## RECENT DEVELOPMENTS WITH RESPECT TO THE DISTRIBUTION OF WORKMEN'S COMPENSATION INSURANCE COSTS

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It has been contended for several years that the procedure followed in developing rates for workmen's compensation insurance does not permit of an equitable distribution of costs This contention rests on two fundamental principles. First, that the expenses incurred in conducting the business are not wholly proportional to the premium size of risk but consist of the sum of a fixed amount per policy and an amount which is proportional to the premium, and second, that the loss cost varies with the size of the risk.

The logic of the contention as respects the distribution of expenses becomes apparent upon consideration of the elements which make up the total expense incurred on this line of insurance. Heretofore the amount available for expenses on a risk has been equivalent to the product of the expense loading and the total premium for the risk. The only exception has been in the case of minimum premium risks. Production expenses and taxes vary with the gross rate, consequently a percentage loading in the rate distributes these expenses equitably. Claim adjustment expense may likewise be distributed equitably in the same manner. However, the expenses incurred for general administration, audit, and inspection cannot logically be treated as a function of the rate. For each policy issued the carrier must follow a definite procedure involving an expense which consists of a fixed minimum amount plus an additional amount which may be assumed to vary with the premium. For every policy the application must be reviewed, the risk classified and coded, the policy written, proper records established in the several departments, an inspection made, the premium collected, an audit made upon expiration of the policy, the records revised in accordance with the audit, etc. As these operations are performed for each policy, it is proper that each policy be charged an amount equal to the minimum amount incurred in connection with the small and less expensive

policies and that the remainder of the expense be provided for by a percentage loading in the rates.

As a matter of fact this principle has been recognized in the establishing of minimum premiums for this line. The general formula for determining minimum premiums has been

$$10 R + 8$$
 where  $R = \text{manual rate}$ 

This formula contemplates a minimum payroll of \$1000 and provides a fixed amount of \$8 to meet the minimum expenses incurred in issuing and administering a policy. This constant of \$8 which was established in 1917, represents the estimated minimum fixed expense loaded for production and taxes. The details of the calculation of the constant are given in Table 1.

TABLE 1 CALCULATION OF CONSTANT USED IN PRESENT MINIMUM PREMIUM FORMULA

Policies Issued in 1916 (Excluding Policies "Not Taken") Compared with Expenses Paid in 1916 as Shown in N. Y. Schedule W Six Companies Combined

|                       |  | ompanios c                |            |  |                                   |
|-----------------------|--|---------------------------|------------|--|-----------------------------------|
|                       |  |                           | Have Been  | of Expense<br>Incurred in liber of Policie | Direct Ratio                      |
| (1)                   | (2)  | (3)                       | (4)        | (5)  | (6)                               |
| Number of<br>Policies | Expense Item                               | Amount<br>Paid in<br>1916 | % of Total | Amount (3) × (4)                           | Amount per<br>Policy<br>(5) + (1) |
|                       | Inspection and<br>Accident Pre-<br>vention | <b>\$</b> 152,781         | 50         | <b>\$</b> 76,390                           | \$1.40                            |
| 54,530                | Pay-rollAuditing<br>Miscellaneous          | 107,585                   | 80         | 86,068                                     | 1.58                              |
|                       | Administration                             | 438,938                   | 40         | 175,575                                    | 3.22                              |
|                       | Total                                      | \$699,304                 |            | \$338,033                                  | \$6.20                            |

\$6.20 (net charge) = \$7.75 or approximately \$8.00 gross charge.

However, the \$8 constant is available for expenses only on those minimum premium risks on which the pay-roll does not exceed \$1000. On those minimum premium risks on which the payroll exceeds \$1000 only a part of the \$8 constant is available for expenses; and on risks which develop premiums slightly in excess of the minimum premium the total amount available for administrative expenses may be very much less than that provided by the constant, as illustrated in Table 2.

TABLE 2

DISTRIBUTION OF PREMIUM ON RISKS OF VARIOUS SIZES

Manual Rate \$1.00—Minimum Premium \$18 (10 R + 8)

|                |                |                       | Distri   | ibution of Prem | ium*                  |
|----------------|----------------|-----------------------|--|-----------------|-----------------------|
| (1)            | (2)            | (3)                   | (4)  | (5)             | (6)                   |
|                | Premium at     |                       |  | Ì               | Adminis-              |
| ł              | Manual Rate    |                       | Losses &                                       | Production      | tration,<br>Audit and |
|                | Col. (1)       | Actual                | Loss Exp.                                      | and Taxes       | Inspection            |
| Payroll        | 1 ×            | Premium               |  | .20 × Col. (3)  |                       |
| 1.000          | 10.00          | 10.00                 | C 80   |                 | <del></del>           |
| 1,000<br>1,500 | 10.00<br>15.00 | $\frac{18.00}{18.00}$ | $\begin{array}{c c} 6.80 \\ 10.20 \end{array}$ | 3.60<br>3.60    | 7.60<br>4.20          |
| 1,800          | 18.00          | 18.00                 | 12.24  | 3.60            | 2.16                  |
| 2,000          | 20.00          | 20.00                 | 13.60  | 4.00            | 2.40                  |
| 2,500          | 25.00          | 25.00                 | 17.00  | 5.00            | 3.00                  |
| 5,000          | 50.00          | 50.00                 | 34.00  | 10.00           | 6.00                  |
| 6,333          | 63.33          | 63.33                 | 43.06  | 12.67           | 7.60                  |
| 7,500          | 75.00          | 75.00                 | 51.00  | 15.00           | 9.00                  |
| 10,000         | 100.00         | 100.00                | 68.00  | 20.00           | 12.00                 |

\*Distribution based on expense loading of 40% made up as follows:

Administration......7.5% Taxes........2.5%
Claim Adjustment....8.0% Payroll Audit....2.0%
Inspection......2.5% Production.......17.5%

It is apparent from Table 2 that the amounts produced by minimum premium risks for administrative expenses decrease as the exposure increases until the exposure reaches the point at which the premium at manual rates equals the minimum premium. Beyond this point the amount available for administrative expenses increases proportionately with the increase in premium. Under these conditions minimum premium risks which develop exposure somewhat greater than \$1000 and a group of risks which develop premiums somewhat greater than the minimum do not produce sufficient premium to provide for expenses.

There is a general agreement to the principle of providing a minimum charge per policy for expenses supplemented by a percentage loading in the rates but there is some disagreement as to the amount of the minimum charge. The National Bureau of Casualty and Surety Underwriters developed a minimum expense charge of \$12 per policy, based upon the assumption that 50% of the general administration expenses and 75% of the audit expenses are proportional to the number of policies. The details of this calculation are shown in Table 3. It is of interest to note that a charge of slightly more than \$13 would result from the

substitution of the percentages used in developing the \$8 constant in the present minimum premium formula (see Table 1) for the percentages shown.

# TABLE 3 CALCULATION OF POLICY FEE

Policies Issued in 1924 (excluding Policies "Not Taken") Compared with Expenses Incurred in 1924 as shown in N. Y. Casualty Exhibit 13 Companies Combined

|  |             |            | n of Expenses<br>lumber of Pol |                          |
|--|-------------|------------|--------------------------------|--------------------------|
| (1)  | (2)         | (3)        | (4)                            | (5)<br>Amount            |
|  | Amount      | % of Total | Amount (2) × (3)               | per Pol.<br>(4) ÷291,965 |
| Number of Policies Issued (excluding Policies not taken) | 291,965     |            |                                |                          |
| Payroll Audit Expense Inspection and Accident Pre-       | \$1,226,148 | 75         | \$919,611                      | \$3.15                   |
| vention Expense  | 1,073,889   |            |                                |                          |
| pense (excluding Payroll Audit)                          | 3,877,723   | 50         | 1,938,862                      | 6.64                     |
|  |             |            | Net Fee                        | \$9.79                   |

\$9.79 (Net Charge) = \$12.24 or approximately \$12 gross charge

The Conference Committee on Revision of Workmen's Compensation Rate Making Formulae which was appointed by the Superintendent of Insurance of New York, developed a policy charge of \$10. This amount was arrived at by substituting 37.8% for the percentage shown in Table 3 as the proportion of general administration expense which might properly be assumed to be proportional to the number of policies. 37.8% is based primarily upon a cost analysis prepared by a large stock company upon its business for calendar year 1925 and produces an amount per policy of \$5.02. The use of 37.8% appears conservative inasmuch as the average premium of the carrier which developed this figure is appreciably greater than that of the 13 companies to the experience of which this percentage was applied.

