | 0      | 7 290  | 7 290  | 7 946  | 10 899 | 11 017 | 11 448 | 12 431  | 12 568  | 12 801      | 1 870   | 494     | 262               | 226     | 226     | 226     | 226     | 226     | 85.00%  |         |
| 13                                | 0      | 0      | 0      | 0      | 6 561  | 6 561  | 7 151  | 10 340 | 10 446 | 10 882  | 12 069  | 12 200      | 3 249   | 713     | 439               | 397     | 397     | 397     | 397     | 397     | 80.00%  |         |
| 14                                | 0      | 0      | 0      | 0      | 0      | 5 905  | 5 905  | 6 436  | 9 784  | 9 880   | 10 315  | 11 693      | 4 019   | 1 652   | 1 250             | 1 210   | 1 210   | 1 210   | 1 210   | 76.00%  |         |         |
| 15                                | 0      | 0      | 0      | 0      | 0      | 0      | 5 314  | 5 314  | 5 793  | 9 236   | 9 323   | 9 753       | 4 241   | 1 690   | 1 270             | 1 198   | 1 198   | 1 198   | 1 198   | 72.00%  |         |         |
| 16                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 783  | 4 783  | 5 213   | 8 700   | 8 778       | 7 853   | 1 746   | 1 273             | 1 196   | 1 196   | 1 196   | 1 196   | 68.00%  |         |         |
| 17                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 305  | 4 305   | 4 692   | 8 179       | 7 929   | 2 274   | 1 344             | 1 255   | 1 255   | 1 255   | 1 255   | 64.00%  |         |         |
| 18                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 874   | 3 874   | 4 223       | 7 936   | 2 945   | 2 111             | 1 960   | 1 960   | 1 960   | 1 960   | 60.00%  |         |         |
| 19                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 487   | 3 487   | 3 987       | 4 223   | 2 945   | 2 111             | 9 213   | 9 213   | 9 213   | 9 213   | 57.00%  |         |         |
| 20                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0           | 0       | 0       | 8 319             | 8 289   | 8 289   | 8 289   | 8 289   | 8 289   | 54.00%  |         |
| 21                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0           | 0       | 0       | 0                 | 7 567   | 7 459   | 7 459   | 7 459   | 7 459   | 51.00%  |         |
| 22                                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0           | 0       | 0       | 0                 | 25 818  | 60 914  | 66 957  | 66 957  | 66 957  | 50.00%  |         |
| TOTAL                             | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000     | 100 000 | 100 000 | 100 000           | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | Loading |         |
|                                   |        |        |        |        |        |        |        |        |        |         |         |             |         |         |                   |         |         |         |         |         | 5       |         |

**BONUS/MALUS SYSTEM MODEL - French**

| Class / Year     | Probability Claim |        |        |        |        |        |        |        |        |         |         |         | NUMBER OF INSURED |         |         |         |         |         |         |         |         |         |         |         |         |    |  |  |  |
|------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|--|--|--|
|                  | 1                 | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20                | 30      | 40      | 50      | Scale   |         |         |         |         |         |         |         |         |    |  |  |  |
| NEW ENTRANTS     | 10 000            | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0                 | 0       | 0       | 0       | 100.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 1                | 0                 | 0      | 0      | 0      | 0      | 24     | 100    | 221    | 364    | 509     | 655     | 798     | 1 299             | 1 080   | 986     | 944     | 300.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 2                | 0                 | 0      | 0      | 0      | 81     | 251    | 444    | 611    | 753    | 893     | 1 022   | 1 145   | 1 162             | 1 001   | 931     | 899     | 250.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 3                | 0                 | 0      | 0      | 270    | 648    | 1 026  | 1 317  | 1 587  | 1 866  | 2 102   | 2 345   | 2 589   | 2 217             | 1 938   | 1 813   | 1 758   | 200.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 4                | 0                 | 0      | 0      | 0      | 0      | 0      | 93     | 157    | 216    | 325     | 416     | 490     | 846               | 752     | 708     | 684     | 175.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 5                | 0                 | 0      | 900    | 1 530  | 1 908  | 2 305  | 2 556  | 2 855  | 3 150  | 3 396   | 3 653   | 3 933   | 2 471             | 2 182   | 2 030   | 1 966   | 150.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 6                | 0                 | 0      | 630    | 1 512  | 1 777  | 2 332  | 2 703  | 3 003  | 3 346  | 3 675   | 3 933   | 2 808   | 2 458             | 2 336   | 2 274   | 137.50% |         |         |         |         |         |         |         |         |         |    |  |  |  |
| 7                | 0                 | 0      | 0      | 0      | 617    | 833    | 1 158  | 1 566  | 1 906  | 2 194   | 2 555   | 2 986   | 2 694             | 2 537   | 2 473   | 125.00% |         |         |         |         |         |         |         |         |         |    |  |  |  |
| 8                | 0                 | 3 000  | 5 100  | 5 730  | 6 612  | 7 185  | 7 904  | 8 709  | 9 474  | 10 228  | 11 030  | 8 827   | 7 420             | 6 644   | 6 280   | 6 125   | 112.50% |         |         |         |         |         |         |         |         |    |  |  |  |
| 9                | 10 000            | 10 000 | 12 100 | 15 040 | 15 922 | 17 598 | 19 181 | 20 326 | 21 659 | 23 023  | 14 178  | 15 380  | 11 403            | 10 129  | 9 552   | 9 271   | 100.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 10               | 0                 | 7 000  | 7 000  | 8 470  | 11 557 | 12 174 | 13 564 | 15 277 | 16 169 | 17 338  | 18 708  | 12 661  | 10 716            | 9 225   | 8 692   | 8 440   | 95.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 11               | 0                 | 4 900  | 4 900  | 5 929  | 8 810  | 9 242  | 10 366 | 12 095 | 12 783 | 13 788  | 15 132  | 9 697   | 8 569             | 7 888   | 7 668   | 7 407   | 90.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 12               | 0                 | 0      | 3 430  | 3 430  | 4 150  | 6 671  | 6 974  | 7 866  | 9 521  | 10 047  | 10 898  | 8 386   | 7 735             | 7 310   | 7 032   | 85.00%  |         |         |         |         |         |         |         |         |         |    |  |  |  |
| 13               | 0                 | 0      | 0      | 0      | 2 401  | 2 401  | 2 905  | 5 023  | 5 235  | 5 933   | 7 455   | 7 854   | 8 278             | 6 993   | 6 815   | 6 707   | 80.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 14               | 0                 | 0      | 0      | 0      | 0      | 1 681  | 1 681  | 2 034  | 3 763  | 3 911   | 4 452   | 5 808   | 6 935             | 6 857   | 6 617   | 6 655   | 76.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 15               | 0                 | 0      | 0      | 0      | 0      | 0      | 1 176  | 1 176  | 1 424  | 2 807   | 2 911   | 3 326   | 5 444             | 5 709   | 5 763   | 5 664   | 72.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 16               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 824    | 824     | 996     | 2 086   | 2 159             | 3 517   | 4 729   | 4 875   | 4 907   | 68.00%  |         |         |         |         |         |         |         |    |  |  |  |
| 17               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 576     | 576     | 698     | 1 545             | 3 813   | 4 375   | 4 195   | 4 279   | 64.00%  |         |         |         |         |         |         |         |    |  |  |  |
| 18               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 404     | 404     | 488               | 2 804   | 3 775   | 4 100   | 4 119   | 60.00%  |         |         |         |         |         |         |         |    |  |  |  |
| 19               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 282     | 282     | 2 605             | 4 193   | 5 130   | 5 532   | 57.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 20               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 198               | 1 412   | 3 053   | 3 521   | 3 835   | 54.00%  |         |         |         |         |         |         |         |    |  |  |  |
| 21               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0                 | 867     | 1 977   | 2 497   | 2 662   | 51.00%  |         |         |         |         |         |         |         |    |  |  |  |
| 22               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0                 | 0       | 1 115   | 3 931   | 5 424   | 6 107   | 50.00%  |         |         |         |         |         |         |    |  |  |  |
| TOTAL            | 10 000            | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000           | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | Loading |    |  |  |  |
| Weighted Average | Type 1            | 20.00% |        |        |        |        |        |        |        |         |         |         |                   |         |         |         |         |         |         |         |         |         |         |         |         | 10 |  |  |  |
|                  | Type 2            | 75.00% |        |        |        |        |        |        |        |         |         |         |                   |         |         |         |         |         |         |         |         |         |         |         |         | 5  |  |  |  |
|                  | Type 3            | 5.00%  |        |        |        |        |        |        |        |         |         |         |                   |         |         |         |         |         |         |         |         |         |         |         |         |    |  |  |  |
| Class / Year     | 1                 | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20                | 30      | 40      | 50      | Scale   | 100.00% |         |         |         |         |         |         |         |    |  |  |  |
| 1                | 0                 | 0      | 0      | 0      | 0      | 1      | 5      | 12     | 20     | 27      | 35      | 42      | 66                | 54      | 49      | 47      | 300.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 2                | 0                 | 0      | 0      | 0      | 5      | 15     | 28     | 38     | 46     | 54      | 62      | 68      | 62                | 51      | 47      | 45      | 250.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 3                | 0                 | 0      | 0      | 21     | 54     | 87     | 110    | 129    | 148    | 163     | 178     | 193     | 126               | 101     | 93      | 90      | 200.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 4                | 0                 | 0      | 0      | 0      | 0      | 0      | 10     | 19     | 23     | 32      | 40      | 45      | 55                | 40      | 36      | 35      | 175.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 5                | 0                 | 0      | 125    | 229    | 262    | 300    | 321    | 346    | 373    | 393     | 411     | 433     | 159               | 118     | 106     | 102     | 150.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 6                | 0                 | 0      | 0      | 104    | 278    | 304    | 366    | 407    | 430    | 460     | 491     | 508     | 196               | 140     | 129     | 126     | 137.50% |         |         |         |         |         |         |         |         |    |  |  |  |
| 7                | 0                 | 0      | 0      | 0      | 0      | 149    | 213    | 255    | 317    | 364     | 393     | 433     | 257               | 163     | 144     | 139     | 125.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 8                | 0                 | 1 000  | 1 875  | 1 979  | 2 153  | 2 254  | 2 372  | 2 537  | 2 693  | 2 817   | 2 929   | 2 043   | 766               | 431     | 369     | 356     | 112.50% |         |         |         |         |         |         |         |         |    |  |  |  |
| 9                | 10 000            | 10 000 | 10 875 | 12 418 | 12 592 | 12 977 | 13 352 | 13 526 | 13 733 | 13 973  | 4 132   | 4 271   | 1 161             | 694     | 611     | 589     | 500.00% |         |         |         |         |         |         |         |         |    |  |  |  |
| 10               | 0                 | 9 000  | 9 000  | 9 771  | 11 823 | 11 972 | 12 367 | 12 912 | 13 072 | 13 286  | 13 600  | 4 749   | 1 450             | 688     | 581     | 557     | 95.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 11               | 0                 | 0      | 8 125  | 8 125  | 8 809  | 11 247 | 11 375 | 11 774 | 12 493 | 12 640  | 12 862  | 13 252  | 1 698             | 731     | 557     | 530     | 90.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 12               | 0                 | 0      | 0      | 7 354  | 7 354  | 7 963  | 10 691 | 10 802 | 11 200 | 12 091  | 12 226  | 12 454  | 1 898             | 764     | 566     | 525     | 85.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 13               | 0                 | 0      | 0      | 0      | 6 670  | 6 670  | 7 215  | 10 154 | 10 251 | 10 645  | 11 701  | 11 827  | 3 030             | 898     | 679     | 642     | 80.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 14               | 0                 | 0      | 0      | 0      | 0      | 6 060  | 6 060  | 6 550  | 9 636  | 9 723   | 10 109  | 11 322  | 3 616             | 1 646   | 1 324   | 1 295   | 76.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 15               | 0                 | 0      | 0      | 0      | 0      | 0      | 5 515  | 5 515  | 5 956  | 9 138   | 9 215   | 9 593   | 3 739             | 1 619   | 1 296   | 1 237   | 72.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 16               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 5 025  | 5 025  | 5 423   | 8 660   | 8 728   | 7 034             | 1 615   | 1 254   | 1 198   | 68.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 17               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 584  | 4 584   | 4 944   | 8 200   | 7 118             | 2 016   | 1 276   | 1 212   | 64.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 18               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 186   | 4 186   | 4 512   | 7 129             | 2 537   | 1 891   | 1 777   | 60.00%  |         |         |         |         |         |         |         |         |    |  |  |  |
| 19               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 3 827   | 3 827             | 12 779  | 8 261   | 8 182   | 8 169   | 57.00%  |         |         |         |         |         |         |         |    |  |  |  |
| 20               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0                 | 3 501   | 10 370  | 7 961   | 7 350   | 54.00%  |         |         |         |         |         |         |         |    |  |  |  |
| 21               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0                 | 0       | 0       | 8 880   | 7 019   | 6 690   | 6 165   | 51.00%  |         |         |         |         |         |    |  |  |  |
| 22               | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0       | 0                 | 0       | 0       | 28 410  | 62 453  | 66 768  | 67 373  | 50.00%  |         |         |         |         |         |    |  |  |  |
| TOTAL            | 10 000            | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000           | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | Av Prem |    |  |  |  |

| BONUS/MALUS SYSTEM MODEL - French |         |        |        |        |        |        |        |        |        | Probability Claim | 5.00%  | UNITS OF STANDARD PREMIUM |        |        |        |        |        |        |        |        |        |       |       |
|-----------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| Class / Year                      | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |                   |        | 10                        | 11     | 12     | 20     | 30     | 40     | 50     |        |        |        |       |       |
| 1                                 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                 | 0      | 0                         | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |       |       |
| 2                                 | 0       | 0      | 0      | 0      | 0      | 1      | 1      | 2      | 2      | 2                 | 2      | 2                         | 2      | 2      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |       |       |
| 3                                 | 0       | 0      | 0      | 3      | 7      | 12     | 15     | 16     | 17     | 17                | 18     | 18                        | 18     | 18     | 0      | 0      | 0      | 0      | 0      | 0      | 0      |       |       |
| 4                                 | 0       | 0      | 0      | 0      | 0      | 0      | 2      | 4      | 4      | 5                 | 5      | 5                         | 5      | 5      | 2      | 0      | 0      | 0      | 0      | 0      | 0      |       |       |
| 5                                 | 0       | 0      | 38     | 73     | 77     | 82     | 84     | 86     | 89     | 91                | 92     | 93                        | 94     | 94     | 0      | 0      | 0      | 0      | 0      | 0      | 0      |       |       |
| 6                                 | 0       | 0      | 0      | 33     | 95     | 98     | 107    | 113    | 114    | 116               | 119    | 120                       | 120    | 120    | 8      | 1      | 1      | 1      | 1      | 1      | 1      |       |       |
| 7                                 | 0       | 0      | 0      | 0      | 0      | 54     | 79     | 85     | 96     | 104               | 106    | 111                       | 115    | 115    | 2      | 1      | 1      | 1      | 1      | 1      | 1      |       |       |
| 8                                 | 0       | 563    | 1 097  | 1 124  | 1 174  | 1 201  | 1 230  | 1 280  | 1 327  | 1 357             | 1 374  | 1 390                     | 1 390  | 1 390  | 72     | 6      | 4      | 4      | 4      | 4      | 4      |       |       |
| 9                                 | 10 000  | 10 000 | 10 475 | 11 378 | 11 423 | 11 531 | 11 638 | 11 671 | 11 709 | 11 762            | 11 790 | 11 805                    | 11 805 | 11 805 | 104    | 19     | 16     | 16     | 16     | 16     | 16     |       |       |
| 10                                | 0       | 9 025  | 9 025  | 9 454  | 10 675 | 10 716 | 10 833 | 11 004 | 11 035 | 11 075            | 11 151 | 12 153                    | 12 153 | 12 153 | 21     | 16     | 15     | 15     | 15     | 15     | 15     |       |       |
| 11                                | 0       | 0      | 8 123  | 8 123  | 8 508  | 9 974  | 10 011 | 10 134 | 10 370 | 10 400            | 10 442 | 10 540                    | 10 540 | 10 540 | 265    | 26     | 16     | 16     | 15     | 15     | 15     |       |       |
| 12                                | 0       | 0      | 0      | 7 288  | 7 288  | 7 634  | 9 278  | 9 311  | 9 437  | 9 738             | 9 766  | 9 810                     | 9 810  | 9 810  | 326    | 30     | 17     | 17     | 17     | 17     | 17     |       |       |
| 13                                | 0       | 0      | 0      | 0      | 6 516  | 6 516  | 6 826  | 8 590  | 8 619  | 8 746             | 9 107  | 9 134                     | 9 134  | 9 134  | 53     | 35     | 35     | 35     | 35     | 35     | 35     |       |       |
| 14                                | 0       | 0      | 0      | 0      | 0      | 5 881  | 5 881  | 6 160  | 8 018  | 8 044             | 8 171  | 8 593                     | 8 593  | 8 593  | 245    | 211    | 210    | 210    | 210    | 210    | 210    |       |       |
| 15                                | 0       | 0      | 0      | 0      | 0      | 0      | 5 293  | 5 293  | 5 544  | 7 455             | 7 479  | 7 604                     | 1 031  | 1 031  | 200    | 198    | 198    | 198    | 198    | 198    | 198    |       |       |
| 16                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 4 749  | 4 749  | 4 974             | 6 903  | 6 924                     | 6 924  | 6 924  | 235    | 189    | 187    | 187    | 187    | 187    | 187    |       |       |
| 17                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 246  | 4 246             | 4 448  | 6 364                     | 6 364  | 6 364  | 293    | 183    | 183    | 183    | 183    | 183    | 183    |       |       |
| 18                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 781             | 3 781  | 3 961                     | 3 111  | 3 111  | 418    | 308    | 303    | 303    | 303    | 303    | 303    |       |       |
| 19                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                 | 3 413  | 3 413                     | 7 537  | 2 868  | 2 868  | 2 804  | 2 804  | 2 804  | 2 804  | 2 804  | 2 804  | 2 804 |       |
| 20                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                 | 0      | 3 072                     | 6 396  | 2 716  | 2 524  | 2 524  | 2 521  | 2 521  | 2 521  | 2 521  | 2 521  | 2 521 |       |
| 21                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                 | 0      | 0                         | 5 520  | 2 424  | 2 270  | 2 262  | 2 262  | 2 262  | 2 262  | 2 262  | 2 262  | 2 262 | 2 262 |
| 22                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                 | 0      | 0                         | 0      | 0      | 22 477 | 41 427 | 42 101 | 42 125 | 42 125 | 42 125 | 42 125 |       |       |
|                                   | 10 000  | 19 588 | 28 757 | 37 473 | 45 763 | 53 699 | 61 277 | 68 495 | 75 375 | 81 913            | 78 168 | 74 551                    | 54 874 | 51 022 | 50 897 | 50 893 |        |        |        |        |        |       |       |
|                                   | 100.00% | 97.94% | 95.86% | 93.68% | 91.53% | 89.50% | 87.54% | 85.62% | 83.75% | 81.91%            | 78.17% | 74.55%                    | 54.87% | 51.02% | 50.90% | 50.89% |        |        |        |        |        |       |       |
| Probability Claim                 |         |        |        |        |        |        |        |        |        |                   |        |                           |        |        |        |        |        |        |        |        |        |       |       |
| 10.00%                            |         |        |        |        |        |        |        |        |        |                   |        |                           |        |        |        |        |        |        |        |        |        |       |       |
| Class / Year                      |         |        |        |        |        |        |        |        |        |                   |        |                           |        |        |        |        |        |        |        |        |        |       |       |
| 1                                 | 2       | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11                | 12     | 20                        | 30     | 40     | 50     |        |        |        |        |        |        |       |       |
| 1                                 | 0       | 0      | 0      | 0      | 0      | 1      | 3      | 5      | 7      | 8                 | 9      | 5                         | 1      | 1      | 0      |        |        |        |        |        |        |       |       |
| 2                                 | 0       | 0      | 0      | 3      | 9      | 18     | 25     | 29     | 32     | 35                | 36     | 13                        | 3      | 2      | 2      |        |        |        |        |        |        |       |       |
| 3                                 | 0       | 0      | 20     | 56     | 92     | 115    | 127    | 141    | 150    | 157               | 164    | 41                        | 11     | 7      | 7      |        |        |        |        |        |        |       |       |
| 4                                 | 0       | 0      | 0      | 0      | 0      | 13     | 24     | 28     | 36     | 43                | 46     | 29                        | 6      | 2      | 2      |        |        |        |        |        |        |       |       |
| 5                                 | 0       | 150    | 285    | 312    | 348    | 364    | 383    | 408    | 422    | 433               | 447    | 71                        | 17     | 8      | 7      |        |        |        |        |        |        |       |       |
| 6                                 | 0       | 0      | 124    | 347    | 369    | 429    | 469    | 483    | 506    | 531               | 539    | 100                       | 31     | 23     | 22     |        |        |        |        |        |        |       |       |
| 7                                 | 0       | 0      | 0      | 0      | 182    | 264    | 305    | 372    | 420    | 444               | 479    | 175                       | 47     | 28     | 25     |        |        |        |        |        |        |       |       |
| 8                                 | 0       | 1 125  | 2 138  | 2 239  | 2 421  | 2 521  | 2 637  | 2 812  | 2 975  | 3 097             | 3 200  | 2 181                     | 573    | 146    | 82     | 73     |        |        |        |        |        |       |       |
| 9                                 | 10 000  | 10 000 | 10 900 | 12 520 | 12 682 | 13 055 | 13 420 | 13 568 | 13 744 | 13 959            | 4 087  | 4 188                     | 760    | 245    | 174    | 163    |        |        |        |        |        |       |       |
| 10                                | 0       | 8 550  | 8 550  | 9 320  | 11 397 | 11 536 | 11 917 | 12 453 | 12 591 | 12 778            | 13 068 | 4 640                     | 1 107  | 282    | 181    | 167    |        |        |        |        |        |       |       |
| 11                                | 0       | 0      | 7 290  | 7 290  | 7 946  | 10 308 | 10 426 | 10 804 | 11 501 | 11 628            | 11 822 | 12 184                    | 1 385  | 356    | 191    | 171    |        |        |        |        |        |       |       |
| 12                                | 0       | 0      | 6 197  | 6 197  | 6 754  | 9 264  | 9 364  | 9 731  | 10 567 | 10 683            | 10 881 | 1 589                     | 420    | 223    | 192    |        |        |        |        |        |        |       |       |
| 13                                | 0       | 0      | 0      | 5 249  | 5 249  | 5 721  | 8 272  | 8 357  | 8 706  | 9 655             | 9 760  | 2 599                     | 570    | 351    | 318    |        |        |        |        |        |        |       |       |
| 14                                | 0       | 0      | 0      | 0      | 4 488  | 4 488  | 4 892  | 7 436  | 7 509  | 7 840             | 8 887  | 3 054                     | 1 255  | 950    | 920    |        |        |        |        |        |        |       |       |
| 15                                | 0       | 0      | 0      | 0      | 0      | 3 826  | 3 826  | 4 171  | 6 650  | 6 712             | 7 022  | 3 053                     | 1 217  | 915    | 863    |        |        |        |        |        |        |       |       |
| 16                                | 0       | 0      | 0      | 0      | 0      | 0      | 3 252  | 3 252  | 3 545  | 5 916             | 5 969  | 5 340                     | 1 187  | 866    | 813    |        |        |        |        |        |        |       |       |
| 17                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 2 755  | 2 755  | 3 003             | 5 234  | 5 075                     | 1 455  | 860    | 803    |        |        |        |        |        |        |       |       |
| 18                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 325  | 2 325             | 2 534  | 4 761                     | 1 767  | 1 266  | 1 176  |        |        |        |        |        |        |       |       |
| 19                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 987             | 1 987  | 7 603                     | 5 354  | 5 276  | 5 251  |        |        |        |        |        |        |       |       |
| 20                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                 | 1 695  | 5 710                     | 4 898  | 4 492  | 4 476  |        |        |        |        |        |        |       |       |
| 21                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                 | 0      | 4 537                     | 4 060  | 3 859  | 3 804  |        |        |        |        |        |        |       |       |
| 22                                | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                 | 0      | 0                         | 12 909 | 30 457 | 33 104 | 33 478 |        |        |        |        |        |       |       |
|                                   | 10 000  | 19 675 | 29 028 | 37 994 | 46 609 | 54 911 | 62 903 | 70 580 | 77 978 | 85 090            | 81 948 | 78 883                    | 60 490 | 53 785 | 52 862 | 52 733 |        |        |        |        |        |       |       |
| Frequency = 10                    | 100.00% | 98.38% | 96.76% | 94.98% | 93.22% | 91.52% | 89.86% | 88.23% | 86.64% | 85.09%            | 81.95% | 78.88%                    | 60.49% | 53.79% | 52.86% | 52.73% |        |        |        |        |        |       |       |
| Frequency = 5%                    | 100.00% | 97.94% | 95.86% | 93.68% | 91.53% | 89.50% | 87.54% | 85.62% | 83.75% | 81.91%            | 78.17% | 74.55%                    | 54.87% | 51.02% | 50.90% | 50.89% |        |        |        |        |        |       |       |

## BONUS/MALUS SYSTEM MODEL - French

## Probability Claim 30.00%

## UNITS OF STANDARD PREMIUM

| Class / Year   | 1      | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 20      | 30     | 40     | 50     |        |
|----------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 1              | 0      | 0       | 0       | 0       | 0       | 75      | 289     | 663     | 1 091   | 1 528   | 1 965   | 2 393   | 3 897   | 3 240  | 2 957  | 2 831  |        |
| 2              | 0      | 0       | 0       | 0       | 203     | 628     | 1 110   | 1 526   | 1 882   | 2 232   | 2 556   | 2 862   | 2 906   | 2 502  | 2 328  | 2 249  |        |
| 3              | 0      | 0       | 0       | 540     | 1 296   | 2 052   | 2 634   | 3 174   | 3 731   | 4 204   | 4 689   | 5 178   | 4 433   | 3 876  | 3 625  | 3 517  |        |
| 4              | 0      | 0       | 0       | 0       | 0       | 0       | 162     | 276     | 378     | 568     | 728     | 857     | 1 480   | 1 316  | 1 239  | 1 197  |        |
| 5              | 0      | 0       | 1 350   | 2 295   | 2 862   | 3 457   | 3 834   | 4 283   | 4 724   | 5 095   | 5 479   | 5 899   | 3 706   | 3 272  | 3 046  | 2 948  |        |
| 6              | 0      | 0       | 866     | 2 079   | 2 443   | 3 207   | 3 716   | 4 129   | 4 601   | 5 053   | 5 408   | 5 861   | 3 380   | 3 212  | 3 126  |        |        |
| 7              | 0      | 0       | 0       | 0       | 0       | 772     | 1 042   | 1 447   | 1 958   | 2 383   | 2 743   | 3 194   | 3 733   | 3 368  | 3 172  | 3 091  |        |
| 8              | 0      | 3 375   | 5 738   | 6 446   | 7 439   | 8 083   | 8 892   | 9 798   | 10 658  | 11 506  | 12 409  | 9 931   | 8 347   | 7 475  | 7 065  | 6 890  |        |
| 9              | 10 000 | 10 000  | 12 100  | 15 040  | 15 922  | 17 598  | 19 181  | 20 326  | 21 659  | 23 023  | 14 178  | 15 380  | 11 403  | 10 129 | 9 552  | 9 271  |        |
| 10             | 0      | 6 650   | 6 650   | 8 047   | 10 979  | 11 566  | 12 885  | 14 513  | 15 361  | 16 471  | 17 773  | 12 028  | 10 180  | 8 764  | 8 257  | 8 018  |        |
| 11             | 0      | 0       | 4 410   | 4 410   | 5 336   | 7 929   | 8 318   | 9 329   | 10 885  | 11 505  | 12 410  | 13 618  | 8 727   | 7 712  | 7 099  | 6 901  |        |
| 12             | 0      | 0       | 0       | 2 916   | 2 916   | 3 528   | 5 671   | 5 928   | 6 686   | 8 093   | 8 540   | 9 263   | 7 128   | 6 575  | 6 213  | 5 977  |        |
| 13             | 0      | 0       | 0       | 0       | 1 921   | 1 921   | 2 324   | 4 018   | 4 188   | 4 747   | 5 964   | 6 284   | 6 623   | 5 595  | 5 452  | 5 366  |        |
| 14             | 0      | 0       | 0       | 0       | 0       | 1 277   | 1 277   | 1 546   | 2 860   | 2 973   | 3 384   | 4 414   | 5 270   | 5 211  | 5 029  | 5 058  |        |
| 15             | 0      | 0       | 0       | 0       | 0       | 0       | 847     | 847     | 1 025   | 2 021   | 2 096   | 2 395   | 3 920   | 4 110  | 4 149  | 4 078  |        |
| 16             | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 560     | 560     | 678     | 1 419   | 1 468   | 3 616   | 3 216  | 3 315  | 3 336  |        |
| 17             | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 369     | 369     | 446     | 989     | 2 441   | 2 800  | 2 685  | 2 738  |        |
| 18             | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 242     | 242     | 293     | 1 682   | 2 265  | 2 460  | 2 471  |        |
| 19             | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 161     | 161     | 1 485   | 2 390  | 2 924  | 3 153  |        |
| 20             | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 107     | 762     | 1 649  | 1 901  | 2 071  |        |
| 21             | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 442     | 1 008  | 1 274  | 1 358  |        |
| 22             | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 557     | 1 965  | 2 712  | 3 053  |        |
| Frequency = 30 |        | 10 000  | 20 025  | 30 248  | 40 560  | 50 952  | 61 327  | 71 684  | 81 950  | 92 143  | 102 240 | 102 235 | 102 121 | 96 599 | 91 819 | 89 667 | 88 700 |
| Frequency = 10 |        | 100.00% | 100.13% | 100.83% | 101.40% | 101.90% | 102.21% | 102.41% | 102.44% | 102.38% | 102.24% | 102.23% | 102.12% | 96.60% | 91.82% | 89.67% | 88.70% |
| Frequency = 5% |        | 100.00% | 98.38%  | 96.76%  | 94.98%  | 93.22%  | 91.52%  | 89.86%  | 88.23%  | 86.64%  | 85.09%  | 81.95%  | 78.88%  | 60.49% | 53.79% | 52.86% | 52.73% |

| Class / Year | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |        |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1            | 0      | 0      | 0      | 0      | 0      | 4      | 16     | 36     | 59     | 82     | 104    | 126    | 199    | 163    | 148    | 142    |        |
| 2            | 0      | 0      | 0      | 0      | 12     | 38     | 69     | 95     | 116    | 136    | 154    | 171    | 155    | 127    | 118    | 114    |        |
| 3            | 0      | 0      | 0      | 43     | 108    | 174    | 221    | 257    | 295    | 326    | 356    | 386    | 253    | 202    | 187    | 181    |        |
| 4            | 0      | 0      | 0      | 0      | 0      | 0      | 18     | 33     | 40     | 56     | 70     | 78     | 96     | 70     | 64     | 61     |        |
| 5            | 0      | 0      | 188    | 343    | 392    | 451    | 482    | 519    | 560    | 590    | 617    | 649    | 239    | 176    | 158    | 153    |        |
| 6            | 0      | 0      | 0      | 143    | 383    | 418    | 503    | 560    | 591    | 632    | 675    | 698    | 270    | 192    | 178    | 173    |        |
| 7            | 0      | 0      | 0      | 0      | 0      | 186    | 266    | 318    | 396    | 453    | 491    | 541    | 321    | 204    | 180    | 174    |        |
| 8            | 0      | 1 125  | 2 109  | 2 226  | 2 423  | 2 535  | 2 668  | 2 855  | 3 030  | 3 170  | 3 295  | 2 298  | 861    | 485    | 415    | 400    |        |
| 9            | 10 000 | 10 000 | 10 875 | 12 418 | 12 592 | 12 977 | 13 352 | 13 526 | 13 733 | 13 973 | 4 132  | 4 271  | 1 161  | 694    | 611    | 589    |        |
| 10           | 0      | 8 550  | 8 550  | 9 283  | 11 232 | 11 373 | 11 748 | 12 266 | 12 418 | 12 622 | 12 920 | 4 512  | 1 378  | 654    | 552    | 529    |        |
| 11           | 0      | 0      | 7 313  | 7 313  | 7 928  | 10 122 | 10 238 | 10 596 | 11 244 | 11 376 | 11 575 | 11 927 | 1 528  | 658    | 501    | 477    |        |
| 12           | 0      | 0      | 0      | 6 251  | 6 251  | 6 769  | 9 087  | 9 182  | 9 520  | 10 277 | 10 392 | 10 586 | 1 613  | 650    | 481    | 446    |        |
| 13           | 0      | 0      | 0      | 0      | 5 336  | 5 772  | 8 123  | 8 201  | 8 516  | 9 361  | 9 461  | 2 424  | 718    | 543    | 514    |        |        |
| 14           | 0      | 0      | 0      | 0      | 0      | 4 606  | 4 606  | 4 978  | 7 324  | 7 389  | 7 683  | 8 605  | 2 748  | 1 251  | 1 006  | 985    |        |
| 15           | 0      | 0      | 0      | 0      | 0      | 0      | 3 971  | 3 971  | 4 288  | 6 580  | 6 635  | 6 907  | 2 692  | 1 166  | 933    | 890    |        |
| 16           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 417  | 3 417  | 3 688  | 5 889  | 5 935  | 4 783  | 1 098  | 853    | 814    |        |
| 17           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 934  | 2 934  | 3 164  | 5 248  | 4 556  | 4 556  | 816    | 776    |        |
| 18           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 512  | 2 512  | 2 707  | 4 277  | 1 522  | 1 134  | 1 066  |        |
| 19           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 181  | 2 181  | 7 284  | 4 709  | 4 664  | 4 636  |        |
| 20           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 891  | 5 600  | 4 299  | 3 969  |        |        |
| 21           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 529  | 3 580  | 3 412  | 3 373  |        |
| 22           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 14 205 | 31 226 | 33 384 | 33 687 |        |
| 167%         |        | 10 000 | 19 675 | 29 034 | 38 018 | 46 657 | 54 990 | 63 017 | 70 732 | 78 166 | 85 312 | 82 206 | 79 179 | 61 173 | 55 134 | 54 309 | 54 163 |

## BONUS/MALUS SYSTEM MODEL - French

| Class / Year | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | TOTAL | %Std | Premium |
|--------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|---------|
| Claim in Yea | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |       | Prem | Prem    |
| 1            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 2            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 3            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 4            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 5            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 6            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 7            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 8            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 9            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 10           |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 11           |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 12           | 1.00 |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 13           |      | 1.00 |      |      |      |      |      |      |      |      |      |       |      |         |
| 14           |      |      | 1.00 |      |      |      |      |      |      |      |      |       |      |         |
| 15           |      |      |      | 1.00 |      |      |      |      |      |      |      |       |      |         |
| 16           |      |      |      |      | 1.00 |      |      |      |      |      |      |       |      |         |
| 17           |      |      |      |      |      | 1.00 |      |      |      |      |      |       |      |         |
| 18           |      |      |      |      |      |      | 1.00 |      |      |      |      |       |      |         |
| 19           |      |      |      |      |      |      |      | 1.00 |      |      |      |       |      |         |
| 20           |      |      |      |      |      |      |      |      | 1.00 |      |      |       |      |         |
| 21           |      |      |      |      |      |      |      |      |      | 1.00 |      |       |      |         |
| 22           |      |      |      |      |      |      |      |      |      |      | 1.00 |       |      |         |
| TOTAL        | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |       |      |         |

## CALCULATION OF IMPLICIT EXCESS OR DEDUCTIBLE

| Class / Year | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | TOTAL | %Std | Premium |
|--------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|---------|
| Claim in Yea | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |       | Prem | Prem    |
| 1            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 2            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 3            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 4            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 5            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 6            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 7            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 8            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 9            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 10           |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 11           |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 12           | 1.00 |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 13           |      | 1.00 |      |      |      |      |      |      |      |      |      |       |      |         |
| 14           |      |      | 1.00 |      |      |      |      |      |      |      |      |       |      |         |
| 15           |      |      |      | 1.00 |      |      |      |      |      |      |      |       |      |         |
| 16           |      |      |      |      | 1.00 |      |      |      |      |      |      |       |      |         |
| 17           |      |      |      |      |      | 1.00 |      |      |      |      |      |       |      |         |
| 18           |      |      |      |      |      |      | 1.00 |      |      |      |      |       |      |         |
| 19           |      |      |      |      |      |      |      | 1.00 |      |      |      |       |      |         |
| 20           |      |      |      |      |      |      |      |      | 1.00 |      |      |       |      |         |
| 21           |      |      |      |      |      |      |      |      |      | 1.00 |      |       |      |         |
| 22           |      |      |      |      |      |      |      |      |      |      | 1.00 |       |      |         |
| TOTAL        | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |       |      |         |

| Class / Year | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | TOTAL | %Std | Premium |
|--------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|---------|
| Claim?       | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |       | Prem | Prem    |
| 1            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 2            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 3            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 4            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 5            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 6            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 7            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 8            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 9            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 10           |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 11           |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 12           | 1.00 | 1.13 |      |      |      |      |      |      |      |      |      |       |      |         |
| 13           |      |      | 1.13 |      |      |      |      |      |      |      |      |       |      |         |
| 14           |      |      |      | 1.00 |      |      |      |      |      |      |      |       |      |         |
| 15           |      |      |      |      | 1.00 |      |      |      |      |      |      |       |      |         |
| 16           |      |      |      |      |      | 1.00 |      |      |      |      |      |       |      |         |
| 17           |      |      |      |      |      |      | 1.00 |      |      |      |      |       |      |         |
| 18           |      |      |      |      |      |      |      | 1.00 |      |      |      |       |      |         |
| 19           |      |      |      |      |      |      |      |      | 1.00 |      |      |       |      |         |
| 20           |      |      |      |      |      |      |      |      |      | 1.00 |      |       |      |         |
| 21           |      |      |      |      |      |      |      |      |      |      | 1.00 |       |      |         |
| 22           |      |      |      |      |      |      |      |      |      |      |      | 1.00  |      |         |
| TOTAL        | 1.00 | 1.13 | 1.13 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |       |      |         |

| Class / Year | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | TOTAL | %Std | Premium |
|--------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|---------|
| Claim?       | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |       | Prem | Prem    |
| 1            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 2            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 3            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 4            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 5            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 6            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 7            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 8            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 9            |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 10           |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 11           |      |      |      |      |      |      |      |      |      |      |      |       |      |         |
| 12           | 1.00 | 1.13 |      |      |      |      |      |      |      |      |      |       |      |         |
| 13           |      |      | 1.13 |      |      |      |      |      |      |      |      |       |      |         |
| 14           |      |      |      | 1.00 |      |      |      |      |      |      |      |       |      |         |
| 15           |      |      |      |      | 1.00 |      |      |      |      |      |      |       |      |         |
| 16           |      |      |      |      |      | 1.00 |      |      |      |      |      |       |      |         |
| 17           |      |      |      |      |      |      | 1.00 |      |      |      |      |       |      |         |
| 18           |      |      |      |      |      |      |      | 1.00 |      |      |      |       |      |         |
| 19           |      |      |      |      |      |      |      |      | 1.00 |      |      |       |      |         |
| 20           |      |      |      |      |      |      |      |      |      | 1.00 |      |       |      |         |
| 21           |      |      |      |      |      |      |      |      |      |      | 1.00 |       |      |         |
| 22           |      |      |      |      |      |      |      |      |      |      |      | 1.00  |      |         |
| TOTAL        | 1.00 | 1.13 | 1.13 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |       |      |         |

## BONUS/MALUS SYSTEM MODEL - French

## TEST OF FAIRNESS TO INDIVIDUAL INSURED

| Class / Year | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | TOTAL | %Std  | Premium | Class / Year | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10    | TOTAL | %Std   | Premium |
|--------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|---------|--------------|------|------|------|------|------|------|------|------|------|------|-------|-------|--------|---------|
| Claim?       | 0.00 | 0.00 | 1.13 | 0.00 | 0.00 | 1.13 | 0.00 | 0.00 | 1.13 | 0.00 | 0.00 | Prem  | Prem  | Claim?  | 1.13         | 1.13 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | TOTAL | Prem  | Prem   |         |
| 1            |      |      |      |      |      |      |      |      |      |      |      | 1     |       |         | 1            |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 2            |      |      |      |      |      |      |      |      |      |      |      | 2     |       |         | 2            |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 3            |      |      |      |      |      |      |      |      |      |      |      | 3     |       |         | 3            |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 4            |      |      |      |      |      |      |      |      |      |      |      | 4     |       |         | 4            |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 5            |      |      |      |      |      |      |      |      |      |      |      | 5     |       |         | 5            |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 6            |      |      |      |      |      |      |      |      |      |      |      | 6     |       |         | 6            |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 7            |      |      |      |      |      |      |      |      |      |      |      | 7     |       |         | 7            |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 8            |      |      |      |      |      |      |      |      |      |      |      | 8     |       |         | 8            |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 9            |      |      |      |      |      |      |      |      |      |      |      | 9     |       |         | 9            |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 10           |      |      |      |      |      |      |      |      |      |      |      | 10    |       |         | 10           |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 11           |      |      |      |      |      |      |      |      |      |      |      | 11    |       |         | 11           |      |      |      |      |      |      |      |      |      |      |       |       |        |         |
| 12           | 1.00 |      |      |      |      |      |      |      |      |      |      | 12    |       |         | 12           | 1.00 | 1.13 | 1.27 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42  | 3.81  | 85.00% | 3.24    |
| 13           |      | 1.00 |      |      |      |      |      |      |      |      |      | 13    |       |         | 13           |      |      |      |      |      |      |      |      |      |      |       | 1.42  | 80.00% | 1.14    |
| 14           |      |      | 1.00 | 1.13 |      |      |      |      |      |      |      | 14    |       |         | 14           |      |      |      |      |      |      |      |      |      |      |       | 1.00  | 76.00% | 0.76    |
| 15           |      |      |      | 1.13 |      |      |      |      |      |      |      | 15    |       |         | 15           |      |      |      |      |      |      |      |      |      |      |       | 1.00  | 72.00% | 0.72    |
| 16           |      |      |      |      | 1.00 | 1.13 |      |      |      |      |      | 16    |       |         | 16           |      |      |      |      |      |      |      |      |      |      |       | 1.00  | 68.00% | 0.68    |
| 17           |      |      |      |      |      | 1.13 |      |      |      |      |      | 17    |       |         | 17           |      |      |      |      |      |      |      |      |      |      |       | 1.00  | 64.00% | 0.64    |
| 18           |      |      |      |      |      |      | 1.00 | 1.13 |      |      |      | 18    |       |         | 18           |      |      |      |      |      |      |      |      |      |      |       | 1.00  | 60.00% | 0.60    |
| 19           |      |      |      |      |      |      |      | 1.13 |      |      |      | 19    |       |         | 19           |      |      |      |      |      |      |      |      |      |      |       | 1.00  | 57.00% | 0.57    |
| 20           |      |      |      |      |      |      |      |      | 1.00 |      |      | 20    |       |         | 20           |      |      |      |      |      |      |      |      |      |      |       | 1.00  | 54.00% | 0.00    |
| 21           |      |      |      |      |      |      |      |      |      | 0.00 |      | 21    |       |         | 21           |      |      |      |      |      |      |      |      |      |      |       | 0.00  | 51.00% | 0.00    |
| 22           |      |      |      |      |      |      |      |      |      | 0.00 |      | 22    |       |         | 22           |      |      |      |      |      |      |      |      |      |      |       | 0.00  | 50.00% | 0.00    |
| TOTAL        | 1.00 | 1.00 | 1.00 | 1.13 | 1.13 | 1.00 | 1.13 | 1.13 | 1.00 | 1.13 | 1.13 | 10.75 | TOTAL | 7.31    | TOTAL        | 1.00 | 1.13 | 1.27 | 1.42 | 1.42 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11.24 | TOTAL | 8.35   |         |

| Class / Year | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | TOTAL | %Std | Premium | Class / Year | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10    | TOTAL  | %Std   | Premium |      |
|--------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|---------|--------------|------|------|------|------|------|------|------|------|------|------|-------|--------|--------|---------|------|
| Claim?       | 1.13 | 0.00 | 1.13 | 0.00 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Prem  | Prem | Claim?  | 0.00         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | TOTAL | Prem   | Prem   |         |      |
| 1            |      |      |      |      |      |      |      |      |      |      |      | 1     |      |         | 1            |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 2            |      |      |      |      |      |      |      |      |      |      |      | 2     |      |         | 2            |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 3            |      |      |      |      |      |      |      |      |      |      |      | 3     |      |         | 3            |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 4            |      |      |      |      |      |      |      |      |      |      |      | 4     |      |         | 4            |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 5            |      |      |      |      |      |      |      |      |      |      |      | 5     |      |         | 5            |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 6            |      |      |      |      |      |      |      |      |      |      |      | 6     |      |         | 6            |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 7            |      |      |      |      |      |      |      |      |      |      |      | 7     |      |         | 7            |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 8            |      |      |      |      |      |      |      |      |      |      |      | 8     |      |         | 8            |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 9            |      |      |      |      |      |      |      |      |      |      |      | 9     |      |         | 9            |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 10           |      |      |      |      |      |      |      |      |      |      |      | 10    |      |         | 10           |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 11           |      |      |      |      |      |      |      |      |      |      |      | 11    |      |         | 11           |      |      |      |      |      |      |      |      |      |      |       |        |        |         |      |
| 12           | 1.00 | 1.13 |      |      |      |      |      |      |      |      |      | 12    | 1.00 |         | 12           | 1.00 | 1.13 | 1.27 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42  | 1.42   | 1.42   | 1.42    |      |
| 13           |      |      | 1.00 | 1.13 |      |      |      |      |      |      |      | 13    |      |         | 13           |      |      |      |      |      |      |      |      |      |      |       | 1.00   | 85.00% | 0.00    |      |
| 14           |      |      |      | 1.13 | 1.27 |      |      |      |      |      |      | 14    |      |         | 14           |      |      |      |      |      |      |      |      |      |      |       | 1.00   | 80.00% | 0.80    |      |
| 15           |      |      |      |      | 1.27 | 1.42 |      |      |      |      |      | 15    |      |         | 15           |      |      |      |      |      |      |      |      |      |      |       | 1.00   | 76.00% | 0.76    |      |
| 16           |      |      |      |      |      | 1.42 |      |      |      |      |      | 16    |      |         | 16           |      |      |      |      |      |      |      |      |      |      | 1.00  | 72.00% | 0.72   |         |      |
| 17           |      |      |      |      |      |      | 1.00 |      |      |      |      | 17    |      |         | 17           |      |      |      |      |      |      |      |      |      |      | 1.00  | 68.00% | 0.68   |         |      |
| 18           |      |      |      |      |      |      |      | 1.00 |      |      |      | 18    |      |         | 18           |      |      |      |      |      |      |      |      |      |      | 1.00  | 64.00% | 0.64   |         |      |
| 19           |      |      |      |      |      |      |      |      | 1.00 |      |      | 19    |      |         | 19           |      |      |      |      |      |      |      |      |      |      | 1.00  | 60.00% | 0.60   |         |      |
| 20           |      |      |      |      |      |      |      |      |      | 1.00 |      | 20    |      |         | 20           |      |      |      |      |      |      |      |      |      |      | 1.00  | 54.00% | 0.00   |         |      |
| 21           |      |      |      |      |      |      |      |      |      |      | 21   |       |      | 21      |              |      |      |      |      |      |      |      |      |      |      | 0.00  | 51.00% | 0.00   |         |      |
| 22           |      |      |      |      |      |      |      |      |      |      | 22   |       |      | 22      |              |      |      |      |      |      |      |      |      |      |      | 0.00  | 50.00% | 0.00   |         |      |
| TOTAL        | 1.00 | 1.13 | 1.13 | 1.27 | 1.27 | 1.42 | 1.42 | 1.00 | 1.00 | 1.00 | 1.00 | TOTAL | 8.43 | TOTAL   | 1.00         | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00  | 1.00   | 10.81  | TOTAL   | 6.94 |

## BONUS/MALUS SYSTEM MODEL - French

Probability Claim: 5.00%

| Class / Year<br>NO CLAIMS 2 YRS | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | Premium Scale |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
|                                 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 0      | 0      | 0      | 0      | 0      | 100.00%       |
| 9                               | 10 000 | 10 000 | 10 000 | 10 000 | 10 023 | 10 045 | 10 069 | 10 092 | 10 116 | 10 140 | 163    | 171    | 62     | 4      | 2      | 2             |
| 10                              |        | 9 500  | 9 500  | 9 951  | 10 380 | 10 423 | 10 483 | 10 529 | 10 556 | 10 584 | 10 609 | 1 134  | 95     | 6      | 2      | 2             |
| 11                              | 0      | 9 025  | 9 025  | 9 454  | 10 268 | 10 309 | 10 407 | 10 503 | 10 533 | 10 567 | 10 615 | 170    | 20     | 14     | 14     | 90.00%        |
| 12                              | 0      | 0      | 8 574  | 8 574  | 8 981  | 10 142 | 10 180 | 10 292 | 10 453 | 10 483 | 10 521 | 242    | 24     | 15     | 15     | 85.00%        |
| 13                              | 0      | 0      | 0      | 8 145  | 8 145  | 8 532  | 10 002 | 10 039 | 10 162 | 10 399 | 10 429 | 523    | 31     | 16     | 15     | 80.00%        |
| 14                              | 0      | 0      | 0      | 0      | 7 738  | 7 738  | 8 105  | 9 851  | 9 886  | 10 020 | 10 339 | 774    | 53     | 19     | 18     | 76.00%        |
| 15                              | 0      | 0      | 0      | 0      | 0      | 7 351  | 7 351  | 7 700  | 9 690  | 9 724  | 9 866  | 950    | 87     | 41     | 39     | 72.00%        |
| 16                              | 0      | 0      | 0      | 0      | 0      | 0      | 6 983  | 6 983  | 7 315  | 9 521  | 9 552  | 3 328  | 301    | 251    | 249    | 68.00%        |
| 17                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 6 634  | 6 634  | 6 949  | 9 344  | 3 873  | 377    | 251    | 248    | 64.00%        |
| 18                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 6 302  | 6 602  | 4 119  | 401    | 255    | 248    | 60.00% |               |
| 19                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 5 987  | 5 987  | 10 335 | 435    | 265    | 258    | 57.00%        |
| 20                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 5 688  | 10 000 | 903    | 465    | 455    | 54.00%        |
| 21                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 10 823 | 4 753  | 4 451  | 4 435  | 51.00%        |
| 22                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 44 954 | 82 855 | 84 202 | 84 251 | 50.00%        |

Claim Last Year, Not year before

|    | Loading |     |     |       |       |       |       |       |       |       |     |       |       |       |       |         |
|----|---------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|---------|
| 1  | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0     | 0     | 0     | 0     | 100.00% |
| 2  | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0     | 0     | 0     | 0     | 300.00% |
| 3  | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0     | 0     | 0     | 0     | 250.00% |
| 4  | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0     | 0     | 0     | 0     | 200.00% |
| 5  | 0       | 0   | 0   | 0     | 1     | 2     | 2     | 3     | 3     | 3     | 3   | 3     | 0     | 0     | 0     | 175.00% |
| 6  | 0       | 0   | 0   | 0     | 0     | 0     | 1     | 1     | 1     | 1     | 1   | 1     | 0     | 0     | 0     | 150.00% |
| 7  | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 1     | 2     | 3     | 4   | 4     | 3     | 0     | 0     | 137.50% |
| 8  | 500     | 975 | 999 | 1 044 | 1 068 | 1 073 | 1 078 | 1 082 | 1 085 | 1 088 | 590 | 11    | 1     | 0     | 0     | 125.00% |
| 9  |         | 0   | 451 | 451   | 494   | 555   | 559   | 568   | 577   | 579   | 582 | 16    | 2     | 1     | 1     | 100.00% |
| 10 | 0       | 0   | 0   | 429   | 429   | 449   | 526   | 528   | 535   | 547   | 549 | 28    | 2     | 1     | 1     | 95.00%  |
| 11 | 0       | 0   | 0   | 0     | 407   | 407   | 427   | 518   | 520   | 527   | 544 | 41    | 3     | 1     | 1     | 90.00%  |
| 12 | 0       | 0   | 0   | 0     | 0     | 387   | 387   | 405   | 510   | 512   | 519 | 50    | 5     | 2     | 2     | 85.00%  |
| 13 | 0       | 0   | 0   | 0     | 0     | 0     | 368   | 368   | 385   | 501   | 503 | 175   | 16    | 13    | 13    | 80.00%  |
| 14 | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 349   | 349   | 366   | 492 | 204   | 20    | 13    | 13    | 76.00%  |
| 15 | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 332   | 332   | 347 | 217   | 21    | 13    | 13    | 72.00%  |
| 16 | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 315   | 315   | 544 | 23    | 14    | 14    | 14    | 68.00%  |
| 17 | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 299   | 526 | 48    | 24    | 24    | 24    | 64.00%  |
| 18 | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 570 | 250   | 234   | 233   | 233   | 60.00%  |
| 19 | 0       | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 2 366 | 4 361 | 4 432 | 4 434 | 57.00%  |
| 20 |         |     |     |       |       |       |       |       |       |       |     |       |       |       |       | 54.00%  |
| 21 |         |     |     |       |       |       |       |       |       |       |     |       |       |       |       | 51.00%  |
| 22 |         |     |     |       |       |       |       |       |       |       |     |       |       |       |       | 50.00%  |

No Claim Last Year, Claim Year Before

|    | Loading |     |     |     |     |       |       |       |       |       |       |     |     |     |     |         |
|----|---------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|---------|
| 1  | 0       | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 100.00% |
| 2  | 0       | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 300.00% |
| 3  | 0       | 0   | 0   | 0   | 1   | 2     | 4     | 4     | 4     | 4     | 4     | 0   | 0   | 0   | 0   | 250.00% |
| 4  | 0       | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 200.00% |
| 5  | 0       | 0   | 0   | 0   | 0   | 0     | 0     | 1     | 2     | 2     | 2     | 3   | 1   | 0   | 0   | 175.00% |
| 6  | 0       | 0   | 24  | 46  | 49  | 52    | 53    | 53    | 55    | 56    | 56    | 3   | 0   | 0   | 0   | 150.00% |
| 7  | 0       | 0   | 0   | 0   | 21  | 21    | 24    | 27    | 28    | 28    | 30    | 3   | 1   | 1   | 1   | 137.50% |
| 8  | 0       | 0   | 0   | 0   | 0   | 20    | 40    | 60    | 83    | 89    | 97    | 33  | 3   | 2   | 2   | 112.50% |
| 9  | 0       | 475 | 926 | 949 | 992 | 1 014 | 1 019 | 1 024 | 1 028 | 1 031 | 1 033 | 13  | 1   | 0   | 0   | 100.00% |
| 10 | 0       | 0   | 0   | 429 | 429 | 469   | 527   | 531   | 540   | 564   | 566   | 52  | 13  | 13  | 12  | 95.00%  |
| 11 | 0       | 0   | 0   | 0   | 407 | 407   | 427   | 500   | 502   | 508   | 536   | 57  | 4   | 1   | 1   | 90.00%  |
| 12 | 0       | 0   | 0   | 0   | 0   | 387   | 387   | 405   | 493   | 494   | 501   | 65  | 5   | 2   | 2   | 85.00%  |
| 13 | 0       | 0   | 0   | 0   | 0   | 0     | 368   | 368   | 385   | 485   | 486   | 171 | 7   | 3   | 3   | 80.00%  |
| 14 | 0       | 0   | 0   | 0   | 0   | 0     | 0     | 349   | 349   | 366   | 476   | 202 | 32  | 24  | 24  | 76.00%  |
| 15 | 0       | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 332   | 332   | 347   | 266 | 223 | 223 | 223 | 72.00%  |

|    |   |   |   |   |   |   |   |   |   |     |       |       |       |       |       |        |
|----|---|---|---|---|---|---|---|---|---|-----|-------|-------|-------|-------|-------|--------|
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 315 | 315   | 519   | 21    | 13    | 12    | 68.00% |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 299 | 503   | 34    | 13    | 13    | 13    | 64.00% |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 496   | 47    | 24    | 23    | 23    | 60.00% |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 522   | 235   | 222   | 222   | 222   | 57.00% |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 1 844 | 4 126 | 4 209 | 4 213 | 4 213 | 54.00% |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 51.00% |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 50.00% |

Claim Each of Last 2 Years

|    |   |    |    |    |    |    |    |    |    |    |    |    |     |     |     | Loading | 100.00% |
|----|---|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|---------|---------|
| 1  | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0       | 300.00% |
| 2  | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0       | 250.00% |
| 3  | 0 | 0  | 0  | 1  | 2  | 4  | 4  | 4  | 4  | 5  | 5  | 0  | 0   | 0   | 0   | 0       | 200.00% |
| 4  | 0 | 0  | 0  | 0  | 0  | 1  | 2  | 2  | 2  | 3  | 3  | 1  | 0   | 0   | 0   | 0       | 175.00% |
| 5  | 0 | 25 | 49 | 50 | 52 | 53 | 54 | 55 | 56 | 57 | 57 | 2  | 0   | 0   | 0   | 0       | 150.00% |
| 6  | 0 | 0  | 0  | 23 | 23 | 25 | 28 | 28 | 28 | 30 | 30 | 3  | 1   | 1   | 1   | 1       | 137.50% |
| 7  | 0 | 0  | 0  | 0  | 21 | 42 | 43 | 48 | 52 | 53 | 55 | 6  | 0   | 0   | 0   | 0       | 125.00% |
| 8  | 0 | 0  | 0  | 0  | 0  | 19 | 38 | 39 | 45 | 51 | 20 | 2  | 1   | 1   | 1   | 1       | 112.50% |
| 9  | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 17 | 17 | 18 | 14 | 12  | 12  | 12  | 12      | 100.00% |
| 10 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 17 | 17 | 27 | 1   | 1   | 1   | 1       | 95.00%  |
| 11 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 16 | 26 | 2   | 1   | 1   | 1       | 90.00%  |
| 12 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 26 | 2   | 1   | 1   | 1       | 85.00%  |
| 13 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 27 | 12  | 12  | 12  | 12      | 80.00%  |
| 14 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 97 | 217 | 222 | 222 | 222     | 76.00%  |
| 15 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0       | 72.00%  |
| 16 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0       | 68.00%  |
| 17 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0       | 64.00%  |

TOTAL

|    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 300.00% |
| 2  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 1      | 1      | 1      | 1      | 0      | 0      | 0      | 0      | 250.00% |
| 3  | 0      | 0      | 0      | 1      | 4      | 6      | 7      | 8      | 8      | 9      | 9      | 1      | 0      | 0      | 0      | 0      | 200.00% |
| 4  | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 2      | 2      | 3      | 3      | 1      | 0      | 0      | 0      | 0      | 175.00% |
| 5  | 0      | 0      | 25     | 49     | 51     | 55     | 56     | 57     | 60     | 61     | 62     | 3      | 0      | 0      | 0      | 0      | 150.00% |
| 6  | 0      | 0      | 0      | 24     | 69     | 71     | 78     | 82     | 83     | 84     | 87     | 6      | 1      | 1      | 1      | 1      | 137.50% |
| 7  | 0      | 0      | 0      | 0      | 0      | 43     | 63     | 68     | 77     | 83     | 85     | 12     | 1      | 1      | 1      | 1      | 125.00% |
| 8  | 0      | 500    | 975    | 999    | 1 044  | 1 068  | 1 093  | 1 137  | 1 180  | 1 206  | 1 222  | 737    | 64     | 6      | 3      | 3      | 112.50% |
| 9  | 10 000 | 10 000 | 10 475 | 11 378 | 11 423 | 11 531 | 11 638 | 11 671 | 11 709 | 11 762 | 11 790 | 1 805  | 104    | 19     | 16     | 16     | 100.00% |
| 10 | 0      | 9 500  | 9 500  | 9 951  | 11 237 | 11 280 | 11 403 | 11 583 | 11 616 | 11 658 | 11 738 | 2 266  | 202    | 22     | 16     | 16     | 95.00%  |
| 11 | 0      | 0      | 9 025  | 9 025  | 9 454  | 11 083 | 11 123 | 11 260 | 11 522 | 11 555 | 11 602 | 11 711 | 294    | 28     | 17     | 17     | 90.00%  |
| 12 | 0      | 0      | 0      | 8 574  | 8 574  | 8 981  | 10 915 | 10 954 | 11 102 | 11 456 | 11 489 | 11 542 | 384    | 36     | 20     | 19     | 85.00%  |
| 13 | 0      | 0      | 0      | 0      | 8 145  | 8 145  | 8 532  | 10 737 | 10 774 | 10 932 | 11 384 | 11 418 | 897    | 66     | 44     | 43     | 80.00%  |
| 14 | 0      | 0      | 0      | 0      | 0      | 7 738  | 7 738  | 8 105  | 10 550 | 10 584 | 10 751 | 11 307 | 1 277  | 322    | 277    | 276    | 76.00%  |
| 15 | 0      | 0      | 0      | 0      | 0      | 0      | 7 351  | 7 351  | 7 700  | 10 354 | 10 387 | 10 561 | 1 432  | 330    | 278    | 275    | 72.00%  |
| 16 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 6 983  | 6 983  | 7 315  | 10 151 | 10 183 | 4 391  | 345    | 278    | 275    | 68.00%  |
| 17 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 6 634  | 6 634  | 6 949  | 9 943  | 4 903  | 459    | 289    | 285    | 64.00%  |
| 18 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 6 302  | 6 302  | 6 602  | 5 185  | 697    | 513    | 504    | 60.00%  |
| 19 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 5 987  | 5 987  | 13 223 | 5 031  | 4 919  | 4 914  | 57.00%  |
| 20 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 5 688  | 11 844 | 5 029  | 4 674  | 4 668  | 54.00% |         |
| 21 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 10 823 | 4 753  | 4 451  | 4 435  | 51.00% |         |
| 22 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 44 954 | 82 855 | 84 202 | 84 251 | 50.00% |         |

TOTAL

10 000 20 000 30 000 40 000 50 000 60 000 70 000 80 000 90 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000

## BONUS/MALUS SYSTEM MODEL - French

Probability Claim: 10.00%

| Class / Year<br>NO CLAIMS 2 YRS | Premium Scale |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |  |  |
|---------------------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--|--|
|                                 | 1             | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     | Scale   |  |  |
| 9                               | 10 000        | 10 000 | 10 000 | 10 000 | 10 081 | 10 162 | 10 250 | 10 339 | 10 428 | 10 516 | 605    | 656    | 390    | 89     | 49     | 43     | 100.00% |  |  |
| 10                              | 9 000         | 9 000  | 9 000  | 9 810  | 10 539 | 10 685 | 10 889 | 11 041 | 11 150 | 11 260 | 11 363 | 2 462  | 547    | 120    | 56     | 47     | 95.00%  |  |  |
| 11                              | 0             | 8 100  | 8 100  | 8 829  | 10 141 | 10 272 | 10 574 | 10 870 | 10 990 | 11 133 | 11 307 | 863    | 237    | 145    | 133    | 90.00% |         |  |  |
| 12                              | 0             | 0      | 7 290  | 7 290  | 7 946  | 9 718  | 9 836  | 10 160 | 10 618 | 10 736 | 10 895 | 1 131  | 293    | 163    | 143    | 85.00% |         |  |  |
| 13                              | 0             | 0      | 0      | 6 561  | 6 561  | 7 151  | 9 277  | 9 384  | 9 724  | 10 351 | 10 465 | 1 898  | 367    | 183    | 156    | 80.00% |         |  |  |
| 14                              | 0             | 0      | 0      | 0      | 5 905  | 5 905  | 6 436  | 8 828  | 8 923  | 9 273  | 10 069 | 2 465  | 548    | 222    | 185    | 76.00% |         |  |  |
| 15                              | 0             | 0      | 0      | 0      | 0      | 5 314  | 5 314  | 5 793  | 8 376  | 8 462  | 8 815  | 2 808  | 748    | 383    | 323    | 72.00% |         |  |  |
| 16                              | 0             | 0      | 0      | 0      | 0      | 0      | 4 783  | 4 783  | 5 213  | 7 925  | 8 003  | 5 796  | 1 364  | 1 036  | 984    | 68.00% |         |  |  |
| 17                              | 0             | 0      | 0      | 0      | 0      | 0      | 0      | 4 305  | 4 305  | 4 692  | 7 482  | 6 095  | 1 679  | 1 038  | 974    | 64.00% |         |  |  |
| 18                              | 0             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 874  | 3 874  | 4 223  | 6 118  | 1 754  | 1 088  | 971    | 60.00% |         |  |  |
| 19                              | 0             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 487  | 3 487  | 9 628  | 1 854  | 1 146  | 1 026  | 57.00% |         |  |  |
| 20                              | 0             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 138  | 8 547  | 3 074  | 1 716  | 1 596  | 54.00% |         |  |  |
| 21                              | 0             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 8 896  | 7 960  | 7 567  | 7 459  | 51.00% |         |  |  |
| 22                              | 0             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 25 818 | 60 914 | 66 209 | 66 957 | 50.00% |         |  |  |

Claim Last Year, Not year before

|    | Loading |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |         |         |  |
|----|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|--|
| 1  | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 1     | 1     | 0     | 0     | 0     | 0       | 0       | 100.00% |  |
| 2  | 0       | 0     | 0     | 0     | 0     | 1     | 2     | 3     | 3     | 3     | 3     | 4     | 1     | 0     | 0     | 0       | 0       | 300.00% |  |
| 3  | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0       | 0       | 200.00% |  |
| 4  | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 1     | 1     | 2     | 0     | 0     | 0     | 0       | 0       | 175.00% |  |
| 5  | 0       | 0     | 0     | 9     | 17    | 19    | 21    | 22    | 22    | 23    | 24    | 4     | 1     | 0     | 0     | 0       | 150.00% |         |  |
| 6  | 0       | 0     | 0     | 0     | 0     | 0     | 7     | 7     | 9     | 11    | 11    | 4     | 1     | 1     | 1     | 1       | 137.50% |         |  |
| 7  | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 7     | 12    | 19    | 30    | 32    | 7     | 4     | 3     | 3       | 125.00% |         |  |
| 8  | 1 000   | 1 900 | 1 990 | 2 152 | 2 241 | 2 278 | 2 316 | 2 343 | 2 366 | 2 389 | 1 410 | 124   | 27    | 12    | 10    | 112.50% |         |         |  |
| 9  | 0       | 0     | 810   | 810   | 956   | 1 153 | 1 179 | 1 233 | 1 286 | 1 304 | 1 331 | 158   | 45    | 28    | 26    | 100.00% |         |         |  |
| 10 | 0       | 0     | 0     | 729   | 729   | 795   | 1 031 | 1 043 | 1 080 | 1 150 | 1 163 | 211   | 41    | 20    | 17    | 95.00%  |         |         |  |
| 11 | 0       | 0     | 0     | 0     | 656   | 656   | 715   | 981   | 991   | 1 030 | 1 119 | 274   | 61    | 25    | 21    | 90.00%  |         |         |  |
| 12 | 0       | 0     | 0     | 0     | 0     | 590   | 590   | 644   | 931   | 940   | 979   | 312   | 83    | 43    | 36    | 85.00%  |         |         |  |
| 13 | 0       | 0     | 0     | 0     | 0     | 0     | 531   | 531   | 579   | 881   | 889   | 644   | 152   | 115   | 109   | 80.00%  |         |         |  |
| 14 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 478   | 478   | 521   | 831   | 677   | 187   | 115   | 108   | 76.00%  |         |         |  |
| 15 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 430   | 430   | 469   | 680   | 195   | 121   | 108   | 72.00%  |         |         |  |
| 16 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 387   | 387   | 1 070 | 206   | 127   | 114   | 68.00%  |         |         |  |
| 17 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 349   | 950   | 342   | 191   | 177   | 64.00%  |         |         |  |
| 18 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 988   | 884   | 841   | 829   | 60.00%  |         |         |  |
| 19 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2 869 | 6 768 | 7 357 | 7 440 | 57.00%  |         |         |  |
| 20 |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 54.00%  |         |  |
| 21 |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 51.00%  |         |  |
| 22 |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 50.00%  |         |  |

No Claim Last Year, Claim Year Before

|    | Loading |     |       |       |       |       |       |       |       |       |       |     |     |     |        |        |         |         |  |
|----|---------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|--------|--------|---------|---------|--|
| 1  | 0       | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 1     | 1     | 1   | 0   | 0   | 0      | 0      | 0       | 100.00% |  |
| 2  | 0       | 0   | 0     | 0     | 0     | 1     | 3     | 4     | 5     | 6     | 7     | 3   | 1   | 0   | 0      | 0      | 0       | 300.00% |  |
| 3  | 0       | 0   | 0     | 0     | 9     | 17    | 26    | 28    | 32    | 35    | 36    | 38  | 10  | 3   | 2      | 2      | 200.00% |         |  |
| 4  | 0       | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 1     | 1   | 2   | 0   | 0      | 0      | 0       | 175.00% |  |
| 5  | 0       | 0   | 0     | 0     | 0     | 0     | 0     | 7     | 12    | 14    | 17    | 20  | 15  | 3   | 1      | 1      | 150.00% |         |  |
| 6  | 0       | 0   | 90    | 171   | 187   | 209   | 219   | 224   | 233   | 241   | 245   | 36  | 8   | 4   | 3      | 3      | 137.50% |         |  |
| 7  | 0       | 0   | 0     | 0     | 73    | 73    | 93    | 110   | 114   | 121   | 130   | 38  | 14  | 11  | 11     | 11     | 125.00% |         |  |
| 8  | 0       | 0   | 0     | 0     | 0     | 66    | 125   | 190   | 269   | 305   | 347   | 245 | 63  | 35  | 30     | 30     | 112.50% |         |  |
| 9  | 0       | 900 | 1 710 | 1 791 | 1 937 | 2 017 | 2 051 | 2 084 | 2 109 | 2 130 | 2 150 | 128 | 27  | 11  | 9      | 9      | 100.00% |         |  |
| 10 | 0       | 0   | 0     | 729   | 729   | 860   | 1 037 | 1 061 | 1 109 | 1 216 | 297   | 116 | 102 | 100 | 95.00% |        |         |         |  |
| 11 | 0       | 0   | 0     | 0     | 656   | 656   | 715   | 928   | 938   | 972   | 1 074 | 304 | 70  | 30  | 25     | 90.00% |         |         |  |
| 12 | 0       | 0   | 0     | 0     | 0     | 590   | 590   | 644   | 883   | 892   | 927   | 335 | 84  | 37  | 29     | 29     | 85.00%  |         |  |

|    |   |   |   |   |   |   |     |     |     |     |       |       |       |       |        |        |
|----|---|---|---|---|---|---|-----|-----|-----|-----|-------|-------|-------|-------|--------|--------|
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 531 | 531 | 579 | 838 | 846   | 613   | 109   | 57    | 49     | 80.00% |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 478 | 478 | 521 | 793 | 651   | 251   | 179   | 173   | 76.00% |        |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 430 | 430 | 469 | 753   | 747   | 767   | 767   | 72.00% |        |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 387 | 387 | 988   | 176   | 109   | 98    | 68.00% |        |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 349 | 884   | 253   | 116   | 103   | 64.00% |        |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 829   | 307   | 182   | 160   | 60.00% |        |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 842   | 771   | 753   | 747   | 57.00% |        |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 2 027 | 5 997 | 6 603 | 6 693 | 54.00% |        |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 51.00% |        |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 50.00% |        |

| Claim Each of Last 2 Years |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Loading | 100.00% |
|----------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|
| 1                          | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 0   | 0       | 300.00% |
| 2                          | 0 | 0   | 0   | 0   | 1   | 2   | 3   | 3   | 4   | 4   | 4   | 1   | 0   | 0   | 0   | 0       | 250.00% |
| 3                          | 0 | 0   | 0   | 10  | 19  | 29  | 31  | 35  | 39  | 40  | 42  | 10  | 3   | 2   | 2   | 0       | 200.00% |
| 4                          | 0 | 0   | 0   | 0   | 0   | 0   | 7   | 14  | 15  | 19  | 22  | 13  | 3   | 1   | 1   | 1       | 175.00% |
| 5                          | 0 | 100 | 190 | 199 | 215 | 224 | 228 | 237 | 246 | 248 | 254 | 28  | 7   | 4   | 3   | 3       | 150.00% |
| 6                          | 0 | 0   | 0   | 81  | 81  | 96  | 115 | 118 | 123 | 133 | 135 | 33  | 13  | 11  | 11  | 11      | 137.50% |
| 7                          | 0 | 0   | 0   | 0   | 73  | 139 | 145 | 175 | 202 | 207 | 222 | 71  | 17  | 7   | 6   | 6       | 125.00% |
| 8                          | 0 | 0   | 0   | 0   | 0   | 59  | 112 | 118 | 151 | 182 | 140 | 40  | 26  | 25  | 25  | 112.50% |         |
| 9                          | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 48  | 48  | 52  | 84  | 83  | 85  | 85  | 85      | 100.00% |
| 10                         | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 43  | 43  | 110 | 20  | 12  | 11  | 11      | 95.00%  |
| 11                         | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 39  | 98  | 28  | 13  | 11  | 11      | 90.00%  |
| 12                         | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 92  | 34  | 20  | 18  | 18      | 85.00%  |
| 13                         | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 94  | 86  | 84  | 83  | 83      | 80.00%  |
| 14                         | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 225 | 666 | 734 | 744 | 744     | 76.00%  |
| 15                         | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0       | 72.00%  |
| 16                         | 0 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0       | 68.00%  |

| TOTAL |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |         |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1     | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 2      | 2      | 3      | 3      | 2      | 0      | 0      | 0      | 0      | 300.00% |         |
| 2     | 0      | 0      | 0      | 0      | 1      | 4      | 7      | 10     | 12     | 13     | 14     | 5      | 1      | 1      | 1      | 1      | 250.00% |         |
| 3     | 0      | 0      | 0      | 10     | 28     | 46     | 57     | 63     | 70     | 75     | 78     | 21     | 6      | 4      | 3      | 3      | 200.00% |         |
| 4     | 0      | 0      | 0      | 0      | 0      | 0      | 7      | 14     | 16     | 21     | 25     | 26     | 17     | 3      | 1      | 1      | 175.00% |         |
| 5     | 0      | 100    | 190    | 208    | 232    | 243    | 255    | 272    | 282    | 289    | 298    | 47     | 11     | 5      | 5      | 5      | 150.00% |         |
| 6     | 0      | 0      | 90     | 252    | 268    | 312    | 341    | 351    | 368    | 386    | 392    | 73     | 22     | 17     | 16     | 16     | 137.50% |         |
| 7     | 0      | 0      | 0      | 0      | 146    | 211    | 244    | 297    | 336    | 355    | 383    | 140    | 38     | 22     | 20     | 20     | 125.00% |         |
| 8     | 1 000  | 1 900  | 1 990  | 2 152  | 2 241  | 2 344  | 2 499  | 2 645  | 2 753  | 2 844  | 1 938  | 509    | 130    | 73     | 65     | 65     | 112.50% |         |
| 9     | 10 000 | 10 000 | 10 900 | 12 520 | 12 682 | 13 055 | 13 420 | 13 568 | 13 744 | 13 959 | 4 087  | 4 188  | 760    | 245    | 174    | 163    | 163     | 100.00% |
| 10    | 0      | 9 000  | 9 000  | 9 810  | 11 997 | 12 143 | 12 544 | 13 109 | 13 254 | 13 450 | 13 756 | 4 884  | 1 166  | 297    | 191    | 176    | 95.00%  |         |
| 11    | 0      | 8 100  | 8 100  | 8 829  | 11 453 | 11 585 | 12 005 | 12 779 | 12 920 | 13 136 | 13 538 | 1 539  | 395    | 212    | 190    | 190    | 90.00%  |         |
| 12    | 0      | 0      | 0      | 7 290  | 7 290  | 7 946  | 10 899 | 11 017 | 11 448 | 12 431 | 12 568 | 12 801 | 1 870  | 494    | 262    | 226    | 85.00%  |         |
| 13    | 0      | 0      | 0      | 6 561  | 6 561  | 7 151  | 10 340 | 10 446 | 10 882 | 12 069 | 12 200 | 3 249  | 713    | 439    | 397    | 397    | 80.00%  |         |
| 14    | 0      | 0      | 0      | 0      | 5 905  | 5 905  | 6 436  | 9 784  | 9 880  | 10 315 | 11 693 | 4 019  | 1 652  | 1 250  | 1 210  | 1 210  | 76.00%  |         |
| 15    | 0      | 0      | 0      | 0      | 0      | 5 314  | 5 314  | 5 793  | 9 236  | 9 323  | 9 753  | 4 241  | 1 690  | 1 270  | 1 198  | 1 198  | 72.00%  |         |
| 16    | 0      | 0      | 0      | 0      | 0      | 0      | 4 783  | 4 783  | 5 213  | 8 700  | 8 778  | 7 853  | 1 746  | 1 273  | 1 196  | 1 196  | 68.00%  |         |
| 17    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 305  | 4 305  | 4 692  | 8 179  | 7 929  | 2 274  | 1 344  | 1 255  | 1 255  | 64.00%  |         |
| 18    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 874  | 3 874  | 4 223  | 7 936  | 2 945  | 2 111  | 1 960  | 1 960  | 60.00%  |         |
| 19    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 487  | 3 487  | 13 339 | 9 394  | 9 256  | 9 213  | 57.00% | 57.00% |         |         |
| 20    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 138  | 10 574 | 9 071  | 8 319  | 8 289  | 54.00% | 54.00% |         |         |
| 21    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 8 896  | 7 960  | 7 567  | 7 459  | 7 459  | 51.00% |         |         |
| 22    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 25 818 | 60 914 | 66 209 | 66 957 | 66 957 | 50.00% |         |         |

10 000 20 000 30 000 40 000 50 000 60 000 70 000 80 000 90 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000

## BONUS/MALUS SYSTEM MODEL - French

Probability Claim: 30.00%

| Class / Year<br>NO CLAIMS 2 YRS | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12    | 20    | 30    | 40    | Premium<br>Scale |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------------------|
|                                 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 0     | 0     | 0     | 0     | 100.00%          |
| 9                               | 10 000 | 10 000 | 10 000 | 10 000 | 10 441 | 10 882 | 11 416 | 11 949 | 12 502 | 13 055 | 3 612  | 4 133 | 5 044 | 4 414 | 4 146 | 4 022            |
| 10                              | 7 000  | 7 000  | 8 470  | 9 499  | 10 116 | 10 857 | 11 512 | 12 132 | 12 765 | 13 379 | 6 993  | 5 711 | 4 936 | 4 567 | 4 404 | 95.00%           |
| 11                              | 0      | 4 900  | 4 900  | 5 929  | 7 370  | 7 802  | 8 623  | 9 399  | 9 960  | 10 613 | 11 282 | 5 847 | 5 073 | 4 710 | 4 563 | 90.00%           |
| 12                              | 0      | 0      | 3 430  | 3 430  | 4 150  | 5 663  | 5 965  | 6 646  | 7 486  | 7 923  | 8 496  | 5 258 | 4 637 | 4 314 | 4 145 | 85.00%           |
| 13                              | 0      | 0      | 0      | 2 401  | 2 401  | 2 905  | 4 317  | 4 529  | 5 079  | 5 926  | 6 264  | 5 123 | 4 191 | 3 918 | 3 784 | 80.00%           |
| 14                              | 0      | 0      | 0      | 0      | 1 681  | 1 681  | 2 034  | 3 269  | 3 417  | 3 855  | 4 665  | 4 517 | 3 935 | 3 567 | 3 467 | 76.00%           |
| 15                              | 0      | 0      | 0      | 0      | 0      | 1 176  | 1 176  | 1 424  | 2 461  | 2 565  | 2 907  | 3 697 | 3 532 | 3 397 | 3 273 | 72.00%           |
| 16                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 824    | 824    | 996    | 1 844  | 1 917 | 3 789 | 3 202 | 3 267 | 3 278            |
| 17                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 576    | 576    | 698    | 1 375  | 2 854 | 2 904 | 2 759 | 2 785 | 64.00%           |
| 18                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 404    | 404    | 488   | 2 117 | 2 391 | 2 432 | 2 377            |
| 19                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 282    | 282   | 1 889 | 1 956 | 2 078 | 2 113            |
| 20                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 198   | 1 173 | 1 921 | 1 923 | 2 020            |
| 21                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 867   | 1 977 | 2 497 | 2 662            |
| 22                              | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 1 115 | 3 931 | 5 424 | 6 107            |

## Claim Last Year, Not year before

|    | Loading |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        | 100.00% |
|----|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|
| 1  | 0       | 0     | 0     | 0     | 0     | 0     | 17    | 46    | 82    | 117   | 152   | 188   | 316   | 262   | 239   | 229    | 300.00% |
| 2  | 0       | 0     | 0     | 0     | 0     | 57    | 96    | 148   | 173   | 212   | 243   | 271   | 282   | 242   | 226   | 218    | 250.00% |
| 3  | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 4     | 7     | 29    | 25    | 23    | 22     | 200.00% |
| 4  | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 19    | 33    | 41    | 58    | 130   | 119   | 110   | 106    | 175.00% |
| 5  | 0       | 0     | 0     | 0     | 189   | 321   | 401   | 484   | 537   | 586   | 638   | 684   | 444   | 383   | 353   | 341    | 150.00% |
| 6  | 0       | 0     | 0     | 0     | 0     | 0     | 93    | 93    | 151   | 192   | 220   | 256   | 296   | 258   | 246   | 240    | 137.50% |
| 7  | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 65    | 110   | 169   | 249   | 307   | 666   | 602   | 580   | 568    | 125.00% |
| 8  | 3 000   | 5 100 | 5 730 | 6 612 | 7 185 | 7 688 | 8 191 | 8 653 | 9 110 | 9 563 | 7 010 | 4 192 | 3 613 | 3 335 | 3 211 | 3 211  | 112.50% |
| 9  | 0       | 0     | 1 470 | 1 470 | 2 087 | 2 736 | 2 995 | 3 423 | 3 837 | 4 114 | 4 462 | 3 015 | 2 663 | 2 489 | 2 408 | 2 408  | 100.00% |
| 10 | 0       | 0     | 0     | 1 029 | 1 029 | 1 245 | 1 850 | 1 941 | 2 177 | 2 540 | 2 684 | 2 195 | 1 796 | 1 679 | 1 622 | 95.00% |         |
| 11 | 0       | 0     | 0     | 0     | 720   | 720   | 872   | 1 401 | 1 465 | 1 652 | 1 999 | 1 936 | 1 687 | 1 529 | 1 486 | 90.00% |         |
| 12 | 0       | 0     | 0     | 0     | 0     | 504   | 504   | 610   | 1 055 | 1 099 | 1 246 | 1 584 | 1 514 | 1 456 | 1 403 | 85.00% |         |
| 13 | 0       | 0     | 0     | 0     | 0     | 353   | 353   | 427   | 790   | 821   | 1 624 | 1 372 | 1 400 | 1 405 | 1 405 | 80.00% |         |
| 14 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 247   | 247   | 299   | 589   | 1 223 | 1 244 | 1 244 | 1 194 | 76.00% |         |
| 15 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 173   | 173   | 209   | 907   | 1 025 | 1 042 | 1 019 | 905    | 72.00%  |
| 16 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 121   | 121   | 809   | 838   | 891   | 905   | 68.00% |         |
| 17 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 85    | 503   | 823   | 824   | 866    | 64.00%  |
| 18 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 372   | 847   | 1 070 | 1 141  | 60.00%  |
| 19 | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 478   | 1 685 | 2 325 | 2 617  | 57.00%  |
| 20 |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 54.00% |         |
| 21 |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 51.00% |         |
| 22 |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 50.00% |         |