A minority report of the Conference Committee submitted in connection with the determination of the amount of the minimum charge per policy recommends the adoption of a fee of \$5.00. This amount was arrived at by making a time cost analysis within a single company and assumes 100% efficiency on the part of employees. A substantial portion of the overhead and administration expenses such as executive, administration, financial and supervisory departments were assumed to be chargable to premium volume only and consequently were not considered in arriving at the amount of charge. An average of six audits per day per auditor were assumed and allowance was made only for biennial audits. The details of the calculation are shown in Table 4.

TABLE 4

CALCULATION OF POLICY EXPENSE CHARGE
Minority Report of Conference Committee

|   | Underwriting. Accounting and Statistical | Auditing<br>Inside<br>Every<br>Year  | Auditing<br>Outside—<br>Every Other<br>Year |
|---|--|--------------------------------------|---|
| Number of Minutes. Salary per Minute. Salary Cost. Overhead Cost. | \$0.0122<br>\$1.14                       | 50.0<br>\$0.0122<br>\$0.61<br>\$0.31 | 35.0<br>\$0.0169<br>\$0.59<br>\$0.59        |
| Total Cost  | \$1.71                                   | \$0.92                               | \$1.18                                      |

### SUMMARY

|   | Indicated Cost | Adopted Cost |
|---|----------------|--------------|
| Underwriting, Accounting and Statistical. Auditing.   | 1.71<br>2.10   | 2.00<br>2.00 |
| Total Net Cost  | 3.81           | 4.00         |
| Net Cost Loaded 17½% for production and 2½% for taxes | 4.76           | 5.00         |

The National Council on Compensation Insurance has adopted a policy charge for expenses of \$10 as recommended in the majority report of the Conference Committee.

A comparison of estimates of the proper minimum charge for administration cost submitted by individual carriers, and shown below, appears to substantiate the estimate of \$5 which is included for this item in the \$10 charge recommended in the majority report of the Conference Committee:

| Individual Stock Company Estimate  | 5.34   |
|------------------------------------|--------|
| Individual Mutual Company Estimate | 1.71   |
| New York State Fund Estimate       | 4 . 37 |
| California State Fund Estimate     | 5.80   |
| National Bureau Estimate           |        |

A similar comparison of estimates with respect to payroll audit costs appears to corroborate the selection of \$3 which is included for this item in the \$10 charge:

| Individual Stock Company  | .4.76 |
|---------------------------|-------|
| Individual Mutual Company | .2.10 |
| California State Fund     | .6.56 |
| National Bureau           |       |

The estimate of \$6.56 shown for the California State Fund represents the average audit cost per policy for policies falling within the premium group \$50-\$300, and not the minimum cost.

As the adoption of a fixed minimum charge per policy for expenses is proposed as a means of redistributing expenses and not as a means of increasing the total amount available for expenses, it becomes necessary to revise the expense loading in such a manner as to produce in the aggregate the amount now available. In theory the fixed charge should be applied to every policy regardless of size but for practical reasons it has been deemed advisable to apply the charge only to those policies on which the premium is less than the average annual premium required for qualification for experience rating. The revised loading to be used in conjunction with a policy charge to be applied in this manner may be calculated in accordance with the general formula

$$\frac{e P - [n K + n' (K - c)]}{P - [n K + n' (K - c)]}$$

Where c = average amount realized from constant in minimumpremium formula

e = existing expense loading

K = amount of policy charge

n' = number of minimum premium risks

n = number of risks (excluding minimum premium)risks) to which policy charge is to apply

P = total actual earned premium for all risks

It is, of course, assumed that the use of a constant in the minimum premium formula will be discontinued concurrently with the adoption of a policy expense charge.

The case with respect to the variations in loss cost with varia-

tions in size of risk is supported by loss ratio experience by premium size of risk. It is not the purpose of this discussion to attempt to determine the causes which bring about the variations in loss costs by size of risk but merely to describe briefly, proposals which have been submitted as possible means of recognizing such differences in loss costs as are indicated.

By way of illustration the experience for New York State for policy years 1924 and 1925 is given in Tables 5 to 14 inclusive. These tabulations show the experience by premium size group separately for non-participating and participating carriers for each policy year and for the two years combined, the combined experience of all carriers for each of the two years and for both years combined, and the experience by industry group by class of carrier for both policy years combined. The experience shown for non-participating carriers is that which was compiled by the National Bureau of Casualty and Surety Underwriters and that shown for participating carriers was compiled by the New York Compensation Inspection Rating Board. The data indicated for minimum premium risks includes all such risks irrespective of the size of premium. However, it should be pointed out in connection with Tables 8 to 13 inclusive that the State Fund did not report minimum premium risks as such but included them in the appropriate premium size group.

The premiums shown in these tabulations are collected premiums, consequently the indicated loss ratio differentials do not accurately reflect the actual conditions. The premium for minimum premium risks includes not only the premium developed by the application of manual rates to payrolls but also the effect of the \$10 constant in the minimum premium formula. Other factors which affect the premiums are the off-balance of merit rating plans and changes in manual rates. The experience rating plan produces a net credit in New York State with the result that the premiums shown for risks of \$400 or over² are less than would be produced at manual rates, thereby increasing the loss ratios for such risks and for all risks combined and diminishing the range of loss ratio differentials.

<sup>&#</sup>x27;The minimum premium formula effective in New York State during the period covered by this experience was 5 X rate + \$10.

<sup>&</sup>lt;sup>2</sup>\$400 average annual premium is approximately the premium qualification for experience rating in New York.

However, even upon the basis of collected premiums, there is a pronounced decrease in loss ratio as the size of premium increases. This is apparent in the experience of each policy year and of each class of carrier. Although this trend appears in each industry group there are marked variations among the several groups.

Several methods have been proposed by which the rate making procedure might be modified to recognize indicated differences in loss costs by size of risk. One proposal provided for establishing the rate level at the point indicated by experience of non-experience rated risks and provided for discounts from manual rates to be incorporated into the experience rating plan and to be applied to risks which develop sufficient premium to qualify for experience rating, the amount of the discount to increase as the The effect of such a plan would be to size of risk increased. provide for a uniform level of rates applicable to all non-experience rated risks and would not recognize differences in loss ratio differentials among such risks, although such differences would be recognized on risks which developed sufficient premium to qualify for experience rating.

Another proposed method provided for an increase in the premium of each risk with a payroll below a given amount, by an amount determined by multiplying the rate for such risk by a constant amount of payroll. As the amount to be added to risks of any one class would be uniform the effect of such a plan would be similar to that produced by a graduated percentage loading. Such a plan would in a general way recognize variations in loss ratio differentials on small risks by size as well as by industry. There are practical objections to the proposal due to the difficulty of determining the governing classification and of terminating its application at a particular amount of payroll.

A third proposal, developed by the Conference Committee, has been adopted in New York State. This plan provides for a charge of a flat amount of premium, termed a "loss constant". to be applied to all risks which develop a premium of less than \$400; the amount of the "loss constant" to vary by industry group and the increase in the total premium volume produced thereby to be offset by a reduction in rate level.

The manner in which the values of the "loss constant" and the corresponding reductions in rate level were determined is illustrated in Table 15 and 16. In its calculations the Committee took into consideration two elements which form a part of the general revision of workmen's compensation rate making formulae but which could be considered independently from loss constants: viz., the effect of the revision of the minimum premium formula<sup>3</sup> and the off-balance of the experience rating plan.

The data in Table 15 represent the combined experience of all carriers which reported experience by industry group. In each instance the experience of minimum premium risks has been included in the premium size group "under \$150". Premiums shown in the table are collected premiums.

The details of the calculation of the loss constants and corresponding reductions in rate level are given in Table 16. explanatory notes relative to the table are submitted below:

Column (1) These premiums are actual earned premiums shown in Table 15.

Column (2) In this column the actual premiums of each policy year for the size group "\$400 and over" have been brought to the manual levels of that year by adjusting the premiums for the off-balance of the experience rating plan.

Column (3) Here the manual premiums for each policy year have been brought to the future manual rate level based upon the experience of policy years 1923, 1924, and 1925 on the October 1, 1927 law level.

Column (4) These loss ratios are the ratios of losses shown in Table 15 to premiums on future manual level, column (3).

Column (5) The factors used to develop the premiums in the column are ratios of loss ratios indicated for the group "\$400 and over" to total loss ratios.

Column (6) The factors indicated in this column are ratios of loss ratios of the group "0-399" based upon the premiums in column (5) to total loss ratios indicated in column (4).

Column (7) In this column the manual rate level is increased by factors designed to offset the expected net credits resulting from future experience rating. The excess on risks over \$400 above the amounts indicated in column (5) will be eliminated by experience rating. The deficiency on risks under \$400 below the amounts indicated in column (6) will be made up from minimum premiums and loss constants.

Column (8) The estimated additional premium to be realized from a minimum premium formula of 15 X rate is shown in this column.

<sup>&</sup>lt;sup>3</sup>A minimum premium formula of 15 X rate was adopted in New York concurrently with the adoption of loss constants and a policy expense charge.

Column (9) The balance of the deficiency which is to be derived from loss constants is given here.

Column (10) The premiums in this column are total premiums to be realized from the application of the plan.

Column (11) shows loss ratios on the basis of premiums in column (10).

Column (12) The amount of the loss constant to be applied to each policy as shown in this column was obtained by dividing the total amount to be derived from loss constants as shown in column (9) by the number of risks under \$400 as shown in Table 15.

Column (13) The modifications of the manual rate level due to the introduction of loss constants and adjustments to offset the net credits resulting from the application of the experience rating plan are shown in this column.

The actual loss constants and corresponding offsetting reductions in manual rates adopted by the Conference Committee<sup>4</sup> and approved by the Superintendent of Insurance are as follows:

| Industry Group | Loss Constant | Offsetting Reduction in Manual Rates |
|----------------|---------------|--------------------------------------|
| Manufacturing  | \$20.00       | 2.5%                                 |
| Contracting    | 40.00         | 5.0                                  |
| All Other      | 4.00          | 0.0                                  |

The calculations made in Table 16 and the general formula for the calculation of a revised expense loading to be used in conjunction with a policy expense charge, appearing on page 267. are each based upon the assumption that the full amount of the charge will be collected on each risk shown by the experience to fall within the group to which such charge is to be applied. actual practise these assumptions will not be borne out for the reasons cited below:

- 1. Changes in rate level subsequent to the period for which experience has been tabulated will affect the number of risks within a given premium group.
- The introduction of a fixed charge per policy may reasonably be expected to bring about the consolidation of multiple policies covering the operations of one assured.

Many of the risks reported in the experience represent

<sup>&</sup>lt;sup>4</sup>A more comprehensive statement of this entire problem and of conclusions reached with respect to New York State will be found in the "Report of Conference Committee on Revision of Workmen's Compensation Rate Making Formulae" filed with the New York Insurance Department, December 17, 1927.

cancelled or short term policies on which the full amount of the charge presumably will not be collected.

In application it probably will be necessary to grade off the charge as the premium approaches the maximum sized risk to which the charge is to apply.

In view of these facts the actual reduction in rate level introduced to offset the effect of a policy charge should be somewhat less than that indicated by the experience.

In a state in which both loss constants and a policy expense charge are to be applied the amount of the expense charge should be reduced to the point where the net amount available from such charge plus that part of the loss constant available for the expenses contemplated by the expense charge will equal the net amount of the expense charge required per policy. For example, the Superintendent of Insurance of New York State approved a net policy expense charge of \$4. It was estimated that the average amount of the loss constants is such that the loading included therein for general administration and audit expense plus the net amount available for such expenses from a gross policy expense charge of \$3 are equivalent to a net amount of \$4, or a gross charge of \$5.

The size of risk experience which has been compiled for certain states does not appear to indicate a need for the redistribution of loss costs by size of risk within such states. In those states in which the experience does not indicate any very appreciable loss ratio differential by size of risk, it is possible that a comparison of manual loss ratios might alter the indications appreciably. It may be that a comparison of loss ratios by size measured in terms of exposure would indicate more or less uniform results from state to state. Experience in such form, however, is not available.

The necessity for a redistribution of expenses by size of risk to be applied to all states is apparent even for those states which develop a dependable volume of experience and which do not indicate the need for a redistribution of loss costs by size of risk. No attempt has been made in this discussion to explain the possible causes underlying the variations in loss ratio experience by size of risk since such explanations as have been put forth have been conjectural. It is to be hoped that further study of this problem will disclose the underlying causes.

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Experience of 24 Stock Companies Reported to the National Bureau