## No Claim Last Year, Claim Year Before

|    | Loading |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 100.00% |
|----|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---------|
| 1  | 0       | 0     | 0     | 0     | 0     | 0     | 17    | 58    | 114   | 175   | 234   | 295   | 542   | 448   | 407   | 389      | 300.00% |
| 2  | 0       | 0     | 0     | 0     | 0     | 57    | 136   | 215   | 277   | 333   | 392   | 441   | 488   | 414   | 384   | 371      | 250.00% |
| 3  | 0       | 0     | 0     | 0     | 189   | 321   | 493   | 577   | 707   | 811   | 904   | 1 008 | 917   | 803   | 749   | 725      | 200.00% |
| 4  | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 14    | 23    | 29    | 93    | 83    | 78    | 75       | 175.00% |
| 5  | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 65    | 110   | 137   | 195   | 246   | 450   | 392   | 364   | 353      | 150.00% |
| 6  | 0       | 0     | 630   | 1 071 | 1 336 | 1 613 | 1 789 | 1 953 | 2 128 | 2 281 | 2 421 | 1 440 | 1 258 | 1 174 | 1 132 | 1 37.50% |         |
| 7  | 0       | 0     | 0     | 0     | 309   | 309   | 503   | 639   | 735   | 853   | 976   | 981   | 856   | 813   | 800   | 125.00%  |         |
| 8  | 0       | 0     | 0     | 0     | 0     | 216   | 367   | 564   | 829   | 1 022 | 1 250 | 2 148 | 2 009 | 1 930 | 1 889 | 1 12.50% |         |
| 9  | 0       | 2 100 | 3 570 | 4 011 | 4 628 | 5 030 | 5 382 | 5 734 | 6 057 | 6 377 | 6 694 | 2 984 | 2 558 | 2 349 | 2 254 | 100.00%  |         |
| 10 | 0       | 0     | 0     | 1 029 | 1 029 | 1 461 | 1 915 | 2 096 | 2 396 | 2 738 | 2 932 | 2 501 | 2 199 | 2 138 | 2 105 | 95.00%   |         |
| 11 | 0       | 0     | 0     | 0     | 720   | 720   | 872   | 1 295 | 1 359 | 1 524 | 1 814 | 1 718 | 1 531 | 1 388 | 1 350 | 90.00%   |         |

|    |   |   |   |   |   |     |     |     |     |       |       |       |       |       |       |        |
|----|---|---|---|---|---|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|--------|
| 12 | 0 | 0 | 0 | 0 | 0 | 504 | 504 | 610 | 981 | 1 025 | 1 156 | 1 409 | 1 354 | 1 284 | 1 227 | 85.00% |
| 13 | 0 | 0 | 0 | 0 | 0 | 0   | 353 | 353 | 427 | 738   | 769   | 1 429 | 1 193 | 1 186 | 1 174 | 80.00% |
| 14 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 247 | 247 | 299   | 553   | 1 092 | 1 192 | 1 183 | 1 216 | 76.00% |
| 15 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 173 | 173   | 209   | 840   | 1 152 | 1 323 | 1 372 | 72.00% |
| 16 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 121   | 121   | 719   | 688   | 717   | 723   | 68.00% |
| 17 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0     | 85    | 456   | 648   | 612   | 628   | 64.00% |
| 18 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0     | 0     | 316   | 536   | 598   | 601   | 60.00% |
| 19 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0     | 0     | 239   | 552   | 727   | 802   | 57.00% |
| 20 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0     | 0     | 239   | 1 133 | 1 598 | 1 815 | 54.00% |
| 21 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 51.00% |
| 22 | 0 | 0 | 0 | 0 | 0 | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 50.00% |

## Claim Each of Last 2 Years

|    |   |     |       |       |       |       |       |       |       |       |       |       |       |       |       |         |         |
|----|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|
|    |   |     |       |       |       |       |       |       |       |       |       |       |       |       |       | Loading | 100.00% |
| 1  | 0 | 0   | 0     | 0     | 0     | 24    | 66    | 117   | 167   | 218   | 268   | 315   | 441   | 370   | 339   | 326     | 300.00% |
| 2  | 0 | 0   | 0     | 0     | 81    | 138   | 211   | 247   | 303   | 348   | 387   | 432   | 393   | 344   | 321   | 311     | 250.00% |
| 3  | 0 | 0   | 270   | 459   | 705   | 824   | 1 010 | 1 158 | 1 291 | 1 437 | 1 573 | 1 270 | 1 110 | 1 041 | 1 011 | 200.00% |         |
| 4  | 0 | 0   | 0     | 0     | 0     | 93    | 157   | 196   | 278   | 352   | 402   | 623   | 550   | 520   | 504   | 175.00% |         |
| 5  | 0 | 900 | 1 530 | 1 719 | 1 984 | 2 156 | 2 306 | 2 503 | 2 673 | 2 820 | 3 002 | 3 577 | 1 407 | 1 314 | 1 272 | 1 272   | 150.00% |
| 6  | 0 | 0   | 0     | 441   | 441   | 626   | 821   | 898   | 1 027 | 1 173 | 1 257 | 1 072 | 942   | 916   | 902   | 137.50% |         |
| 7  | 0 | 0   | 0     | 0     | 309   | 525   | 590   | 817   | 1 003 | 1 092 | 1 273 | 1 340 | 1 237 | 1 145 | 1 104 | 125.00% |         |
| 8  | 0 | 0   | 0     | 0     | 0     | 0     | 151   | 257   | 289   | 445   | 567   | 1 080 | 1 022 | 1 015 | 1 025 | 112.50% |         |
| 9  | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 74    | 74    | 90    | 368   | 494   | 567   | 588   | 100.00% |         |
| 10 | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 52    | 52    | 308   | 295   | 307   | 310   | 95.00%  |         |
| 11 | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 36    | 196   | 278   | 262   | 269   | 90.00%  |         |
| 12 | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 135   | 230   | 256   | 257   | 85.00%  |         |
| 13 | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 102   | 237   | 312   | 344   | 80.00%  |         |
| 14 | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 102   | 485   | 685   | 778   | 76.00%  |         |
| 15 | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 72.00%  |         |
| 16 | 0 | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 68.00%  |         |

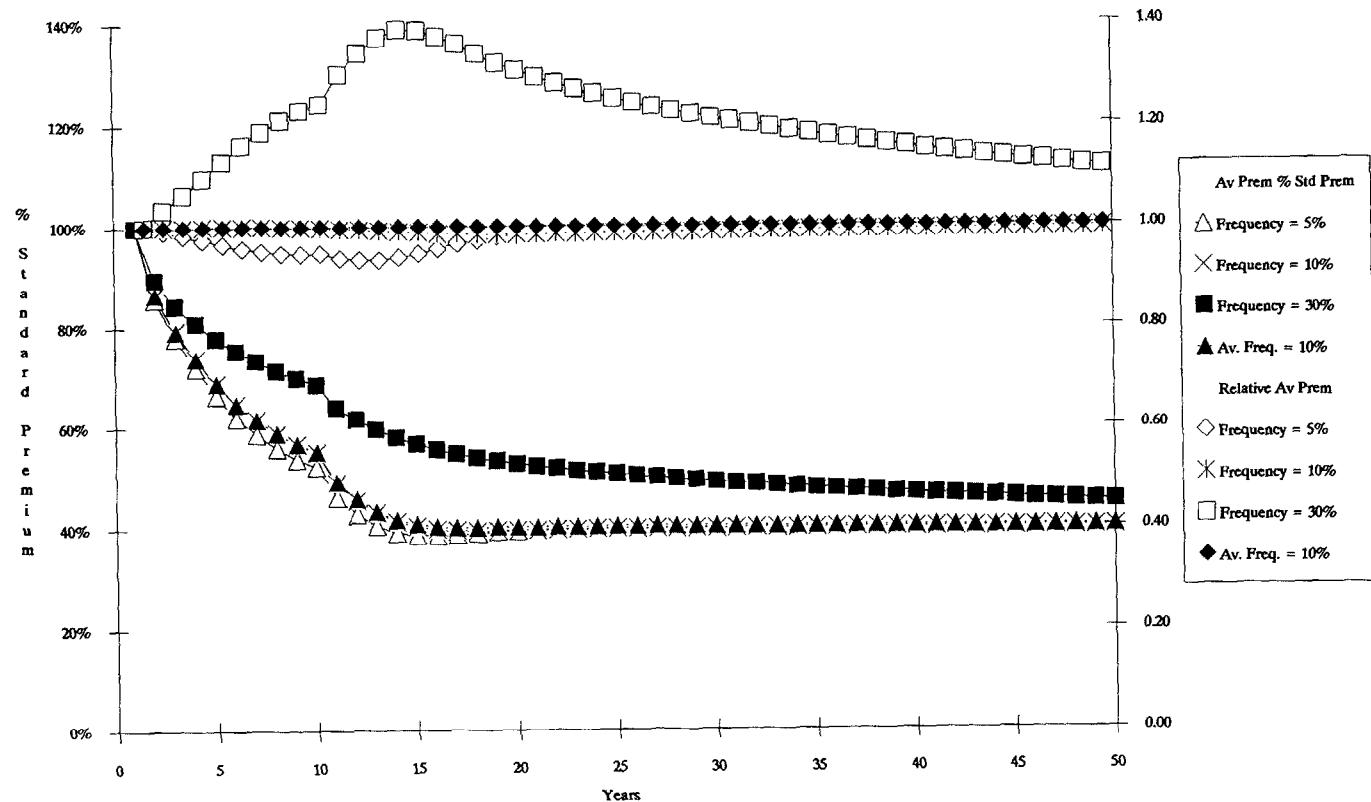
## TOTAL

|    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |           |         |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-----------|---------|
|    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |           | 300.00% |
| 1  | 0      | 0      | 0      | 0      | 0      | 24     | 100    | 221    | 364    | 509    | 655    | 798    | 1 299  | 1 080  | 986   | 944       | 250.00% |
| 2  | 0      | 0      | 0      | 0      | 81     | 251    | 444    | 611    | 753    | 893    | 1 022  | 1 145  | 1 162  | 1 001  | 931   | 899       | 150.00% |
| 3  | 0      | 0      | 0      | 270    | 648    | 1 026  | 1 317  | 1 587  | 1 866  | 2 102  | 2 345  | 2 589  | 2 217  | 1 938  | 1 813 | 1 758     | 200.00% |
| 4  | 0      | 0      | 0      | 0      | 0      | 0      | 93     | 157    | 216    | 325    | 416    | 490    | 846    | 752    | 708   | 684       | 175.00% |
| 5  | 0      | 900    | 1 530  | 1 908  | 2 305  | 2 556  | 2 855  | 3 150  | 3 396  | 3 653  | 3 933  | 2 471  | 2 182  | 2 030  | 1 966 | 1 500.00% |         |
| 6  | 0      | 0      | 630    | 1 512  | 1 777  | 2 332  | 2 703  | 3 003  | 3 346  | 3 675  | 3 933  | 2 808  | 2 458  | 2 336  | 2 274 | 137.50%   |         |
| 7  | 0      | 0      | 0      | 0      | 617    | 833    | 1 158  | 1 566  | 1 906  | 2 194  | 2 555  | 2 986  | 2 694  | 2 537  | 2 473 | 125.00%   |         |
| 8  | 0      | 3 000  | 5 100  | 5 730  | 6 612  | 7 185  | 7 904  | 8 709  | 9 474  | 10 228 | 11 030 | 8 827  | 7 420  | 6 644  | 6 280 | 6 125     | 112.50% |
| 9  | 10 000 | 10 000 | 12 100 | 15 040 | 15 922 | 17 598 | 19 181 | 20 326 | 21 659 | 23 023 | 14 178 | 15 380 | 11 403 | 10 129 | 9 552 | 9 271     | 100.00% |
| 10 | 0      | 7 000  | 7 000  | 8 470  | 11 557 | 12 174 | 13 564 | 15 277 | 16 169 | 17 338 | 18 708 | 12 661 | 10 716 | 9 225  | 8 692 | 8 440     | 95.00%  |
| 11 | 0      | 0      | 4 900  | 4 900  | 5 929  | 8 810  | 9 242  | 10 366 | 12 095 | 12 783 | 13 788 | 15 132 | 9 697  | 8 569  | 7 888 | 7 668     | 90.00%  |
| 12 | 0      | 0      | 0      | 3 430  | 3 430  | 4 150  | 6 671  | 6 974  | 7 866  | 9 521  | 10 047 | 10 898 | 8 386  | 7 735  | 7 310 | 7 032     | 85.00%  |
| 13 | 0      | 0      | 0      | 0      | 2 401  | 2 401  | 2 905  | 5 023  | 5 235  | 5 933  | 7 455  | 7 854  | 8 278  | 6 993  | 6 815 | 6 707     | 80.00%  |
| 14 | 0      | 0      | 0      | 0      | 0      | 1 681  | 1 681  | 2 034  | 3 763  | 3 911  | 4 452  | 5 808  | 6 935  | 6 857  | 6 617 | 6 655     | 76.00%  |
| 15 | 0      | 0      | 0      | 0      | 0      | 0      | 1 176  | 1 176  | 1 424  | 2 807  | 2 911  | 3 326  | 5 444  | 5 709  | 5 763 | 5 664     | 72.00%  |
| 16 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 824    | 824    | 996    | 2 086  | 2 159  | 5 317  | 4 729  | 4 875 | 4 907     | 68.00%  |
| 17 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 576    | 576    | 698    | 1 545  | 3 813  | 4 375  | 4 195 | 4 279     | 64.00%  |
| 18 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 404    | 404    | 488    | 2 804  | 3 775  | 4 100 | 4 119     | 60.00%  |
| 19 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 282    | 282    | 2 605  | 4 193  | 5 130  | 5 532 | 57.00%    |         |
| 20 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 198    | 1 412  | 3 053  | 3 521 | 3 835     | 54.00%  |
| 21 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 867    | 1 977  | 2 497  | 2 662 | 51.00%    |         |
| 22 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 115  | 3 931  | 5 424  | 6 107 | 50.00%    |         |

## TOTAL

10 000 20 000 30 000 40 000 50 000 60 000 70 000 80 000 90 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000

### No Claims Discount Model - UK - With Bonus Protection



## No Claims Discount Model - UK - With Bonus Protection

Probability Claim

5.00%

## NUMBER OF INSURED

Class / Year  
NEW ENTRANTS:

|    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | Premium Scale |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|
|    | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 0      | 0      | 0      | 0      | 0      | 100.00%       |        |
| 0  | 10 000 | 10 500 | 11 000 | 11 500 | 11 571 | 11 643 | 11 714 | 11 727 | 11 740 | 11 754 | 1 757  | 1 261  | 14     | 0      | 0      | 100.00%       |        |
| 1  |        | 9 500  | 9 975  | 10 450 | 11 354 | 11 443 | 11 532 | 11 679 | 11 698 | 11 716 | 11 745 | 2 251  | 55     | 1      | 0      | 70.00%        |        |
| 2  |        |        | 9 025  | 9 476  | 9 928  | 11 193 | 11 298 | 11 403 | 11 637 | 11 679 | 11 721 | 11 768 | 148    | 3      | 0      | 60.00%        |        |
| 3  |        |        |        | 8 574  | 9 002  | 9 431  | 11 020 | 11 140 | 11 259 | 11 570 | 11 632 | 11 695 | 276    | 7      | 0      | 50.00%        |        |
| 4  |        |        |        |        | 8 145  | 8 552  | 8 960  | 10 837 | 11 318 | 11 799 | 12 213 | 12 391 | 1 101  | 24     | 1      | 40.00%        |        |
| 5  |        |        |        |        |        | 7 738  | 8 125  | 8 512  | 10 295 | 10 752 | 11 209 | 11 602 | 1 492  | 33     | 1      | 35.00%        |        |
| 6  |        |        |        |        |        |        | 7 351  | 7 718  | 8 086  | 9 780  | 10 214 | 10 648 | 1 835  | 47     | 1      | 35.00%        |        |
| 7  |        |        |        |        |        |        |        | 6 983  | 7 333  | 7 682  | 9 291  | 9 704  | 3 333  | 64     | 1      | 35.00%        |        |
| 8  |        |        |        |        |        |        |        |        | 6 634  | 6 966  | 7 298  | 8 827  | 3 469  | 90     | 2      | 35.00%        |        |
| 9  |        |        |        |        |        |        |        |        |        | 6 302  | 12 920 | 19 853 | 88 276 | 99 732 | 99 994 | 100 000       | 40.00% |
| 10 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |

TOTAL

10000 20 000 30 000 40 000 50 000 60 000 70 000 80 000 90 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000

Probability Claim

10.00%

Class / Year  
NEW ENTRANTS

|    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | Premium Scale |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|
|    | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 0      | 0      | 0      | 0      | 0      | 100.00%       |        |
| 0  | 10 000 | 11 000 | 12 000 | 13 000 | 13 271 | 13 542 | 13 813 | 13 907 | 14 001 | 14 095 | 4 136  | 3 177  | 213    | 22     | 2      | 0             |        |
| 1  |        | 9 000  | 9 900  | 10 800 | 12 429 | 12 746 | 13 063 | 13 557 | 13 678 | 13 800 | 13 975 | 5 038  | 514    | 47     | 5      | 70.00%        |        |
| 2  |        |        | 8 100  | 8 910  | 9 720  | 11 842 | 12 193 | 12 544 | 13 266 | 13 463 | 13 660 | 13 929 | 1 040  | 109    | 12     | 1             |        |
| 3  |        |        |        | 7 290  | 8 019  | 8 748  | 11 248 | 11 623 | 11 998 | 12 899 | 13 154 | 13 409 | 1 581  | 184    | 20     | 2             |        |
| 4  |        |        |        |        | 6 561  | 7 217  | 7 873  | 10 655 | 11 524 | 12 392 | 13 519 | 14 065 | 4 055  | 434    | 48     | 5             |        |
| 5  |        |        |        |        |        | 5 905  | 6 495  | 7 086  | 9 590  | 10 371 | 11 153 | 12 167 | 4 318  | 492    | 54     | 6             |        |
| 6  |        |        |        |        |        |        | 5 314  | 5 846  | 6 377  | 8 631  | 9 334  | 10 038 | 4 467  | 552    | 60     | 7             |        |
| 7  |        |        |        |        |        |        |        | 4 783  | 5 261  | 5 740  | 7 768  | 8 401  | 5 920  | 610    | 68     | 7             |        |
| 8  |        |        |        |        |        |        |        |        | 4 305  | 4 735  | 5 166  | 6 991  | 5 593  | 697    | 76     | 8             |        |
| 9  |        |        |        |        |        |        |        |        |        | 3 874  | 8 136  | 12 785 | 72 299 | 96 853 | 99 654 | 99 962        | 40.00% |
| 10 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |

TOTAL

10000 20 000 30 000 40 000 50 000 60 000 70 000 80 000 90 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000

## No Claims Discount Model - UK - With Bonus Protection

Probability Claim

30.00%

## NUMBER OF INSUREDS

| Class / Year | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50 Scale |         |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|----------|---------|
| NEW ENTRANTS | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0       | 100.00%  |         |
| 0            | 10 000 | 13 000 | 16 000 | 19 000 | 20 971 | 22 942 | 24 913 | 26 430 | 27 947 | 29 465  | 20 737  | 19 010  | 11 063  | 7 889   | 5 799   | 4 274    | 100.00% |
| 1            | 7 000  | 9 100  | 11 200 | 14 329 | 16 017 | 17 706 | 19 848 | 21 249 | 22 650 | 24 296  | 18 536  | 11 976  | 8 413   | 6 200   | 4 569   | 70.00%   |         |
| 2            |        | 4 900  | 6 370  | 7 840  | 10 751 | 12 149 | 13 547 | 15 686 | 17 010 | 18 333  | 20 026  | 12 614  | 9 187   | 6 746   | 4 975   | 60.00%   |         |
| 3            |        |        | 3 430  | 4 459  | 5 488  | 8 030  | 9 159  | 10 289 | 12 234 | 13 401  | 14 568  | 11 783  | 8 836   | 6 515   | 4 801   | 50.00%   |         |
| 4            |        |        |        | 2 401  | 3 121  | 3 842  | 5 974  | 7 118  | 8 261  | 10 062  | 11 319  | 13 310  | 9 933   | 7 357   | 5 424   | 40.00%   |         |
| 5            |        |        |        |        | 1 681  | 2 185  | 2 689  | 4 182  | 4 982  | 5 783   | 7 044   | 9 263   | 7 204   | 5 306   | 3 914   | 35.00%   |         |
| 6            |        |        |        |        |        | 1 176  | 1 529  | 1 882  | 2 927  | 3 488   | 4 048   | 6 470   | 5 176   | 3 833   | 2 825   | 35.00%   |         |
| 7            |        |        |        |        |        |        | 824    | 1 071  | 1 318  | 2 049   | 2 441   | 4 853   | 3 716   | 2 765   | 2 039   | 35.00%   |         |
| 8            |        |        |        |        |        |        |        | 576    | 749    | 922     | 1 434   | 3 241   | 2 704   | 1 993   | 1 471   | 35.00%   |         |
| 9            |        |        |        |        |        |        |        |        | 404    | 928     | 1 574   | 15 426  | 36 942  | 53 486  | 65 708  | 40.00%   |         |
| 10           |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |          |         |
| TOTAL        | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 |          |         |

| Weighted Average    | Type 1 | 20.00% | Probability Claim | 5.00% Average | 10.00% |        |        |        |        |         |         |         |         |         |         |          |         |
|---------------------|--------|--------|-------------------|---------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|----------|---------|
|                     | Type 2 | 75.00% |                   |               |        |        |        |        |        |         |         |         |         |         |         |          |         |
|                     | Type 3 | 5.00%  |                   |               |        |        |        |        |        |         |         |         |         |         |         |          |         |
| <b>Class / Year</b> |        |        |                   |               |        |        |        |        |        |         |         |         |         |         |         |          |         |
|                     | 1      | 2      | 3                 | 4             | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50 Scale |         |
| 0                   | 10 000 | 11 000 | 12 000            | 13 000        | 13 316 | 13 632 | 13 948 | 14 097 | 14 246 | 14 395  | 4 490   | 3 585   | 716     | 411     | 292     | 214      | 100.00% |
| 1                   | 9 000  | 9 875  | 10 750            | 12 309        | 12 649 | 12 989 | 13 496 | 13 661 | 13 826 | 14 045  | 5 155   | 996     | 456     | 314     | 229     | 70.00%   |         |
| 2                   |        | 8 125  | 8 896             | 9 668         | 11 658 | 12 012 | 12 366 | 13 062 | 13 284 | 13 505  | 13 802  | 1 440   | 541     | 346     | 250     | 60.00%   |         |
| 3                   |        |        | 7 354             | 8 038         | 8 722  | 11 042 | 11 403 | 11 765 | 12 600 | 12 862  | 13 124  | 1 830   | 581     | 341     | 242     | 50.00%   |         |
| 4                   |        |        |                   | 6 670         | 7 279  | 7 889  | 10 457 | 11 262 | 12 067 | 13 085  | 13 593  | 3 927   | 827     | 404     | 275     | 40.00%   |         |
| 5                   |        |        |                   |               | 6 060  | 6 606  | 7 151  | 9 460  | 10 178 | 10 896  | 11 798  | 4 000   | 735     | 306     | 200     | 35.00%   |         |
| 6                   |        |        |                   |               |        | 5 515  | 6 005  | 6 494  | 8 575  | 9 218   | 9 860   | 4 041   | 682     | 237     | 146     | 35.00%   |         |
| 7                   |        |        |                   |               |        |        | 5 025  | 5 466  | 5 907  | 7 786   | 8 363   | 5 349   | 656     | 189     | 108     | 35.00%   |         |
| 8                   |        |        |                   |               |        |        |        | 4 584  | 4 982  | 5 380   | 7 080   | 5 051   | 676     | 157     | 80      | 35.00%   |         |
| 9                   |        |        |                   |               |        |        |        |        | 4 186  | 8 732   | 13 638  | 72 651  | 94 433  | 97 414  | 98 257  | 40.00%   |         |
| 10                  |        |        |                   |               |        |        |        |        |        |         |         |         |         |         |         |          |         |
| TOTAL               | 10 000 | 20 000 | 30 000            | 40 000        | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | Av Prem  |         |

## No Claims Discount Model - UK - With Bonus Protection

Probability Claim 5.00%

UNITS OF STANDARD PREMIUM

Class / Year

|   | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |
|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 10 000  | 10 500 | 11 000 | 11 500 | 11 571 | 11 643 | 11 714 | 11 727 | 11 740 | 11 754 | 1 757  | 1 261  | 14     | 0      | 0      | 0      |
| 1 | 0       | 6 650  | 6 983  | 7 315  | 7 948  | 8 010  | 8 072  | 8 175  | 8 188  | 8 201  | 8 221  | 1 576  | 39     | 1      | 0      | 0      |
| 2 | 0       | 0      | 5 415  | 5 686  | 5 957  | 6 716  | 6 779  | 6 842  | 6 982  | 7 007  | 7 032  | 7 061  | 89     | 2      | 0      | 0      |
| 3 | 0       | 0      | 0      | 4 287  | 4 501  | 4 716  | 5 510  | 5 570  | 5 629  | 5 785  | 5 816  | 5 847  | 138    | 3      | 0      | 0      |
| 4 | 0       | 0      | 0      | 0      | 3 258  | 3 421  | 3 584  | 4 335  | 4 527  | 4 719  | 4 885  | 4 956  | 440    | 10     | 0      | 0      |
| 5 | 0       | 0      | 0      | 0      | 0      | 2 708  | 2 844  | 2 979  | 3 603  | 3 763  | 3 923  | 4 061  | 522    | 12     | 0      | 0      |
| 6 | 0       | 0      | 0      | 0      | 0      | 0      | 2 573  | 2 701  | 2 830  | 3 423  | 3 575  | 3 727  | 642    | 16     | 0      | 0      |
| 7 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 2 444  | 2 566  | 2 689  | 3 252  | 3 396  | 1 167  | 22     | 0      | 0      |
| 8 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 322  | 2 438  | 2 554  | 3 089  | 1 214  | 31     | 1      | 0      |
| 9 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 521  | 5 168  | 7 941  | 35 311 | 39 893 | 39 998 | 40 000 |
|   | 10 000  | 17 150 | 23 398 | 28 788 | 33 235 | 37 213 | 41 076 | 44 774 | 48 390 | 52 301 | 46 185 | 42 916 | 39 576 | 39 990 | 40 000 | 40 000 |
|   | 100.00% | 85.75% | 77.99% | 71.97% | 66.47% | 62.02% | 58.68% | 55.97% | 53.77% | 52.30% | 46.18% | 42.92% | 39.58% | 39.99% | 40.00% | 40.00% |

Probability Claim 10.00%

Class / Year

|                | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9       | 10     | 11     | 12     | 20     | 30     | 40     | 50     |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0              | 10 000  | 11 000 | 12 000 | 13 000 | 13 271 | 13 542 | 13 813 | 13 907 | 14 001  | 14 095 | 4 136  | 3 177  | 213    | 22     | 2      | 0      |
| 1              | 0       | 6 300  | 6 930  | 7 560  | 8 700  | 8 922  | 9 144  | 9 490  | 9 575   | 9 660  | 9 782  | 3 526  | 360    | 33     | 4      | 0      |
| 2              | 0       | 0      | 4 860  | 5 346  | 5 832  | 7 105  | 7 316  | 7 526  | 7 960   | 8 078  | 8 196  | 8 358  | 624    | 65     | 7      | 1      |
| 3              | 0       | 0      | 0      | 3 645  | 4 010  | 4 374  | 5 624  | 5 812  | 5 999   | 6 449  | 6 577  | 6 704  | 791    | 92     | 10     | 1      |
| 4              | 0       | 0      | 0      | 0      | 2 624  | 2 887  | 3 149  | 4 262  | 4 609   | 4 957  | 5 408  | 5 626  | 1 622  | 174    | 19     | 2      |
| 5              | 0       | 0      | 0      | 0      | 0      | 2 067  | 2 273  | 2 480  | 3 356   | 3 630  | 3 904  | 4 259  | 1 511  | 172    | 19     | 2      |
| 6              | 0       | 0      | 0      | 0      | 0      | 0      | 1 860  | 2 046  | 2 232   | 3 021  | 3 267  | 3 513  | 1 563  | 193    | 21     | 2      |
| 7              | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 1 674  | 1 841   | 2 009  | 2 719  | 2 940  | 2 072  | 213    | 24     | 3      |
| 8              | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 507   | 1 657  | 1 808  | 2 447  | 1 958  | 244    | 27     | 3      |
| 9              | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 1 550  | 3 254  | 5 114  | 28 920 | 38 741 | 39 862 | 39 985 |
|                | 10 000  | 17 300 | 23 790 | 29 551 | 34 437 | 38 897 | 43 180 | 47 196 | \$1 080 | 55 106 | 49 050 | 45 664 | 39 633 | 39 950 | 39 994 | 39 999 |
| Frequency = 10 | 100.00% | 86.50% | 79.30% | 73.88% | 68.87% | 64.83% | 61.69% | 59.00% | 56.76%  | 55.11% | 49.05% | 45.66% | 39.63% | 39.95% | 39.99% | 40.00% |
| Frequency = 5% | 100.00% | 85.75% | 77.99% | 71.97% | 66.47% | 62.02% | 58.68% | 55.97% | 53.77%  | 52.30% | 46.18% | 42.92% | 39.58% | 39.99% | 40.00% | 40.00% |

## No Claims Discount Model - UK - With Bonus Protection

## Probability Claim 30.00%

## UNITS OF STANDARD PREMIUM

Class / Year

|   | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 10 000 | 13 000 | 16 000 | 19 000 | 20 971 | 22 942 | 24 913 | 26 430 | 27 947 | 29 465 | 20 737 | 19 010 | 11 063 | 7 889  | 5 799  | 4 274  |
| 1 | 0      | 4 900  | 6 370  | 7 840  | 10 030 | 11 212 | 12 394 | 13 894 | 14 874 | 15 855 | 17 007 | 12 976 | 8 383  | 5 889  | 4 340  | 3 198  |
| 2 | 0      | 0      | 2 940  | 3 822  | 4 704  | 6 450  | 7 289  | 8 128  | 9 411  | 10 206 | 11 000 | 12 015 | 7 568  | 5 512  | 4 048  | 2 985  |
| 3 | 0      | 0      | 0      | 1 715  | 2 230  | 2 744  | 4 015  | 4 580  | 5 145  | 6 117  | 6 701  | 7 284  | 5 891  | 4 418  | 3 258  | 2 400  |
| 4 | 0      | 0      | 0      | 0      | 960    | 1 249  | 1 537  | 2 389  | 2 847  | 3 305  | 4 025  | 4 527  | 5 324  | 3 973  | 2 943  | 2 170  |
| 5 | 0      | 0      | 0      | 0      | 0      | 588    | 765    | 941    | 1 464  | 1 744  | 2 024  | 2 465  | 3 242  | 2 522  | 1 857  | 1 370  |
| 6 | 0      | 0      | 0      | 0      | 0      | 0      | 412    | 535    | 659    | 1 024  | 1 221  | 1 417  | 2 265  | 1 812  | 1 342  | 989    |
| 7 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 288    | 375    | 461    | 717    | 854    | 1 699  | 1 301  | 968    | 714    |
| 8 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 202    | 262    | 323    | 502    | 1 134  | 947    | 698    | 515    |
| 9 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 161    | 371    | 630    | 6 171  | 14 777 | 21 394 | 26 283 |

|                |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency = 30 | 10 000  | 17 900 | 25 310 | 32 377 | 38 895 | 45 185 | 51 324 | 57 186 | 62 924 | 68 600 | 64 126 | 61 680 | 52 741 | 49 038 | 46 645 | 44 898 |
| Frequency = 10 | 100.00% | 89.50% | 84.37% | 80.94% | 77.79% | 75.31% | 73.32% | 71.48% | 69.92% | 68.60% | 64.13% | 61.68% | 52.74% | 49.04% | 46.64% | 44.90% |
| Frequency = 5% | 100.00% | 86.50% | 79.30% | 73.88% | 68.87% | 64.83% | 61.69% | 59.00% | 56.76% | 55.11% | 49.05% | 45.66% | 39.63% | 39.95% | 39.99% | 40.00% |
|                | 100.00% | 85.75% | 77.99% | 71.97% | 66.47% | 62.02% | 58.68% | 55.97% | 53.77% | 52.30% | 46.18% | 42.92% | 39.58% | 39.99% | 40.00% | 40.00% |

Class / Year

|   | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11    | 12    | 20     | 30     | 40     | 50     |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|
| 0 | 10 000 | 11 000 | 12 000 | 13 000 | 13 316 | 13 632 | 13 948 | 14 097 | 14 246 | 14 395 | 4 490 | 3 585 | 716    | 411    | 292    | 214    |
| 1 | 0      | 6 300  | 6 913  | 7 525  | 8 616  | 8 854  | 9 092  | 9 447  | 9 563  | 9 678  | 9 831 | 3 609 | 697    | 319    | 220    | 160    |
| 2 | 0      | 0      | 4 875  | 5 338  | 5 801  | 6 995  | 7 207  | 7 419  | 7 837  | 7 970  | 8 103 | 8 281 | 864    | 325    | 208    | 150    |
| 3 | 0      | 0      | 0      | 3 677  | 4 019  | 4 361  | 5 521  | 5 702  | 5 882  | 6 300  | 6 431 | 6 562 | 915    | 290    | 170    | 121    |
| 4 | 0      | 0      | 0      | 0      | 2 668  | 2 912  | 3 156  | 4 183  | 4 505  | 4 827  | 5 234 | 5 437 | 1 571  | 331    | 162    | 110    |
| 5 | 0      | 0      | 0      | 0      | 0      | 2 121  | 2 312  | 2 503  | 3 311  | 3 562  | 3 814 | 4 129 | 1 400  | 257    | 107    | 70     |
| 6 | 0      | 0      | 0      | 0      | 0      | 0      | 1 930  | 2 102  | 2 273  | 3 001  | 3 226 | 3 451 | 1 414  | 239    | 83     | 51     |
| 7 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 759  | 1 913  | 2 067  | 2 725 | 2 927 | 1 872  | 230    | 66     | 38     |
| 8 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 604  | 1 744  | 1 883 | 2 478 | 1 768  | 237    | 55     | 28     |
| 9 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 675  | 3 493 | 5 455 | 29 060 | 37 773 | 38 966 | 39 303 |

|      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 139% | 10 000 | 17 300 | 23 788 | 29 540 | 34 420 | 38 875 | 43 166 | 47 211 | 51 134 | 55 219 | 49 231 | 45 916 | 40 277 | 40 413 | 40 328 | 40 244 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

## No Claims Discount Model - UK - With Bonus Protection

## CALCULATION OF IMPLICIT EXCESS OR DEDUCTIBLE

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL   | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|---------|---------|------|
| Claim?       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | Premium | Paid    |      |
| 0            |   |   |   |   |   |   |   |   |   |   |    | 0       | 100.00% | 0.00 |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 0       | 70.00%  | 0.00 |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 0       | 60.00%  | 0.00 |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 0       | 50.00%  | 0.00 |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 0       | 40.00%  | 0.00 |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 0       | 35.00%  | 0.00 |
| 6            | 1 |   |   |   |   |   |   |   |   |   |    | 0       | 35.00%  | 0.00 |
| 7            |   | 1 |   |   |   |   |   |   |   |   |    | 1       | 35.00%  | 0.35 |
| 8            |   |   | 1 |   |   |   |   |   |   |   |    | 1       | 35.00%  | 0.35 |
| 9            |   |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 8       | 40.00%  | 3.20 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | TOTAL   | 3.90    |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL   | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|---------|---------|------|
| Claim?       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | Premium | Paid    |      |
| 0            |   |   |   |   |   |   |   |   |   |   |    | 0       | 100.00% | 0.00 |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 0       | 70.00%  | 0.00 |
| 2            |   | 1 |   |   |   |   |   |   |   |   |    | 0       | 60.00%  | 0.00 |
| 3            |   |   | 1 |   |   |   |   |   |   |   |    | 1       | 50.00%  | 0.50 |
| 4            |   |   |   | 1 |   |   |   |   |   |   |    | 1       | 40.00%  | 0.40 |
| 5            |   |   |   |   | 1 |   |   |   |   |   |    | 1       | 35.00%  | 0.35 |
| 6            | 1 |   |   |   | 1 |   |   |   |   |   |    | 1       | 35.00%  | 0.35 |
| 7            |   |   |   |   |   | 1 |   |   |   |   |    | 1       | 35.00%  | 0.35 |
| 8            |   |   |   |   |   |   | 1 |   |   |   |    | 1       | 35.00%  | 0.35 |
| 9            |   |   |   |   |   |   |   | 1 |   |   |    | 1       | 40.00%  | 1.60 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | TOTAL   | 3.90    |      |
|              |   |   |   |   |   |   |   |   |   |   |    | Average | 0.39    |      |
|              |   |   |   |   |   |   |   |   |   |   |    | Excess  | 0.00    |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL   | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|---------|---------|------|
| Claim?       | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | Premium | Paid    |      |
| 0            |   |   |   |   |   |   |   |   |   |   |    | 0       | 100.00% | 0.00 |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 0       | 70.00%  | 0.00 |
| 2            |   | 1 |   |   |   |   |   |   |   |   |    | 1       | 60.00%  | 0.60 |
| 3            |   |   | 1 |   |   |   |   |   |   |   |    | 1       | 50.00%  | 0.50 |
| 4            |   |   |   | 1 |   |   |   |   |   |   |    | 1       | 40.00%  | 0.40 |
| 5            |   |   |   |   | 1 |   |   |   |   |   |    | 1       | 35.00%  | 0.35 |
| 6            | 1 |   |   |   | 1 |   |   |   |   |   |    | 1       | 35.00%  | 0.35 |
| 7            |   |   |   |   |   | 1 |   |   |   |   |    | 1       | 35.00%  | 0.35 |
| 8            |   |   |   |   |   |   | 1 |   |   |   |    | 1       | 35.00%  | 0.35 |
| 9            |   |   |   |   |   |   |   | 1 |   |   |    | 1       | 40.00%  | 1.60 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | TOTAL   | 3.90    |      |
|              |   |   |   |   |   |   |   |   |   |   |    | Average | 0.39    |      |
|              |   |   |   |   |   |   |   |   |   |   |    | Excess  | 0.00    |      |

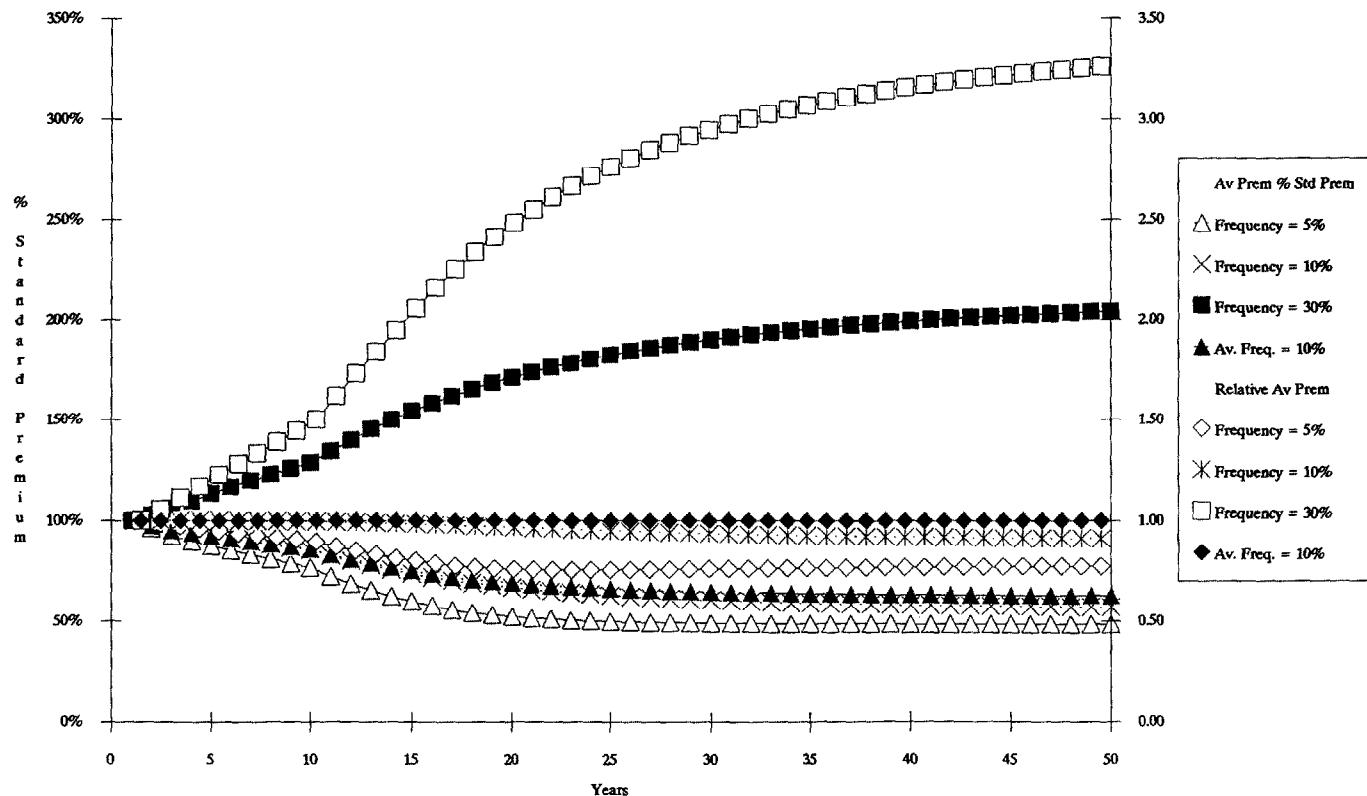
## No Claims Discount Model - UK - With Bonus Protection