|                  |         |            |            | L      | oss Rati | io    | % of   | Total | Risks | % of 7 | otal Pr | emium | Ave          |       |        |               |
|------------------|---------|------------|------------|--------|----------|-------|--------|-------|-------|--------|---------|-------|--------------|-------|--------|---------------|
|                  | Number  |            |            | India  | Cumu-    | Cumu- | Indi-  | Cumu- | Cumu- | Indi-  | Cumu-   | Cumu- | Indi-        | Cumu- | Cumu-  | Loss<br>Ratio |
|                  | of      | Premium    | Losses     | vidual | lated    | lated | vidual | lated | lated | vidual | lated   | lated | vidual       | lated | lated  | Differ-       |
| Premium Group    | Risks   | Earned     | Incurred   | Group  |          | Up    | Group  |       |       | Group  |         |       | Group        |       |        | ential*       |
| Minimum Premium  | 43,309  | 797,505    | 590,569    | .741   | .741     | . 673 | 28.20  | 28.20 | 100%  | 3.06   | 3.06    | 100 % | \$18         | \$18  | \$170  | 1.101         |
| 0 24             | 24,122  | 403,406    | 358,648    | .889   | .790     | .671  | 15.71  | 43.91 | 71.80 | 1.55   |         |       | 17           | 18    | 229    | 1.321         |
| 25— 49           | 28,098  | 1,013,569  | 953,395    | .941   | .859     | .667  | 18.30  | 62.21 | 56.09 | 3.89   | 8.50    | 95.39 | 36           | 23    | 288    | 1.398         |
| 50 74            | 15,067  | 925,409    | 754,712    | .816   | .846     | .656  | 9.81   | 72.02 | 37.79 | 3.55   |         | 91.50 |              | 28    | 411    | 1.212         |
| 75 99            | 9,006   | 778,574    | 643,931    | .827   | .842     | .649  | 5.86   | 77.88 | 27.98 |        | 15.04   |       | 86           | 33    | 533    | 1.229         |
| 100 149          | 9,974   | 1,213,873  | 997,839    | .822   | .838     | . 643 | 6.50   | 84.38 | 22.12 |        | 19.70   |       | 122          | 40    | 651    | 1.221         |
| 150 199          | 5,445   | 944,876    | 712,875    | .754   | .825     | . 633 | 3.55   | 87.93 | 15.62 |        | 23.33   |       | 174          | 45    | 872    | 1.120         |
| 200 299          | 5,916   | 1,444,786  | 1,080,400  | .748   | .810     | .627  | 3.85   | 91.78 | 12.07 |        | 28.88   |       | 244          | 53    | 1,077  | 1.111         |
| 300— 399         | 3,206   | 1,113,333  | 773,513    | .695   | .795     | .617  | 2.09   | 93.87 | 8.22  | 4.28   | 33.16   | 71.12 | 347          | 60    | 1,467  | 1.033         |
| 400 499          | 1,915   | 852,608    | 587,537    | .689   | .786     | .612  | 1,25   | 95.12 | 6.13  | 3.28   | 36.44   | 66.84 | 445          | 65    | 1,848  | 1.024         |
| 500 999          | 3,757   | 2,640,709  | 1,696,687  | .643   | .754     | . 609 | 2.45   | 97.57 | 4.88  | 10.14  | 46.58   | 63.56 | 703          | 81    | 2,206  | . 955         |
| 1000 1999        | 1,942   | 2,698,255  | 1,640,403  | .608   | .728     | .602  | 1.26   | 98.83 | 2.43  |        |         | 53.42 | 1,389        | 98    | 3,713  | .903          |
| 2000— 2999       | 690     | 1,672,864  | 1,118,724  | .669   | .722     | .601  | .45    | 99.28 | 1.17  |        | 63.36   | 43.06 |              | 108   | 6,212  | .994          |
| 3000 4999        | 509     | 1,949,277  | 1,112,192  | .571   | .706     | .589  | .33    | 99.61 | .72   |        | 70.85   | 36.64 |              | 121   | 8,556  | .848          |
| 5000 9999        | 372     | 2,476,890  | 1,438,739  | .581   | .691     | . 593 | , 24   | 99.85 | .39   |        | 80.36   | 29.15 |              | 136   | 12,526 | , 863         |
| 1000019999       | 146     | 1,966,538  | 1,262,459  | .642   | .687     | .600  | .10    | 99.95 | .15   |        | 87.91   |       |              |       | 21,855 | .954          |
| 2000029999       | 51      | 1,262,119  | 734,184    | .582   | .681     | .573  | .03    | 99.98 | .05   |        |         | 12.09 |              |       | 35,766 | .865          |
| 30000 & Over     | 37      | 1,885,330  | 1,069,200  | . 567  | .673     | . 567 | .02    | 100%  | .02   | 7.24   | 100%    | 7.24  | 50,955       | 170   | 50,955 | .842          |
| Total            | 153,562 | 26,039,921 | 17,526,007 | . 673  |          |       | 100%   | ٠.    |       | 100%   |         |       | 170          |       |        | 1.000         |
| Five Size Groups |         |            |            |        |          |       |        |       |       |        |         |       |              |       |        |               |
| Minimum Premium  | 43,309  | 797,505    | 590,569    | .741   | .741     | .673  | 28.20  | 28.20 | 100%  | 3.06   | 3.06    | 100%  | <b>\$</b> 18 | \$18  | \$170  | 1.101         |
| 0 399            | 100,834 | 7,837,826  | 6,275,313  | .801   | .795     | .671  | 65.66  | 93.86 | 71.80 | 30.10  | 33.16   | 96.94 | 78           | 60    | 229    | 1.190         |
| 400 999          | 5,672   | 3,493,317  | 2,284,224  | .654   | .754     | .612  | 3.69   | 97.55 |       |        |         | 66.84 | 616          | 81    | 1,848  | .972          |
| 1000 4999        | 3,141   | 6,320,396  | 3,871,319  | .613   | .706     | .602  | 2.05   | 99.60 | 2.45  | 24.27  | 70.85   | 53.42 | 2,012        | 121   | 3,713  | .911          |
| 5000 & Over      | 606     | 7,590,877  | 4,504,582  | . 593  | .673     | . 593 | .40    | 100%  | .40   | 29.15  | 100%    | 29.15 | 12,526       | 170   | 12,526 | .881          |
| Total            | 153,562 | 26,039,921 | 17,526,007 | .673   |          |       | 100%   |       |       | 100%   |         |       | 170          |       |        | 1.000         |

<sup>\*</sup>Loss Ratio differentials are the loss ratios for the various size groups in the Individual Group column divided by the average loss ratio for all size groups combined.

# TABLE 6 NEW YORK COMPENSATION EXPERIENCE BY SIZE OF RISK Policy Year 1925

Compiled by National Bureau 8/15/27
Experience of 27 Stock Companies Reported to the National Bureau

All Industry Groups Combined

|                  |         |            |            | L      | oss Rat | io    | % of   | Total 1        | Risks          | % of T          | otal Pre | mium  |              | g. Prem<br>Per Ris |        |         |
|------------------|---------|------------|------------|--------|---------|-------|--------|----------------|----------------|-----------------|----------|-------|--------------|--------------------|--------|---------|
|                  | Number  |            |            | Indi-  | C       | Cumu- | T 31   | G              |                | 73.             | a        |       |              | 1_                 | l~     | Loss    |
|                  | of      | Premium    | Losses     | vidual | lated   | lated | vidual | Cumu-<br>lated | Cumu-<br>lated | Indi-<br>vidual | Cumu-    |       | Indi-        | Cumu-              |        | Ratio   |
| Premium Group    | Risks   | Earned     | Incurred   | Group  |         | Up    | Group  |                |                | Group           | lated    | lated | vidual       | lated              | lated  | Differ- |
|                  |         |            |            | Group  | ДОМП    | Op    | Group  | DOAT           | ОÞ             | Group           | Down     | Up    | Group        | Down               | Up     | ential* |
| Minimum Premium  | 52,022  | 1,022,683  | 538,346    | .526   | .526    | .585  | 27.83  | 27.83          | 100%           | 2.79            | 2.79     | 100 % | \$20         | \$20               | \$196  | .899    |
| 0 24             | 27,010  | 450,379    | 421,464    | .936   | .652    | .586  | 14.45  |                | 72.17          | 1.23            | 4.02     | 97.21 | 17           | 19                 | 264    | 1.600   |
| 25 49            | 32,731  | 1,174,100  | 1,034,756  | .881   | .753    | .582  | 17.51  |                |                | 3.20            | 7.22     |       | 36           | 24                 | 326    | 1.506   |
| 50 74            | 18,402  | 1,120,842  | 779,424    | .695   | .736    | .571  | 9.84   |                | 1              | 3.06            | 10.28    |       | 61           | 29                 | 453    | 1.188   |
| 75 99            | 11,297  | 974,183    | 739,116    | ,759   | .741    | .567  | 6.04   |                |                |                 | 12.94    |       | 86           | 34                 | 580    | 1.297   |
| 100 149          | 13,240  | 1,615,441  | 1,178,510  | .730   | .738    | .561  |        | 82.75          |                | 2               | 17.34    |       | 122          | 41                 | 702    | 1.248   |
| 150— 199         | 7,071   | 1,220,360  | 816,209    | .669   | .727    | .552  |        | 86.53          |                |                 | 20.67    |       | 173          | 47                 | 940    | 1.144   |
| 200 299          | 7,930   | 1,933,399  | 1,236,172  | .639   | .709    | .547  | 4.24   |                | 13.47          |                 | 25.94    |       | 244          | 56                 | 1.156  | 1.092   |
| 300— 399         | 4,326   | 1,495,449  | 916,708    | .613   | .696    | .541  |        | 93.09          | 9.23           |                 |          | 74.06 | 346          | 63                 | 1,576  | 1.048   |
| 400— 499         | 2,558   | 1,146,098  | 720,317    | .628   | .690    | .537  | 1.37   | 94.46          | 6.91           | 3.12            | 33.14    | 69.98 | 448          | 69                 | 1,988  | 1.074   |
| 500— 999         | 5,270   | 3,648,779  | 2,025,510  | . 555  | . 659   | .532  | 2.82   | 97.28          | 5.54           | 9.95            | 43.09    | 66.86 | 692          | 87                 | 2,368  | .949    |
| 1000— 1999       | 2,562   | 3,612,462  | 1,853,746  | .513   | .632    | .528  | 1.37   | 98.65          | 2.72           | 9.85            | 52.94    |       | 1.410        | 105                | 4.104  | .877    |
| 2000 2999        | 905     | 2,185,597  | 1,187,902  | ,544   | .623    | .532  | .48    | 99.13          | 1.35           | 5.96            | 58.90    | 47.06 | 2,415        | 117                | 6.839  | .930    |
| 3000 4999        | 730     | 2,780,217  | 1,374,836  | .495   | .608    | .530  | .39    | 99.52          | .87            | 7.58            | 66.48    |       | 3,809        | 131                | 9.311  | .846    |
| 5000 9999        | 518     | 3,603,616  | 1,845,750  | ,512   | .596    | .538  | .28    | 99.80          | .48            | 9.82            | 76,30    |       | 6,957        | 150                | 13.830 | .875    |
| 10000—19999      | 221     | 2,974,978  | 1,612,004  | .542   | .590    | .549  | .12    | 99.92          | .20            | 8.11            | 84.41    | 23.70 |              | 166                | 23,427 | .926    |
| 20000—29999      | 76      | 1,855,660  | 1,150,767  | .620   | ,592    | .552  | .04    | 99.96          | .08            | 5.06            | 89.47    |       | 24.417       | 176                | 38,108 | 1.060   |
| 30000 & Over     | 74      | 3,860,610  | 2,005,033  | .519   | .585    | .519  | .04    | 100 %          | .04            | 10.53           | 100%     | 10.53 | 52,170       | 196                | 52,173 | .887    |
| Total            | 186,943 | 36,674,853 | 21,436,570 | ,585   |         |       | 100 %  |                |                | 100%            |          |       | 196          |                    |        | 1.000   |
| Five Size Groups |         |            |            |        |         |       |        |                |                |                 |          |       |              |                    |        |         |
| Minimum Premium  | 52,022  | 1,022,683  | 538,346    | . 526  | .526    | .585  | 27.83  | 27.83          | 100%           | 2.79            | 2.79     | 100 % | <b>\$</b> 20 | \$20               | \$196  | .899    |
| 0 399            | 122,007 | 9,984,153  | 7,122,359  | .713   | .696    | .586  |        | 93.09          | 72.17          |                 | 30.01    | 97.21 | 82           | 63                 | 264    | 1.219   |
| 400 999          | 7,828   | 4,794,877  | 2,745,827  | .573   | .659    | .537  |        | 97.28          | 6.91           |                 |          | 69.99 | 613          | 87                 | 1,988  | .979    |
| 1000— 4999       | 4,197   | 8,578,276  | 4,416,484  | .515   | . 608   | .528  | 2.25   | 99.53          | 2.72           |                 | 66.48    |       | 2.044        | 131                | 4.104  | .880    |
| 5000 & Over      | 889     | 12,294,864 | 6,613,554  | .538   | .585    | .538  | .47    | 100%           | .47            | 33.52           | 100%     |       | 13,830       |                    | 13,830 | .920    |
| Total            | 186,943 | 36,674,853 | 21,436,570 | .585   |         |       | 100%   |                |                | 100%            | ·        |       | 196          |                    |        | 1.000   |

\*Loss Ratio differentials are the loss ratios for the various size groups in the Individual Group column divided by the average loss ratio for all size groups combined.

Compiled by National Bureau 8/15/27 Policy Years 1924 and 1925 Combined

Experience of Stock Companies Reported to the National Bureau\*

Ali Industry Groups Combined

|                  |                       | aported to th     |                    |                          | oss Rati       | io                   | % of                     | Total 1                | Risks | % of T                   | otal Pr                | emium                | Avg                      |                        |          |                                    |
|------------------|-----------------------|-------------------|--------------------|--------------------------|----------------|----------------------|--------------------------|------------------------|-------|--------------------------|------------------------|----------------------|--------------------------|------------------------|----------|------------------------------------|
| December Consu   | Number<br>of<br>Risks | Premium<br>Earned | Losses<br>Incurred | Indi-<br>vidual<br>Group | Cumu-<br>lated | Cumu-<br>lated<br>Up | Indi-<br>vidual<br>Group | Cumu-<br>lated<br>Down | lated | Indi-<br>vidual<br>Group | Cumu-<br>lated<br>Down | Cumu-<br>lated<br>Up | Indi-<br>vidual<br>Group | Cumu-<br>lated<br>Down | lated    | Loss<br>Ratio<br>Differ-<br>ential |
| Premium Group    | KIRKB                 | Earneu            | Incured            | Group                    | DOWIL          | - OP                 | Group                    | DO#11                  | - OP  | Group                    |                        | Op                   | Group                    | 2000                   |          |                                    |
| Minimum Premium  | 95,331                | 1,820,188         | 1,128,915          | .620                     | .620           | .621                 | 28.00                    | 28.00                  | 100%  | 2.90                     | 2.90                   | 100%                 | \$19                     | <b>\$</b> 19           | \$184    | .998                               |
| 0- 24            | 51,132                | 853,785           | 780,112            | .914                     | .714           | .621                 | 15.02                    | 43.02                  | 72.00 | 1.36                     | 4.26                   | 97.10                | 17                       | 18                     | 248      | 1.472                              |
| 25 49            | 60,829                | 2,187,669         | 1,988,151          | .909                     | .802           | .617                 | 17.86                    | 60.88                  | 56.98 | 3.49                     | 7.75                   | 95.74                | 36                       | 23                     | 309      | 1.464                              |
| 50 74            | 33,469                | 2.046,251         | 1,534,136          | .750                     | .786           | .606                 | 9.83                     | 70.71                  | 39.12 | 3.26                     | 11.01                  | 92.25                | 61                       | 29                     | 434      | 1.208                              |
| 75— 99           | 20,303                | 1.752.757         | 1,383,047          | .789                     | .787           | .601                 | 5.96                     | 76.67                  | 29.29 | 2.80                     | 13.81                  | 88.99                | 86                       | 33                     | 560      | 1.271                              |
| 100 149          | 23,214                | 2,829,314         | 2,176,349          | .769                     | .782           | .595                 | 6.82                     | 83,49                  | 23.33 | 4.51                     | 18.32                  | 86.19                | 122                      | 40                     | 680      | 1.238                              |
| 150— 199         | 12,516                | 2,165,236         | 1,529,084          | .706                     | .770           | .585                 | 3.68                     | 87.17                  | 16.51 |                          | 21.77                  | 81.68                | 173                      | 46                     | 911      | 1.137                              |
| 200 299          | 13,846                | 3,378,185         | 2,316,572          | .686                     | .754           | .580                 | 4.07                     | 91.24                  | 12.83 | 5.39                     | 27.16                  | 78.23                | 244                      | 55                     | 1,122    | 1.105                              |
| 300 399          | 7,532                 | 2,608,782         | 1,690,221          | .648                     | .740           | . 572                | 7.21                     | 93.45                  | 8.76  | 4.16                     | 31.32                  | 72.84                | 346                      | 62                     | 1,530    | 1.043                              |
| 400 499          | 4,473                 | 1,998,706         | 1,307,854          | .654                     | .732           | .567                 | 1.31                     | 94.76                  | 6.55  | 3.19                     | 34.51                  | 68.68                | 447                      | 67                     | 1,929    | 1.053                              |
| 500 999          | 9,027                 | 6,289,488         | 3,722,197          | .592                     | .700           | .563                 | 2.65                     | 97.41                  | 5.24  | 10.03                    | 44.54                  | 65.49                | 697                      | 84                     | 2,300    | .953                               |
| 1000 1999        | 4,504                 | 6,310,717         | 3,494,149          | .554                     | .673           | .558                 | 1.32                     | 98.73                  | 2.59  | 10.06                    | 54.60                  | 55.46                | 1,401                    | 102                    | 3,938    | .892                               |
| 2000 2999        | 1,595                 | 3,858,461         | 2,306,626          | .598                     | .666           | .559                 | .47                      | 99.20                  | 1.27  | 6.15                     | 60.75                  | 45.40                | 2,419                    | 113                    | 6,577    | . 963                              |
| 3000 4999        | 1,239                 | 4,729,494         | 2,487,028          | . 526                    | .650           | .553                 | .36                      | 99.56                  | ,60   |                          | 68.29                  | 39.25                | 3,817                    | 126                    | 9,003    | .847                               |
| 5000 9999        | 890                   | 6,080,506         | 3,284,489          | .540                     | .636           | .559                 | .26                      | 99.82                  | .44   | 9.70                     | 77.99                  | 31.71                | 6,832                    | 144                    | 13,301   | .870                               |
| 1000019999       | 367                   | 4,941,516         | 2,874,463          | .582                     | .631           | .567                 | .11                      | 99.93                  | .18   | 7.88                     | 85.87                  | 22.01                |                          |                        | 22,819   | . 937                              |
| 2000029999       | 127                   | 3,117,779         | 1,884,951          | .605                     | .630           | .559                 | .04                      | 99.97                  | .07   | 4.97                     | 90.84                  | 14.13                |                          | .167                   | 37,243   | .974                               |
| 30000 & Over     | 111                   | 5,745,940         | 3,074,233          | .535                     | .621           | .535                 | .03                      | 100%                   | .03   | 9.16                     | 100%                   | 9.16                 | 51,765                   | 184                    | 51,765   | .862                               |
| Total            | 340,505               | 62,714,774        | 38,962,577         | .621                     | •••            |                      | 100%                     |                        |       | 100%                     |                        |                      | 184                      |                        |          | 1.000                              |
| Five Size Groups |                       |                   |                    |                          |                |                      |                          |                        |       |                          |                        |                      |                          |                        |          |                                    |
| Minimum Premium  | 95,331                | 1,820,188         | 1,128,915          | .620                     | .620           | .621                 | 28.00                    | 28.00                  |       | 2.90                     | 2.90                   | 100%                 | <b>\$</b> 19             | <b>\$</b> 19           | \$184    | .998                               |
| 0 399            | 222,841               | 17,821,979        | 13,397,672         | .752                     | .740           | .621                 | 65.44                    | 93.44                  |       |                          |                        | 97.10                | 1                        | 62                     | 248      | 1.211                              |
| 400 999          | 13,500                | 8,288,194         | 5,030,051          | ,607                     | .700           | .567                 |                          | 97.40                  |       |                          |                        | 68.68                |                          | 84                     | 1,929    | .977                               |
| 1000 4999        | 7,338                 | 14,898,672        | 8,287,803          | .556                     | .650           | .558                 | 2.16                     | 99.56                  |       | 23.76                    |                        | 55.47                | 2,030                    | 126                    | 3,938    | .895                               |
| 5000 & Over      | 1,495                 | 19,885,741        | 11,118,136         | . 559                    | .621           | . 559                | .44                      | 100%                   | .44   | 31.71                    | 100%                   | 31.71                | 13,301                   | 184                    | 13,301   | . 900                              |
| Total            | 340,505               | 62,714,774        | 38,962,577         | .621                     |                |                      | 100 %                    |                        |       | 100%                     |                        |                      | 184                      | l <u></u>              | <u> </u> | 1.000                              |