## TEST OF FAIRNESS TO INDIVIDUAL INSUREDS

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | % Std Premium | Prem Paid | Class / Year | 0    | 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10     | TOTAL   | % Std Premium | Prem Paid |
|--------------|---|---|---|---|---|---|---|---|---|---|----|-------|---------------|-----------|--------------|------|-------|---|---|---|---|---|---|---|---|--------|---------|---------------|-----------|
| Claim?       | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |    |       |               | Claim?    | 0            | 0    | 0     | 0 | 0 | 0 | 1 | 1 | 1 |   |   |        |         |               |           |
| 0            |   |   |   |   |   |   |   |   |   |   |    | 0     | 100.00%       | 0.00      | 0            |      |       |   |   |   |   |   |   |   |   | 0      | 100.00% | 0.00          |           |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 0     | 70.00%        | 0.00      | 1            |      |       |   |   |   |   |   |   |   |   |        | 0       | 70.00%        | 0.00      |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 0     | 60.00%        | 0.00      | 2            |      |       |   |   |   |   |   |   |   |   |        | 0       | 60.00%        | 0.00      |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 0     | 50.00%        | 0.00      | 3            |      |       |   |   |   |   |   |   |   |   |        | 0       | 50.00%        | 0.00      |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 0     | 40.00%        | 0.00      | 4            |      |       |   |   |   |   |   |   |   |   |        | 0       | 40.00%        | 0.00      |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 0     | 35.00%        | 0.00      | 5            |      |       |   |   |   |   |   |   |   |   |        | 0       | 35.00%        | 0.00      |
| 6            | 1 |   |   |   |   |   |   |   |   |   |    | 0     | 35.00%        | 0.00      | 6            | 1    |       |   |   |   |   |   |   |   |   |        | 0       | 35.00%        | 0.00      |
| 7            |   | 1 |   |   |   |   |   |   |   |   |    | 1     | 35.00%        | 0.35      | 7            | 1    |       |   |   |   |   |   |   |   |   |        | 1       | 35.00%        | 0.35      |
| 8            |   |   | 1 |   |   |   |   |   |   |   |    | 1     | 35.00%        | 0.35      | 8            | 1    |       |   |   |   |   |   |   |   |   |        | 1       | 35.00%        | 0.35      |
| 9            |   |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 8     | 40.00%        | 3.20      | 9            | 1    | 1     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 40.00% | 3.20    |               |           |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |       |               |           | TOTAL        | 3.90 | TOTAL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1      | 10      | TOTAL         | 3.90      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL  | % Std Premium | Prem Paid | Class / Year | 0    | 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10      | TOTAL | % Std Premium | Prem Paid |
|--------------|---|---|---|---|---|---|---|---|---|---|----|--------|---------------|-----------|--------------|------|-------|---|---|---|---|---|---|---|---|---------|-------|---------------|-----------|
| Claim?       | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |    |        |               | Claim?    | 1            | 1    | 1     | 0 | 0 | 0 | 0 | 0 | 0 |   |   |         |       |               |           |
| 0            |   |   |   |   |   |   |   |   |   |   |    | 0      | 100.00%       | 0.00      | 0            |      |       |   |   |   |   |   |   |   | 1 | 100.00% | 1.00  |               |           |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 0      | 70.00%        | 0.00      | 1            |      |       |   |   |   |   |   |   |   | 2 | 70.00%  | 1.40  |               |           |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 0      | 60.00%        | 0.00      | 2            |      |       |   |   |   |   |   |   |   | 1 | 60.00%  | 0.60  |               |           |
| 3            | 1 |   |   |   |   |   | 1 |   |   |   | 1  | 3      | 50.00%        | 1.50      | 3            | 1    |       |   |   |   |   |   |   |   | 2 | 50.00%  | 1.00  |               |           |
| 4            |   | 1 |   |   |   |   | 1 |   |   |   | 1  | 2      | 40.00%        | 0.80      | 4            |      |       |   |   |   |   |   |   |   | 1 | 40.00%  | 0.40  |               |           |
| 5            |   |   | 1 |   |   |   | 1 |   |   |   | 1  | 2      | 35.00%        | 0.70      | 5            |      |       |   |   |   |   |   |   |   | 1 | 35.00%  | 0.35  |               |           |
| 6            | 1 |   |   |   | 1 |   |   |   |   |   | 1  | 2      | 35.00%        | 0.70      | 6            | 1    |       |   |   |   |   |   |   |   | 1 | 35.00%  | 0.35  |               |           |
| 7            |   |   |   |   |   | 1 |   |   |   |   | 1  | 1      | 35.00%        | 0.35      | 7            |      |       |   |   |   |   |   |   |   | 1 | 35.00%  | 0.35  |               |           |
| 8            |   |   |   |   |   |   |   |   |   |   | 0  | 35.00% | 0.00          | 8         |              |      |       |   |   |   |   |   |   |   | 0 | 35.00%  | 0.00  |               |           |
| 9            |   |   |   |   |   |   |   |   |   |   | 0  | 40.00% | 0.00          | 9         |              |      |       |   |   |   |   |   |   |   | 0 | 40.00%  | 0.00  |               |           |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |        |               |           | TOTAL        | 4.05 | TOTAL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1       | 10    | TOTAL         | 5.45      |

BONUS/MALUS SYSTEM MODEL - Swiss - New



## BONUS/MALUS SYSTEM MODEL - Swiss - New

Class / Year  
NEW ENTRANTS:

## Probability Claim 5.00%

## NUMBERS OF INSURED

Exposure

|       | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50 Scale |         |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|----------|---------|
|       | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0       | 100.00%  |         |
| 1     |        | 1      | 1      | 2      | 2      | 3      | 3      | 5      | 5      | 6       | 6       | 6       | 4       | 1       | 0       | 0        |         |
| 2     |        | 0      | 5      | 5      | 5      | 5      | 6      | 7      | 11     | 11      | 12      | 12      | 6       | 2       | 1       | 0        |         |
| 3     |        | 0      | 0      | 11     | 11     | 12     | 12     | 13     | 13     | 21      | 21      | 15      | 4       | 1       | 1       | 230.00%  |         |
| 4     |        | 0      | 0      | 0      | 21     | 21     | 22     | 22     | 23     | 36      | 36      | 23      | 6       | 2       | 1       | 215.00%  |         |
| 5     | 25     | 25     | 25     | 25     | 25     | 61     | 61     | 61     | 61     | 62      | 32      | 8       | 3       | 2       | 2       | 200.00%  |         |
| 6     | 0      | 71     | 71     | 71     | 71     | 125    | 125    | 126    | 126    | 126     | 43      | 11      | 5       | 4       | 4       | 185.00%  |         |
| 7     | 0      | 0      | 135    | 135    | 135    | 135    | 135    | 213    | 213    | 213     | 56      | 16      | 8       | 7       | 7       | 170.00%  |         |
| 8     | 0      | 0      | 0      | 214    | 214    | 214    | 214    | 214    | 319    | 319     | 156     | 38      | 16      | 12      | 12      | 155.00%  |         |
| 9     | 500    | 500    | 500    | 500    | 500    | 805    | 805    | 805    | 805    | 442     | 201     | 50      | 23      | 19      | 19      | 140.00%  |         |
| 10    | 0      | 950    | 950    | 950    | 950    | 1 356  | 1 356  | 1 356  | 1 356  | 256     | 72      | 42      | 37      | 37      | 37      | 130.00%  |         |
| 11    | 0      | 0      | 1 354  | 1 354  | 1 354  | 1 354  | 1 354  | 1 354  | 1 354  | 1 354   | 318     | 103     | 70      | 65      | 65      | 120.00%  |         |
| 12    | 0      | 0      | 0      | 1 715  | 1 715  | 1 715  | 1 715  | 1 715  | 2 343  | 2 343   | 382     | 140     | 106     | 100     | 100     | 110.00%  |         |
| 13    | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 12 036 | 12 036 | 12 036 | 12 036 | 2 783   | 2 783   | 1 072   | 282     | 164     | 145     | 145      | 100.00% |
| 14    | 9 500  | 9 500  | 9 500  | 9 500  | 9 500  | 11 821 | 11 821 | 11 821 | 11 821 | 3 188   | 1 359   | 516     | 399     | 380     | 380     | 380      | 90.00%  |
| 15    | 9 025  | 9 025  | 9 025  | 9 025  | 9 025  | 9 025  | 11 598 | 11 598 | 11 598 | 11 598  | 1 578   | 720     | 609     | 591     | 591     | 80.00%   |         |
| 16    |        | 8 574  | 8 574  | 8 574  | 8 574  | 11 367 | 11 367 | 11 367 | 11 367 | 1 734   | 896     | 795     | 780     | 780     | 780     | 75.00%   |         |
| 17    |        | 8 145  | 8 145  | 8 145  | 8 145  | 8 145  | 11 130 | 11 130 | 11 130 | 1 834   | 1 048   | 961     | 949     | 949     | 949     | 949      | 70.00%  |
| 18    |        |        | 7 738  | 7 738  | 7 738  | 7 738  | 7 738  | 10 889 | 11 188 | 7 328   | 5 175   | 4 897   | 4 855   | 4 855   | 4 855   | 65.00%   |         |
| 19    |        |        |        | 7 351  | 7 351  | 7 351  | 7 351  | 7 351  | 10 345 | 6 594   | 4 839   | 4 639   | 4 610   | 4 610   | 4 610   | 60.00%   |         |
| 20    |        |        |        |        | 6 983  | 6 983  | 6 983  | 6 983  | 6 983  | 5 907   | 4 531   | 4 396   | 4 377   | 4 377   | 4 377   | 55.00%   |         |
| 21    |        |        |        |        |        | 6 634  | 6 634  | 6 634  | 6 634  | 5 264   | 4 248   | 4 167   | 4 157   | 4 157   | 4 157   | 50.00%   |         |
| 22    |        |        |        |        |        | 6 302  | 12 290 | 17 978 | 65 839 | 77 295  | 78 695  | 78 695  | 78 695  | 78 695  | 78 695  | 45.00%   |         |
| TOTAL | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000  |         |

## Probability Claim 10.00%

|       | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50 Scale |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|----------|--------|
|       | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0       | 100.00%  |        |
| 1     |        | 10     | 11     | 15     | 23     | 39     | 65     | 70     | 78     | 91      | 129     | 89      | 60      | 46      | 46      | 270.00%  |        |
| 2     |        | 0      | 36     | 37     | 40     | 48     | 62     | 118    | 123    | 131     | 166     | 114     | 78      | 60      | 60      | 250.00%  |        |
| 3     |        | 0      | 0      | 81     | 82     | 85     | 92     | 105    | 200    | 204     | 251     | 170     | 113     | 85      | 85      | 230.00%  |        |
| 4     |        | 0      | 0      | 0      | 146    | 147    | 149    | 155    | 167    | 310     | 327     | 220     | 148     | 113     | 113     | 215.00%  |        |
| 5     | 100    | 100    | 100    | 100    | 100    | 330    | 330    | 333    | 338    | 349     | 414     | 273     | 187     | 146     | 146     | 200.00%  |        |
| 6     | 0      | 270    | 270    | 270    | 270    | 601    | 601    | 603    | 609    | 515     | 334     | 236     | 191     | 191     | 191     | 185.00%  |        |
| 7     | 0      | 0      | 486    | 486    | 486    | 486    | 486    | 932    | 933    | 935     | 630     | 404     | 297     | 249     | 249     | 170.00%  |        |
| 8     | 0      | 0      | 0      | 729    | 729    | 729    | 729    | 729    | 1 303  | 1 042   | 639     | 442     | 354     | 354     | 354     | 155.00%  |        |
| 9     | 1 000  | 1 000  | 1 000  | 1 000  | 1 000  | 1 984  | 1 984  | 1 984  | 1 984  | 1 984   | 1 694   | 1 252   | 756     | 540     | 446     | 140.00%  |        |
| 10    | 0      | 1 800  | 1 800  | 1 800  | 1 800  | 1 800  | 3 040  | 3 040  | 3 040  | 3 040   | 1 496   | 917     | 693     | 598     | 598     | 130.00%  |        |
| 11    | 0      | 0      | 2 430  | 2 430  | 2 430  | 2 430  | 2 430  | 3 918  | 3 918  | 3 918   | 1 742   | 1 101   | 878     | 788     | 788     | 120.00%  |        |
| 12    | 0      | 0      | 0      | 2 916  | 2 916  | 2 916  | 2 916  | 2 916  | 5 218  | 5 218   | 3 290   | 1 928   | 1 481   | 1 303   | 1 303   | 100.00%  |        |
| 13    | 10 000 | 10 000 | 10 000 | 10 000 | 13 281 | 13 281 | 13 281 | 13 281 | 13 281 | 5 218   | 5 218   | 3 290   | 1 928   | 1 481   | 1 303   | 1 303    | 90.00% |
| 14    | 9 000  | 9 000  | 9 000  | 9 000  | 9 000  | 12 543 | 12 543 | 12 543 | 12 543 | 5 674   | 3 866   | 2 551   | 2 159   | 2 010   | 2 010   | 2 010    | 80.00% |
| 15    |        | 8 100  | 8 100  | 8 100  | 8 100  | 11 820 | 11 820 | 11 820 | 11 820 | 4 208   | 2 992   | 2 670   | 2 555   | 2 555   | 2 555   | 70.00%   |        |
| 16    |        |        | 7 290  | 7 290  | 7 290  | 7 290  | 7 290  | 11 116 | 11 116 | 11 116  | 4 356   | 3 289   | 3 046   | 2 967   | 2 967   | 75.00%   |        |
| 17    |        |        |        | 6 561  | 6 561  | 6 561  | 6 561  | 6 561  | 10 435 | 10 435  | 10 435  | 4 346   | 3 473   | 3 312   | 3 267   | 3 267    | 70.00% |
| 18    |        |        |        |        | 5 905  | 5 905  | 5 905  | 5 905  | 5 905  | 9 779   | 10 128  | 9 713   | 8 799   | 8 588   | 8 521   | 8 521    | 65.00% |
| 19    |        |        |        |        | 5 314  | 5 314  | 5 314  | 5 314  | 5 314  | 8 801   | 8 336   | 7 719   | 7 641   | 7 630   | 7 630   | 60.00%   |        |
| 20    |        |        |        |        |        | 4 783  | 4 783  | 4 783  | 4 783  | 4 783   | 4 783   | 7 112   | 6 777   | 6 805   | 6 836   | 6 836    | 55.00% |
| 21    |        |        |        |        |        |        | 4 305  | 4 305  | 4 305  | 4 305   | 4 305   | 6 026   | 5 957   | 6 068   | 6 128   | 6 128    | 50.00% |
| 22    |        |        |        |        |        |        |        | 3 874  | 3 874  | 3 874   | 10 499  | 38 819  | 50 210  | 53 479  | 54 705  | 45.00%   |        |
| TOTAL | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000  |        |

## BONUS/MALUS SYSTEM MODEL - Swiss - New

**TOTAL**

| Weighted Average | Type 1 | 20.00% |        | Probability Claim |        |        | 5.00% Average |        | 10.00% |        |         |         |         |         |         |         |         |         |         |  |
|------------------|--------|--------|--------|-------------------|--------|--------|---------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
|                  | Type 2 | 75.00% |        |                   |        |        | 10.00%        |        |        |        |         |         |         |         |         |         |         |         |         |  |
|                  | Type 3 | 5.00%  |        |                   |        |        | 30.00%        |        |        |        |         |         |         |         |         |         |         |         |         |  |
| Class / Year     |        | 1      | 2      | 3                 | 4      | 5      | 6             | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50      | Scale   | 100.00% |  |
| 1                | 0      | 0      | 0      | 21                | 26     | 41     | 72            | 123    | 195    | 228    | 275     | 336     | 730     | 903     | 974     | 1 010   | 270.00% |         |         |  |
| 2                | 0      | 0      | 0      | 0                 | 66     | 69     | 81            | 104    | 141    | 260    | 284     | 318     | 621     | 744     | 793     | 819     | 250.00% |         |         |  |
| 3                | 0      | 0      | 0      | 0                 | 0      | 129    | 132           | 140    | 157    | 186    | 352     | 370     | 614     | 671     | 680     | 685     | 230.00% |         |         |  |
| 4                | 0      | 0      | 0      | 0                 | 0      | 0      | 206           | 208    | 215    | 228    | 250     | 465     | 607     | 607     | 589     | 582     | 215.00% |         |         |  |
| 5                | 0      | 0      | 125    | 125               | 125    | 125    | 418           | 419    | 424    | 434    | 452     | 624     | 565     | 525     | 507     | 200.00% |         |         |         |  |
| 6                | 0      | 0      | 0      | 311               | 311    | 311    | 311           | 697    | 698    | 702    | 710     | 665     | 546     | 487     | 461     | 180.00% |         |         |         |  |
| 7                | 0      | 0      | 0      | 0                 | 524    | 524    | 524           | 524    | 524    | 1 008  | 1 008   | 1 011   | 724     | 547     | 473     | 442     | 170.00% |         |         |  |
| 8                | 0      | 0      | 0      | 0                 | 0      | 744    | 744           | 744    | 744    | 744    | 1 329   | 1 330   | 1 080   | 722     | 556     | 482     | 452     | 155.00% |         |  |
| 9                | 0      | 1 000  | 1 000  | 1 000             | 1 000  | 1 000  | 1 961         | 1 961  | 1 961  | 1 961  | 1 650   | 1 222   | 775     | 591     | 512     | 440.00% |         |         |         |  |
| 10               | 0      | 0      | 1 750  | 1 750             | 1 750  | 1 750  | 1 750         | 2 920  | 2 920  | 2 920  | 2 920   | 2 920   | 1 394   | 871     | 677     | 597     | 130.00% |         |         |  |
| 11               | 0      | 0      | 0      | 2 314             | 2 314  | 2 314  | 2 314         | 3 681  | 3 681  | 3 681  | 3 681   | 3 681   | 1 568   | 989     | 796     | 718     | 120.00% |         |         |  |
| 12               | 0      | 0      | 0      | 0                 | 2 736  | 2 736  | 2 736         | 2 736  | 2 736  | 4 286  | 4 286   | 4 286   | 1 723   | 1 117   | 933     | 862     | 110.00% |         |         |  |
| 13               | 10 000 | 10 000 | 10 000 | 10 000            | 10 000 | 13 048 | 13 048        | 13 048 | 13 048 | 13 048 | 4 767   | 4 767   | 2 886   | 1 632   | 1 242   | 1 089   | 100.00% |         |         |  |
| 14               | 0      | 9 000  | 9 000  | 9 000             | 9 000  | 9 000  | 12 273        | 12 273 | 12 273 | 12 273 | 12 273  | 5 144   | 3 352   | 2 130   | 1 783   | 1 653   | 90.00%  |         |         |  |
| 15               | 0      | 0      | 8 125  | 8 125             | 8 125  | 8 125  | 8 125         | 11 553 | 11 553 | 11 553 | 11 553  | 11 553  | 3 622   | 2 483   | 2 194   | 2 091   | 180.00% |         |         |  |
| 16               | 0      | 0      | 0      | 7 354             | 7 354  | 7 354  | 7 354         | 10 881 | 10 881 | 10 881 | 10 881  | 10 881  | 3 735   | 2 724   | 2 500   | 2 427   | 75.00%  |         |         |  |
| 17               | 0      | 0      | 0      | 0                 | 6 670  | 6 670  | 6 670         | 6 670  | 6 670  | 10 250 | 10 250  | 10 250  | 3 721   | 2 877   | 2 722   | 2 676   | 70.00%  |         |         |  |
| 18               | 0      | 0      | 0      | 0                 | 0      | 6 060  | 6 060         | 6 060  | 6 060  | 6 060  | 9 657   | 9 982   | 8 878   | 7 715   | 7 475   | 7 402   | 65.00%  |         |         |  |
| 19               | 0      | 0      | 0      | 0                 | 0      | 0      | 5 515         | 5 515  | 5 515  | 5 515  | 5 515   | 8 771   | 7 659   | 6 814   | 6 696   | 6 673   | 60.00%  |         |         |  |
| 20               | 0      | 0      | 0      | 0                 | 0      | 0      | 0             | 5 025  | 5 025  | 5 025  | 5 025   | 5 025   | 6 576   | 6 029   | 6 010   | 6 022   | 55.00%  |         |         |  |
| 21               | 0      | 0      | 0      | 0                 | 0      | 0      | 0             | 0      | 4 584  | 4 584  | 4 584   | 4 584   | 5 613   | 5 345   | 5 403   | 5 442   | 50.00%  |         |         |  |
| 22               | 0      | 0      | 0      | 0                 | 0      | 0      | 0             | 0      | 0      | 4 186  | 8 013   | 11 514  | 42 387  | 53 195  | 55 900  | 56 847  | 45.00%  |         |         |  |
| TOTAL            |        | 10 000 | 20 000 | 30 000            | 40 000 | 50 000 | 60 000        | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | Av Prem |         |  |

**TOTAL**

## BONUS/MALUS SYSTEM MODUL - Swiss - New

| Class / Year | Probability Claim |        |        |        |        |        |        |        |        |        |        |        | UNITS OF STANDARD PREMIUM |        |        |        |  |  |  |  |  |  |  |  |
|--------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------|--------|--------|--------|--|--|--|--|--|--|--|--|
|              | 1                 | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20                        | 30     | 40     | 50     |  |  |  |  |  |  |  |  |
| 1            | 0                 | 0      | 0      | 3      | 4      | 4      | 6      | 9      | 14     | 13     | 15     | 17     | 11                        | 3      | 1      | 1      |  |  |  |  |  |  |  |  |
| 2            | 0                 | 0      | 0      | 0      | 12     | 12     | 13     | 14     | 17     | 28     | 28     | 29     | 15                        | 4      | 2      | 1      |  |  |  |  |  |  |  |  |
| 3            | 0                 | 0      | 0      | 0      | 0      | 26     | 26     | 27     | 28     | 30     | 49     | 49     | 34                        | 9      | 3      | 2      |  |  |  |  |  |  |  |  |
| 4            | 0                 | 0      | 0      | 0      | 0      | 46     | 46     | 47     | 48     | 50     | 78     | 48     | 12                        | 4      | 3      |        |  |  |  |  |  |  |  |  |
| 5            | 0                 | 0      | 50     | 50     | 50     | 50     | 50     | 121    | 121    | 122    | 123    | 125    | 63                        | 16     | 6      | 5      |  |  |  |  |  |  |  |  |
| 6            | 0                 | 0      | 0      | 132    | 132    | 132    | 132    | 132    | 232    | 232    | 232    | 233    | 79                        | 21     | 9      | 7      |  |  |  |  |  |  |  |  |
| 7            | 0                 | 0      | 0      | 0      | 230    | 230    | 230    | 230    | 230    | 361    | 361    | 362    | 95                        | 27     | 14     | 12     |  |  |  |  |  |  |  |  |
| 8            | 0                 | 0      | 0      | 0      | 0      | 332    | 332    | 332    | 332    | 495    | 495    | 495    | 242                       | 59     | 25     | 19     |  |  |  |  |  |  |  |  |
| 9            | 0                 | 700    | 700    | 700    | 700    | 1 128  | 1 128  | 1 128  | 1 128  | 619    | 281    | 70     | 33                        |        |        |        |  |  |  |  |  |  |  |  |
| 10           | 0                 | 0      | 1 235  | 1 235  | 1 235  | 1 235  | 1 235  | 1 763  | 1 763  | 1 763  | 1 763  | 1 763  | 333                       | 94     | 55     | 48     |  |  |  |  |  |  |  |  |
| 11           | 0                 | 0      | 0      | 1 625  | 1 625  | 1 625  | 1 625  | 1 625  | 2 242  | 2 242  | 2 242  | 2 242  | 382                       | 123    | 84     | 77     |  |  |  |  |  |  |  |  |
| 12           | 0                 | 0      | 0      | 0      | 1 886  | 1 886  | 1 886  | 1 886  | 2 578  | 2 578  | 2 578  | 2 578  | 420                       | 154    | 116    | 110    |  |  |  |  |  |  |  |  |
| 13           | 10 000            | 10 000 | 10 000 | 10 000 | 10 000 | 12 036 | 12 036 | 12 036 | 12 036 | 2 783  | 2 783  | 1 072  | 282                       | 164    | 145    |        |  |  |  |  |  |  |  |  |
| 14           | 0                 | 8 550  | 8 550  | 8 550  | 8 550  | 10 639 | 10 639 | 10 639 | 10 639 | 2 869  | 1 224  | 464    | 359                       | 342    |        |        |  |  |  |  |  |  |  |  |
| 15           | 0                 | 0      | 7 220  | 7 220  | 7 220  | 7 220  | 7 220  | 9 278  | 9 278  | 9 278  | 9 278  | 9 278  | 1 262                     | 576    | 487    | 473    |  |  |  |  |  |  |  |  |
| 16           | 0                 | 0      | 0      | 6 430  | 6 430  | 6 430  | 6 430  | 6 430  | 8 525  | 8 525  | 8 525  | 1 301  | 672                       | 596    | 585    |        |  |  |  |  |  |  |  |  |
| 17           | 0                 | 0      | 0      | 0      | 5 702  | 5 702  | 5 702  | 5 702  | 7 791  | 7 791  | 7 791  | 1 284  | 734                       | 673    | 664    |        |  |  |  |  |  |  |  |  |
| 18           | 0                 | 0      | 0      | 0      | 0      | 5 030  | 5 030  | 5 030  | 5 030  | 7 078  | 7 078  | 4 763  | 3 364                     | 3 183  | 3 156  |        |  |  |  |  |  |  |  |  |
| 19           | 0                 | 0      | 0      | 0      | 0      | 4 411  | 4 411  | 4 411  | 4 411  | 6 207  | 3 956  | 2 904  | 2 783                     | 2 766  |        |        |  |  |  |  |  |  |  |  |
| 20           | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 3 841  | 3 841  | 3 841  | 3 841  | 3 249  | 2 492                     | 2 418  | 2 408  |        |  |  |  |  |  |  |  |  |
| 21           | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 317  | 3 317  | 3 317  | 2 632  | 2 124                     | 2 083  | 2 078  |        |  |  |  |  |  |  |  |  |
| 22           | 0                 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 836  | 5 530  | 8 090  | 29 627 | 34 783                    | 35 413 | 35 508 |        |  |  |  |  |  |  |  |  |
|              | 10 000            | 19 250 | 27 755 | 35 945 | 43 775 | 51 200 | 58 175 | 64 679 | 70 818 | 76 582 | 72 257 | 68 562 | 52 375                    | 48 986 | 48 512 | 48 437 |  |  |  |  |  |  |  |  |
|              | 100.00%           | 96.25% | 92.52% | 89.86% | 87.55% | 85.33% | 83.11% | 80.85% | 78.69% | 76.58% | 72.26% | 68.56% | 52.37%                    | 48.99% | 48.51% | 48.44% |  |  |  |  |  |  |  |  |

| Class / Year   | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |       |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|                | 0       | 0      | 0      | 27     | 30     | 40     | 63     | 106    | 175    | 189    | 211    | 245    | 349    | 239    | 161    | 123    |       |
| 1              | 0       | 0      | 0      | 0      | 90     | 92     | 101    | 120    | 155    | 296    | 307    | 327    | 416    | 284    | 194    | 151    |       |
| 2              | 0       | 0      | 0      | 0      | 0      | 186    | 188    | 195    | 211    | 241    | 460    | 469    | 577    | 391    | 259    | 196    |       |
| 3              | 0       | 0      | 0      | 0      | 0      | 0      | 313    | 315    | 321    | 334    | 359    | 667    | 702    | 472    | 317    | 243    |       |
| 4              | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |       |
| 5              | 0       | 0      | 200    | 200    | 200    | 200    | 200    | 659    | 661    | 665    | 677    | 697    | 827    | 546    | 374    | 292    |       |
| 6              | 0       | 0      | 0      | 500    | 500    | 500    | 500    | 500    | 1 111  | 1 112  | 1 116  | 1 126  | 953    | 617    | 436    | 353    |       |
| 7              | 0       | 0      | 0      | 0      | 826    | 826    | 826    | 826    | 826    | 1 585  | 1 586  | 1 589  | 1 071  | 686    | 505    | 423    |       |
| 8              | 0       | 0      | 0      | 0      | 0      | 1 130  | 1 130  | 1 130  | 1 130  | 1 130  | 2 020  | 2 020  | 1 615  | 990    | 686    | 548    |       |
| 9              | 0       | 1 400  | 1 400  | 1 400  | 1 400  | 2 778  | 2 778  | 2 778  | 2 778  | 2 778  | 2 778  | 2 778  | 2 372  | 1 058  | 757    | 625    |       |
| 10             | 0       | 0      | 2 340  | 2 340  | 2 340  | 2 340  | 2 340  | 3 952  | 3 952  | 3 952  | 3 952  | 3 952  | 1 945  | 1 193  | 901    | 778    |       |
| 11             | 0       | 0      | 0      | 2 916  | 2 916  | 2 916  | 2 916  | 4 702  | 4 702  | 4 702  | 4 702  | 4 702  | 2 091  | 1 321  | 1 054  | 946    |       |
| 12             | 0       | 0      | 0      | 0      | 3 208  | 3 208  | 3 208  | 3 208  | 3 208  | 5 102  | 5 102  | 5 102  | 2 162  | 1 419  | 1 188  | 1 099  |       |
| 13             | 10 000  | 10 000 | 10 000 | 10 000 | 13 281 | 13 281 | 13 281 | 13 281 | 13 281 | 5 218  | 5 218  | 5 218  | 3 290  | 1 928  | 1 481  | 1 303  |       |
| 14             | 0       | 8 100  | 8 100  | 8 100  | 8 100  | 8 100  | 11 289 | 11 289 | 11 289 | 11 289 | 11 289 | 11 289 | 5 106  | 3 480  | 2 296  | 1 943  | 1 809 |
| 15             | 0       | 0      | 6 480  | 6 480  | 6 480  | 6 480  | 6 480  | 9 456  | 9 456  | 9 456  | 9 456  | 9 456  | 3 366  | 2 394  | 2 136  | 2 044  |       |
| 16             | 0       | 0      | 0      | 5 468  | 5 468  | 5 468  | 5 468  | 5 468  | 8 337  | 8 337  | 8 337  | 8 337  | 3 267  | 2 467  | 2 285  | 2 225  |       |
| 17             | 0       | 0      | 0      | 0      | 4 593  | 4 593  | 4 593  | 4 593  | 4 593  | 7 305  | 7 305  | 7 305  | 3 042  | 2 431  | 2 319  | 2 287  |       |
| 18             | 0       | 0      | 0      | 0      | 0      | 3 838  | 3 838  | 3 838  | 3 838  | 3 838  | 6 356  | 6 356  | 6 313  | 5 719  | 5 582  | 5 539  |       |
| 19             | 0       | 0      | 0      | 0      | 0      | 0      | 3 189  | 3 189  | 3 189  | 3 189  | 3 189  | 5 281  | 5 002  | 4 631  | 4 585  | 4 578  |       |
| 20             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 2 631  | 2 631  | 2 631  | 2 631  | 2 631  | 3 912  | 3 728  | 3 743  | 3 760  |       |
| 21             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 152  | 2 152  | 2 152  | 2 152  | 3 013  | 2 979  | 3 034  | 3 064  |       |
| 22             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 743  | 3 312  | 4 725  | 17 468 | 22 594 | 24 065 | 24 617 |       |
|                | 10 000  | 19 500 | 28 520 | 37 430 | 46 149 | 54 596 | 62 698 | 70 447 | 77 994 | 85 306 | 82 513 | 80 061 | 66 613 | 60 383 | 58 003 | 57 004 |       |
| Frequency = 10 | 100.00% | 97.50% | 95.07% | 93.58% | 92.30% | 90.99% | 89.57% | 88.06% | 86.66% | 85.31% | 82.51% | 80.06% | 66.61% | 60.38% | 58.00% | 57.00% |       |
| Frequency = 5% | 100.00% | 96.25% | 92.52% | 89.86% | 87.55% | 85.33% | 83.11% | 80.85% | 78.69% | 76.58% | 72.26% | 68.56% | 52.37% | 48.99% | 48.51% | 48.44% |       |

## BONUS/MALUS SYSTEM MODEL - Swiss - New

| Class / Year | Probability Claim 30.00% |        |        |        |        |        |        |        |         |         |         |         | UNITS OF STANDARD PREMIUM |         |         |         |       |       |  |  |  |  |
|--------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------------------------|---------|---------|---------|-------|-------|--|--|--|--|
|              | 1                        | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9       | 10      | 11      | 12      | 20                        | 30      | 40      | 50      |       |       |  |  |  |  |
| 1            | 0                        | 0      | 0      | 729    | 948    | 1 626  | 2 947  | 5 018  | 7 876   | 9 449   | 11 627  | 14 424  | 34 137                    | 45 177  | 50 181  | 52 694  |       |       |  |  |  |  |
| 2            | 0                        | 0      | 0      | 0      | 1 890  | 2 032  | 2 471  | 3 327  | 4 670   | 8 429   | 9 458   | 10 902  | 24 760                    | 32 909  | 36 749  | 38 701  |       |       |  |  |  |  |
| 3            | 0                        | 0      | 0      | 0      | 0      | 3 043  | 3 134  | 3 417  | 3 969   | 4 833   | 9 095   | 9 764   | 19 440                    | 24 971  | 27 389  | 28 591  |       |       |  |  |  |  |
| 4            | 0                        | 0      | 0      | 0      | 0      | 0      | 3 982  | 4 042  | 4 227   | 4 588   | 5 154   | 9 663   | 15 351                    | 18 965  | 20 567  | 21 367  |       |       |  |  |  |  |
| 5            | 0                        | 0      | 1 800  | 1 800  | 1 800  | 1 800  | 6 338  | 6 377  | 6 497   | 6 732   | 7 101   | 12 309  | 14 357                    | 15 365  | 15 886  |         |       |       |  |  |  |  |
| 6            | 0                        | 0      | 0      | 3 497  | 3 497  | 3 497  | 3 497  | 3 497  | 3 497   | 8 223   | 8 301   | 8 453   | 10 007                    | 10 849  | 11 424  | 11 748  |       |       |  |  |  |  |
| 7            | 0                        | 0      | 0      | 0      | 4 498  | 4 498  | 4 498  | 4 498  | 4 498   | 9 034   | 9 050   | 9 101   | 8 175                     | 8 182   | 8 452   | 8 638   |       |       |  |  |  |  |
| 8            | 0                        | 0      | 0      | 0      | 0      | 4 785  | 4 785  | 4 785  | 4 785   | 8 921   | 8 931   | 8 292   | 7 277                     | 6 853   | 6 649   |         |       |       |  |  |  |  |
| 9            | 0                        | 4 200  | 4 200  | 4 200  | 4 200  | 4 200  | 8 738  | 8 738  | 8 738   | 8 738   | 8 738   | 8 738   | 8 133                     | 6 814   | 5 554   | 5 076   | 4 854 |       |  |  |  |  |
| 10           | 0                        | 0      | 5 460  | 5 460  | 5 460  | 5 460  | 5 460  | 5 460  | 5 460   | 9 589   | 9 589   | 9 589   | 9 589                     | 5 746   | 4 388   | 3 888   | 3 659 |       |  |  |  |  |
| 11           | 0                        | 0      | 0      | 5 292  | 5 292  | 5 292  | 5 292  | 5 292  | 8 850   | 8 850   | 8 850   | 8 850   | 4 734                     | 3 442   | 2 964   | 2 744   |       |       |  |  |  |  |
| 12           | 0                        | 0      | 0      | 0      | 4 528  | 4 528  | 4 528  | 4 528  | 4 528   | 7 463   | 7 463   | 7 463   | 7 463                     | 3 780   | 2 669   | 2 242   | 2 042 |       |  |  |  |  |
| 13           | 10 000                   | 10 000 | 10 000 | 10 000 | 10 000 | 13 602 | 13 602 | 13 602 | 13 602  | 13 602  | 13 602  | 13 602  | 5 936                     | 5 936   | 4 086   | 2 597   | 1 967 | 1 656 |  |  |  |  |
| 14           | 0                        | 6 300  | 6 300  | 6 300  | 6 300  | 6 300  | 9 023  | 9 023  | 9 023   | 9 023   | 9 023   | 9 023   | 4 520                     | 3 241   | 2 043   | 1 513   | 1 247 |       |  |  |  |  |
| 15           | 0                        | 0      | 3 920  | 3 920  | 3 920  | 3 920  | 3 920  | 3 920  | 3 920   | 5 897   | 5 897   | 5 897   | 5 897                     | 2 412   | 1 524   | 1 113   | 904   |       |  |  |  |  |
| 16           | 0                        | 0      | 0      | 2 573  | 2 573  | 2 573  | 2 573  | 2 573  | 4 053   | 4 053   | 4 053   | 4 053   | 1 823                     | 1 168   | 846     | 679     |       |       |  |  |  |  |
| 17           | 0                        | 0      | 0      | 0      | 1 681  | 1 681  | 1 681  | 1 681  | 1 681   | 2 770   | 2 770   | 2 770   | 2 770                     | 875     | 633     | 503     |       |       |  |  |  |  |
| 18           | 0                        | 0      | 0      | 0      | 0      | 1 092  | 1 092  | 1 092  | 1 092   | 1 092   | 1 092   | 1 092   | 1 879                     | 1 934   | 1 663   | 1 053   | 704   | 516   |  |  |  |  |
| 19           | 0                        | 0      | 0      | 0      | 0      | 0      | 706    | 706    | 706     | 706     | 706     | 706     | 706                       | 2 124   | 1 057   | 678     | 455   | 334   |  |  |  |  |
| 20           | 0                        | 0      | 0      | 0      | 0      | 0      | 0      | 453    | 453     | 453     | 453     | 453     | 453                       | 662     | 434     | 293     | 215   |       |  |  |  |  |
| 21           | 0                        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 288     | 288     | 288     | 288                       | 408     | 277     | 188     | 138   |       |  |  |  |  |
| 22           | 0                        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 182     | 309     | 398     | 945                       | 704     | 469     | 330     |       |       |  |  |  |  |
|              | 10 000                   | 20 500 | 31 680 | 43 770 | 56 585 | 69 927 | 83 727 | 98 094 | 113 100 | 128 544 | 134 294 | 139 840 | 171 171                   | 190 094 | 199 332 | 204 094 |       |       |  |  |  |  |