†Loss Ratio differentials are the loss ratios for the various size groups in the Individual Group column divided by the average loss ratio for all size groups combined.

<sup>\*24</sup> companies for policy year 1924 and 27 companies for policy year 1925.

# TABLE 8 NEW YORK COMPENSATION EXPERIENCE BY SIZE OF RISK

Compiled by National Bureau 8/15/27

Policy Year 1924

Experience of Mutual Companies and State Fund

|                  |                       |                   |                    | L                        | oss Rat | io    | % of                     | Total :                | Risks | % of 7                   | otal Pr                | emium | Av                       |                        |               |                                     |
|------------------|-----------------------|-------------------|--------------------|--------------------------|---------|-------|--------------------------|------------------------|-------|--------------------------|------------------------|-------|--------------------------|------------------------|---------------|-------------------------------------|
| Premium Group    | Number<br>of<br>Risks | Premium<br>Earned | Losses<br>Incurred | Indi-<br>vidual<br>Group | lated   | lated | Indi-<br>vidual<br>Group | Cumu-<br>lated<br>Down | lated | Indi-<br>vidual<br>Group | Cumu-<br>lated<br>Down | lated | Indi-<br>vidual<br>Group | Cumu-<br>lated<br>Down | lated         | Loss<br>Ratio<br>Differ-<br>ential* |
| Minimum Premium  | 187                   | 4,254             | 362                | .085                     | .085    | .630  | .97                      | .97                    | 100 % | .05                      | .05                    | 100%  | \$23                     | <b>\$</b> 23           | <b>\$</b> 444 | .135                                |
| 0— 24            | 7.486                 | 155,849           | 191,619            | 1.230                    | 1.199   | .631  | 38.68                    | 39.65                  | 99.03 | 1.81                     | 1.86                   | 99.95 | 21                       | 21                     | 448           | 1.952                               |
| 25— 49           | 738                   | 27,534            | 6,378              | .232                     | 1.057   | .620  | 3.81                     | 43.46                  | 60.35 | .32                      | 2.18                   | 98.14 | 37                       | 22                     | 722           | .368                                |
| 50— 74           | 1,735                 | 105,426           | 94,202             | .894                     | .998    | .621  | 8.96                     | 52,42                  | 56.54 | 1.23                     | 3.41                   | 97.82 | 61                       | 29                     | 768           | 1.419                               |
| 75— 99           | 1,202                 | 103,855           | 96,248             | .927                     | .980    | .617  | 6.21                     | 58.63                  | 47.58 | 1.21                     | 4.62                   | 96.59 | 86                       | 35                     | 902           | 1.471                               |
| 100 149          | 1,598                 | 195,372           | 178,710            | ,915                     | .958    | .613  | 8.26                     | 66.89                  | 41.37 | 2.27                     | 6.89                   | 95.38 | 122                      | 46                     | 1,024         | 1.452                               |
| 150 199          | 1,000                 | 173,552           | 106,949            | .616                     | .881    | .606  | 5.17                     | 72.06                  | 33.11 | 2.02                     | 8.91                   | 93.11 | 174                      | 55                     | 1,249         | .978                                |
| 200 299          | 1,271                 | 312,021           | 225,208            | .722                     | .835    | .606  | 6.57                     | 78.63                  | 27.94 | 3.63                     | 12.54                  | 91.09 | 245                      | 71                     | 1,448         | 1.146                               |
| 300 399          | 729                   | 251,434           | 157,733            | .627                     | ,795    | .601  | 3.77                     | 82.40                  | 21.37 | 2.93                     | 15.47                  | 87.46 | 345                      | 83                     | 1,818         | .995                                |
| 400 499          | 481                   | 214,353           | 121,395            | .566                     | .764    | .600  | 2.49                     | 84.89                  | 17.60 | 2.49                     | 17.96                  | 84.53 | 446                      | 94                     | 2,133         | .898                                |
| 500— 999         | 1,227                 | 863,509           | 644,090            | .746                     | .757    | ,601  | 6.34                     | 91.23                  | 15.11 | 10.04                    | 28.00                  | 82.04 | 704                      | 136                    | 2,411         | 1.184                               |
| 1000 1999        | 833                   | 1,169,699         | 698,408            | .597                     | .705    | .581  | 4.30                     | 95.53                  | 8.77  | 13.61                    | 41.61                  | 72.00 | 1,404                    | 193                    | 3,645         | .948                                |
| 2000 2999        | 323                   | 787,427           | 429,922            | .546                     | .676    | .577  | 1.67                     | 97.20                  | 4.47  | 9.16                     | 50.77                  | 58.39 | 2,438                    | 232                    | 5,802         | .867                                |
| 3000— 4999       | 247                   | 947,796           | 580,014            | .612                     | .665    | .583  | 1.28                     | 98.48                  | 2.80  | 11.03                    | 61.80                  | 49.23 | 3,837                    | 279                    | 7,807         | .971                                |
| 5000— 9999       | 177                   | 1,108,519         | 677,742            | .611                     | .656    | .575  | .91                      | 99.39                  | 1.52  | 12.90                    | 74.70                  | 38.20 | 6,263                    | 334                    | 11,131        | .970                                |
| 10000—19999      | 87                    | 1,181,820         | 706,514            | .598                     | .647    | .556  | .45                      | 99.84                  | .61   | 13.75                    | -                      | 25.30 |                          | 393                    | 18,433        | .949                                |
| 2000029999       | 22                    | 526,432           | 247,681            | .470                     | ,635    | .506  | .11                      | 99.95                  | .16   | 6.12                     |                        | 11.55 |                          |                        | 32,042        | .746                                |
| 30000 & Over     | 9                     | 466,855           | 254,938            | .546                     | .630    | .546  | .05                      | 100%                   | .05   | 5.43                     | 100%                   | 5.43  | 51,873                   | 444                    | 51,873        | .867                                |
| Total            | 19,352                | 8,595,707         | 5,418,113          | . 630                    |         |       | 100%                     |                        |       | 100%                     |                        |       | 444                      |                        |               | 1.000                               |
| Five Size Groups |                       |                   |                    |                          |         |       |                          |                        |       |                          |                        |       |                          |                        |               |                                     |
| Minimum Premium  | 187                   | 4,254             | 362                | .085                     | .085    | .630  | .97                      | .97                    | 100%  | .05                      | .05                    | 100%  | \$23                     | <b>\$</b> 23           | <b>\$444</b>  | . 135                               |
| 0— 399           | 15,759                | 1,325,043         | 1,057,047          | .798                     | .795    | .631  | 81.43                    | 82.40                  | 99.03 | 15.42                    | 15.47                  | 99.95 | 84                       | 83                     | 448           | 1.267                               |
| 400 999          | 1,708                 | 1,077,862         | 765,485            | .710                     | .757    | .600  | 8.83                     | 91.23                  | 17.60 | 12.54                    | 28.01                  | 84.53 | 631                      | 136                    | 2,133         | 1.127                               |
| 1000— 4999       | 1,403                 | 2,904,922         | 1,708,344          | .588                     | .665    | .581  | 7.25                     | 98.48                  | 8.77  | 33.79                    | 61.80                  | 71.99 | 2,071                    | 279                    | 3,645         | .933                                |
| 5000 & Over      | 295                   | 3,283,626         | 1,886,875          | . 575                    | .630    | .575  | 1.52                     | 100 %                  | 1,52  | 38.20                    | 100 %                  | 38.20 | 11,131                   | 444                    | 11,131        | .913                                |
| Total            | 19,352                | 8,595,707         | 5,418,113          | . 630                    |         |       | 100%                     | ·                      |       | 100%                     |                        |       | 444                      |                        |               | 1.000                               |

<sup>\*</sup>Loss Ratio differentials are the loss ratios for the various size groups in the Individual Group column divided by the average loss ratio for all size groups combined.

TABLE 9
NEW YORK COMPENSATION EXPERIENCE BY SIZE OF RISK

Compiled by National Bureau 8/15/27

Experience of Mutual Companies and State Fund

All Industry Groups Combined

| All Industry Groups Comp |        |            |           |          |          |             |        |          |                |        |           |          | Сощощес |          |             |          |
|--------------------------|--------|------------|-----------|----------|----------|-------------|--------|----------|----------------|--------|-----------|----------|---------|----------|-------------|----------|
| 1                        |        |            |           | l _      |          |             |        |          |                | i i    |           |          | Ave     | 1        |             |          |
| [                        |        |            |           | L        | oss Rat  | io          | % of   | Total 1  | Risks          | % of 7 | otal Pr   | emium    | ]       | Per Risl | ĸ           |          |
|                          | l I    |            |           |          | I        | 1           |        |          | <br>I          |        |           | ī        |         | Ι        | 1           | Loss     |
| 1                        | Number |            | _         | Indi-    | Cumu-    | Cumu-       | Indi-  | Cumu-    | Cumu-          | Indi-  | Cumu-     | Cumu-    | Indi-   | Cumu-    | Chimii-     | Ratio    |
| <b>5</b> . ~             | of     | Premium    | Losses    | vidual   | lated    | lated       | vidual | lated    | lated          | vidual | lated     | lated    | vidual  | lated    | lated       | Differ-  |
| Premium Group            | Risks  | Earned     | Incurred  | Group    | Down     | Up          | Group  | Down     | Up             | Group  | Down      |          | Group   |          |             | ential*  |
|                          | ]      |            |           | <u> </u> |          |             |        |          |                |        |           |          | Group   | 2011     |             | - OHOIGH |
| Minimum Premium          | 315    | 6,188      | 2,846     | .460     | .460     | .571        | 1.25   | 1.25     | 100%           | .04    | .04       | 100%     | \$20    | \$20     | \$572       | .806     |
| 0 24                     | 6,372  | 91,147     | 65,663    | .720     | .704     | .571        | 25.34  | 26.59    |                | .63    | .67       | 99.96    | 14      | 15       | 579         | 1.261    |
| 25 49                    | 3,082  | 110,030    | 94,304    | .857     | .785     | .570        | 12.26  | 38.85    | 73.41          | .77    | 1.44      |          | 36      | 21       | 774         | 1.501    |
| 50 74                    | 2,273  | 138,235    | 177,841   | 1.287    | .986     | .568        | 9.04   |          | 61.15          | .96    | 2.40      |          | 61      | 29       | 922         | 2.254    |
| 75— 99                   | 1,469  | 126,544    | 106,748   | .844     | .948     | .561        | 5.84   |          | 52.11          | .88    |           | 97.60    | 86      | 35       | 1,071       | 1.478    |
| 100 149                  | 2,078  | 242,712    | 196,824   | .811     | .901     | .558        | 8.26   | 61.99    | 46.27          | 1.69   | 4.97      |          | 117     | 46       | 1,195       | 1.420    |
| 150 199                  | 1,439  | 249,302    | 156,360   | .627     | .830     | .553        | 5.72   |          | 38.01          | 1.73   | 6.70      |          | 173     | 57       | 1,195       | 1.420    |
| 200 299                  | 1,668  | 412,262    | 228,542   | .554     | .748     | .552        | 6.63   |          |                | 2.87   | 9.57      | 93.30    | 247     | 74       | 1,652       | .970     |
| 300 399                  | 1,124  | 388,133    | 237,871   | .613     | .718     | .552        | 4.47   | 78.81    |                | 2.70   | 12.27     | 90.43    | 345     | 89       |             |          |
|                          |        |            |           |          |          |             | 2.11   |          | 25.00          | 2.10   | 12.21     | 90.43    | 343     | 99       | 2,015       | 1.074    |
| 400— 499                 | 760    | 337,993    | 242,722   | .718     | .718     | .550        | 3 02   | 81.83    | 21.19          | 2.35   | 14.62     | 87,73    | 445     | 102      | 0.007       | 1 055    |
| 500— 999                 | 1,887  | 1,357,459  | 829,201   | .611     | .676     | .546        |        | 89.33    | 18.17          | 9.44   |           | 85.38    | 719     |          | 2,367       | 1.257    |
| 1000 1999                | 1,279  | 1,822,272  | 1.113.896 | .611     | .654     | .537        |        | 94.42    | 10.67          |        | 36.73     |          | 1.425   | 154      | 2,687       | 1.070    |
| 2000 2999                | 491    | 1,194,599  | 673,096   | .563     | .637     | .523        | 1.95   | 96.37    | 5.58           | 8.31   | 45.04     | ,        |         | 222      | 4,072       | 1.070    |
| 3000 4999                | 412    | 1,610,153  | 845,917   | .525     | .615     | .516        | 1.64   | 98.01    | 3.63           |        | 56.24     |          | 2,433   | 267      | 6,485       | .986     |
| 5000 9999                | 314    | 2,163,596  | 1,133,303 | .524     | .596     | .514        | 1.25   | 99.26    | 1.99           | 15.05  | 71.29     |          | 3,908   | 328      | 8,666       | .919     |
| 1000019999               | 124    | 1,773,139  | 977,774   | .551     | .589     | .509        | .49    | 99.75    | .74            |        |           |          | 6,890   | 411      | 12,586      | .918     |
| 20000-29999              | 29     | 689,780    | 324,570   | .471     | .583     | .477        | .12    | 99.75    |                | 4.79   | 83.62     | 28.71    |         | 479      | 22,201      | .965     |
| 30000 & Over             | 33     | 1,666,538  | 800,059   | .480     | .571     | .480        | .13    |          | .25            |        | 88.41     |          | 23,786  |          | 38,005      | .825     |
|                          |        | 1,000,000  | 000,000   | .400     | 1.311    | .400        | .13    | 100%     | . 13           | 11.59  | 100 %     | 11.59    | 50,501  | 572      | 50,501      | .841     |
| Total                    | 25,149 | 14,380,082 | 8,207,537 | .571     | 1        |             | 1000   |          |                | 100 0  | <u> </u>  |          |         |          | <del></del> |          |
|                          | 20,140 | 14,000,002 | 0,201,031 | .5/1     |          | ••          | 100%   | • • •    |                | 100 %  | • • •     | • • •    | 572     | • •      |             | 1.000    |
| Five Size Groups         |        |            |           |          |          |             |        |          |                |        |           |          |         |          |             |          |
|                          | 1      |            |           | 1        | <b>.</b> | 1           | 8      |          |                |        | 1         |          |         |          |             |          |
| Minimum Premium          | 315    | 6.188      | 2.846     | .460     | .460     | .571        | 1.25   | 1.25     | 100 %          |        |           | 1,00 %   | • • • • |          |             |          |
| 0- 399                   | 19,505 | 1,758,365  | 1,264,153 | .719     | .718     | .571        | 77.56  | 78.81    | , ,            | .04    | .04       | /0       | \$20    | \$20     | \$572       | .806     |
| 400 999                  | 2,647  | 1,695,452  | 1,071,923 | ,632     | 676      | .550        | 10.52  |          | 98.75<br>21.19 |        |           | 99.96    | 90      | 89       | 579         | 1.259    |
| 1000 4999                | 2,182  | 4,627,024  | 2,632,909 | ,569     | .615     | .537        |        |          |                |        |           | 87.73    | 641     | 154      | 2,367       | 1.107    |
| 5000 & Over              | 500    | 6,293,053  | 3,235,706 | .514     | .571     |             | 8.68   |          | 10.67          |        | 56.24     |          | 2,121   | 328      | 4,072       | .996     |
|                          |        | 0,293,033  | 0,200,700 | .014     | .3/1     | .514        | 1.99   | 100%     | 1.99           | 43.76  | 100%      | 43.76    | 12,586  | 572      | 12,586      | . 900    |
| Total                    | 25,149 | 14,380,082 | 8 207 527 | .571     |          |             | 100%   |          |                | 1000   |           |          |         |          |             |          |
| *I one Dotte differen    |        |            | 0,201,001 | 1 .311   | <u> </u> | <del></del> | 100%   | <u> </u> | <u>'</u>       | 100%   | <u></u> _ | <u> </u> | 572     | <u> </u> | <u> </u>    | 1.000_   |