Frequency = 30 100.00% 102.50% 105.60% 109.43% 113.17% 116.54% 119.61% 122.62% 125.67% 128.54% 134.29% 139.84% 171.17% 190.09% 199.33% 204.09%  
 Frequency = 10 100.00% 97.50% 95.07% 93.58% 92.30% 90.99% 89.57% 88.06% 86.66% 85.31% 82.51% 80.06% 66.61% 60.38% 58.00% 57.00%  
 Frequency = 5% 100.00% 96.25% 92.52% 89.86% 87.55% 85.33% 83.11% 80.85% 78.69% 76.58% 72.26% 68.56% 52.37% 48.99% 48.51% 48.44%

| Class / Year | UNITS OF STANDARD PREMIUM |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|--------------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
|              | 1                         | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |        |        |  |  |  |  |
| 1            | 0                         | 0      | 0      | 57     | 70     | 112    | 196    | 332    | 528    | 617    | 743    | 908    | 1 971  | 2 439  | 2 630  | 2 727  |        |        |  |  |  |  |
| 2            | 0                         | 0      | 0      | 0      | 164    | 173    | 202    | 259    | 353    | 649    | 709    | 796    | 1 553  | 1 859  | 1 983  | 2 048  |        |        |  |  |  |  |
| 3            | 0                         | 0      | 0      | 0      | 0      | 297    | 303    | 322    | 362    | 428    | 809    | 850    | 1 412  | 1 543  | 1 564  | 1 577  |        |        |  |  |  |  |
| 4            | 0                         | 0      | 0      | 0      | 0      | 0      | 443    | 448    | 461    | 490    | 537    | 999    | 1 304  | 1 305  | 1 267  | 1 251  |        |        |  |  |  |  |
| 5            | 0                         | 0      | 250    | 250    | 250    | 250    | 250    | 836    | 839    | 848    | 869    | 903    | 1 249  | 1 231  | 1 010  | 900    | 853    |        |  |  |  |  |
| 6            | 0                         | 0      | 0      | 576    | 576    | 576    | 576    | 576    | 1 290  | 1 292  | 1 299  | 1 314  | 1 719  | 1 719  | 1 231  | 929    | 804    | 752    |  |  |  |  |
| 7            | 0                         | 0      | 0      | 0      | 891    | 891    | 891    | 891    | 891    | 1 713  | 1 714  | 1 714  | 1 714  | 1 231  | 1 231  | 1 010  |        |        |  |  |  |  |
| 8            | 0                         | 0      | 0      | 0      | 0      | 1 153  | 1 153  | 1 153  | 1 153  | 1 153  | 2 060  | 2 061  | 1 674  | 1 118  | 862    | 748    |        |        |  |  |  |  |
| 9            | 0                         | 1 400  | 1 400  | 1 400  | 1 400  | 1 400  | 2 746  | 2 746  | 2 746  | 2 746  | 2 746  | 2 746  | 2 310  | 1 711  | 1 085  | 828    | 716    |        |  |  |  |  |
| 10           | 0                         | 0      | 2 275  | 2 275  | 2 275  | 2 275  | 2 275  | 3 796  | 3 796  | 3 796  | 3 796  | 3 796  | 3 796  | 1 813  | 1 133  | 881    | 776    |        |  |  |  |  |
| 11           | 0                         | 0      | 0      | 2 777  | 2 777  | 2 777  | 2 777  | 2 777  | 4 417  | 4 417  | 4 417  | 4 417  | 4 417  | 1 881  | 1 187  | 955    | 862    |        |  |  |  |  |
| 12           | 0                         | 0      | 0      | 0      | 3 009  | 3 009  | 3 009  | 3 009  | 3 009  | 4 715  | 4 715  | 4 715  | 4 715  | 1 895  | 1 228  | 1 026  | 949    |        |  |  |  |  |
| 13           | 10 000                    | 10 000 | 10 000 | 10 000 | 10 000 | 13 048 | 13 048 | 13 048 | 13 048 | 4 767  | 4 767  | 2 886  | 1 632  | 1 242  | 1 089  |        |        |        |  |  |  |  |
| 14           | 0                         | 8 100  | 8 100  | 8 100  | 8 100  | 8 100  | 11 045 | 11 045 | 11 045 | 11 045 | 11 045 | 11 045 | 4 630  | 3 016  | 1 917  | 1 605  | 1 488  |        |  |  |  |  |
| 15           | 0                         | 0      | 6 500  | 6 500  | 6 500  | 6 500  | 6 500  | 9 243  | 9 243  | 9 243  | 9 243  | 9 243  | 9 243  | 2 898  | 1 987  | 1 755  | 1 673  |        |  |  |  |  |
| 16           | 0                         | 0      | 0      | 5 515  | 5 515  | 5 515  | 5 515  | 5 515  | 8 161  | 8 161  | 8 161  | 8 161  | 8 161  | 2 801  | 2 043  | 1 875  | 1 820  |        |  |  |  |  |
| 17           | 0                         | 0      | 0      | 0      | 4 669  | 4 669  | 4 669  | 4 669  | 4 669  | 7 175  | 7 175  | 7 175  | 7 175  | 2 605  | 2 014  | 1 905  | 1 873  |        |  |  |  |  |
| 18           | 0                         | 0      | 0      | 0      | 0      | 3 939  | 3 939  | 3 939  | 3 939  | 3 939  | 3 939  | 6 277  | 6 489  | 5 771  | 5 015  | 4 859  | 4 811  |        |  |  |  |  |
| 19           | 0                         | 0      | 0      | 0      | 0      | 0      | 3 309  | 3 309  | 3 309  | 3 309  | 3 309  | 5 263  | 4 595  | 4 088  | 4 018  | 4 004  |        |        |  |  |  |  |
| 20           | 0                         | 0      | 0      | 0      | 0      | 0      | 0      | 2 764  | 2 764  | 2 764  | 2 764  | 2 764  | 3 617  | 3 305  | 3 305  | 3 305  | 3 305  |        |  |  |  |  |
| 21           | 0                         | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 292  | 2 292  | 2 292  | 2 292  | 2 292  | 2 806  | 2 673  | 2 702  | 2 721  |        |  |  |  |  |
| 22           | 0                         | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 606  | 5 181  | 19 074 | 23 938 | 25 155 | 25 581 |  |  |  |  |
|              | 326%                      | 10 000 | 19 500 | 28 525 | 37 450 | 46 196 | 54 684 | 62 845 | 70 676 | 78 314 | 85 723 | 83 051 | 80 750 | 68 993 | 64 589 | 63 171 | 62 645 |        |  |  |  |  |

## BONUS/MALUS SYSTEM MODEL - Swiss - New

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL |
|--------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Claim?       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |       |

|    |   |   |   |   |   |   |   |   |   |   |   |  |
|----|---|---|---|---|---|---|---|---|---|---|---|--|
| 1  |   |   |   |   |   |   |   |   |   |   |   |  |
| 2  |   |   |   |   |   |   |   |   |   |   |   |  |
| 3  |   |   |   |   |   |   |   |   |   |   |   |  |
| 4  |   |   |   |   |   |   |   |   |   |   |   |  |
| 5  |   |   |   |   |   |   |   |   |   |   |   |  |
| 6  |   |   |   |   |   |   |   |   |   |   |   |  |
| 7  |   |   |   |   |   |   |   |   |   |   |   |  |
| 8  |   |   |   |   |   |   |   |   |   |   |   |  |
| 9  |   |   |   |   |   |   |   |   |   |   |   |  |
| 10 |   |   |   |   |   |   |   |   |   |   |   |  |
| 11 |   |   |   |   |   |   |   |   |   |   |   |  |
| 12 | 1 |   |   |   |   |   |   |   |   |   |   |  |
| 13 |   | 1 |   |   |   |   |   |   |   |   |   |  |
| 14 |   |   | 1 |   |   |   |   |   |   |   |   |  |
| 15 |   |   |   | 1 |   |   |   |   |   |   |   |  |
| 16 |   |   |   |   | 1 |   |   |   |   |   |   |  |
| 17 |   |   |   |   |   | 1 |   |   |   |   |   |  |
| 18 |   |   |   |   |   |   | 1 |   |   |   |   |  |
| 19 |   |   |   |   |   |   |   | 1 |   |   |   |  |
| 20 |   |   |   |   |   |   |   |   | 1 |   |   |  |
| 21 |   |   |   |   |   |   |   |   |   | 1 |   |  |
| 22 |   |   |   |   |   |   |   |   |   |   | 1 |  |

TOTAL      1    1    1    1    1    1    1    1    1    1    1    10    TOTAL    6.90

## CALCULATION OF IMPLICIT EXCESS OR DEDUCTIBLE

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL |
|--------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Claim?       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |       |

|    |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  |   |   |   |   |   |   |   |   |   |   |   |   |
| 2  | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 3  |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 4  |   |   | 1 |   |   |   |   |   |   |   |   |   |
| 5  |   |   |   | 1 |   |   |   |   |   |   |   |   |
| 6  |   |   |   |   | 1 |   |   |   |   |   |   |   |
| 7  |   |   |   |   |   | 1 |   |   |   |   |   |   |
| 8  |   |   |   |   |   |   | 1 |   |   |   |   |   |
| 9  |   |   |   |   |   |   |   | 1 |   |   |   |   |
| 10 |   |   |   |   |   |   |   |   | 1 |   |   |   |
| 11 |   |   |   |   |   |   |   |   |   | 1 |   |   |
| 12 |   |   |   |   |   |   |   |   |   |   | 1 |   |
| 13 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 14 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 15 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 16 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 17 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 18 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 19 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 20 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 21 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 22 |   |   |   |   |   |   |   |   |   |   |   | 1 |

TOTAL      1    1    1    1    1    1    1    1    1    1    1    10    TOTAL    12.80

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL |
|--------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Claim?       | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |       |

|    |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  |   |   |   |   |   |   |   |   |   |   |   |   |
| 2  |   |   |   |   |   |   |   |   |   |   |   |   |
| 3  |   |   |   |   |   |   |   |   |   |   |   |   |
| 4  |   |   |   |   |   |   |   |   |   |   |   |   |
| 5  |   |   |   |   |   |   |   |   |   |   |   |   |
| 6  |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  |   |   |   |   |   |   |   |   |   |   |   |   |
| 8  |   |   |   |   |   |   |   |   |   |   |   |   |
| 9  | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 10 |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 11 |   |   | 1 |   |   |   |   |   |   |   |   |   |
| 12 | 1 |   |   | 1 |   |   |   |   |   |   |   |   |
| 13 |   |   |   |   | 1 |   |   |   |   |   |   |   |
| 14 |   |   |   |   |   | 1 |   |   |   |   |   |   |
| 15 |   |   |   |   |   |   | 1 |   |   |   |   |   |
| 16 |   |   |   |   |   |   |   | 1 |   |   |   |   |
| 17 |   |   |   |   |   |   |   |   | 1 |   |   |   |
| 18 |   |   |   |   |   |   |   |   |   | 1 |   |   |
| 19 |   |   |   |   |   |   |   |   |   |   | 1 |   |
| 20 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 21 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 22 |   |   |   |   |   |   |   |   |   |   |   | 1 |

TOTAL      1    1    1    1    1    1    1    1    1    1    1    10    TOTAL    10.70

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL |
|--------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Claim?       | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |       |

|    |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  |   |   |   |   |   |   |   |   |   |   |   |   |
| 2  | 1 |   |   |   |   |   |   |   |   |   |   |   |
| 3  |   | 1 |   |   |   |   |   |   |   |   |   |   |
| 4  |   |   | 1 |   |   |   |   |   |   |   |   |   |
| 5  |   |   |   | 1 |   |   |   |   |   |   |   |   |
| 6  |   |   |   |   | 1 |   |   |   |   |   |   |   |
| 7  |   |   |   |   |   | 1 |   |   |   |   |   |   |
| 8  |   |   |   |   |   |   | 1 |   |   |   |   |   |
| 9  |   |   |   |   |   |   |   | 1 |   |   |   |   |
| 10 |   |   |   |   |   |   |   |   | 1 |   |   |   |
| 11 |   |   |   |   |   |   |   |   |   | 1 |   |   |
| 12 |   |   |   |   |   |   |   |   |   |   | 1 |   |
| 13 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 14 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 15 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 16 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 17 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 18 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 19 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 20 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 21 |   |   |   |   |   |   |   |   |   |   |   | 1 |
| 22 |   |   |   |   |   |   |   |   |   |   |   | 1 |

TOTAL      1    1    1    1    1    1    1    1    1    1    1    10    TOTAL    19.45

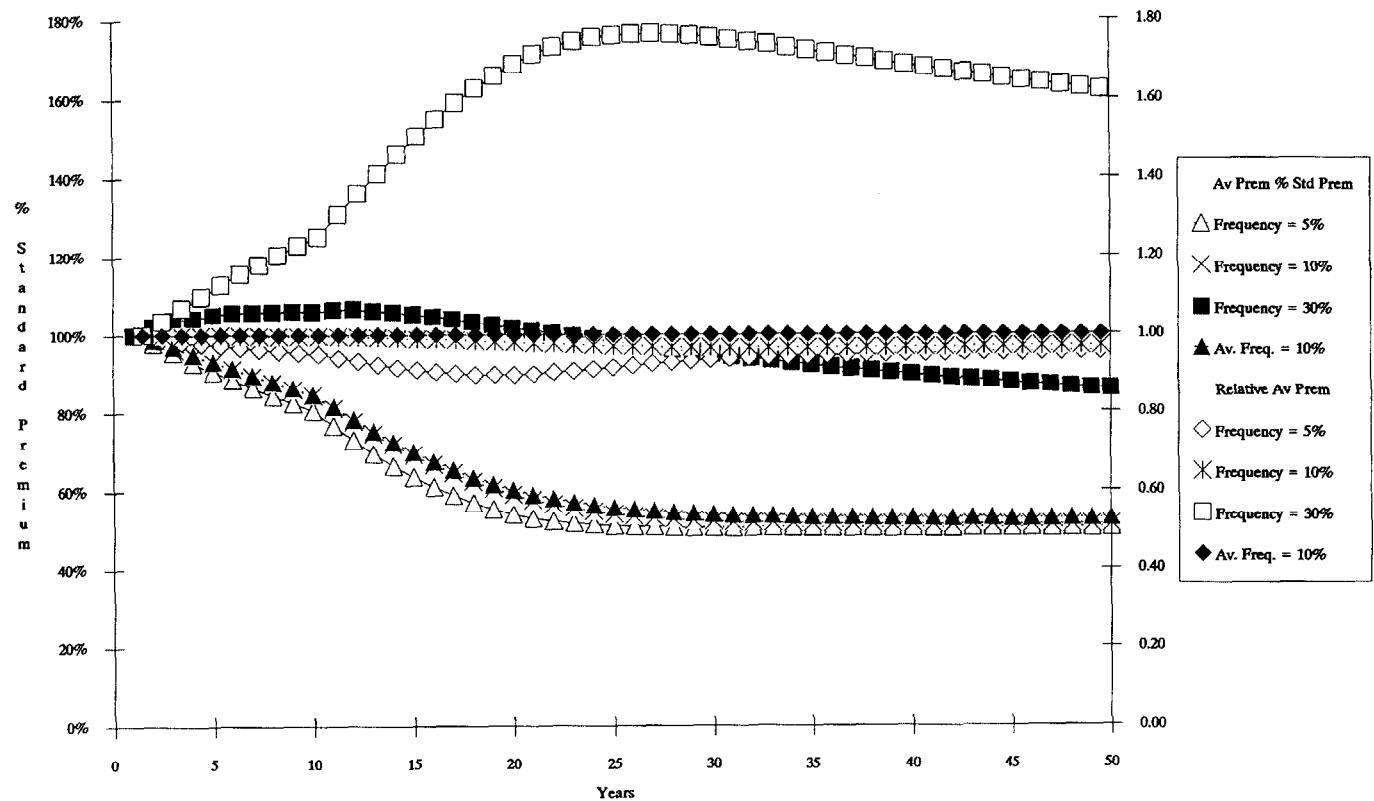
## BONUS/MALUS SYSTEM MODEL - Swiss - New

| Class / Year |      |         |        |    |   |   |   |   |   |   | TEST OF FAIRNESS TO INDIVIDUAL INSURED |       |       |        |              |   |   |   |   |   |   |   |          |         |      |
|--------------|------|---------|--------|----|---|---|---|---|---|---|--|-------|-------|--------|--------------|---|---|---|---|---|---|---|----------|---------|------|
| Claim?       | 0    | 1       | 2      | 3  | 4 | 5 | 6 | 7 | 8 | 9 | 10                                     | TOTAL | % Std | Prem   | Class / Year |   |   |   |   |   |   |   |          |         |      |
|              | Prem | Paid    | Claim? | 1  | 1 | 1 | 0 | 0 | 0 | 0 | 0                                      | Prem  | Paid  | Claim? | 1            | 1 | 1 | 0 | 0 | 0 | 0 | 0 | Prem     | Paid    |      |
| 1            | 0    | 270.00% | 0.00   | 1  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 1        | 270.00% | 2.70 |
| 2            | 0    | 250.00% | 0.00   | 2  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 1        | 250.00% | 2.50 |
| 3            | 0    | 230.00% | 0.00   | 3  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 1        | 230.00% | 2.30 |
| 4            | 0    | 215.00% | 0.00   | 4  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 2        | 215.00% | 4.30 |
| 5            | 0    | 200.00% | 0.00   | 5  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 1        | 200.00% | 2.00 |
| 6            | 1    | 185.00% | 1.85   | 6  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 1        | 185.00% | 1.85 |
| 7            | 1    | 170.00% | 1.70   | 7  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 1        | 170.00% | 1.70 |
| 8            | 1    | 155.00% | 1.55   | 8  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 2        | 155.00% | 3.10 |
| 9            | 1    | 140.00% | 1.40   | 9  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 140.00% | 0.00 |
| 10           | 1    | 130.00% | 2.60   | 10 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 130.00% | 0.00 |
| 11           | 1    | 120.00% | 1.20   | 11 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 120.00% | 0.00 |
| 12           | 1    | 110.00% | 1.10   | 12 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 110.00% | 0.00 |
| 13           | 1    | 100.00% | 1.00   | 13 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 100.00% | 0.00 |
| 14           | 1    | 90.00%  | 0.90   | 14 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 90.00%  | 0.00 |
| 15           | 0    | 80.00%  | 0.00   | 15 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 80.00%  | 0.00 |
| 16           | 0    | 75.00%  | 0.00   | 16 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 75.00%  | 0.00 |
| 17           | 0    | 70.00%  | 0.00   | 17 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 70.00%  | 0.00 |
| 18           | 0    | 65.00%  | 0.00   | 18 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 65.00%  | 0.00 |
| 19           | 0    | 60.00%  | 0.00   | 19 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 60.00%  | 0.00 |
| 20           | 0    | 55.00%  | 0.00   | 20 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 55.00%  | 0.00 |
| 21           | 0    | 50.00%  | 0.00   | 21 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 50.00%  | 0.00 |
| 22           | 0    | 45.00%  | 0.00   | 22 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   |   | 0        | 45.00%  | 0.00 |
| TOTAL        | 1    | 1       | 1      | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1                                      | TOTAL | 13.30 | TOTAL  | 1            | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 TOTAL | 20.45   |      |

365

| Class / Year |      |         |        |    |   |   |   |   |   |   | TEST OF FAIRNESS TO INDIVIDUAL INSURED |       |       |        |              |   |   |   |   |   |   |   |          |      |  |
|--------------|------|---------|--------|----|---|---|---|---|---|---|--|-------|-------|--------|--------------|---|---|---|---|---|---|---|----------|------|--|
| Claim?       | 0    | 1       | 2      | 3  | 4 | 5 | 6 | 7 | 8 | 9 | 10                                     | TOTAL | % Std | Prem   | Class / Year |   |   |   |   |   |   |   |          |      |  |
|              | Prem | Paid    | Claim? | 1  | 1 | 1 | 0 | 0 | 0 | 0 | 0                                      | Prem  | Paid  | Claim? | 1            | 1 | 1 | 0 | 0 | 0 | 0 | 0 | Prem     | Paid |  |
| 1            | 0    | 270.00% | 0.00   | 1  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 270.00%  | 0.00 |  |
| 2            | 0    | 250.00% | 0.00   | 2  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 250.00%  | 0.00 |  |
| 3            | 0    | 230.00% | 0.00   | 3  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 230.00%  | 0.00 |  |
| 4            | 0    | 215.00% | 0.00   | 4  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 215.00%  | 0.00 |  |
| 5            | 1    | 185.00% | 2.00   | 5  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 200.00%  | 0.00 |  |
| 6            | 1    | 170.00% | 3.70   | 6  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 1 | 185.00%  | 1.85 |  |
| 7            | 1    | 155.00% | 3.40   | 7  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 170.00%  | 0.00 |  |
| 8            | 1    | 140.00% | 3.10   | 8  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 155.00%  | 0.00 |  |
| 9            | 1    | 130.00% | 2.80   | 9  |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 140.00%  | 0.00 |  |
| 10           | 1    | 120.00% | 1.30   | 10 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 1 | 130.00%  | 1.30 |  |
| 11           | 1    | 110.00% | 0.00   | 11 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 120.00%  | 0.00 |  |
| 12           | 0    | 100.00% | 0.00   | 12 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 1 | 110.00%  | 1.10 |  |
| 13           | 0    | 90.00%  | 0.00   | 13 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 1 | 100.00%  | 1.00 |  |
| 14           | 0    | 80.00%  | 0.00   | 14 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 2 | 90.00%   | 1.80 |  |
| 15           | 0    | 75.00%  | 0.00   | 15 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 1 | 80.00%   | 0.80 |  |
| 16           | 0    | 70.00%  | 0.00   | 16 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 1 | 75.00%   | 0.75 |  |
| 17           | 0    | 65.00%  | 0.00   | 17 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 1 | 70.00%   | 0.70 |  |
| 18           | 0    | 60.00%  | 0.00   | 18 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 1 | 65.00%   | 0.65 |  |
| 19           | 0    | 55.00%  | 0.00   | 19 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 60.00%   | 0.00 |  |
| 20           | 0    | 50.00%  | 0.00   | 20 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 55.00%   | 0.00 |  |
| 21           | 0    | 45.00%  | 0.00   | 21 |   |   |   |   |   |   |  | 1     |       |        | 1            |   |   |   |   |   |   | 0 | 50.00%   | 0.00 |  |
| TOTAL        | 1    | 1       | 1      | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1                                      | TOTAL | 16.30 | TOTAL  | 1            | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 TOTAL | 9.95 |  |

### BONUS/MALUS SYSTEM MODEL - Italian - New



## BONUS/MALUS SYSTEM MODEL - Italian - New

Probability Claim 5.00%

NUMBERS OF INSUREDS

Premium

| Class / Year<br>NEW ENTRANTS: | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     | Scale   |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|                               | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 0      | 0      | 0      | 0      | 0      | 0      | 100.00% |
| 1                             |        |        | 1      | 5      | 5      | 6      | 7      | 7      | 7      | 7      | 0      | 0      | 0      | 0      | 0      | 0      | 200.00% |
| 2                             |        | 25     | 25     | 26     | 36     | 37     | 37     | 40     | 40     | 40     | 1      | 0      | 0      | 0      | 0      | 0      | 175.00% |
| 3                             |        | 0      | 71     | 71     | 72     | 93     | 93     | 94     | 99     | 99     | 2      | 0      | 0      | 0      | 0      | 0      | 150.00% |
| 4                             | 500    | 500    | 500    | 635    | 635    | 636    | 671    | 671    | 672    | 681    | 181    | 12     | 0      | 0      | 0      | 0      | 130.00% |
| 5                             | 0      | 950    | 950    | 950    | 1 164  | 1 165  | 1 219  | 1 219  | 1 233  | 1 233  | 19     | 0      | 0      | 0      | 0      | 0      | 115.00% |
| 6                             | 10 000 | 10 000 | 10 000 | 11 354 | 11 354 | 11 354 | 11 659 | 11 659 | 11 660 | 11 736 | 1 737  | 1 737  | 28     | 1      | 0      | 0      | 100.00% |
| 7                             | 9 500  | 9 500  | 9 500  | 11 215 | 11 215 | 11 215 | 11 621 | 11 621 | 11 622 | 11 726 | 2 226  | 142    | 1      | 0      | 0      | 0      | 94.00%  |
| 8                             |        | 9 025  | 9 025  | 11 061 | 11 061 | 11 061 | 11 576 | 11 576 | 11 577 | 11 713 | 185    | 4      | 0      | 0      | 0      | 0      | 88.00%  |
| 9                             |        | 8 574  | 8 574  | 10 895 | 10 895 | 10 895 | 11 524 | 11 524 | 11 524 | 11 524 | 236    | 5      | 0      | 0      | 0      | 0      | 82.00%  |
| 10                            |        | 8 145  | 8 145  | 8 145  | 10 718 | 10 718 | 10 718 | 11 464 | 11 464 | 1 040  | 8      | 1      | 1      | 1      | 1      | 1      | 78.00%  |
| 11                            |        |        | 7 738  | 7 738  | 7 738  | 10 531 | 10 531 | 10 531 | 10 531 | 10 531 | 1 203  | 33     | 3      | 3      | 3      | 3      | 74.00%  |
| 12                            |        |        |        | 7 351  | 7 351  | 7 351  | 10 336 | 10 336 | 10 336 | 1 392  | 54     | 18     | 17     | 17     | 17     | 70.00% |         |
| 13                            |        |        |        |        | 6 983  | 6 983  | 10 135 | 10 135 | 10 135 | 4 736  | 84     | 43     | 42     | 42     | 42     | 66.00% |         |
| 14                            |        |        |        |        |        | 6 634  | 6 634  | 6 634  | 6 634  | 9 927  | 5 015  | 454    | 289    | 288    | 288    | 62.00% |         |
| 15                            |        |        |        |        |        |        | 6 302  | 6 302  | 6 302  | 5 317  | 674    | 513    | 509    | 509    | 509    | 59.00% |         |
| 16                            |        |        |        |        |        |        |        | 5 987  | 5 987  | 13 347 | 5 036  | 4 960  | 4 957  | 4 957  | 4 957  | 56.00% |         |
| 17                            |        |        |        |        |        |        |        |        | 5 688  | 11 837 | 5 156  | 4 711  | 4 709  | 4 709  | 4 709  | 53.00% |         |
| 18                            |        |        |        |        |        |        |        |        |        | 55 488 | 88 491 | 89 462 | 89 473 | 89 473 | 89 473 | 89 473 | 50.00%  |

| Class / Year<br>NEW ENTRANTS: | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     | Scale   |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|                               | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 0      | 0      | 0      | 0      | 0      | 0      | 100.00% |
| 1                             |        |        | 10     | 38     | 42     | 50     | 65     | 68     | 73     | 80     | 81     | 20     | 1      | 0      | 0      | 0      | 200.00% |
| 2                             |        | 100    | 100    | 109    | 183    | 186    | 195    | 231    | 233    | 238    | 255    | 41     | 4      | 0      | 0      | 0      | 175.00% |
| 3                             |        | 0      | 270    | 270    | 278    | 417    | 420    | 429    | 494    | 496    | 502    | 66     | 7      | 1      | 0      | 0      | 150.00% |
| 4                             | 1 000  | 1 000  | 1 000  | 1 486  | 1 486  | 1 493  | 1 717  | 1 720  | 1 728  | 1 830  | 833    | 199    | 12     | 1      | 0      | 0      | 130.00% |
| 5                             | 0      | 1 800  | 1 800  | 1 800  | 2 529  | 2 529  | 2 536  | 2 861  | 2 863  | 2 871  | 3 020  | 276    | 32     | 2      | 0      | 0      | 115.00% |
| 6                             | 10 000 | 10 000 | 10 000 | 12 430 | 12 430 | 13 414 | 13 414 | 13 420 | 13 862 | 3 864  | 3 871  | 373    | 45     | 6      | 1      | 1      | 100.00% |
| 7                             | 9 000  | 9 000  | 9 000  | 11 916 | 11 916 | 11 916 | 13 196 | 13 196 | 13 156 | 13 161 | 13 731 | 4 733  | 1 055  | 61     | 9      | 2      | 94.00%  |
| 8                             | 8 100  | 8 100  | 8 100  | 11 381 | 11 381 | 11 381 | 12 869 | 12 869 | 12 869 | 12 873 | 13 580 | 1 243  | 163    | 14     | 5      | 88.00% |         |
| 9                             |        | 7 290  | 7 290  | 7 290  | 10 833 | 10 833 | 10 833 | 12 555 | 12 555 | 12 559 | 1 503  | 201    | 35     | 11     | 11     | 82.00% |         |
| 10                            |        | 6 561  | 6 561  | 6 561  | 10 281 | 10 281 | 10 281 | 12 218 | 12 218 | 3 718  | 260    | 57     | 31     | 31     | 31     | 78.00% |         |
| 11                            |        |        | 5 905  | 5 905  | 5 905  | 9 731  | 9 731  | 9 731  | 11 862 | 3 889  | 642    | 97     | 66     | 66     | 66     | 74.00% |         |
| 12                            |        |        |        | 5 314  | 5 314  | 5 314  | 9 189  | 9 189  | 9 189  | 4 302  | 793    | 273    | 190    | 190    | 190    | 70.00% |         |
| 13                            |        |        |        |        | 4 783  | 4 783  | 4 783  | 8 657  | 8 657  | 8 555  | 1 016  | 457    | 382    | 382    | 382    | 66.00% |         |
| 14                            |        |        |        |        |        | 4 305  | 4 305  | 8 140  | 8 139  | 2 697  | 1 371  | 1 303  | 62.00% | 62.00% | 62.00% | 62.00% |         |
| 15                            |        |        |        |        |        |        | 3 874  | 3 874  | 3 874  | 8 265  | 3 188  | 2 224  | 2 036  | 2 036  | 2 036  | 59.00% |         |
| 16                            |        |        |        |        |        |        |        | 3 487  | 3 487  | 13 657 | 9 777  | 9 656  | 9 617  | 9 617  | 9 617  | 56.00% |         |
| 17                            |        |        |        |        |        |        |        |        | 3 138  | 10 370 | 9 893  | 8 659  | 8 648  | 8 648  | 8 648  | 53.00% |         |
| 18                            |        |        |        |        |        |        |        |        |        | 34 327 | 71 208 | 77 137 | 77 706 | 77 706 | 77 706 | 50.00% |         |

TOTAL 10 000 20 000 30 000 40 000 50 000 60 000 70 000 80 000 90 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000

## BONUS/MALUS SYSTEM MODEL - Italian - New

Probability Claim

30.00%

NUMBERS OF INSURED

| Class / Year     | 1                | 2                | 3               | 4                          | 5                 | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40       | 50 Scale |         |        |  |
|------------------|------------------|------------------|-----------------|----------------------------|-------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|----------|----------|---------|--------|--|
| NEW ENTRANTS     | 10 000           | 10 000           | 10 000          | 10 000                     | 10 000            | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0        | 100.00%  |         |        |  |
| 1                | 270              | 918              | 1 169           | 1 658                      | 2 398             | 2 767  | 3 318  | 4 044  | 4 462  | 5 567   | 4 625   | 3 991   | 3 466   | 2 000%  | 200.00%  |          |         |        |  |
| 2                | 900              | 900              | 1 089           | 2 336                      | 2 512             | 2 882  | 4 069  | 4 354  | 4 802  | 5 882   | 5 916   | 5 360   | 4 264   | 3 752   | 175.00%  | 150.00%  |         |        |  |
| 3                | 0                | 1 890            | 1 890           | 2 022                      | 3 822             | 3 945  | 4 223  | 5 809  | 6 026  | 6 386   | 6 061   | 5 452   | 4 955   | 3 980   | 150.00%  | 100.00%  |         |        |  |
| 4                | 3 000            | 3 000            | 3 000           | 5 646                      | 5 646             | 5 739  | 7 971  | 8 057  | 8 265  | 10 170  | 7 335   | 7 948   | 5 561   | 4 929   | 4 619    | 130.00%  | 115.00% |        |  |
| 5                | 0                | 4 200            | 4 200           | 4 200                      | 7 287             | 7 287  | 7 352  | 9 867  | 9 927  | 10 083  | 12 213  | 7 086   | 6 859   | 5 028   | 4 554    | 4 668    | 100.00% |        |  |
| 6                | 10 000           | 10 000           | 14 410          | 14 410                     | 17 651            | 17 651 | 17 697 | 20 347 | 10 389 | 10 505  | 6 947   | 6 122   | 6 053   | 5 291   | 5 116    | 78.00%   | 78.00%  |        |  |
| 7                | 7 000            | 7 000            | 11 116          | 11 116                     | 11 116            | 14 293 | 14 293 | 14 324 | 16 980 | 10 009  | 9 415   | 5 968   | 5 461   | 5 536   | 5 336    | 94.00%   | 94.00%  |        |  |
| 8                | 4 900            | 4 900            | 4 900           | 8 502                      | 8 502             | 11 466 | 11 466 | 11 488 | 14 048 | 7 346   | 7 533   | 5 384   | 5 104   | 5 028   | 4 88.00% | 88.00%   |         |        |  |
| 9                | 3 430            | 3 430            | 3 430           | 6 455                      | 6 455             | 6 455  | 9 124  | 9 124  | 9 139  | 6 797   | 6 063   | 6 573   | 5 116   | 5 116   | 5 116    | 82.00%   | 82.00%  |        |  |
| 10               | 2 401            | 2 401            | 2 401           | 4 872                      | 4 872             | 4 872  | 7 206  | 8 570  | 5 699  | 5 543   | 6 127   | 5 291   | 5 291   | 5 291   | 5 291    | 78.00%   | 78.00%  |        |  |
| 11               | 1 681            | 1 681            | 1 681           | 3 657                      | 3 657             | 3 657  | 5 655  | 5 906  | 5 053  | 5 336   | 5 424   | 5 291   | 5 291   | 5 291   | 5 291    | 74.00%   | 74.00%  |        |  |
| 12               | 1 176            | 1 176            | 1 176           | 2 733                      | 2 733             | 2 733  | 5 106  | 5 291  | 6 518  | 5 504   | 5 260   | 6 359   | 6 359   | 6 359   | 6 359    | 66.00%   | 66.00%  |        |  |
| 13               |                  |                  |                 | 824                        | 824               | 824    | 2 034  | 2 034  | 2 034  | 4 791   | 5 260   | 5 371   | 6 034   | 6 034   | 6 034    | 62.00%   | 62.00%  |        |  |
| 14               |                  |                  |                 |                            | 576               | 576    | 576    | 1 509  | 3 384  | 5 786   | 5 786   | 5 786   | 4 012   | 5 792   | 5 792    | 5 627    | 5 627   |        |  |
| 15               |                  |                  |                 |                            |                   | 404    | 404    | 404    | 2 700  | 4 012   | 4 012   | 4 012   | 4 012   | 4 012   | 4 012    | 53.00%   | 53.00%  |        |  |
| 16               |                  |                  |                 |                            |                   | 282    | 282    | 198    | 1 216  | 3 473   | 4 148   | 4 148   | 5 003   | 5 003   | 5 003    | 50.00%   | 50.00%  |        |  |
| 17               |                  |                  |                 |                            |                   |        | 1 871  | 5 920  | 9 334  | 11 358  |         |         |         |         |          |          |         |        |  |
| TOTAL            | 10 000           | 20 000           | 30 000          | 40 000                     | 50 000            | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000  | 100 000  |         |        |  |
| Weighted Average | Type 1<br>20.00% | Type 2<br>75.00% | Type 3<br>5.00% | Probability Claim<br>5.00% | Average<br>10.00% |        | 10.00% |        |        |         |         |         |         |         |          |          |         |        |  |
| Class / Year     | 1                | 2                | 3               | 4                          | 5                 | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40       | 50 Scale |         |        |  |
|                  | 10 000           | 10 000           | 10 000          | 10 000                     | 10 000            | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 10 000  | 10 000  | 10 000  | 10 000  | 10 000   | 100.00%  |         |        |  |
| 1                | 0                | 0                | 0               | 21                         | 75                | 91     | 122    | 170    | 191    | 222     | 264     | 286     | 293     | 232     | 200      | 173      | 200.00% |        |  |
| 2                | 0                | 0                | 125             | 125                        | 141               | 261    | 273    | 297    | 384    | 401     | 427     | 494     | 327     | 271     | 213      | 188      | 175.00% |        |  |
| 3                | 0                | 0                | 0               | 311                        | 311               | 324    | 523    | 531    | 551    | 680     | 693     | 715     | 353     | 278     | 248      | 199      | 150.00% |        |  |
| 4                | 0                | 1 000            | 1 000           | 1 000                      | 1 524             | 1 524  | 1 534  | 1 821  | 1 827  | 1 844   | 2 017   | 1 028   | 549     | 287     | 248      | 231      | 130.00% |        |  |
| 5                | 0                | 0                | 1 750           | 1 750                      | 1 750             | 2 494  | 2 494  | 2 502  | 2 883  | 2 888   | 2 901   | 3 123   | 566     | 367     | 253      | 228      | 115.00% |        |  |
| 6                | 10 000           | 10 000           | 12 314          | 12 314                     | 12 314            | 13 275 | 13 275 | 13 282 | 13 761 | 3 765   | 3 776   | 633     | 340     | 307     | 234      | 100.00%  |         |        |  |
| 7                | 0                | 9 000            | 9 000           | 11 736                     | 11 736            | 11 736 | 12 906 | 12 906 | 12 912 | 13 492  | 4 495   | 1 290   | 345     | 280     | 279      | 94.00%   |         |        |  |
| 8                | 0                | 0                | 8 125           | 8 125                      | 8 125             | 11 173 | 11 173 | 11 173 | 12 540 | 12 545  | 13 230  | 1 337   | 500     | 280     | 259      | 88.00%   |         |        |  |
| 9                | 0                | 0                | 0               | 7 354                      | 7 354             | 7 354  | 10 626 | 10 626 | 12 177 | 12 181  | 1 515   | 455     | 355     | 264     | 264      | 82.00%   |         |        |  |
| 10               | 0                | 0                | 0               | 0                          | 6 670             | 6 670  | 6 670  | 10 098 | 10 098 | 10 098  | 11 817  | 11 817  | 3 425   | 481     | 320      | 330      | 78.00%  |        |  |
| 11               | 0                | 0                | 0               | 0                          | 0                 | 6 060  | 6 060  | 6 060  | 9 588  | 9 588   | 11 459  | 3 453   | 841     | 340     | 321      | 321      | 74.00%  |        |  |
| 12               | 0                | 0                | 0               | 0                          | 0                 | 0      | 5 515  | 5 515  | 5 515  | 9 095   | 9 095   | 9 095   | 3 760   | 870     | 534      | 421      | 70.00%  |        |  |
| 13               | 0                | 0                | 0               | 0                          | 0                 | 0      | 0      | 5 025  | 5 025  | 5 025   | 8 622   | 8 622   | 7 642   | 1 018   | 615      | 613      | 66.00%  |        |  |
| 14               | 0                | 0                | 0               | 0                          | 0                 | 0      | 0      | 0      | 4 584  | 4 584   | 4 584   | 8 166   | 7 276   | 2 403   | 1 354    | 1 337    | 62.00%  |        |  |
| 15               | 0                | 0                | 0               | 0                          | 0                 | 0      | 0      | 0      | 4 186  | 4 186   | 4 186   | 7 397   | 2 726   | 2 060   | 1 910    | 1 910    | 59.00%  |        |  |
| 16               | 0                | 0                | 0               | 0                          | 0                 | 0      | 0      | 0      | 0      | 0       | 3 827   | 3 827   | 13 042  | 8 561   | 8 537    | 8 593    | 8 593   | 56.00% |  |
| 17               | 0                | 0                | 0               | 0                          | 0                 | 0      | 0      | 0      | 0      | 0       | 0       | 3 501   | 10 206  | 8 624   | 7 644    | 7 644    | 53.00%  |        |  |
| 18               | 0                | 0                | 0               | 0                          | 0                 | 0      | 0      | 0      | 0      | 0       | 0       | 36 937  | 71 400  | 76 212  | 76 742   | 76 742   | 50.00%  |        |  |
| TOTAL            | 10 000           | 20 000           | 30 000          | 40 000                     | 50 000            | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000  | 100 000  | Av Prem |        |  |

## BONUS/MALUS SYSTEM MODEL - Italian - New

Probability Claim 5.00%

UNITS OF STANDARD PREMIUM

Class / Year

|    | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |    |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 1  | 0       | 0      | 0      | 3      | 10     | 10     | 11     | 14     | 14     | 15     | 15     | 1      | 0      | 0      | 0      | 0      |    |
| 2  | 0       | 0      | 44     | 44     | 46     | 64     | 64     | 65     | 70     | 70     | 72     | 2      | 0      | 0      | 0      | 0      |    |
| 3  | 0       | 0      | 0      | 107    | 107    | 109    | 139    | 140    | 140    | 148    | 149    | 149    | 3      | 0      | 0      | 0      |    |
| 4  | 0       | 650    | 650    | 826    | 826    | 827    | 872    | 873    | 874    | 885    | 235    | 16     | 0      | 0      | 0      | 0      |    |
| 5  | 0       | 0      | 1 093  | 1 093  | 1 093  | 1 339  | 1 339  | 1 340  | 1 401  | 1 402  | 1 402  | 1 418  | 22     | 0      | 0      | 0      |    |
| 6  | 10 000  | 10 000 | 10 000 | 11 354 | 11 354 | 11 354 | 11 659 | 11 659 | 11 660 | 11 736 | 1 737  | 1 737  | 28     | 1      | 0      | 0      |    |
| 7  | 0       | 8 930  | 8 930  | 8 930  | 10 542 | 10 542 | 10 924 | 10 924 | 10 925 | 11 022 | 2 092  | 133    | 1      | 0      | 0      | 0      |    |
| 8  | 0       | 0      | 7 942  | 7 942  | 7 942  | 9 734  | 9 734  | 9 734  | 10 187 | 10 187 | 10 187 | 10 307 | 163    | 3      | 0      | 0      |    |
| 9  | 0       | 0      | 0      | 7 030  | 7 030  | 7 030  | 8 934  | 8 934  | 8 934  | 9 449  | 9 449  | 9 450  | 192    | 4      | 0      | 0      |    |
| 10 | 0       | 0      | 0      | 0      | 6 353  | 6 353  | 6 353  | 8 360  | 8 360  | 8 360  | 8 942  | 8 942  | 811    | 6      | 1      | 1      |    |
| 11 | 0       | 0      | 0      | 0      | 0      | 5 726  | 5 726  | 5 726  | 7 793  | 7 793  | 7 793  | 8 434  | 890    | 25     | 2      | 2      |    |
| 12 | 0       | 0      | 0      | 0      | 0      | 0      | 5 146  | 5 146  | 5 146  | 7 235  | 7 235  | 7 235  | 7 235  | 974    | 37     | 13     | 12 |
| 13 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 4 609  | 4 609  | 4 609  | 6 689  | 6 689  | 3 126  | 55     | 28     | 28     |    |
| 14 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 113  | 4 113  | 4 113  | 6 155  | 3 110  | 281    | 179    | 178    |    |
| 15 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 718  | 3 718  | 3 718  | 3 137  | 398    | 303    | 300    |    |
| 16 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 353  | 3 353  | 7 474  | 2 820  | 2 777  | 2 776  |    |
| 17 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 015  | 6 274  | 2 733  | 2 497  | 2 496  |    |
| 18 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 27 744 | 44 245 | 44 731 | 44 731 |    |
|    | 10 000  | 19 580 | 28 658 | 37 152 | 45 302 | 53 087 | 60 475 | 67 522 | 74 224 | 80 634 | 76 761 | 73 017 | 54 101 | 50 610 | 50 532 | 50 530 |    |
|    | 100.00% | 97.90% | 95.53% | 92.88% | 90.60% | 88.48% | 86.39% | 84.40% | 82.47% | 80.63% | 76.76% | 73.02% | 54.10% | 50.61% | 50.53% | 50.53% |    |

Class / Year

|                | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |   |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 1              | 0       | 0      | 0      | 20     | 76     | 83     | 101    | 131    | 136    | 145    | 160    | 163    | 39     | 3      | 0      | 0      |   |
| 2              | 0       | 0      | 175    | 175    | 191    | 320    | 326    | 340    | 403    | 408    | 417    | 446    | 72     | 7      | 1      | 0      |   |
| 3              | 0       | 0      | 405    | 405    | 417    | 626    | 631    | 643    | 740    | 744    | 752    | 99     | 11     | 1      | 0      | 0      |   |
| 4              | 0       | 1 300  | 1 300  | 1 300  | 1 932  | 1 932  | 1 941  | 2 232  | 2 236  | 2 246  | 2 380  | 1 083  | 259    | 15     | 2      | 0      |   |
| 5              | 0       | 0      | 2 070  | 2 070  | 2 070  | 2 908  | 2 908  | 2 916  | 3 290  | 3 293  | 3 302  | 3 474  | 318    | 37     | 3      | 1      |   |
| 6              | 10 000  | 10 000 | 10 000 | 12 430 | 12 430 | 12 430 | 13 414 | 13 414 | 13 420 | 13 862 | 3 864  | 3 871  | 373    | 45     | 6      | 1      |   |
| 7              | 0       | 8 460  | 8 460  | 8 460  | 11 201 | 11 201 | 11 201 | 12 367 | 12 367 | 12 372 | 12 907 | 4 449  | 991    | 58     | 8      | 2      |   |
| 8              | 0       | 0      | 7 128  | 7 128  | 7 128  | 10 015 | 10 015 | 10 015 | 11 324 | 11 324 | 11 329 | 11 950 | 1 094  | 143    | 12     | 5      |   |
| 9              | 0       | 0      | 0      | 5 978  | 5 978  | 5 978  | 8 883  | 8 883  | 8 883  | 10 295 | 10 295 | 10 295 | 10 298 | 1 223  | 165    | 29     | 9 |
| 10             | 0       | 0      | 0      | 0      | 5 118  | 5 118  | 5 118  | 8 019  | 8 019  | 8 019  | 9 530  | 2 900  | 203    | 45     | 24     |        |   |
| 11             | 0       | 0      | 0      | 0      | 0      | 4 370  | 4 370  | 4 370  | 7 201  | 7 201  | 7 201  | 8 778  | 2 878  | 475    | 72     | 49     |   |
| 12             | 0       | 0      | 0      | 0      | 0      | 0      | 3 720  | 3 720  | 3 720  | 6 432  | 6 432  | 3 012  | 555    | 191    | 133    |        |   |
| 13             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 3 157  | 3 157  | 3 157  | 5 714  | 5 647  | 671    | 302    | 252    |        |   |
| 14             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 669  | 2 669  | 2 669  | 5 047  | 5 046  | 1 672  | 850    | 808    |   |
| 15             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 286  | 2 286  | 2 286  | 4 877  | 1 881  | 1 312  | 1 201  |   |
| 16             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 953  | 1 953  | 7 648  | 5 475  | 5 407  | 5 386  |   |
| 17             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 663  | 5 496  | 5 243  | 4 589  | 4 584  |   |
| 18             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 17 164 | 35 604 | 38 569 | 38 853 |   |
|                | 10 000  | 19 760 | 29 133 | 37 966 | 46 528 | 54 771 | 62 622 | 70 194 | 77 469 | 84 450 | 81 181 | 77 889 | 59 145 | 52 263 | 51 398 | 51 308 |   |
| Frequency = 10 | 100.00% | 98.80% | 97.11% | 94.91% | 93.06% | 91.29% | 89.46% | 87.74% | 86.08% | 84.45% | 81.18% | 77.89% | 59.14% | 52.26% | 51.40% | 51.31% |   |
| Frequency = 5% | 100.00% | 97.90% | 95.53% | 92.88% | 90.60% | 88.48% | 86.39% | 84.40% | 82.47% | 80.63% | 76.76% | 73.02% | 54.10% | 50.61% | 50.53% | 50.53% |   |

## BONUS/MALUS SYSTEM MODEL - Italian - New

Probability Claim 30.00%

UNITS OF STANDARD PREMIUM

| Class / Year | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30    | 40    | 50    |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1            | 0      | 0      | 0      | 540    | 1 836  | 2 338  | 3 317  | 4 795  | 5 535  | 6 636  | 8 089  | 8 924  | 11 134 | 9 250 | 7 982 | 6 931 |
| 2            | 0      | 0      | 1 575  | 1 575  | 1 906  | 4 089  | 4 396  | 5 044  | 7 122  | 7 620  | 8 404  | 10 294 | 10 353 | 9 380 | 7 463 | 6 566 |
| 3            | 0      | 0      | 0      | 2 835  | 2 835  | 3 033  | 5 732  | 5 917  | 6 335  | 8 713  | 9 039  | 9 580  | 9 091  | 8 178 | 7 433 | 5 970 |
| 4            | 0      | 3 900  | 3 900  | 7 340  | 7 340  | 7 460  | 10 362 | 10 474 | 10 745 | 13 221 | 9 536  | 10 333 | 7 229  | 6 407 | 6 005 |       |
| 5            | 0      | 0      | 4 830  | 4 830  | 4 830  | 8 380  | 8 380  | 8 455  | 11 347 | 11 417 | 11 595 | 14 045 | 8 149  | 7 888 | 5 782 | 5 237 |
| 6            | 10 000 | 10 000 | 10 000 | 14 410 | 14 410 | 17 651 | 17 651 | 20 347 | 10 389 | 10 505 | 6 947  | 6 122  | 6 053  | 4 668 |       |       |
| 7            | 0      | 6 580  | 6 580  | 6 580  | 10 449 | 10 449 | 10 449 | 13 435 | 13 435 | 13 465 | 15 961 | 9 409  | 8 850  | 5 610 | 5 134 | 5 204 |
| 8            | 0      | 0      | 4 312  | 4 312  | 4 312  | 7 481  | 7 481  | 7 481  | 10 090 | 10 090 | 10 110 | 12 362 | 6 464  | 6 629 | 4 738 | 4 491 |
| 9            | 0      | 0      | 0      | 2 813  | 2 813  | 2 813  | 5 293  | 5 293  | 5 293  | 7 481  | 7 481  | 5 573  | 4 971  | 5 390 | 4 195 |       |
| 10           | 0      | 0      | 0      | 0      | 1 873  | 1 873  | 1 873  | 3 800  | 3 800  | 3 800  | 5 621  | 5 621  | 6 685  | 4 445 | 4 324 | 4 779 |
| 11           | 0      | 0      | 0      | 0      | 0      | 1 244  | 1 244  | 1 244  | 2 706  | 2 706  | 4 184  | 4 371  | 5 219  | 3 949 | 4 014 |       |
| 12           | 0      | 0      | 0      | 0      | 0      | 0      | 824    | 824    | 824    | 1 913  | 1 913  | 1 913  | 3 574  | 3 704 | 4 563 | 3 853 |
| 13           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 544    | 544    | 544    | 1 343  | 1 343  | 3 674  | 3 162 | 3 472 | 4 197 |
| 14           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 357    | 357    | 935    | 2 098  | 3 587  | 3 330 | 3 741 |       |
| 15           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 238    | 238    | 238    | 1 593  | 2 367 | 3 417 | 3 320 |
| 16           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 158    | 158    | 2 482 | 3 393 | 4 351 |
| 17           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 105    | 645    | 1 841 | 2 198 | 2 651 |
| 18           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 960 | 4 667 | 5 679 |

Frequency = 30 100.00% 20.480 31.197 41.795 52.603 63.450 74.101 84.844 95.558 106.072 106.626 106.645 101.924 95.025 89.693 85.852  
 Frequency = 10 100.00% 98.80% 97.11% 94.91% 93.06% 91.29% 89.46% 87.74% 86.08% 84.45% 81.18% 77.89% 59.14% 52.26% 51.40% 51.31%  
 Frequency = 5% 100.00% 97.90% 95.53% 92.88% 90.60% 88.48% 86.39% 84.40% 82.47% 80.63% 76.76% 73.02% 54.10% 50.61% 50.53% 50.53%

| Class / Year | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50  |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 1            | 0      | 0      | 0      | 43     | 151    | 182    | 244    | 341    | 382    | 444    | 527    | 571    | 586    | 465    | 399    | 347 |
| 2            | 0      | 0      | 219    | 219    | 248    | 457    | 477    | 521    | 673    | 701    | 747    | 864    | 572    | 475    | 374    | 328 |
| 3            | 0      | 0      | 0      | 467    | 467    | 486    | 784    | 797    | 827    | 1 021  | 1 040  | 1 073  | 530    | 417    | 373    | 299 |
| 4            | 0      | 1 300  | 1 300  | 1 300  | 1 981  | 1 981  | 1 994  | 2 367  | 2 375  | 2 397  | 2 623  | 1 336  | 714    | 373    | 322    | 300 |
| 5            | 0      | 0      | 2 013  | 2 013  | 2 013  | 2 868  | 2 868  | 2 878  | 3 315  | 3 321  | 3 337  | 3 591  | 650    | 422    | 291    | 262 |
| 6            | 10 000 | 10 000 | 10 000 | 12 314 | 12 314 | 12 314 | 13 275 | 13 275 | 13 282 | 13 761 | 3 765  | 3 776  | 633    | 340    | 307    | 234 |
| 7            | 0      | 8 460  | 8 460  | 8 460  | 11 032 | 11 032 | 11 032 | 12 131 | 12 131 | 12 131 | 12 137 | 12 683 | 4 226  | 2 123  | 324    | 263 |
| 8            | 0      | 0      | 7 150  | 7 150  | 7 150  | 9 832  | 9 832  | 9 832  | 11 035 | 11 035 | 11 039 | 11 642 | 1 176  | 440    | 246    | 228 |
| 9            | 0      | 0      | 0      | 6 030  | 6 030  | 6 030  | 8 714  | 8 714  | 8 714  | 9 985  | 9 985  | 1 242  | 373    | 291    | 217    |     |
| 10           | 0      | 0      | 0      | 0      | 5 202  | 5 202  | 5 202  | 7 876  | 7 876  | 7 876  | 9 217  | 9 217  | 2 671  | 376    | 250    | 257 |
| 11           | 0      | 0      | 0      | 0      | 0      | 4 485  | 4 485  | 4 485  | 7 095  | 7 095  | 7 095  | 8 480  | 2 555  | 622    | 252    | 238 |
| 12           | 0      | 0      | 0      | 0      | 0      | 0      | 3 860  | 3 860  | 3 860  | 6 367  | 6 367  | 6 367  | 2 632  | 609    | 374    | 295 |
| 13           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 317  | 3 317  | 3 317  | 5 690  | 5 690  | 5 044  | 672    | 406    | 404 |
| 14           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 842  | 2 842  | 2 842  | 5 063  | 4 511  | 1 490  | 840    | 829 |
| 15           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 470  | 2 470  | 2 470  | 4 365  | 1 608  | 1 215  | 1 127  |     |
| 16           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 143  | 2 143  | 7 304  | 4 794  | 4 780  | 4 812  |     |
| 17           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 856  | 5 409  | 4 571  | 4 051  | 4 069  |     |
| 18           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 18 468 | 35 700 | 38 106 | 38 371 |     |

177% 10 000 19 760 29 141 37 994 46 587 54 868 62 767 70 392 77 724 84 768 81 570 78 353 60 275 54 071 53 140 52 879

## BONUS/MALUS SYSTEM MODEL - Italian - New

## MEASURE OF IMPLICIT EXCESS OR DEDUCTIBLE

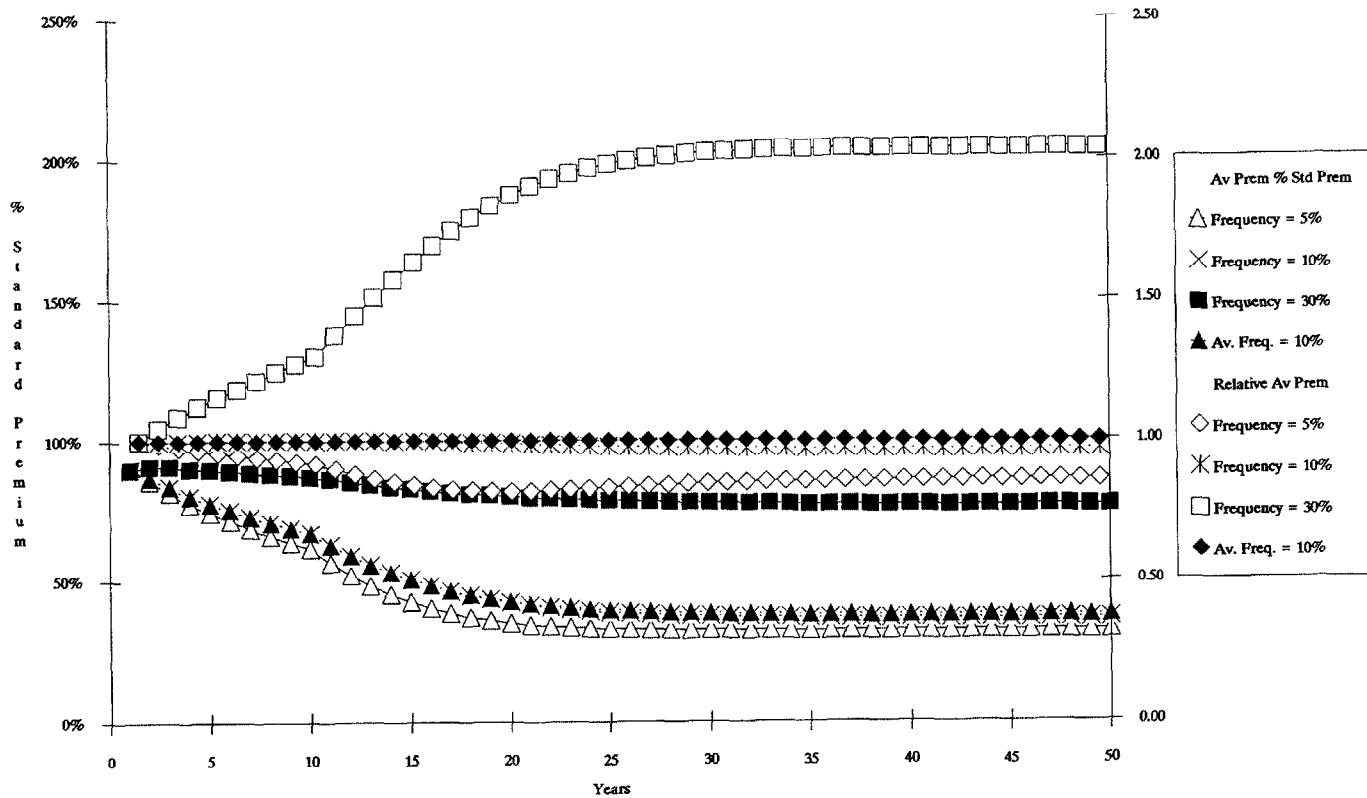
| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL   | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|---------|---------|------|
| Claim?       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         | Prem    | Paid |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 0       | 200.00% | 0.00 |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 0       | 175.00% | 0.00 |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 0       | 150.00% | 0.00 |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 0       | 130.00% | 0.00 |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 0       | 115.00% | 0.00 |
| 6            |   |   |   |   |   |   |   |   |   |   |    | 0       | 100.00% | 0.00 |
| 7            |   |   |   |   |   |   |   |   |   |   |    | 0       | 94.00%  | 0.00 |
| 8            |   |   |   |   |   |   |   |   |   |   |    | 0       | 88.00%  | 0.00 |
| 9            |   |   |   |   |   |   |   |   |   |   |    | 0       | 82.00%  | 0.00 |
| 10           |   |   |   |   |   |   |   |   |   |   |    | 0       | 78.00%  | 0.00 |
| 11           |   |   |   |   |   |   |   |   |   |   |    | 0       | 74.00%  | 0.00 |
| 12           | 1 |   |   |   |   |   |   |   |   |   |    | 0       | 70.00%  | 0.00 |
| 13           |   | 1 |   |   |   |   |   |   |   |   |    | 1       | 66.00%  | 0.66 |
| 14           |   |   | 1 |   |   |   |   |   |   |   |    | 1       | 62.00%  | 0.62 |
| 15           |   |   |   | 1 |   |   |   |   |   |   |    | 1       | 59.00%  | 0.59 |
| 16           |   |   |   |   | 1 |   |   |   |   |   |    | 1       | 56.00%  | 0.56 |
| 17           |   |   |   |   |   | 1 |   |   |   |   |    | 1       | 53.00%  | 0.53 |
| 18           |   |   |   |   |   |   | 1 | 1 | 1 | 1 | 1  | 5       | 50.00%  | 2.50 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 10      | TOTAL   | 5.46 |
|              |   |   |   |   |   |   |   |   |   |   |    | Average | 0.55    |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL   | % Std   | Prem  |
|--------------|---|---|---|---|---|---|---|---|---|---|----|---------|---------|-------|
| Claim?       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         | Prem    | Paid  |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 1       | 200.00% | 2.00  |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 2       | 175.00% | 1.75  |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 3       | 150.00% | 1.50  |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 4       | 130.00% | 1.30  |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 5       | 115.00% | 1.15  |
| 6            |   |   |   |   |   |   |   |   |   |   |    | 6       | 100.00% | 1.00  |
| 7            |   |   |   |   |   |   |   |   |   |   |    | 7       | 94.00%  | 0.94  |
| 8            |   |   |   |   |   |   |   |   |   |   |    | 8       | 88.00%  | 0.88  |
| 9            |   |   |   |   |   |   |   |   |   |   |    | 9       | 82.00%  | 0.82  |
| 10           |   |   |   |   |   |   |   |   |   |   |    | 10      | 78.00%  | 0.78  |
| 11           |   |   |   |   |   |   |   |   |   |   |    | 11      | 74.00%  | 0.00  |
| 12           |   |   |   |   |   |   |   |   |   |   |    | 12      | 70.00%  | 0.00  |
| 13           | 1 |   |   |   |   |   |   |   |   |   |    | 13      | 66.00%  | 0.00  |
| 14           |   |   | 1 |   |   |   |   |   |   |   |    | 14      | 62.00%  | 0.00  |
| 15           |   |   |   | 1 |   |   |   |   |   |   |    | 15      | 59.00%  | 0.00  |
| 16           |   |   |   |   | 1 |   |   |   |   |   |    | 16      | 56.00%  | 0.00  |
| 17           |   |   |   |   |   | 1 |   |   |   |   |    | 17      | 53.00%  | 0.00  |
| 18           |   |   |   |   |   |   | 1 | 1 | 1 | 1 | 1  | 2       | 50.00%  | 0.00  |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 10      | TOTAL   | 6.18  |
|              |   |   |   |   |   |   |   |   |   |   |    | Average | 0.62    |       |
|              |   |   |   |   |   |   |   |   |   |   |    | Excess  | 0.72    |       |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 10      | TOTAL   | 12.12 |
|              |   |   |   |   |   |   |   |   |   |   |    | Average | 1.21    |       |
|              |   |   |   |   |   |   |   |   |   |   |    | Excess  | 3.15    |       |

| Class / Year<br>Claim? | 0    | 1       | 2    | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | % Std | Prem    | Class / Year<br>Claim? | 0    | 1       | 2    | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | % Std | Prem |
|------------------------|------|---------|------|---|---|---|---|---|---|---|----|-------|-------|---------|------------------------|------|---------|------|---|---|---|---|---|---|---|----|-------|-------|------|
|                        | Prem | Paid    |      |   |   |   |   |   |   |   |    |       |       |         | Prem                   | Paid |         |      |   |   |   |   |   |   |   |    |       |       |      |
| 1                      | 0    | 200.00% | 0.00 |   |   |   |   |   |   |   |    | 1     | 0     | 200.00% | 0.00                   | 0    | 200.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 2                      | 0    | 175.00% | 0.00 |   |   |   |   |   |   |   |    | 2     | 0     | 175.00% | 0.00                   | 0    | 175.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 3                      | 0    | 150.00% | 0.00 |   |   |   |   |   |   |   |    | 3     | 0     | 150.00% | 0.00                   | 0    | 150.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 4                      | 0    | 130.00% | 0.00 |   |   |   |   |   |   |   |    | 4     | 0     | 130.00% | 0.00                   | 0    | 130.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 5                      | 0    | 115.00% | 0.00 |   |   |   |   |   |   |   |    | 5     | 0     | 115.00% | 0.00                   | 0    | 115.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 6                      | 0    | 100.00% | 0.00 |   |   |   |   |   |   |   |    | 6     | 0     | 100.00% | 0.00                   | 0    | 100.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 7                      | 0    | 94.00%  | 0.00 |   |   |   |   |   |   |   |    | 7     | 0     | 94.00%  | 0.00                   | 0    | 94.00%  | 0.94 |   |   |   |   |   |   |   |    |       |       |      |
| 8                      | 0    | 88.00%  | 0.00 |   |   |   |   |   |   |   |    | 8     | 0     | 88.00%  | 0.00                   | 0    | 88.00%  | 1.76 |   |   |   |   |   |   |   |    |       |       |      |
| 9                      | 0    | 82.00%  | 0.00 |   |   |   |   |   |   |   |    | 9     | 0     | 82.00%  | 0.00                   | 0    | 82.00%  | 0.82 |   |   |   |   |   |   |   |    |       |       |      |
| 10                     | 0    | 78.00%  | 0.00 |   |   |   |   |   |   |   |    | 10    | 0     | 78.00%  | 0.00                   | 0    | 78.00%  | 1.56 |   |   |   |   |   |   |   |    |       |       |      |
| 11                     | 0    | 74.00%  | 0.00 |   |   |   |   |   |   |   |    | 11    | 0     | 74.00%  | 0.00                   | 0    | 74.00%  | 0.74 |   |   |   |   |   |   |   |    |       |       |      |
| 12                     | 1    | 70.00%  | 2.10 |   |   |   |   |   |   |   |    | 12    | 1     | 70.00%  | 2.10                   | 0    | 70.00%  | 0.70 |   |   |   |   |   |   |   |    |       |       |      |
| 13                     | 1    | 66.00%  | 2.64 |   |   |   |   |   |   |   |    | 13    | 1     | 66.00%  | 2.64                   | 0    | 66.00%  | 0.66 |   |   |   |   |   |   |   |    |       |       |      |
| 14                     | 1    | 62.00%  | 1.86 |   |   |   |   |   |   |   |    | 14    | 1     | 62.00%  | 1.86                   | 0    | 62.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 15                     | 0    | 59.00%  | 0.00 |   |   |   |   |   |   |   |    | 15    | 0     | 59.00%  | 0.00                   | 0    | 59.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 16                     | 0    | 56.00%  | 0.00 |   |   |   |   |   |   |   |    | 16    | 0     | 56.00%  | 0.00                   | 0    | 56.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 17                     | 0    | 53.00%  | 0.00 |   |   |   |   |   |   |   |    | 17    | 0     | 53.00%  | 0.00                   | 0    | 53.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 18                     | 0    | 50.00%  | 0.00 |   |   |   |   |   |   |   |    | 18    | 0     | 50.00%  | 0.00                   | 0    | 50.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| TOTAL                  | 1    | 1       | 1    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |       |       |         | TOTAL                  | 6.60 | TOTAL   | 1    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 10    | TOTAL | 8.18 |

| Class / Year<br>Claim? | 0    | 1       | 2    | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | % Std | Prem    | Class / Year<br>Claim? | 0    | 1       | 2    | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | % Std | Prem |
|------------------------|------|---------|------|---|---|---|---|---|---|---|----|-------|-------|---------|------------------------|------|---------|------|---|---|---|---|---|---|---|----|-------|-------|------|
|                        | Prem | Paid    |      |   |   |   |   |   |   |   |    |       |       |         | Prem                   | Paid |         |      |   |   |   |   |   |   |   |    |       |       |      |
| 1                      | 0    | 200.00% | 0.00 |   |   |   |   |   |   |   |    | 1     | 0     | 200.00% | 0.00                   | 0    | 200.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 2                      | 0    | 175.00% | 0.00 |   |   |   |   |   |   |   |    | 2     | 0     | 175.00% | 0.00                   | 0    | 175.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 3                      | 0    | 150.00% | 0.00 |   |   |   |   |   |   |   |    | 3     | 0     | 150.00% | 0.00                   | 0    | 150.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 4                      | 0    | 130.00% | 0.00 |   |   |   |   |   |   |   |    | 4     | 0     | 130.00% | 0.00                   | 0    | 130.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 5                      | 0    | 115.00% | 0.00 |   |   |   |   |   |   |   |    | 5     | 0     | 115.00% | 0.00                   | 0    | 115.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 6                      | 0    | 100.00% | 0.00 |   |   |   |   |   |   |   |    | 6     | 0     | 100.00% | 0.00                   | 0    | 100.00% | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 7                      | 0    | 94.00%  | 0.00 |   |   |   |   |   |   |   |    | 7     | 0     | 94.00%  | 0.00                   | 0    | 94.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 8                      | 0    | 88.00%  | 0.00 |   |   |   |   |   |   |   |    | 8     | 0     | 88.00%  | 0.00                   | 0    | 88.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 9                      | 0    | 82.00%  | 0.00 |   |   |   |   |   |   |   |    | 9     | 0     | 82.00%  | 0.00                   | 0    | 82.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 10                     | 1    | 78.00%  | 0.78 |   |   |   |   |   |   |   |    | 10    | 1     | 78.00%  | 0.78                   | 0    | 78.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 11                     | 1    | 74.00%  | 1.48 |   |   |   |   |   |   |   |    | 11    | 1     | 74.00%  | 1.48                   | 0    | 74.00%  | 0.00 |   |   |   |   |   |   |   |    |       |       |      |
| 12                     | 1    | 70.00%  | 2.10 |   |   |   |   |   |   |   |    | 12    | 1     | 70.00%  | 2.10                   | 0    | 70.00%  | 0.70 |   |   |   |   |   |   |   |    |       |       |      |
| 13                     | 1    | 66.00%  | 1.98 |   |   |   |   |   |   |   |    | 13    | 1     | 66.00%  | 1.98                   | 0    | 66.00%  | 0.66 |   |   |   |   |   |   |   |    |       |       |      |
| 14                     | 1    | 62.00%  | 0.62 |   |   |   |   |   |   |   |    | 14    | 1     | 62.00%  | 0.62                   | 0    | 62.00%  | 1.24 |   |   |   |   |   |   |   |    |       |       |      |
| 15                     | 0    | 59.00%  | 0.00 |   |   |   |   |   |   |   |    | 15    | 0     | 59.00%  | 0.00                   | 0    | 59.00%  | 0.59 |   |   |   |   |   |   |   |    |       |       |      |
| 16                     | 0    | 56.00%  | 0.00 |   |   |   |   |   |   |   |    | 16    | 0     | 56.00%  | 0.00                   | 0    | 56.00%  | 1.12 |   |   |   |   |   |   |   |    |       |       |      |
| 17                     | 0    | 53.00%  | 0.00 |   |   |   |   |   |   |   |    | 17    | 0     | 53.00%  | 0.00                   | 0    | 53.00%  | 0.53 |   |   |   |   |   |   |   |    |       |       |      |
| 18                     | 0    | 50.00%  | 0.00 |   |   |   |   |   |   |   |    | 18    | 0     | 50.00%  | 0.00                   | 0    | 50.00%  | 1.00 |   |   |   |   |   |   |   |    |       |       |      |
| TOTAL                  | 1    | 1       | 1    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |       |       |         | TOTAL                  | 6.96 | TOTAL   | 1    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 10    | TOTAL | 5.84 |

BONUS/MALUS SYSTEM MODEL - Dutch



## BONUS/MALUS SYSTEM MODEL - Dutch

Probability Claim 5.00%

NUMBER OF INSUREDS

| Class / Year  | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50      | Premium Scale |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------------|
| NEW ENTRANTS: | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0       | 0       | 100.00%       |
| 1             | 500    | 1 000  | 1 049  | 1 120  | 1 213  | 1 306  | 1 321  | 1 340  | 1 363  | 1 386   | 891     | 57      | 8       | 6       | 6       | 6       | 120.00%       |
| 2             | 0      | 475    | 1 401  | 1 448  | 1 515  | 1 624  | 1 810  | 1 826  | 1 847  | 1 876   | 1 923   | 127     | 16      | 12      | 11      | 11      | 100.00%       |
| 3             | 10 000 | 10 000 | 10 000 | 10 451 | 11 760 | 11 804 | 11 868 | 11 991 | 12 278 | 12 296  | 2 319   | 2 354   | 205     | 39      | 29      | 29      | 90.00%        |
| 4             | 9 500  | 9 500  | 9 500  | 9 929  | 11 579 | 11 621 | 11 682 | 11 817 | 12 213 | 12 248  | 2 773   | 314     | 84      | 68      | 67      | 67      | 80.00%        |
| 5             |        | 9 025  | 9 025  | 9 432  | 11 387 | 11 427 | 11 485 | 11 630 | 12 124 | 12 191  | 930     | 149     | 123     | 122     | 122     | 70.00%  |               |
| 6             |        |        | 8 574  | 8 574  | 8 961  | 11 185 | 11 223 | 11 278 | 11 433 | 12 013  | 1 365   | 399     | 361     | 359     | 359     | 60.00%  |               |
| 7             |        |        | 8 145  | 8 145  | 8 145  | 8 513  | 10 975 | 11 343 | 11 395 | 11 558  | 1 882   | 878     | 796     | 793     | 793     | 55.00%  |               |
| 8             |        |        |        | 7 738  | 7 738  | 7 738  | 8 087  | 10 426 | 11 091 | 11 440  | 3 114   | 1 277   | 1 166   | 1 161   | 1 161   | 50.00%  |               |
| 9             |        |        |        |        | 7 351  | 7 351  | 7 351  | 7 683  | 9 905  | 10 536  | 7 456   | 4 952   | 4 877   | 4 873   | 4 873   | 45.00%  |               |
| 10            |        |        |        |        |        | 6 983  | 6 983  | 6 983  | 7 298  | 9 410   | 6 913   | 4 725   | 4 634   | 4 629   | 4 629   | 40.00%  |               |
| 11            |        |        |        |        |        |        | 6 634  | 6 634  | 6 634  | 6 934   | 6 041   | 4 574   | 4 404   | 4 398   | 4 398   | 37.50%  |               |
| 12            |        |        |        |        |        |        |        | 6 302  | 6 302  | 5 321   | 4 343   | 4 186   | 4 178   | 4 178   | 4 178   | 35.00%  |               |
| 13            |        |        |        |        |        |        |        |        | 5 987  | 5 987   | 10 592  | 4 174   | 3 982   | 3 969   | 3 969   | 3 969   | 32.50%        |
| 14            |        |        |        |        |        |        |        |        |        | 5 688   | 55 682  | 74 381  | 75 354  | 75 405  | 75 405  | 30.00%  |               |
| TOTAL         | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 |               |

Probability Claim 10.00%

| Class / Year  | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50     | Scale   |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|---------|
| NEW ENTRANTS: | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0       | 0      | 100.00% |
| 1             | 1 000  | 2 000  | 2 190  | 2 461  | 2 805  | 3 149  | 3 257  | 3 388  | 3 540  | 3 693   | 2 755   | 627     | 214     | 152     | 142     | 142    | 120.00% |
| 2             | 0      | 900    | 2 610  | 2 781  | 3 025  | 3 400  | 4 011  | 4 121  | 4 257  | 4 436   | 4 705   | 1 058   | 338     | 245     | 228     | 228    | 100.00% |
| 3             | 10 000 | 10 000 | 10 000 | 10 810 | 13 078 | 13 232 | 13 451 | 13 848 | 14 723 | 14 833  | 4 971   | 5 174   | 1 438   | 575     | 408     | 385    | 90.00%  |
| 4             | 9 000  | 9 000  | 9 000  | 9 729  | 12 426 | 12 565 | 12 762 | 13 173 | 14 300 | 14 452  | 5 591   | 1 886   | 912     | 693     | 661     | 661    | 80.00%  |
| 5             | 8 100  | 8 100  | 8 100  | 8 756  | 11 774 | 11 899 | 12 077 | 12 494 | 13 815 | 14 038  | 3 558   | 1 302   | 1 051   | 1 001   | 1 001   | 70.00% |         |
| 6             |        | 7 290  | 7 290  | 7 290  | 7 880  | 11 128 | 11 240 | 11 400 | 11 819 | 13 283  | 4 497   | 2 122   | 1 842   | 1 790   | 1 790   | 60.00% |         |
| 7             |        |        | 6 561  | 6 561  | 6 561  | 7 092  | 10 494 | 11 025 | 11 169 | 11 584  | 5 393   | 3 676   | 3 189   | 3 131   | 3 131   | 55.00% |         |
| 8             |        |        |        | 5 905  | 5 905  | 5 905  | 5 905  | 9 444  | 10 310 | 10 788  | 6 777   | 4 591   | 4 124   | 4 049   | 4 049   | 50.00% |         |
| 9             |        |        |        |        | 5 314  | 5 314  | 5 314  | 5 745  | 8 500  | 9 279   | 11 106  | 9 014   | 8 907   | 8 872   | 8 872   | 45.00% |         |
| 10            |        |        |        |        |        | 4 783  | 4 783  | 4 783  | 5 170  | 7 650   | 9 568   | 8 133   | 8 012   | 7 986   | 7 986   | 40.00% |         |
| 11            |        |        |        |        |        |        | 4 305  | 4 305  | 4 305  | 4 653   | 7 675   | 7 532   | 7 213   | 7 189   | 7 189   | 37.50% |         |
| 12            |        |        |        |        |        |        |        | 3 874  | 3 874  | 3 874   | 6 332   | 6 701   | 6 498   | 6 470   | 6 470   | 35.00% |         |
| 13            |        |        |        |        |        |        |        |        | 3 487  | 3 487   | 8 610   | 5 998   | 5 875   | 5 824   | 5 824   | 32.50% |         |
| 14            |        |        |        |        |        |        |        |        |        | 3 138   | 31 476  | 48 890  | 51 792  | 52 271  | 52 271  | 30.00% |         |
| TOTAL         | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 |        |         |

## BONUS/MALUS SYSTEM MODEL - Dutch

Probability Claim 30.00%

NUMBER OF INSUREDS

| Class / Year | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50 Scale |        |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|----------|--------|
| NEW ENTRANTS | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0       | 100.00%  |        |
| 1            | 3 000  | 6 000  | 7 530  | 9 501  | 11 781 | 14 060 | 15 735 | 17 591 | 19 574 | 21 558  | 20 214  | 17 367  | 16 123  | 15 735  | 15 608  | 120.00%  |        |
| 2            | 0      | 2 100  | 5 670  | 6 741  | 8 121  | 9 933  | 12 350 | 13 632 | 15 073 | 16 715  | 18 683  | 15 465  | 14 091  | 13 835  | 13 718  | 100.00%  |        |
| 3            | 10 000 | 10 000 | 10 000 | 11 470 | 14 998 | 15 748 | 16 713 | 18 133 | 20 506 | 21 480  | 12 589  | 13 931  | 13 039  | 12 455  | 12 092  | 12 028   | 90.00% |
| 4            | 7 000  | 7 000  | 8 029  | 11 219 | 11 744 | 12 420 | 13 519 | 15 731 | 16 519 | 10 364  | 10 842  | 10 950  | 10 691  | 10 659  | 8 044   | 80.00%   |        |
| 5            | 4 900  | 4 900  | 4 900  | 5 620  | 8 357  | 8 725  | 9 198  | 10 042 | 11 975 | 12 637  | 10 207  | 9 325   | 9 355   | 9 291   | 70.00%  |          |        |
| 6            | 3 430  | 3 430  | 3 430  | 3 934  | 6 203  | 6 460  | 6 792  | 7 434  | 9 057  | 8 395   | 7 932   | 8 055   | 8 044   | 6 063   | 6 116   | 60.00%   |        |
| 7            |        | 2 401  | 2 401  | 2 401  | 2 401  | 2 754  | 4 589  | 4 942  | 5 174  | 5 660   | 6 625   | 7 462   | 7 407   | 7 469   | 55.00%  |          |        |
| 8            |        |        | 1 681  | 1 681  | 1 681  | 1 928  | 3 212  | 3 581  | 3 828  | 5 128   | 5 948   | 6 063   | 5 130   | 5 130   | 45.00%  |          |        |
| 9            |        |        |        | 1 176  | 1 176  | 1 176  | 1 349  | 2 249  | 2 506  | 4 524   | 4 801   | 5 084   | 5 084   | 5 084   | 40.00%  |          |        |
| 10           |        |        |        |        | 824    | 824    | 945    | 1 574  | 2 960  | 3 331   | 3 539   | 3 539   | 3 539   | 3 539   | 35.00%  |          |        |
| 11           |        |        |        |        |        | 576    | 576    | 661    | 1 789  | 2 391   | 2 462   | 2 514   | 2 514   | 2 514   | 35.00%  |          |        |
| 12           |        |        |        |        |        |        | 404    | 404    | 1 125  | 1 632   | 1 719   | 1 756   | 1 756   | 1 756   | 35.00%  |          |        |
| 13           |        |        |        |        |        |        |        | 282    | 282    | 985     | 1 099   | 1 210   | 1 227   | 1 227   | 32.50%  |          |        |
| 14           |        |        |        |        |        |        |        |        | 198    | 1 530   | 2 459   | 2 754   | 2 754   | 2 850   | 30.00%  |          |        |
| TOTAL        | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 |          |        |

| Weighted Average | Type 1 | 20.00% |        | Probability Claim | 5.00% Average |        | 10.00% |        | Type 2<br>75.00% | Type 3<br>5.00% | 30.00%  | 100.00% |         |         |         |          |         |        |
|------------------|--------|--------|--------|-------------------|---------------|--------|--------|--------|------------------|-----------------|---------|---------|---------|---------|---------|----------|---------|--------|
|                  | Type 2 | 75.00% |        |                   | 10.00%        |        |        |        |                  |                 |         |         |         |         |         |          |         |        |
|                  | Type 3 | 5.00%  |        |                   |               |        |        |        |                  |                 |         |         |         |         |         |          |         |        |
| Class / Year     | 1      | 2      | 3      | 4                 | 5             | 6      | 7      | 8      | 9                | 10              | 11      | 12      | 20      | 30      | 40      | 50 Scale |         |        |
| 1                | 0      | 1 000  | 2 000  | 2 229             | 2 545         | 2 935  | 3 326  | 3 493  | 3 688            | 3 907           | 4 125   | 3 255   | 1 350   | 968     | 902     | 888      | 120.00% |        |
| 2                | 0      | 0      | 875    | 2 521             | 2 712         | 2 978  | 3 371  | 3 988  | 4 137            | 4 316           | 4 538   | 4 848   | 1 592   | 961     | 878     | 859      | 100.00% |        |
| 3                | 10 000 | 10 000 | 10 000 | 10 771            | 12 910        | 13 072 | 13 298 | 13 691 | 14 523           | 14 658          | 4 822   | 5 048   | 1 772   | 1 062   | 917     | 896      | 90.00%  |        |
| 4                | 0      | 9 000  | 9 000  | 9 000             | 9 684         | 12 196 | 12 335 | 12 529 | 12 919           | 13 954          | 14 115  | 5 266   | 2 020   | 1 248   | 1 068   | 1 042    | 80.00%  |        |
| 5                | 0      | 0      | 8 125  | 8 125             | 8 125         | 8 735  | 11 526 | 11 646 | 11 814           | 12 198          | 13 384  | 13 598  | 3 365   | 1 473   | 1 280   | 1 240    | 70.00%  |        |
| 6                | 0      | 0      | 0      | 7 354             | 7 354         | 7 354  | 7 899  | 10 893 | 10 998           | 11 146          | 11 522  | 12 818  | 4 065   | 2 068   | 1 856   | 1 816    | 60.00%  |        |
| 7                | 0      | 0      | 0      | 0                 | 6 670         | 6 670  | 6 670  | 7 160  | 10 295           | 10 784          | 10 915  | 11 283  | 4 732   | 3 305   | 2 921   | 2 880    | 55.00%  |        |
| 8                | 0      | 0      | 0      | 0                 | 0             | 6 060  | 6 060  | 6 060  | 6 501            | 9 329           | 10 130  | 10 571  | 5 962   | 3 996   | 3 630   | 3 575    | 50.00%  |        |
| 9                | 0      | 0      | 0      | 0                 | 0             | 0      | 5 515  | 5 515  | 5 515            | 5 913           | 8 468   | 9 192   | 10 047  | 7 991   | 7 910   | 7 885    | 45.00%  |        |
| 10               | 0      | 0      | 0      | 0                 | 0             | 0      | 0      | 0      | 5 025            | 5 025           | 5 025   | 5 385   | 7 698   | 8 707   | 7 211   | 7 113    | 7 095   | 40.00% |
| 11               | 0      | 0      | 0      | 0                 | 0             | 0      | 0      | 0      | 0                | 4 584           | 4 584   | 4 584   | 4 910   | 7 054   | 6 684   | 6 414    | 6 397   | 37.50% |
| 12               | 0      | 0      | 0      | 0                 | 0             | 0      | 0      | 0      | 0                | 4 186           | 4 186   | 4 186   | 5 870   | 5 976   | 5 797   | 5 776    | 35.00%  |        |
| 13               | 0      | 0      | 0      | 0                 | 0             | 0      | 0      | 0      | 0                | 3 827           | 3 827   | 3 827   | 8 625   | 5 389   | 5 263   | 5 223    | 32.50%  |        |
| 14               | 0      | 0      | 0      | 0                 | 0             | 0      | 0      | 0      | 0                | 0               | 3 501   | 34 820  | 51 667  | 54 052  | 54 427  | 30.00%   |         |        |
| TOTAL            | 10 000 | 20 000 | 30 000 | 40 000            | 50 000        | 60 000 | 70 000 | 80 000 | 90 000           | 100 000         | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | Av Prem  |         |        |

## BONUS/MALUS SYSTEM MODEL - Dutch

Probability Claim 5.00%

UNITS OF STANDARD PREMIUM

| Class / Year | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1            | 0      | 600    | 1 200  | 1 259  | 1 344  | 1 455  | 1 567  | 1 585  | 1 608  | 1 636  | 1 663  | 1 070  | 68     | 9      | 7      | 7      |
| 2            | 0      | 0      | 475    | 1 401  | 1 448  | 1 515  | 1 624  | 1 810  | 1 826  | 1 847  | 1 876  | 1 923  | 127    | 16     | 12     | 11     |
| 3            | 9 000  | 9 000  | 9 000  | 9 406  | 10 384 | 10 623 | 10 681 | 10 792 | 11 051 | 11 066 | 2 087  | 2 119  | 184    | 35     | 26     | 26     |
| 4            | 0      | 7 600  | 7 600  | 7 600  | 7 943  | 9 263  | 9 297  | 9 346  | 9 453  | 9 771  | 9 799  | 2 218  | 251    | 67     | 54     | 54     |
| 5            | 0      | 0      | 6 318  | 6 318  | 6 318  | 6 603  | 7 971  | 7 999  | 8 039  | 8 141  | 8 487  | 8 533  | 651    | 104    | 86     | 85     |
| 6            | 0      | 0      | 5 144  | 5 144  | 5 144  | 5 376  | 6 711  | 6 734  | 6 767  | 6 860  | 7 208  | 819    | 239    | 217    | 216    | 216    |
| 7            | 0      | 0      | 0      | 0      | 4 480  | 4 480  | 4 480  | 4 682  | 6 036  | 6 238  | 6 267  | 6 357  | 1 035  | 483    | 438    | 436    |
| 8            | 0      | 0      | 0      | 0      | 0      | 3 869  | 3 869  | 3 869  | 4 043  | 5 213  | 5 545  | 5 720  | 1 557  | 638    | 583    | 580    |
| 9            | 0      | 0      | 0      | 0      | 0      | 0      | 3 308  | 3 308  | 3 308  | 3 457  | 4 457  | 4 741  | 3 355  | 2 228  | 2 195  | 2 193  |
| 10           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 793  | 2 793  | 2 793  | 2 919  | 3 764  | 2 765  | 1 890  | 1 854  | 1 852  |
| 11           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 488  | 2 488  | 2 488  | 2 600  | 2 265  | 1 715  | 1 652  | 1 649  |
| 12           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 206  | 2 206  | 2 206  | 1 863  | 1 520  | 1 465  | 1 462  |
| 13           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 946  | 1 946  | 3 442  | 1 357  | 1 294  | 1 290  |
| 14           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 706  | 16 705 | 22 314 | 22 606 | 22 621 |
|              | 9 000  | 17 200 | 24 593 | 31 128 | 37 260 | 42 953 | 48 173 | 52 894 | 57 380 | 61 624 | 56 601 | 52 111 | 35 089 | 32 618 | 32 489 | 32 483 |
|              | 90.00% | 86.00% | 81.98% | 77.82% | 74.52% | 71.59% | 68.82% | 66.12% | 63.76% | 61.62% | 56.60% | 52.11% | 35.09% | 32.62% | 32.49% | 32.48% |

Probability Claim 10.00%

| Class / Year   | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1              | 0      | 1 200  | 2 400  | 2 628  | 2 953  | 3 366  | 3 779  | 3 908  | 4 065  | 4 248  | 4 432  | 3 306  | 752    | 257    | 183    | 170    |
| 2              | 0      | 0      | 900    | 2 610  | 2 781  | 3 025  | 3 400  | 4 011  | 4 121  | 4 257  | 4 436  | 4 705  | 1 058  | 338    | 245    | 228    |
| 3              | 9 000  | 9 000  | 9 000  | 9 729  | 11 770 | 11 909 | 12 106 | 12 463 | 13 251 | 13 349 | 4 474  | 4 657  | 1 295  | 518    | 367    | 347    |
| 4              | 0      | 7 200  | 7 200  | 7 200  | 7 783  | 9 941  | 10 052 | 10 210 | 10 538 | 11 440 | 11 562 | 4 473  | 1 509  | 729    | 554    | 529    |
| 5              | 0      | 0      | 5 670  | 5 670  | 5 670  | 6 129  | 8 242  | 8 329  | 8 454  | 8 746  | 9 670  | 9 826  | 2 491  | 912    | 735    | 701    |
| 6              | 0      | 0      | 0      | 4 374  | 4 374  | 4 374  | 4 728  | 6 677  | 6 744  | 6 840  | 7 091  | 7 970  | 2 698  | 1 273  | 1 105  | 1 074  |
| 7              | 0      | 0      | 0      | 0      | 3 609  | 3 609  | 3 609  | 3 901  | 5 772  | 6 064  | 6 143  | 6 371  | 2 966  | 2 022  | 1 754  | 1 722  |
| 8              | 0      | 0      | 0      | 0      | 0      | 2 952  | 2 952  | 2 952  | 3 192  | 4 722  | 5 155  | 5 394  | 3 389  | 2 296  | 2 062  | 2 024  |
| 9              | 0      | 0      | 0      | 0      | 0      | 0      | 2 391  | 2 391  | 2 391  | 2 585  | 3 825  | 4 176  | 4 998  | 4 056  | 4 008  | 3 992  |
| 10             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 913  | 1 913  | 1 913  | 2 068  | 3 060  | 3 827  | 3 253  | 3 205  | 3 194  |
| 11             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 614  | 1 614  | 1 614  | 1 745  | 2 878  | 2 825  | 2 705  | 2 696  |
| 12             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 356  | 1 356  | 1 356  | 2 216  | 2 346  | 2 274  | 2 265  |
| 13             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 133  | 1 133  | 2 798  | 1 949  | 1 909  | 1 893  |
| 14             | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 941    | 9 443  | 14 667 | 15 537 | 15 681 |
|                | 9 000  | 17 400 | 25 170 | 32 211 | 38 940 | 45 305 | 51 259 | 56 756 | 62 055 | 67 135 | 62 959 | 59 114 | 42 317 | 37 440 | 36 644 | 36 517 |
| Frequency = 10 | 90.00% | 87.00% | 83.90% | 80.53% | 77.88% | 75.51% | 73.23% | 70.95% | 68.95% | 67.13% | 62.96% | 59.11% | 42.32% | 37.44% | 36.64% | 36.52% |
| Frequency = 5% | 90.00% | 86.00% | 81.98% | 77.82% | 74.52% | 71.59% | 68.82% | 66.12% | 63.76% | 61.62% | 56.60% | 52.11% | 35.09% | 32.62% | 32.49% | 32.48% |

## BONUS/MALUS SYSTEM MODEL - Dutch

Probability Claim 30.00%

UNITS OF STANDARD PREMIUM

Class / Year

|    | 1     | 2     | 3     | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |
|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1  | 0     | 3 600 | 7 200 | 9 036  | 11 401 | 14 137 | 16 872 | 18 882 | 21 109 | 23 489 | 25 869 | 24 257 | 20 841 | 19 348 | 18 882 | 18 730 |
| 2  | 0     | 0     | 2 100 | 5 670  | 6 741  | 8 121  | 9 933  | 12 350 | 13 632 | 15 073 | 16 715 | 18 683 | 15 465 | 14 091 | 13 835 | 13 718 |
| 3  | 9 000 | 9 000 | 9 000 | 10 323 | 13 498 | 14 173 | 15 042 | 16 320 | 18 455 | 19 332 | 11 330 | 12 537 | 11 735 | 11 209 | 10 882 | 10 825 |
| 4  | 0     | 5 600 | 5 600 | 6 423  | 8 975  | 9 395  | 9 936  | 10 815 | 12 585 | 13 215 | 8 291  | 8 674  | 8 760  | 8 553  | 8 527  |        |
| 5  | 0     | 0     | 3 430 | 3 430  | 3 430  | 3 934  | 5 850  | 6 107  | 6 439  | 7 029  | 8 383  | 8 846  | 7 145  | 6 528  | 6 548  | 6 504  |
| 6  | 0     | 0     | 0     | 2 058  | 2 058  | 2 361  | 3 722  | 3 876  | 4 075  | 4 460  | 5 434  | 5 037  | 4 759  | 4 833  | 4 826  |        |
| 7  | 0     | 0     | 0     | 0      | 1 321  | 1 321  | 1 515  | 2 524  | 2 718  | 2 846  | 3 113  | 3 644  | 4 104  | 4 074  | 4 108  |        |
| 8  | 0     | 0     | 0     | 0      | 0      | 840    | 840    | 840    | 964    | 1 606  | 1 790  | 1 914  | 2 564  | 2 974  | 3 031  | 3 059  |
| 9  | 0     | 0     | 0     | 0      | 0      | 0      | 529    | 529    | 529    | 607    | 1 012  | 1 128  | 2 036  | 2 161  | 2 288  | 2 309  |
| 10 | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 329    | 329    | 329    | 378    | 630    | 1 192  | 1 332  | 1 416  | 1 436  |
| 11 | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 216    | 216    | 216    | 248    | 671    | 897    | 923    | 943    |
| 12 | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 141    | 141    | 141    | 394    | 571    | 602    | 615    |
| 13 | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 92     | 92     | 320    | 357    | 393    | 399    |
| 14 | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 59     | 459    | 738    | 826    | 855    |

|                |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency = 30 | 9 000  | 18 200 | 27 330 | 36 117 | 44 872 | 53 559 | 62 143 | 70 530 | 78 890 | 87 202 | 86 447 | 85 374 | 80 175 | 77 829 | 77 086 | 76 852 |
| Frequency = 10 | 90.00% | 91.00% | 91.10% | 90.29% | 89.74% | 89.26% | 88.78% | 88.16% | 87.66% | 87.20% | 86.45% | 85.37% | 80.18% | 77.83% | 77.09% | 76.85% |
| Frequency = 5% | 90.00% | 87.00% | 83.90% | 80.53% | 77.88% | 75.51% | 73.23% | 70.95% | 68.95% | 67.13% | 62.96% | 59.11% | 42.32% | 37.44% | 36.64% | 36.52% |

Weighted Average

Class / Year

|    | 1     | 2     | 3     | 4     | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12    | 20     | 30     | 40     | 50     |
|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| 1  | 0     | 1 200 | 2 400 | 2 675 | 3 054  | 3 522  | 3 991  | 4 192  | 4 426  | 4 688  | 4 950  | 3 906 | 1 620  | 1 162  | 1 082  | 1 066  |
| 2  | 0     | 0     | 875   | 2 521 | 2 712  | 2 978  | 3 371  | 3 988  | 4 137  | 4 316  | 4 538  | 4 848 | 1 592  | 961    | 878    | 859    |
| 3  | 9 000 | 9 000 | 9 000 | 9 694 | 11 619 | 11 765 | 11 968 | 12 322 | 13 071 | 13 192 | 4 339  | 4 543 | 1 595  | 956    | 825    | 807    |
| 4  | 0     | 7 200 | 7 200 | 7 200 | 7 747  | 9 757  | 9 868  | 10 023 | 10 335 | 11 163 | 11 292 | 4 213 | 1 616  | 998    | 854    | 834    |
| 5  | 0     | 0     | 5 688 | 5 688 | 5 688  | 6 114  | 8 068  | 8 152  | 8 270  | 8 539  | 9 369  | 9 519 | 2 355  | 1 031  | 896    | 868    |
| 6  | 0     | 0     | 0     | 4 412 | 4 412  | 4 412  | 4 740  | 6 536  | 6 599  | 6 687  | 6 913  | 7 691 | 2 439  | 1 241  | 1 114  | 1 090  |
| 7  | 0     | 0     | 0     | 0     | 3 668  | 3 668  | 3 668  | 3 938  | 5 662  | 5 931  | 6 003  | 6 206 | 2 614  | 1 818  | 1 607  | 1 584  |
| 8  | 0     | 0     | 0     | 0     | 0      | 3 030  | 3 030  | 3 030  | 3 251  | 4 665  | 5 065  | 5 285 | 2 981  | 1 998  | 1 815  | 1 787  |
| 9  | 0     | 0     | 0     | 0     | 0      | 0      | 2 482  | 2 482  | 2 482  | 2 661  | 3 811  | 4 136 | 4 521  | 3 596  | 3 559  | 3 548  |
| 10 | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 2 010  | 2 010  | 2 010  | 2 154  | 3 079 | 3 483  | 2 885  | 2 845  | 2 838  |
| 11 | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 1 719  | 1 719  | 1 719  | 1 841 | 2 645  | 2 506  | 2 405  | 2 399  |
| 12 | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 1 465  | 1 465  | 1 465 | 2 054  | 2 092  | 2 029  | 2 022  |
| 13 | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 1 244  | 1 244  | 1 244 | 2 803  | 1 751  | 1 710  | 1 698  |
| 14 | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 050 | 10 446 | 15 500 | 16 216 | 16 328 |

|      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 204% | 9 000 | 17 400 | 25 163 | 32 190 | 38 901 | 45 247 | 51 186 | 56 673 | 61 962 | 67 036 | 62 862 | 59 026 | 42 764 | 38 495 | 37 835 | 37 727 |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

## BONUS/MALUS SYSTEM MODEL - Dutch

## CALCULATION OF IMPLICIT EXCESS OR DEDUCTIBLE

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL   | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|---------|---------|------|
| Claims ?     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         | Premium | Paid |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 0       | 120.00% | 0.00 |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 0       | 100.00% | 0.00 |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 0       | 90.00%  | 0.00 |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 0       | 80.00%  | 0.00 |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 0       | 70.00%  | 0.00 |
| 6            |   |   |   |   |   |   |   |   |   |   |    | 0       | 60.00%  | 0.00 |
| 7            |   |   |   |   |   |   |   |   |   |   |    | 0       | 55.00%  | 0.00 |
| 8            |   |   |   |   |   |   |   |   |   |   |    | 0       | 50.00%  | 0.00 |
| 9            |   |   |   |   |   |   |   |   |   |   |    | 0       | 45.00%  | 0.00 |
| 10           | 1 |   |   |   |   |   |   |   |   |   |    | 0       | 40.00%  | 0.00 |
| 11           |   | 1 |   |   |   |   |   |   |   |   |    | 1       | 37.50%  | 0.38 |
| 12           |   |   | 1 |   |   |   |   |   |   |   |    | 1       | 35.00%  | 0.35 |
| 13           |   |   |   | 1 |   |   |   |   |   |   |    | 1       | 32.50%  | 0.33 |
| 14           |   |   |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 7       | 30.00%  | 2.10 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 10      | TOTAL   | 3.15 |
|              |   |   |   |   |   |   |   |   |   |   |    | Average | 0.32    |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL   | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|---------|---------|------|
| Claims ?     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         | Premium | Paid |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 1       | 120.00% | 0.00 |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 2       | 100.00% | 0.00 |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 3       | 90.00%  | 0.00 |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 4       | 80.00%  | 0.00 |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 5       | 70.00%  | 0.70 |
| 6            |   |   |   |   |   |   |   |   |   |   |    | 6       | 60.00%  | 0.60 |
| 7            |   |   |   |   |   |   |   |   |   |   |    | 7       | 55.00%  | 0.55 |
| 8            |   |   |   |   |   |   |   |   |   |   |    | 8       | 50.00%  | 0.50 |
| 9            |   |   |   |   |   |   |   |   |   |   |    | 9       | 45.00%  | 0.45 |
| 10           |   |   |   |   |   |   |   |   |   |   |    | 10      | 40.00%  | 0.40 |
| 11           |   |   |   |   |   |   |   |   |   |   |    | 11      | 37.50%  | 0.38 |
| 12           |   |   |   |   |   |   |   |   |   |   |    | 12      | 35.00%  | 0.35 |
| 13           |   |   |   |   |   |   |   |   |   |   |    | 13      | 32.50%  | 0.33 |
| 14           |   |   |   |   |   |   |   |   |   |   |    | 14      | 30.00%  | 0.30 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 10      | TOTAL   | 4.55 |
|              |   |   |   |   |   |   |   |   |   |   |    | Average | 0.46    |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL   | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|---------|---------|------|
| Claims ?     | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         | Premium | Paid |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 0       | 120.00% | 0.00 |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 0       | 100.00% | 0.00 |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 0       | 90.00%  | 0.90 |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 0       | 80.00%  | 0.80 |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 0       | 70.00%  | 0.70 |
| 6            |   |   |   |   |   |   |   |   |   |   |    | 0       | 60.00%  | 0.60 |
| 7            |   | 1 |   |   |   |   |   |   |   |   |    | 1       | 55.00%  | 0.55 |
| 8            |   |   | 1 |   |   |   |   |   |   |   |    | 1       | 50.00%  | 0.50 |
| 9            |   |   |   | 1 |   |   |   |   |   |   |    | 1       | 45.00%  | 0.45 |
| 10           | 1 |   |   |   | 1 |   |   |   |   |   |    | 1       | 40.00%  | 0.40 |
| 11           |   |   |   |   |   | 1 |   |   |   |   |    | 1       | 37.50%  | 0.38 |
| 12           |   |   |   |   |   |   | 1 |   |   |   |    | 1       | 35.00%  | 0.35 |
| 13           |   |   |   |   |   |   |   | 1 |   |   |    | 1       | 32.50%  | 0.33 |
| 14           |   |   |   |   |   |   |   |   | 1 |   |    | 3       | 30.00%  | 0.90 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 10      | TOTAL   | 3.85 |
|              |   |   |   |   |   |   |   |   |   |   |    | Average | 0.39    |      |
|              |   |   |   |   |   |   |   |   |   |   |    | Excess  | 0.70    |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL   | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|---------|---------|------|
| Claims ?     | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         | Premium | Paid |
| 1            |   |   |   |   |   |   |   |   |   |   |    | 1       | 120.00% | 1.20 |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 2       | 100.00% | 1.00 |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 3       | 90.00%  | 0.90 |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 4       | 80.00%  | 0.80 |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 5       | 70.00%  | 0.70 |
| 6            |   |   |   |   |   |   |   |   |   |   |    | 6       | 60.00%  | 0.60 |
| 7            |   |   |   |   |   |   |   |   |   |   |    | 7       | 55.00%  | 0.55 |
| 8            |   |   |   |   |   |   |   |   |   |   |    | 8       | 50.00%  | 0.50 |
| 9            |   |   |   |   |   |   |   |   |   |   |    | 9       | 45.00%  | 0.45 |
| 10           |   |   |   |   |   |   |   |   |   |   |    | 10      | 40.00%  | 0.40 |
| 11           |   |   |   |   |   |   |   |   |   |   |    | 11      | 37.50%  | 0.00 |
| 12           |   |   |   |   |   |   |   |   |   |   |    | 12      | 35.00%  | 0.00 |
| 13           |   |   |   |   |   |   |   |   |   |   |    | 13      | 32.50%  | 0.00 |
| 14           |   |   |   |   |   |   |   |   |   |   |    | 14      | 30.00%  | 0.00 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 10      | TOTAL   | 7.10 |
|              |   |   |   |   |   |   |   |   |   |   |    | Average | 0.71    |      |
|              |   |   |   |   |   |   |   |   |   |   |    | Excess  | 2.55    |      |

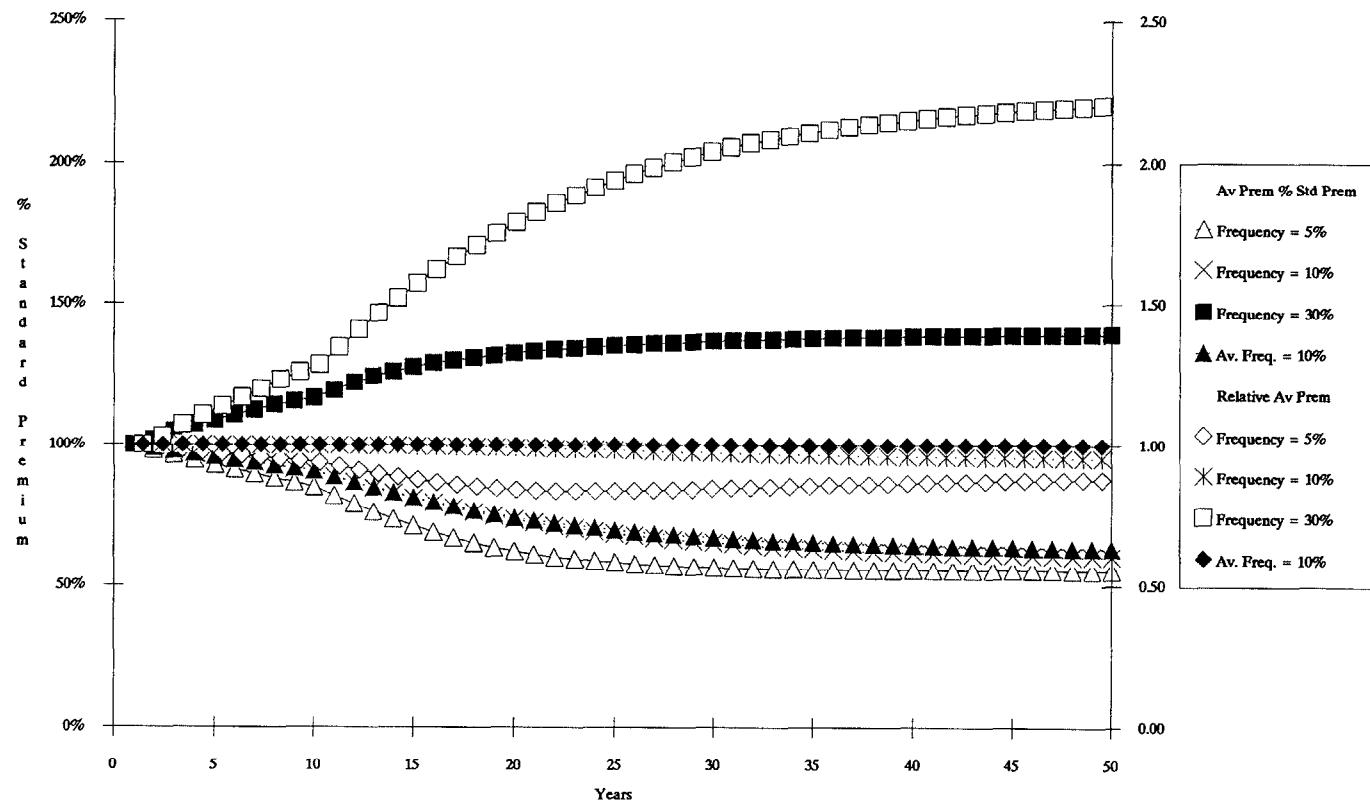
## BONUS/MALUS SYSTEM MODEL - Dutch

## TEST OF FAIRNESS TO INDIVIDUAL INSUREDS

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | % Std   | Prem    | Class / Year | 0  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10    | TOTAL | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|-------|---------|---------|--------------|----|---|---|---|---|---|---|---|---|---|-------|-------|---------|------|
| Claim?       | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0  |       | Premium | Paid    | Claim?       | 1  | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0     |       | Premium | Paid |
| 1            |   |   |   |   |   |   |   |   |   |   |    |       | 0       | 120.00% | 0.00         | 1  |   |   |   |   |   |   |   |   |   |       | 1     | 120.00% | 1.20 |
| 2            |   |   |   |   |   |   |   |   |   |   |    |       | 0       | 100.00% | 0.00         | 2  |   |   |   |   |   |   |   |   |   |       | 1     | 100.00% | 1.00 |
| 3            |   |   |   |   |   |   |   |   |   |   |    |       | 0       | 90.00%  | 0.00         | 3  |   |   |   |   |   |   |   |   |   |       | 1     | 90.00%  | 0.90 |
| 4            |   |   |   |   |   |   |   |   |   |   |    |       | 0       | 80.00%  | 0.00         | 4  |   |   |   |   |   |   |   |   |   |       | 2     | 80.00%  | 1.60 |
| 5            |   |   |   |   |   |   |   |   |   |   |    |       | 1       | 70.00%  | 0.70         | 5  |   |   |   |   |   |   |   |   |   |       | 1     | 70.00%  | 0.70 |
| 6            |   |   |   |   |   |   |   |   |   |   |    |       | 2       | 60.00%  | 1.20         | 6  |   |   |   |   |   |   |   |   |   |       | 1     | 60.00%  | 0.60 |
| 7            |   |   |   |   |   |   |   |   |   |   |    |       | 3       | 55.00%  | 1.65         | 7  |   |   |   |   |   |   |   |   |   |       | 2     | 55.00%  | 1.10 |
| 8            |   |   |   |   |   |   |   |   |   |   |    |       | 2       | 50.00%  | 1.00         | 8  |   |   |   |   |   |   |   |   |   |       | 1     | 50.00%  | 0.50 |
| 9            |   |   |   |   |   |   |   |   |   |   |    |       | 1       | 45.00%  | 0.45         | 9  |   |   |   |   |   |   |   |   |   |       | 0     | 45.00%  | 0.00 |
| 10           |   |   |   |   |   |   |   |   |   |   |    |       | 0       | 40.00%  | 0.00         | 10 |   |   |   |   |   |   |   |   |   |       | 0     | 40.00%  | 0.00 |
| 11           |   |   |   |   |   |   |   |   |   |   |    |       | 1       | 37.50%  | 0.38         | 11 |   |   |   |   |   |   |   |   |   |       | 0     | 37.50%  | 0.00 |
| 12           |   |   |   |   |   |   |   |   |   |   |    |       | 0       | 35.00%  | 0.00         | 12 |   |   |   |   |   |   |   |   |   |       | 0     | 35.00%  | 0.00 |
| 13           |   |   |   |   |   |   |   |   |   |   |    |       | 0       | 32.50%  | 0.00         | 13 |   |   |   |   |   |   |   |   |   |       | 0     | 32.50%  | 0.00 |
| 14           |   |   |   |   |   |   |   |   |   |   |    |       | 0       | 30.00%  | 0.00         | 14 |   |   |   |   |   |   |   |   |   |       | 0     | 30.00%  | 0.00 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |       | TOTAL   | 5.38    | TOTAL        | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | TOTAL | 7.60  |         |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | % Std | Pre     | Premium | Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9     | 10     | TOTAL   | % Std | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|-------|-------|---------|---------|--------------|---|---|---|---|---|---|---|---|---|-------|--------|---------|-------|------|
| Claim?       | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0  |       | 0     | 120.00% | 0.00    | 1            | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |       | 0      | 120.00% | 0.00  |      |
| 1            |   |   |   |   |   |   |   |   |   |   |    |       | 0     | 100.00% | 0.00    | 2            |   |   |   |   |   |   |   |   |   |       | 0      | 100.00% | 0.00  |      |
| 2            |   |   |   |   |   |   |   |   |   |   |    |       | 0     | 90.00%  | 0.00    | 3            |   |   |   |   |   |   |   |   |   |       | 1      | 90.00%  | 0.90  |      |
| 3            |   |   |   |   |   |   |   |   |   |   |    |       | 0     | 80.00%  | 0.00    | 4            |   |   |   |   |   |   |   |   |   |       | 0      | 80.00%  | 0.00  |      |
| 4            |   |   |   |   |   |   |   |   |   |   |    |       | 0     | 70.00%  | 0.00    | 5            |   |   |   |   |   |   |   |   |   |       | 0      | 70.00%  | 0.00  |      |
| 5            |   |   |   |   |   |   |   |   |   |   |    |       | 0     | 60.00%  | 0.00    | 6            |   |   |   |   |   |   |   |   |   |       | 1      | 60.00%  | 0.60  |      |
| 6            |   |   |   |   |   |   |   |   |   |   |    |       | 3     | 55.00%  | 1.65    | 7            |   |   |   |   |   |   |   |   |   | 0     | 55.00% | 0.00    |       |      |
| 7            |   |   |   |   |   |   |   |   |   |   |    |       | 3     | 50.00%  | 1.50    | 8            |   |   |   |   |   |   |   |   |   | 0     | 50.00% | 0.00    |       |      |
| 8            |   |   |   |   |   |   |   |   |   |   |    |       | 2     | 45.00%  | 0.90    | 9            |   |   |   |   |   |   |   |   |   | 1     | 45.00% | 0.45    |       |      |
| 9            |   |   |   |   |   |   |   |   |   |   |    |       | 2     | 40.00%  | 0.80    | 10           |   |   |   |   |   |   |   |   |   | 0     | 40.00% | 0.00    |       |      |
| 10           |   |   |   |   |   |   |   |   |   |   |    |       | 0     | 37.50%  | 0.00    | 11           |   |   |   |   |   |   |   |   |   | 1     | 37.50% | 0.38    |       |      |
| 11           |   |   |   |   |   |   |   |   |   |   |    |       | 0     | 35.00%  | 0.00    | 12           |   |   |   |   |   |   |   |   |   | 1     | 35.00% | 0.35    |       |      |
| 12           |   |   |   |   |   |   |   |   |   |   |    |       | 0     | 32.50%  | 0.00    | 13           |   |   |   |   |   |   |   |   |   | 1     | 32.50% | 0.33    |       |      |
| 13           |   |   |   |   |   |   |   |   |   |   |    |       | 0     | 30.00%  | 0.00    | 14           |   |   |   |   |   |   |   |   |   | 4     | 30.00% | 1.20    |       |      |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |       | TOTAL | 4.85    | TOTAL   | 1            | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | TOTAL | 4.20   |         |       |      |

BONUS/MALUS SYSTEM MODEL - Belgian - New



## BONUS/MALUS SYSTEM MODEL - Belgian - New

## Probability Claim

5.00%

## NUMBERS OF INSURED

Premium

| Class / Year  | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50      | Scale   |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| NEW ENTRANTS: | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0       | 0       | 100.00% |
| 1             |        | 25     | 26     | 30     | 37     | 48     | 65     | 66     | 69     | 73      | 79      | 26      | 5       | 1       | 0       | 200.00% |         |
| 2             |        | 0      | 71     | 72     | 76     | 83     | 93     | 129    | 131    | 134     | 138     | 40      | 7       | 2       | 1       | 160.00% |         |
| 3             |        | 0      | 0      | 135    | 137    | 140    | 146    | 156    | 216    | 218     | 221     | 55      | 10      | 2       | 1       | 140.00% |         |
| 4             |        | 0      | 0      | 0      | 214    | 215    | 219    | 225    | 234    | 322     | 324     | 145     | 25      | 5       | 2       | 130.00% |         |
| 5             | 500    | 500    | 500    | 500    | 500    | 805    | 806    | 809    | 815    | 824     | 445     | 198     | 36      | 8       | 3       | 123.00% |         |
| 6             | 0      | 950    | 950    | 950    | 950    | 950    | 1 356  | 1 357  | 1 360  | 1 365   | 1 374   | 253     | 47      | 11      | 5       | 117.00% |         |
| 7             | 0      | 0      | 1 354  | 1 354  | 1 354  | 1 354  | 1 354  | 1 868  | 1 872  | 1 877   | 311     | 60      | 16      | 8       | 8       | 111.00% |         |
| 8             | 0      | 0      | 0      | 1 715  | 1 715  | 1 715  | 1 715  | 1 715  | 2 343  | 2 344   | 2 347   | 375     | 75      | 22      | 13      | 105.00% |         |
| 9             | 10 000 | 10 000 | 10 000 | 10 000 | 12 036 | 12 036 | 12 036 | 12 036 | 12 036 | 2 783   | 2 783   | 1 071   | 189     | 47      | 23      | 100.00% |         |
| 10            | 9 500  | 9 500  | 9 500  | 9 500  | 9 500  | 11 821 | 11 821 | 11 821 | 11 821 | 11 821  | 3 188   | 1 238   | 236     | 70      | 42      | 95.00%  |         |
| 11            | 9 025  | 9 025  | 9 025  | 9 025  | 9 025  | 11 598 | 11 598 | 11 598 | 11 598 | 11 598  | 1 121   | 1 412   | 289     | 101     | 70      | 90.00%  |         |
| 12            | 8 574  | 8 574  | 8 574  | 8 574  | 8 574  | 11 367 | 11 367 | 11 367 | 11 367 | 11 367  | 1 586   | 344     | 140     | 106     | 85.00%  |         |         |
| 13            | 8 145  | 8 145  | 8 145  | 8 145  | 8 145  | 8 145  | 8 145  | 11 130 | 11 130 | 11 130  | 1 759   | 401     | 184     | 149     | 81.00%  |         |         |
| 14            | 7 738  | 7 738  | 7 738  | 7 738  | 7 738  | 7 738  | 7 738  | 10 889 | 10 889 | 10 889  | 4 556   | 1 085   | 497     | 397     | 77.00%  |         |         |
| 15            |        |        |        |        | 7 351  | 7 351  | 7 351  | 7 351  | 7 351  | 7 351   | 10 644  | 4 816   | 1 297   | 707     | 608     | 73.00%  |         |
| 16            |        |        |        |        | 6 983  | 6 983  | 6 983  | 6 983  | 6 983  | 6 983   | 6 983   | 5 020   | 1 465   | 891     | 796     | 69.00%  |         |
| 17            |        |        |        |        | 6 634  | 6 634  | 6 634  | 6 634  | 6 634  | 6 634   | 6 634   | 5 172   | 1 595   | 1 051   | 964     | 66.00%  |         |
| 18            |        |        |        |        | 6 302  | 6 302  | 6 302  | 6 302  | 6 302  | 6 302   | 6 302   | 6 380   | 5 012   | 4 870   | 4 850   | 63.00%  |         |
| 19            |        |        |        |        | 5 987  | 5 987  | 5 987  | 5 987  | 5 987  | 5 987   | 5 987   | 10 260  | 5 851   | 4 824   | 4 642   | 60.00%  |         |
| 20            |        |        |        |        | 5 688  | 5 688  | 5 688  | 5 688  | 5 688  | 5 688   | 5 688   | 9 559   | 5 361   | 4 540   | 4 402   | 57.00%  |         |
| 21            |        |        |        |        | 8 892  | 8 892  | 8 892  | 8 892  | 8 892  | 8 892   | 8 892   | 4 913   | 4 275   | 4 175   | 54.00%  |         |         |
| 22            |        |        |        |        |        |        |        |        |        |         |         | 36 877  | 71 698  | 77 736  | 78 744  | 54.00%  |         |
| TOTAL         | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 |         |

| Class / Year | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50      | Scale   |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| NEW ENTRANTS | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0       | 0       | 100.00% |
| 1            |        | 100    | 110    | 138    | 190    | 272    | 386    | 412    | 449    | 500     | 565     | 433     | 221     | 117     | 71      | 200.00% |         |
| 2            |        | 0      | 270    | 279    | 304    | 351    | 425    | 651    | 675    | 711     | 759     | 557     | 289     | 155     | 94      | 160.00% |         |
| 3            |        | 0      | 0      | 486    | 494    | 517    | 559    | 625    | 978    | 1 000   | 1 033   | 681     | 359     | 196     | 121     | 140.00% |         |
| 4            |        | 0      | 0      | 0      | 729    | 736    | 757    | 795    | 854    | 1 344   | 1 364   | 1 097   | 541     | 286     | 173     | 130.00% |         |
| 5            | 1 000  | 1 000  | 1 000  | 1 000  | 1 000  | 1 984  | 1 991  | 2 009  | 2 043  | 2 097   | 1 731   | 1 330   | 668     | 359     | 222     | 123.00% |         |
| 6            | 0      | 1 800  | 1 800  | 1 800  | 1 800  | 1 800  | 3 040  | 3 046  | 3 062  | 3 093   | 3 141   | 1 555   | 796     | 440     | 280     | 117.00% |         |
| 7            | 0      | 0      | 2 430  | 2 430  | 2 430  | 2 430  | 2 430  | 3 918  | 3 923  | 3 938   | 3 966   | 1 778   | 925     | 528     | 351     | 111.00% |         |
| 8            | 0      | 0      | 0      | 2 916  | 2 916  | 2 916  | 2 916  | 2 916  | 4 638  | 4 643   | 4 656   | 2 001   | 1 053   | 624     | 433     | 105.00% |         |
| 9            | 10 000 | 10 000 | 10 000 | 10 000 | 13 281 | 13 281 | 13 281 | 13 281 | 13 281 | 5 218   | 5 222   | 3 362   | 1 631   | 919     | 611     | 100.00% |         |
| 10           | 9 000  | 9 000  | 9 000  | 9 000  | 12 543 | 12 543 | 12 543 | 12 543 | 12 543 | 5 674   | 3 647   | 1 848   | 1 101   | 777     | 93.00%  |         |         |
| 11           | 8 100  | 8 100  | 8 100  | 8 100  | 11 820 | 11 820 | 11 820 | 11 820 | 11 820 | 11 820  | 3 917   | 2 059   | 1 301   | 974     | 90.00%  |         |         |
| 12           | 7 290  | 7 290  | 7 290  | 7 290  | 7 290  | 7 290  | 11 116 | 11 116 | 11 116 | 11 116  | 11 116  | 4 159   | 2 251   | 1 502   | 1 184   | 85.00%  |         |
| 13           |        | 6 561  | 6 561  | 6 561  | 6 561  | 6 561  | 10 435 | 10 435 | 10 435 | 4 363   | 2 415   | 1 694   | 1 397   | 81.00%  |         |         |         |
| 14           |        |        | 5 905  | 5 905  | 5 905  | 5 905  | 5 905  | 9 779  | 9 779  | 6 665   | 3 867   | 2 748   | 2 270   | 77.00%  |         |         |         |
| 15           |        |        |        | 5 314  | 5 314  | 5 314  | 5 314  | 5 314  | 5 314  | 5 314   | 6 690   | 4 168   | 3 194   | 2 786   | 73.00%  |         |         |
| 16           |        |        |        | 4 783  | 4 783  | 4 783  | 4 783  | 4 783  | 4 783  | 4 783   | 6 618   | 4 315   | 3 492   | 3 162   | 69.00%  |         |         |
| 17           |        |        |        |        | 4 305  | 4 305  | 4 305  | 4 305  | 4 305  | 4 305   | 4 305   | 4 644   | 4 342   | 3 673   | 3 423   | 66.00%  |         |
| 18           |        |        |        |        | 3 874  | 3 874  | 3 874  | 3 874  | 3 874  | 7 180   | 7 180   | 7 678   | 8 097   | 8 306   | 63.00%  |         |         |
| 19           |        |        |        |        |        | 3 487  | 3 487  | 3 487  | 3 487  | 3 487   | 7 398   | 7 858   | 7 753   | 7 686   | 60.00%  |         |         |
| 20           |        |        |        |        |        |        | 3 138  | 3 138  | 3 138  | 6 523   | 6 799   | 6 826   | 6 847   | 6 847   | 54.00%  |         |         |
| 21           |        |        |        |        |        |        |        |        |        | 5 735   | 5 874   | 6 013   | 6 102   | 6 102   | 54.00%  |         |         |
| 22           |        |        |        |        |        |        |        |        |        | 17 847  | 40 043  | 48 982  | 52 730  | 52 730  | 54.00%  |         |         |
| TOTAL        | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 |         |         |

## BONUS/MALUS SYSTEM MODEL - Belgian - New

Probability Claim 30.00%

NUMBERS OF INSURED'S

| Class / Year<br>NEW ENTRANTS | 1                | 2                | 3               | 4                           | 5                 | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50      | Scale   |         |        |
|------------------------------|------------------|------------------|-----------------|-----------------------------|-------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
|                              | 10 000           | 10 000           | 10 000          | 10 000                      | 10 000            | 10 000 | 10 000 | 10 000 | 10 000 | 10 000  | 0       | 0       | 0       | 0       | 0       | 0       | 100.00% |         |        |
| 1                            | 900              | 1 170            | 1 818           | 2 863                       | 4 278             | 6 018  | 7 077  | 8 408  | 9 977  | 11 746  | 17 513  | 19 335  | 19 951  | 20 243  | 20 443  | 200.00% |         |         |        |
| 2                            | 0                | 1 890            | 2 079           | 2 533                       | 3 264             | 4 255  | 6 425  | 7 180  | 8 145  | 9 296   | 13 764  | 15 317  | 15 851  | 16 091  | 16 233  | 160.00% |         |         |        |
| 3                            | 0                | 0                | 2 646           | 2 778                       | 3 096             | 3 608  | 4 301  | 6 710  | 7 248  | 7 946   | 10 769  | 12 079  | 12 555  | 12 773  | 140.00% |         |         |         |        |
| 4                            | 0                | 0                | 0               | 3 087                       | 3 180             | 3 402  | 3 760  | 4 246  | 6 732  | 7 116   | 9 578   | 10 003  | 10 173  | 10 256  | 130.00% |         |         |         |        |
| 5                            | 3 000            | 3 000            | 3 000           | 3 000                       | 3 000             | 6 241  | 6 306  | 6 462  | 6 713  | 7 052   | 6 494   | 7 812   | 8 022   | 8 123   | 8 174   | 123.00% |         |         |        |
| 6                            | 0                | 4 200            | 4 200           | 4 200                       | 4 200             | 4 200  | 7 377  | 7 422  | 7 531  | 7 706   | 7 944   | 6 355   | 6 407   | 6 470   | 6 507   | 117.00% |         |         |        |
| 7                            | 0                | 0                | 4 410           | 4 410                       | 4 410             | 4 410  | 4 410  | 7 375  | 7 407  | 7 483   | 7 606   | 5 174   | 5 097   | 5 139   | 5 172   | 111.00% |         |         |        |
| 8                            | 0                | 0                | 0               | 4 116                       | 4 116             | 4 116  | 4 116  | 4 116  | 6 784  | 6 807   | 6 860   | 4 225   | 4 037   | 4 067   | 4 102   | 105.00% |         |         |        |
| 9                            | 10 000           | 10 000           | 10 000          | 10 000                      | 13 602            | 13 602 | 13 602 | 13 602 | 13 602 | 13 602  | 5 936   | 5 952   | 4 642   | 3 741   | 3 493   | 3 395   | 100.00% |         |        |
| 10                           | 7 000            | 7 000            | 7 000           | 7 000                       | 10 025            | 10 025 | 10 025 | 10 025 | 10 025 | 10 025  | 5 023   | 3 793   | 3 015   | 2 799   | 2 713   | 95.00%  |         |         |        |
| 11                           | 4 900            | 4 900            | 4 900           | 4 900                       | 4 900             | 4 900  | 7 371  | 7 371  | 7 371  | 7 371   | 3 094   | 2 418   | 2 234   | 2 162   | 90.00%  |         |         |         |        |
| 12                           | 3 430            | 3 430            | 3 430           | 3 430                       | 3 430             | 3 430  | 5 407  | 5 407  | 5 407  | 5 407   | 2 516   | 1 928   | 1 773   | 1 716   | 85.00%  |         |         |         |        |
| 13                           | 2 401            | 2 401            | 2 401           | 2 401                       | 2 401             | 2 401  | 3 957  | 3 957  | 3 957  | 3 957   | 1 526   | 1 399   | 1 356   | 1 327   | 81.00%  |         |         |         |        |
| 14                           | 1 681            | 1 681            | 1 681           | 1 681                       | 1 681             | 1 681  | 2 891  | 2 891  | 2 891  | 2 891   | 1 308   | 1 190   | 1 170   | 1 155   | 77.00%  |         |         |         |        |
| 15                           | 1 176            | 1 176            | 1 176           | 1 176                       | 1 176             | 1 176  | 1 176  | 1 176  | 1 176  | 1 176   | 1 233   | 1 039   | 944     | 933     | 73.00%  |         |         |         |        |
| 16                           | 824              | 824              | 824             | 824                         | 824               | 824    | 824    | 824    | 824    | 824     | 1 300   | 959     | 810     | 737     | 69.00%  |         |         |         |        |
| 17                           | 576              | 576              | 576             | 576                         | 576               | 576    | 576    | 576    | 576    | 576     | 736     | 623     | 568     | 560     | 66.00%  |         |         |         |        |
| 18                           | 404              | 404              | 404             | 404                         | 404               | 404    | 404    | 404    | 404    | 404     | 800     | 700     | 600     | 539     | 63.00%  |         |         |         |        |
| 19                           | 282              | 282              | 282             | 282                         | 282               | 282    | 282    | 282    | 282    | 282     | 603     | 578     | 474     | 408     | 60.00%  |         |         |         |        |
| 20                           | 198              | 198              | 198             | 198                         | 198               | 198    | 198    | 198    | 198    | 198     | 419     | 396     | 327     | 282     | 57.00%  |         |         |         |        |
| 21                           | 290              | 290              | 290             | 290                         | 290               | 290    | 290    | 290    | 290    | 290     | 272     | 226     | 196     | 154     | 54.00%  |         |         |         |        |
| 22                           | 467              | 467              | 467             | 467                         | 467               | 467    | 467    | 467    | 467    | 467     | 556     | 476     | 476     | 476     | 54.00%  |         |         |         |        |
| TOTAL                        | 10 000           | 20 000           | 30 000          | 40 000                      | 50 000            | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 |         |         |        |
| Weighted Average             | Type 1<br>20.00% | Type 2<br>75.00% | Type 3<br>5.00% | Probability Claim<br>10.00% | Average<br>30.00% |        |        |        |        |         |         |         |         |         |         |         |         |         |        |
| Class / Year                 | 1                | 2                | 3               | 4                           | 5                 | 6      | 7      | 8      | 9      | 10      | 11      | 12      | 20      | 30      | 40      | 50      | Scale   |         |        |
|                              | 10 000           | 20 000           | 30 000          | 40 000                      | 50 000            | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100.00% |         |        |
| 1                            | 0                | 0                | 125             | 146                         | 200               | 293    | 427    | 603    | 676    | 771     | 889     | 1 027   | 1 205   | 1 134   | 1 086   | 1 065   | 200.00% |         |        |
| 2                            | 0                | 0                | 0               | 311                         | 328               | 370    | 443    | 550    | 836    | 892     | 967     | 1 062   | 1 114   | 984     | 909     | 875     | 160.00% |         |        |
| 3                            | 0                | 0                | 0               | 0                           | 524               | 537    | 570    | 629    | 715    | 1 112   | 1 156   | 1 216   | 1 060   | 875     | 775     | 730     | 140.00% |         |        |
| 4                            | 0                | 0                | 0               | 0                           | 0                 | 744    | 754    | 781    | 829    | 900     | 1 409   | 1 444   | 1 331   | 911     | 724     | 643     | 130.00% |         |        |
| 5                            | 0                | 1 000            | 1 000           | 1 000                       | 1 000             | 1 000  | 1 961  | 1 970  | 1 992  | 2 031   | 2 090   | 1 712   | 1 427   | 909     | 677     | 576     | 123.00% |         |        |
| 6                            | 0                | 0                | 1 750           | 1 750                       | 1 750             | 1 750  | 1 750  | 2 920  | 2 927  | 2 945   | 2 978   | 3 028   | 1 534   | 927     | 655     | 536     | 117.00% |         |        |
| 7                            | 0                | 0                | 0               | 2 314                       | 2 314             | 2 314  | 2 314  | 2 314  | 3 681  | 3 687   | 3 702   | 3 730   | 1 655   | 961     | 656     | 523     | 111.00% |         |        |
| 8                            | 0                | 0                | 0               | 0                           | 2 736             | 2 736  | 2 736  | 2 736  | 2 736  | 4 286   | 4 291   | 4 304   | 1 787   | 1 006   | 675     | 533     | 105.00% |         |        |
| 9                            | 10 000           | 10 000           | 10 000          | 10 000                      | 10 000            | 13 048 | 13 048 | 13 048 | 13 048 | 13 048  | 13 048  | 4 767   | 4 771   | 2 968   | 1 448   | 873     | 633     | 100.00% |        |
| 10                           | 0                | 9 000            | 9 000           | 9 000                       | 9 000             | 9 000  | 12 273 | 12 273 | 12 273 | 12 273  | 12 273  | 12 273  | 5 144   | 3 173   | 1 584   | 980     | 727     | 95.00%  |        |
| 11                           | 0                | 0                | 8 125           | 8 125                       | 8 125             | 8 125  | 8 125  | 11 553 | 11 553 | 11 553  | 11 553  | 11 553  | 11 553  | 3 375   | 1 723   | 1 108   | 852     | 90.00%  |        |
| 12                           | 0                | 0                | 0               | 7 354                       | 7 354             | 7 354  | 7 354  | 7 354  | 10 881 | 10 881  | 10 881  | 10 881  | 10 881  | 3 562   | 1 854   | 1 243   | 995     | 85.00%  |        |
| 13                           | 0                | 0                | 0               | 0                           | 6 670             | 6 670  | 6 670  | 6 670  | 6 670  | 10 250  | 10 250  | 10 250  | 10 250  | 10 250  | 3 726   | 1 968   | 1 378   | 1 145   | 81.00% |
| 14                           | 0                | 0                | 0               | 0                           | 0                 | 6 060  | 6 060  | 6 060  | 6 060  | 6 060   | 9 657   | 9 657   | 6 019   | 3 195   | 2 226   | 1 841   | 77.00%  |         |        |
| 15                           | 0                | 0                | 0               | 0                           | 0                 | 0      | 5 515  | 5 515  | 5 515  | 5 515   | 5 515   | 5 515   | 9 097   | 6 065   | 3 447   | 2 589   | 2 258   | 73.00%  |        |
| 16                           | 0                | 0                | 0               | 0                           | 0                 | 0      | 0      | 5 025  | 5 025  | 5 025   | 5 025   | 5 025   | 5 025   | 6 032   | 3 577   | 2 838   | 2 568   | 69.00%  |        |
| 17                           | 0                | 0                | 0               | 0                           | 0                 | 0      | 0      | 4 584  | 4 584  | 4 584   | 4 584   | 4 584   | 4 584   | 5 932   | 3 612   | 2 997   | 2 788   | 66.00%  |        |
| 18                           | 0                | 0                | 0               | 0                           | 0                 | 0      | 0      | 0      | 4 186  | 4 186   | 4 186   | 4 186   | 4 186   | 6 701   | 6 796   | 7 077   | 7 227   | 63.00%  |        |
| 19                           | 0                | 0                | 0               | 0                           | 0                 | 0      | 0      | 0      | 0      | 0       | 3 827   | 3 827   | 7 630   | 7 093   | 6 803   | 6 713   | 60.00%  |         |        |
| 20                           | 0                | 0                | 0               | 0                           | 0                 | 0      | 0      | 0      | 0      | 0       | 0       | 3 501   | 6 825   | 6 191   | 6 044   | 6 029   | 57.00%  |         |        |
| 21                           | 0                | 0                | 0               | 0                           | 0                 | 0      | 0      | 0      | 0      | 0       | 0       | 6 094   | 5 402   | 5 376   | 5 421   | 54.00%  |         |         |        |
| 22                           | 0                | 0                | 0               | 0                           | 0                 | 0      | 0      | 0      | 0      | 0       | 0       | 20 784  | 44 404  | 52 311  | 55 320  | 54.00%  |         |         |        |
| TOTAL                        | 10 000           | 20 000           | 30 000          | 40 000                      | 50 000            | 60 000 | 70 000 | 80 000 | 90 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | 100 000 | Av Prem |         |        |

## BONUS/MALUS SYSTEM MODEL - Belgian - New

Probability Claim .500%

UNITS OF STANDARD PREMIUM

Class / Year

|    | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |       |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1  | 0       | 0      | 50     | 53     | 60     | 74     | 96     | 129    | 133    | 139    | 147    | 157    | 53     | 10     | 2      | 1      |       |
| 2  | 0       | 0      | 0      | 114    | 116    | 121    | 132    | 149    | 207    | 210    | 214    | 221    | 64     | 12     | 3      | 1      |       |
| 3  | 0       | 0      | 0      | 0      | 190    | 191    | 196    | 205    | 219    | 303    | 305    | 309    | 77     | 15     | 3      | 1      |       |
| 4  | 0       | 0      | 0      | 0      | 0      | 279    | 280    | 284    | 292    | 304    | 419    | 421    | 189    | 33     | 7      | 3      |       |
| 5  | 0       | 615    | 615    | 615    | 615    | 991    | 992    | 996    | 1 003  | 1 014  | 548    | 243    | 44     | 10     | 4      | 1      |       |
| 6  | 0       | 0      | 1 112  | 1 112  | 1 112  | 1 112  | 1 112  | 1 158  | 1 158  | 1 159  | 1 159  | 1 168  | 296    | 55     | 13     | 6      |       |
| 7  | 0       | 0      | 0      | 1 503  | 1 503  | 1 503  | 1 503  | 2 074  | 2 075  | 2 078  | 2 084  | 346    | 67     | 18     | 9      | 1      |       |
| 8  | 0       | 0      | 0      | 0      | 1 800  | 1 800  | 1 800  | 2 460  | 2 461  | 2 464  | 2 464  | 78     | 23     | 14     | 14     | 1      |       |
| 9  | 10 000  | 10 000 | 10 000 | 10 000 | 10 000 | 12 036 | 12 036 | 12 036 | 12 036 | 12 036 | 2 783  | 2 783  | 1 071  | 189    | 47     | 23     |       |
| 10 | 0       | 9 025  | 9 025  | 9 025  | 9 025  | 9 025  | 11 230 | 11 230 | 11 230 | 11 230 | 11 230 | 3 029  | 1 176  | 224    | 66     | 39     |       |
| 11 | 0       | 0      | 8 123  | 8 123  | 8 123  | 8 123  | 8 123  | 10 438 | 10 438 | 10 438 | 10 438 | 10 438 | 260    | 91     | 23     | 14     |       |
| 12 | 0       | 0      | 0      | 7 288  | 7 288  | 7 288  | 7 288  | 9 662  | 9 662  | 9 662  | 9 662  | 9 662  | 1 425  | 324    | 149    | 120    |       |
| 13 | 0       | 0      | 0      | 0      | 6 598  | 6 598  | 6 598  | 6 598  | 9 016  | 9 016  | 9 016  | 9 016  | 9 016  | 3 516  | 947    | 516    | 444   |
| 14 | 0       | 0      | 0      | 0      | 0      | 5 958  | 5 958  | 5 958  | 5 958  | 5 958  | 8 388  | 8 388  | 3 508  | 835    | 382    | 306    | 1     |
| 15 | 0       | 0      | 0      | 0      | 0      | 0      | 5 366  | 5 366  | 5 366  | 5 366  | 5 366  | 7 770  | 3 516  | 1 011  | 615    | 550    |       |
| 16 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 4 819  | 4 819  | 4 819  | 4 819  | 4 819  | 3 464  | 1 053  | 694    | 636    |       |
| 17 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 379  | 4 379  | 4 379  | 4 379  | 4 379  | 3 971  | 0      | 3 068  | 3 056 |
| 18 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 971  | 3 971  | 3 971  | 4 019  | 3 158  | 3 068  | 3 056  | 1     |
| 19 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 592  | 3 592  | 3 592  | 6 156  | 3 510  | 2 894  | 2 785  | 1     |
| 20 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 242  | 5 448  | 3 056  | 2 588  | 2 509 |
| 21 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 4 802  | 2 653  | 2 308  | 2 254  | 1     |
| 22 | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 19 914 | 38 717 | 41 977 | 42 522 | 1     |
|    | 10 000  | 19 640 | 28 924 | 37 831 | 46 428 | 54 722 | 62 708 | 70 381 | 77 794 | 84 959 | 81 875 | 78 896 | 62 190 | 56 542 | 55 594 | 55 435 | 1     |
|    | 100.00% | 98.20% | 96.41% | 94.58% | 92.86% | 91.20% | 89.58% | 87.98% | 86.44% | 84.96% | 81.88% | 78.90% | 62.19% | 56.54% | 55.59% | 55.44% | 1     |

Class / Year

|                | 1       | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |       |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1              | 0       | 0      | 200    | 220    | 276    | 381    | 544    | 772    | 823    | 898    | 1 000  | 1 130  | 866    | 442    | 235    | 142    |       |
| 2              | 0       | 0      | 0      | 432    | 446    | 487    | 562    | 679    | 1 042  | 1 080  | 1 137  | 1 215  | 891    | 462    | 248    | 150    |       |
| 3              | 0       | 0      | 0      | 0      | 680    | 692    | 723    | 783    | 875    | 1 039  | 1 140  | 1 447  | 954    | 502    | 274    | 170    |       |
| 4              | 0       | 0      | 0      | 0      | 0      | 948    | 957    | 984    | 1 033  | 1 110  | 1 747  | 1 773  | 1 427  | 704    | 372    | 225    |       |
| 5              | 0       | 1 230  | 1 230  | 1 230  | 1 230  | 1 230  | 2 441  | 2 449  | 2 471  | 2 513  | 2 579  | 2 130  | 1 636  | 822    | 442    | 273    |       |
| 6              | 0       | 0      | 2 106  | 2 106  | 2 106  | 2 106  | 2 106  | 3 557  | 3 564  | 3 583  | 3 619  | 3 675  | 1 819  | 932    | 514    | 328    |       |
| 7              | 0       | 0      | 0      | 2 697  | 2 697  | 2 697  | 2 697  | 2 697  | 4 349  | 4 355  | 4 371  | 4 402  | 1 974  | 1 027  | 586    | 389    |       |
| 8              | 0       | 0      | 0      | 0      | 3 062  | 3 062  | 3 062  | 3 062  | 3 062  | 4 870  | 4 875  | 4 889  | 2 101  | 1 105  | 655    | 455    |       |
| 9              | 10 000  | 10 000 | 10 000 | 10 000 | 10 000 | 13 281 | 13 281 | 13 281 | 13 281 | 13 281 | 5 218  | 5 222  | 3 362  | 1 631  | 919    | 611    |       |
| 10             | 0       | 8 550  | 8 550  | 8 550  | 8 550  | 8 550  | 11 916 | 11 916 | 11 916 | 11 916 | 11 916 | 5 390  | 3 465  | 1 755  | 1 046  | 728    |       |
| 11             | 0       | 0      | 7 290  | 7 290  | 7 290  | 7 290  | 7 290  | 10 638 | 10 638 | 10 638 | 10 638 | 10 638 | 3 525  | 1 853  | 1 171  | 876    |       |
| 12             | 0       | 0      | 0      | 6 197  | 6 197  | 6 197  | 6 197  | 6 197  | 9 449  | 9 449  | 9 449  | 9 449  | 3 535  | 1 914  | 1 277  | 1 007  |       |
| 13             | 0       | 0      | 0      | 0      | 5 314  | 5 314  | 5 314  | 5 314  | 5 314  | 8 453  | 8 453  | 8 453  | 8 453  | 3 534  | 1 956  | 1 373  | 1 131 |
| 14             | 0       | 0      | 0      | 0      | 0      | 4 547  | 4 547  | 4 547  | 4 547  | 4 547  | 7 530  | 7 530  | 5 132  | 2 978  | 2 116  | 1 748  |       |
| 15             | 0       | 0      | 0      | 0      | 0      | 0      | 3 880  | 3 880  | 3 880  | 3 880  | 3 880  | 6 679  | 4 884  | 3 042  | 2 332  | 2 034  |       |
| 16             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 3 300  | 3 300  | 3 300  | 3 300  | 3 300  | 4 566  | 2 977  | 2 410  | 2 182  |       |
| 17             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 841  | 2 841  | 2 841  | 2 841  | 4 266  | 2 866  | 2 424  | 2 259  |       |
| 18             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 441  | 2 441  | 2 441  | 2 441  | 4 524  | 4 837  | 5 101  | 5 233  |       |
| 19             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 092  | 4 439  | 4 439  | 4 715  | 4 652  | 4 611  |        |       |
| 20             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 789  | 3 718  | 3 875  | 3 891  | 3 903  |        |       |
| 21             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 097  | 3 172  | 3 247  | 3 295  |       |
| 22             | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 9 637  | 21 623 | 26 450 | 28 474 |       |
|                | 10 000  | 19 780 | 29 376 | 38 722 | 47 849 | 56 780 | 65 515 | 74 054 | 82 385 | 90 524 | 88 485 | 86 485 | 73 350 | 65 191 | 61 733 | 60 235 |       |
| Frequency = 10 | 100.00% | 98.90% | 97.92% | 96.80% | 95.70% | 94.63% | 93.59% | 92.57% | 91.54% | 90.52% | 88.49% | 86.49% | 73.35% | 65.19% | 61.73% | 60.23% |       |
| Frequency = 5% | 100.00% | 98.20% | 96.41% | 94.58% | 92.86% | 91.20% | 89.58% | 87.98% | 86.44% | 84.96% | 81.88% | 78.90% | 62.19% | 56.54% | 55.59% | 55.44% |       |

## BONUS/MALUS SYSTEM MODEL - Belgian - New

Probability Claim 30(0)%

UNITS OF STANDARD PREMIUM

Class / Year

|                | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 20      | 30      | 40      | 50      |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1              | 0       | 0       | 1 800   | 2 340   | 3 636   | 5 726   | 8 556   | 12 035  | 14 153  | 16 815  | 19 954  | 23 493  | 35 025  | 38 671  | 39 923  | 40 486  |
| 2              | 0       | 0       | 0       | 3 024   | 3 326   | 4 052   | 5 222   | 6 808   | 10 281  | 11 488  | 13 031  | 14 873  | 22 022  | 24 508  | 25 362  | 25 745  |
| 3              | 0       | 0       | 0       | 0       | 3 704   | 3 890   | 4 334   | 5 051   | 6 022   | 9 394   | 10 147  | 11 124  | 15 076  | 16 911  | 17 577  | 17 882  |
| 4              | 0       | 0       | 0       | 0       | 0       | 4 013   | 4 133   | 4 422   | 4 888   | 5 519   | 8 752   | 9 250   | 12 451  | 13 004  | 13 225  | 13 333  |
| 5              | 0       | 3 690   | 3 690   | 3 690   | 3 690   | 7 677   | 7 757   | 7 948   | 8 257   | 8 675   | 7 987   | 9 608   | 9 867   | 9 991   | 10 055  |         |
| 6              | 0       | 0       | 4 914   | 4 914   | 4 914   | 4 914   | 4 914   | 8 631   | 8 684   | 8 811   | 9 017   | 9 295   | 7 435   | 7 497   | 7 570   | 7 614   |
| 7              | 0       | 0       | 0       | 4 895   | 4 895   | 4 895   | 4 895   | 4 895   | 8 186   | 8 221   | 8 306   | 8 442   | 5 743   | 5 657   | 5 704   | 5 741   |
| 8              | 0       | 0       | 0       | 0       | 4 322   | 4 322   | 4 322   | 4 322   | 4 322   | 7 123   | 7 147   | 7 203   | 4 437   | 4 239   | 4 271   | 4 307   |
| 9              | 10 000  | 10 000  | 10 000  | 10 000  | 13 602  | 13 602  | 13 602  | 13 602  | 13 602  | 13 602  | 5 936   | 5 952   | 4 642   | 3 741   | 3 493   | 3 395   |
| 10             | 0       | 6 650   | 6 650   | 6 650   | 6 650   | 9 524   | 9 524   | 9 524   | 9 524   | 9 524   | 4 772   | 3 603   | 2 864   | 2 659   | 2 577   |         |
| 11             | 0       | 0       | 4 410   | 4 410   | 4 410   | 4 410   | 4 410   | 6 634   | 6 634   | 6 634   | 6 634   | 2 785   | 2 176   | 2 011   | 1 946   |         |
| 12             | 0       | 0       | 0       | 2 916   | 2 916   | 2 916   | 2 916   | 4 596   | 4 596   | 4 596   | 4 596   | 2 138   | 1 638   | 1 507   | 1 459   |         |
| 13             | 0       | 0       | 0       | 0       | 1 945   | 1 945   | 1 945   | 1 945   | 1 945   | 2 026   | 3 206   | 3 206   | 1 647   | 1 236   | 1 134   | 1 098   |
| 14             | 0       | 0       | 0       | 0       | 0       | 1 294   | 1 294   | 1 294   | 1 294   | 1 294   | 2 226   | 1 674   | 1 198   | 1 007   | 916     |         |
| 15             | 0       | 0       | 0       | 0       | 0       | 0       | 859     | 859     | 859     | 859     | 859     | 1 539   | 1 234   | 900     | 758     | 689     |
| 16             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 568     | 568     | 568     | 568     | 897     | 662     | 559     | 509     |         |
| 17             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 380     | 380     | 380     | 380     | 653     | 485     | 411     | 375     |
| 18             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 254     | 254     | 254     | 504     | 441     | 378     | 340     |
| 19             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 169     | 169     | 362     | 347     | 285     | 245     |
| 20             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 113     | 239     | 226     | 186     | 161     |
| 21             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 157     | 147     | 122     | 106     |
| 22             | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 252     | 349     | 300     | 257     |
| Frequency = 30 | 100.00% | 20 340  | 31 464  | 42 839  | 54 408  | 66 518  | 78 603  | 91 261  | 103 884 | 116 545 | 119 381 | 122 076 | 132 585 | 136 762 | 138 431 | 139 233 |
| Frequency = 10 | 100.00% | 101.70% | 104.88% | 107.10% | 108.82% | 110.53% | 112.29% | 114.08% | 115.43% | 116.55% | 119.38% | 122.08% | 132.58% | 136.76% | 138.43% | 139.23% |
| Frequency = 5% | 100.00% | 98.90%  | 97.92%  | 96.80%  | 95.70%  | 94.63%  | 93.59%  | 92.57%  | 91.54%  | 90.52%  | 88.49%  | 86.49%  | 73.35%  | 65.19%  | 61.73%  | 60.23%  |

Class / Year

|    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 20     | 30     | 40     | 50     |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1  | 0      | 0      | 250    | 293    | 401    | 586    | 855    | 1 207  | 1 352  | 1 542  | 1 777  | 2 054  | 2 411  | 2 267  | 2 173  | 2 131  |
| 2  | 0      | 0      | 0      | 498    | 524    | 592    | 709    | 880    | 1 337  | 1 426  | 1 547  | 1 699  | 1 782  | 1 574  | 1 454  | 1 400  |
| 3  | 0      | 0      | 0      | 0      | 733    | 752    | 798    | 881    | 1 001  | 1 557  | 1 618  | 1 703  | 1 484  | 1 225  | 1 085  | 1 022  |
| 4  | 0      | 0      | 0      | 0      | 0      | 967    | 981    | 1 016  | 1 078  | 1 170  | 1 832  | 1 877  | 1 730  | 1 184  | 941    | 836    |
| 5  | 0      | 1 230  | 1 230  | 1 230  | 1 230  | 2 412  | 2 423  | 2 450  | 2 498  | 2 571  | 2 106  | 1 756  | 1 119  | 833    | 708    |        |
| 6  | 0      | 0      | 2 048  | 2 048  | 2 048  | 2 048  | 3 417  | 3 425  | 3 446  | 3 485  | 3 543  | 1 795  | 1 085  | 767    | 628    |        |
| 7  | 0      | 0      | 0      | 2 568  | 2 568  | 2 568  | 2 568  | 4 086  | 4 092  | 4 109  | 4 141  | 1 837  | 1 066  | 728    | 581    |        |
| 8  | 0      | 0      | 0      | 0      | 2 873  | 2 873  | 2 873  | 2 873  | 4 501  | 4 506  | 4 520  | 1 876  | 1 057  | 709    | 559    |        |
| 9  | 10 000 | 10 000 | 10 000 | 10 000 | 13 048 | 13 048 | 13 048 | 13 048 | 13 048 | 4 767  | 4 771  | 2 968  | 1 448  | 873    | 633    |        |
| 10 | 0      | 8 550  | 8 550  | 8 550  | 8 550  | 8 550  | 11 659 | 11 659 | 11 659 | 11 659 | 11 659 | 4 887  | 3 014  | 1 504  | 931    | 690    |
| 11 | 0      | 0      | 7 313  | 7 313  | 7 313  | 7 313  | 10 398 | 10 398 | 10 398 | 10 398 | 10 398 | 10 398 | 3 037  | 1 551  | 997    | 767    |
| 12 | 0      | 0      | 0      | 6 251  | 6 251  | 6 251  | 6 251  | 9 249  | 9 249  | 9 249  | 9 249  | 9 249  | 3 028  | 1 576  | 1 057  | 846    |
| 13 | 0      | 0      | 0      | 0      | 5 403  | 5 403  | 5 403  | 5 403  | 5 403  | 8 303  | 8 303  | 8 303  | 3 018  | 1 594  | 1 116  | 928    |
| 14 | 0      | 0      | 0      | 0      | 0      | 4 666  | 4 666  | 4 666  | 4 666  | 4 666  | 7 436  | 7 436  | 4 635  | 2 460  | 1 714  | 1 418  |
| 15 | 0      | 0      | 0      | 0      | 0      | 0      | 4 026  | 4 026  | 4 026  | 4 026  | 4 026  | 6 641  | 4 428  | 2 516  | 1 890  | 1 649  |
| 16 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 467  | 3 467  | 3 467  | 3 467  | 3 467  | 4 162  | 2 468  | 1 958  | 1 772  |
| 17 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 026  | 3 026  | 3 026  | 3 026  | 3 915  | 2 384  | 1 978  | 1 840  |
| 18 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2 637  | 2 637  | 2 637  | 4 222  | 4 281  | 4 458  | 4 553  |
| 19 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1 996  | 3 890  | 3 529  | 3 445  | 3 437  |
| 20 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3 291  | 2 917  | 2 903  | 2 927  |
| 21 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 11 223 | 23 978 | 28 248 | 29 873 |
| 22 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

220% 10 000 19 780 29 390 38 749 47 893 56 845 65 608 74 180 82 542 90 712 88 708 86 747 74 080 67 040 64 340 63 225

## BONUS/MALUS SYSTEM MODEL - Belgian - New

## MEASURE OF IMPLICIT EXCESS OR DEDUCTIBLE

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10      | TOTAL        | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|---------|--------------|---------|------|
| Claim?       |   |   |   |   |   |   |   |   |   |   |         | Prem<br>Paid |         |      |
| 1            |   |   |   |   |   |   |   |   |   |   |         | 0            | 200.00% | 0.00 |
| 2            |   |   |   |   |   |   |   |   |   |   |         | 0            | 160.00% | 0.00 |
| 3            |   |   |   |   |   |   |   |   |   |   |         | 0            | 140.00% | 0.00 |
| 4            |   |   |   |   |   |   |   |   |   |   |         | 0            | 130.00% | 0.00 |
| 5            |   |   |   |   |   |   |   |   |   |   |         | 0            | 123.00% | 0.00 |
| 6            |   |   |   |   |   |   |   |   |   |   |         | 0            | 117.00% | 0.00 |
| 7            |   |   |   |   |   |   |   |   |   |   |         | 0            | 111.00% | 0.00 |
| 8            |   |   |   |   |   |   |   |   |   |   |         | 0            | 105.00% | 0.05 |
| 9            |   |   |   |   |   |   |   |   |   |   |         | 0            | 100.00% | 1.00 |
| 10           |   |   |   |   |   |   |   |   |   |   |         | 0            | 95.00%  | 0.95 |
| 11           |   |   |   |   |   |   |   |   |   |   |         | 0            | 90.00%  | 0.90 |
| 12           |   |   |   |   |   |   |   |   |   |   |         | 0            | 85.00%  | 0.85 |
| 13           | 1 |   |   |   |   |   |   |   |   |   |         | 0            | 81.00%  | 0.00 |
| 14           |   | 1 |   |   |   |   |   |   |   |   |         | 1            | 77.00%  | 0.77 |
| 15           |   |   | 1 |   |   |   |   |   |   |   |         | 1            | 73.00%  | 0.73 |
| 16           |   |   |   | 1 |   |   |   |   |   |   |         | 1            | 69.00%  | 0.69 |
| 17           |   |   |   |   | 1 |   |   |   |   |   |         | 1            | 66.00%  | 0.66 |
| 18           |   |   |   |   |   | 1 |   |   |   |   |         | 1            | 63.00%  | 0.63 |
| 19           |   |   |   |   |   |   | 1 |   |   |   |         | 1            | 60.00%  | 0.60 |
| 20           |   |   |   |   |   |   |   | 1 |   |   |         | 1            | 57.00%  | 0.57 |
| 21           |   |   |   |   |   |   |   |   | 1 |   |         | 1            | 54.00%  | 0.54 |
| 22           |   |   |   |   |   |   |   |   |   | 2 |         | 2            | 54.00%  | 1.08 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10      | TOTAL        | 6.27    |      |
|              |   |   |   |   |   |   |   |   |   |   | Average | 0.63         |         |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10      | TOTAL        | % Std   | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|---------|--------------|---------|------|
| Claim?       |   |   |   |   |   |   |   |   |   |   |         | Prem<br>Paid |         |      |
| 1            |   |   |   |   |   |   |   |   |   |   |         | 1            | 200.00% | 0.00 |
| 2            |   |   |   |   |   |   |   |   |   |   |         | 1            | 160.00% | 1.60 |
| 3            |   |   |   |   |   |   |   |   |   |   |         | 1            | 140.00% | 1.40 |
| 4            |   |   |   |   |   |   |   |   |   |   |         | 1            | 130.00% | 1.30 |
| 5            |   |   |   |   |   |   |   |   |   |   |         | 1            | 123.00% | 1.23 |
| 6            |   |   |   |   |   |   |   |   |   |   |         | 1            | 117.00% | 1.17 |
| 7            |   |   |   |   |   |   |   |   |   |   |         | 1            | 111.00% | 1.11 |
| 8            |   |   |   |   |   |   |   |   |   |   |         | 1            | 105.00% | 1.05 |
| 9            |   |   |   |   |   |   |   |   |   |   |         | 1            | 100.00% | 1.00 |
| 10           |   |   |   |   |   |   |   |   |   |   |         | 1            | 95.00%  | 0.95 |
| 11           |   |   |   |   |   |   |   |   |   |   |         | 1            | 90.00%  | 0.90 |
| 12           |   |   |   |   |   |   |   |   |   |   |         | 1            | 85.00%  | 0.85 |
| 13           | 1 |   |   |   |   |   |   |   |   |   |         | 1            | 81.00%  | 0.81 |
| 14           |   |   | 1 |   |   |   |   |   |   |   |         | 1            | 77.00%  | 0.77 |
| 15           |   |   |   | 1 |   |   |   |   |   |   |         | 1            | 73.00%  | 0.73 |
| 16           |   |   |   |   | 1 |   |   |   |   |   |         | 1            | 69.00%  | 0.69 |
| 17           |   |   |   |   |   | 1 |   |   |   |   |         | 1            | 66.00%  | 0.66 |
| 18           |   |   |   |   |   |   | 1 |   |   |   |         | 1            | 63.00%  | 0.63 |
| 19           |   |   |   |   |   |   |   | 0 |   |   |         | 1            | 60.00%  | 0.00 |
| 20           |   |   |   |   |   |   |   | 0 |   |   |         | 1            | 57.00%  | 0.00 |
| 21           |   |   |   |   |   |   |   | 0 |   |   |         | 1            | 54.00%  | 0.00 |
| 22           |   |   |   |   |   |   |   | 0 |   |   |         | 22           | 54.00%  | 0.00 |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10      | TOTAL        | 9.34    |      |
|              |   |   |   |   |   |   |   |   |   |   | Average | 0.93         |         |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | % Std   | Prem  | Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9     | 10      | TOTAL   | % Std | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|-------|---------|-------|--------------|---|---|---|---|---|---|---|---|---|-------|---------|---------|-------|------|
| Claim?       | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |    |       | Prem    | Paid  | Claim?       | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0     |         |         | Prem  | Paid |
| 1            | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |    | 0     | 200.00% | 0.00  | 1            | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1     | 200.00% | 2.00    |       |      |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 0     | 160.00% | 0.00  | 2            |   |   |   |   |   |   |   |   |   |       | 1       | 160.00% | 1.60  |      |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 0     | 140.00% | 0.00  | 3            |   |   |   |   |   |   |   |   |   |       | 1       | 140.00% | 1.40  |      |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 0     | 130.00% | 0.00  | 4            |   |   |   |   |   |   |   |   |   |       | 1       | 130.00% | 1.30  |      |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 0     | 123.00% | 0.00  | 5            |   |   |   |   |   |   |   |   |   |       | 2       | 123.00% | 2.46  |      |
| 6            |   |   |   |   |   |   |   |   |   |   |    | 0     | 117.00% | 0.00  | 6            |   |   |   |   |   |   |   |   |   |       | 1       | 117.00% | 1.17  |      |
| 7            |   |   |   |   |   |   |   |   |   |   |    | 1     | 111.00% | 1.11  | 7            |   |   |   |   |   |   |   |   |   |       | 1       | 111.00% | 1.11  |      |
| 8            |   |   |   |   |   |   |   |   |   |   |    | 1     | 105.00% | 1.05  | 8            |   |   |   |   |   |   |   |   |   |       | 1       | 105.00% | 1.05  |      |
| 9            |   |   |   |   |   |   |   |   |   |   |    | 1     | 100.00% | 1.00  | 9            |   |   |   |   |   |   |   |   |   |       | 1       | 100.00% | 1.00  |      |
| 10           |   |   |   |   |   |   |   |   |   |   |    | 1     | 95.00%  | 0.95  | 10           |   |   |   |   |   |   |   |   |   |       | 0       | 95.00%  | 0.00  |      |
| 11           |   |   |   |   |   |   |   |   |   |   |    | 1     | 90.00%  | 1.80  | 11           |   |   |   |   |   |   |   |   |   |       | 0       | 90.00%  | 0.00  |      |
| 12           |   |   |   |   |   |   |   |   |   |   |    | 1     | 85.00%  | 0.85  | 12           |   |   |   |   |   |   |   |   |   |       | 0       | 85.00%  | 0.00  |      |
| 13           |   |   |   |   |   |   |   |   |   |   |    | 1     | 81.00%  | 0.81  | 13           |   |   |   |   |   |   |   |   |   |       | 0       | 81.00%  | 0.00  |      |
| 14           |   |   |   |   |   |   |   |   |   |   |    | 1     | 77.00%  | 0.77  | 14           |   |   |   |   |   |   |   |   |   |       | 0       | 77.00%  | 0.00  |      |
| 15           |   |   |   |   |   |   |   |   |   |   |    | 1     | 73.00%  | 0.73  | 15           |   |   |   |   |   |   |   |   |   |       | 0       | 73.00%  | 0.00  |      |
| 16           |   |   |   |   |   |   |   |   |   |   |    | 0     | 69.00%  | 0.00  | 16           |   |   |   |   |   |   |   |   |   |       | 0       | 69.00%  | 0.00  |      |
| 17           |   |   |   |   |   |   |   |   |   |   |    | 0     | 66.00%  | 0.00  | 17           |   |   |   |   |   |   |   |   |   |       | 0       | 66.00%  | 0.00  |      |
| 18           |   |   |   |   |   |   |   |   |   |   |    | 0     | 63.00%  | 0.00  | 18           |   |   |   |   |   |   |   |   |   |       | 0       | 63.00%  | 0.00  |      |
| 19           |   |   |   |   |   |   |   |   |   |   |    | 0     | 60.00%  | 0.00  | 19           |   |   |   |   |   |   |   |   |   |       | 0       | 60.00%  | 0.00  |      |
| 20           |   |   |   |   |   |   |   |   |   |   |    | 0     | 57.00%  | 0.00  | 20           |   |   |   |   |   |   |   |   |   |       | 0       | 57.00%  | 0.00  |      |
| 21           |   |   |   |   |   |   |   |   |   |   |    | 0     | 54.00%  | 0.00  | 21           |   |   |   |   |   |   |   |   |   |       | 0       | 54.00%  | 0.00  |      |
| 22           |   |   |   |   |   |   |   |   |   |   |    | 0     | 54.00%  | 0.00  | 22           |   |   |   |   |   |   |   |   |   |       | 0       | 54.00%  | 0.00  |      |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | TOTAL | 9.07    | TOTAL | 1            | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | TOTAL | 13.09   |         |       |      |

| Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL | % Std   | Prem  | Class / Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9     | 10      | TOTAL | % Std | Prem |
|--------------|---|---|---|---|---|---|---|---|---|---|----|-------|---------|-------|--------------|---|---|---|---|---|---|---|---|---|-------|---------|-------|-------|------|
| Claim?       | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0  |       | Prem    | Paid  | Claim?       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1     |         |       | Prem  | Paid |
| 1            | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |    | 0     | 200.00% | 0.00  | 1            |   |   |   |   |   |   |   |   |   | 0     | 200.00% | 0.00  |       |      |
| 2            |   |   |   |   |   |   |   |   |   |   |    | 0     | 160.00% | 0.00  | 2            |   |   |   |   |   |   |   |   |   | 0     | 160.00% | 0.00  |       |      |
| 3            |   |   |   |   |   |   |   |   |   |   |    | 0     | 140.00% | 0.00  | 3            |   |   |   |   |   |   |   |   |   | 0     | 140.00% | 0.00  |       |      |
| 4            |   |   |   |   |   |   |   |   |   |   |    | 0     | 130.00% | 0.00  | 4            |   |   |   |   |   |   |   |   |   | 0     | 130.00% | 0.00  |       |      |
| 5            |   |   |   |   |   |   |   |   |   |   |    | 0     | 123.00% | 0.00  | 5            |   |   |   |   |   |   |   |   |   | 0     | 123.00% | 0.00  |       |      |
| 6            |   |   |   |   |   |   |   |   |   |   |    | 0     | 117.00% | 0.00  | 6            |   |   |   |   |   |   |   |   |   | 0     | 117.00% | 0.00  |       |      |
| 7            |   |   |   |   |   |   |   |   |   |   |    | 1     | 111.00% | 1.11  | 7            |   |   |   |   |   |   |   |   |   | 0     | 111.00% | 0.00  |       |      |
| 8            |   |   |   |   |   |   |   |   |   |   |    | 1     | 105.00% | 2.10  | 8            |   |   |   |   |   |   |   |   |   | 1     | 105.00% | 1.05  |       |      |
| 9            |   |   |   |   |   |   |   |   |   |   |    | 2     | 100.00% | 2.00  | 9            |   |   |   |   |   |   |   |   |   | 0     | 100.00% | 0.00  |       |      |
| 10           |   |   |   |   |   |   |   |   |   |   |    | 2     | 95.00%  | 1.90  | 10           |   |   |   |   |   |   |   |   |   | 0     | 95.00%  | 0.00  |       |      |
| 11           |   |   |   |   |   |   |   |   |   |   |    | 2     | 90.00%  | 1.80  | 11           |   |   |   |   |   |   |   |   |   | 0     | 90.00%  | 0.00  |       |      |
| 12           |   |   |   |   |   |   |   |   |   |   |    | 1     | 85.00%  | 0.85  | 12           |   |   |   |   |   |   |   |   |   | 1     | 85.00%  | 0.85  |       |      |
| 13           |   |   |   |   |   |   |   |   |   |   |    | 0     | 81.00%  | 0.00  | 13           |   |   |   |   |   |   |   |   |   | 0     | 81.00%  | 0.00  |       |      |
| 14           |   |   |   |   |   |   |   |   |   |   |    | 0     | 77.00%  | 0.00  | 14           |   |   |   |   |   |   |   |   |   | 1     | 77.00%  | 0.77  |       |      |
| 15           |   |   |   |   |   |   |   |   |   |   |    | 0     | 73.00%  | 0.00  | 15           |   |   |   |   |   |   |   |   |   | 1     | 73.00%  | 0.73  |       |      |
| 16           |   |   |   |   |   |   |   |   |   |   |    | 0     | 69.00%  | 0.00  | 16           |   |   |   |   |   |   |   |   |   | 2     | 69.00%  | 1.38  |       |      |
| 17           |   |   |   |   |   |   |   |   |   |   |    | 0     | 66.00%  | 0.00  | 17           |   |   |   |   |   |   |   |   |   | 1     | 66.00%  | 0.66  |       |      |
| 18           |   |   |   |   |   |   |   |   |   |   |    | 0     | 63.00%  | 0.00  | 18           |   |   |   |   |   |   |   |   |   | 1     | 63.00%  | 0.63  |       |      |
| 19           |   |   |   |   |   |   |   |   |   |   |    | 0     | 60.00%  | 0.00  | 19           |   |   |   |   |   |   |   |   |   | 1     | 60.00%  | 0.60  |       |      |
| 20           |   |   |   |   |   |   |   |   |   |   |    | 0     | 57.00%  | 0.00  | 20           |   |   |   |   |   |   |   |   |   | 1     | 57.00%  | 0.57  |       |      |
| 21           |   |   |   |   |   |   |   |   |   |   |    | 0     | 54.00%  | 0.00  | 21           |   |   |   |   |   |   |   |   |   | 0     | 54.00%  | 0.00  |       |      |
| TOTAL        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | TOTAL | 9.76    | TOTAL | 1            | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | TOTAL | 7.24    |       |       |      |