Policy Year 1925

<sup>\*</sup>Loss Ratio differentials are the loss ratios for the various size groups in the Individual Group column divided by the average loss ratio for all size groups combined.

All Industry Groups Combined

# TABLE 10 NEW YORK COMPENSATION EXPERIENCE BY SIZE OF RISK

Compiled by National Bureau 8/15/27
Experience of Mutual Companies and State Fund

400- 999

1000-- 4999

5000 & Over

Total . . . . . . . .

4,355

3,585

44.501

795

2,773,314

7.531.946

9.576,679

22,975,789

1.837.408

4.341.253

5.122,581

13.625.650

.663

.576

.535

. 593

.709

. 635

.593

Policy Years 1924 & 1925 Combined

Avg. Premium Loss Ratio % of Total Risks % of Total Premium Per Risk Loss Indi- Cumu-Cumu-Indi-Cumu-Cumu-Indi-Cumu-Cumu-Indi-Cumu-Cumu-Ratio Number lated vidual vidual of Premium Losses vidual lated lated lated vidual lated lated lated lated Differ-Premium Group Risks Earned Incurred Group Down Up Group Down Up Group Down Uρ Group Down ential\* .307 100 % 100% Minimum Premium 502 10.442 3.208 .307 . 593 1.13 1.13 . 05 . 05 \$21 \$21 \$516 .518 32.27 0---24 13,858 246.996 257.282 1.042 .012 .593 31.14 98.87 1.08 1.13 99.95 18 522 1.757 25---49 3.820 137.564 100.682 .732 .914 . 588 8.59 40.86 67.73 .60 1.73 98.87 36 22 754 1.234 .587 61 29 50-74 4.008 243,661 272,043 1.116 .991 9.01 49.87 59.14 1.06 2.79 98.27 858 1.882 99 230,399 202,996 .881 .962 .582 6.00 55.87 50.13 1.00 3.79 97,21 86 35 1,001 75---2.671 1.486 100-149 3.676 438,084 375,534 .857 .927 .579 8.26 64.13 44.13 1.91 5.70 96.21 119 46 1.125 1.445 150---199 2,439 422.854 263.309 .623 .853 . 573 5.48 69.61 35.87 1.84 7.54 94.30 173 56 1,357 1.051 453,750 .786 .572 72 200---299 2.939 724.283 . 626 6.61 76.22 30.39 3.15 10.69 92.46 246 1.571 1.056 300-399 1.853 639.567 395,604 .619 .751 .570 4.16 80.38 23.78 2.78 13.47 89.31 345 87 1.938 1.044 364.117 .659 .737 568 2.79 83.17 19.62 2.40 15.87 86.53 400- 499 1,241 552.346 445 99 2.276 1.111 2.220.968 1.473.291 .709 7.00 90.17 500- 999 3,114 . 663 .566 16.83 9.67 25.54 84.13 713 146 2.579 1.118 2,991,971 1.812.304 .606 .674 .553 4.75 94.92 9.83 13.02 38.56 74.46 1.417 210 3,906 1.022 1000--- 1999 2,112 2000- 2999 1,982,026 1,103,018 .557 653 .542 1.83 96.75 5.08 8.63 47.19 61.44 2,435 252 6,224 .939 814 3000--- 4999 659 2,557,949 1,425,931 .557 635 .540 1.48 98.23 3.25 11.13 58.32 52.81 3,882 307 8,346 .939 5000--- 9999 491 3.272.115 1,811,045 .553 .619 .5351.10 99.33 1.77 14.24 72.56 41.68 6.664 377 12,046 .933 2.954.959 1.684,288 .570 .47 99.80 .67 12.86 85.42 27.44 20.739 10000-19999 211 .611 52514,005 442 .961 20000-29999 1,216,212 572,251 .471 603 90.71 14.58 23.847 469 51 .486 .11 99.91 .20 5.29 36.017 .794 .593 100% 9.29 50,795 30000 & Over 2,133,393 1,054,997 .495 .495 .09 .09 9.29 100% 516 50,795 .835 Total . . . . . 44.501 22,975,789 13.625.650 .593 100% 100% 516 1.000 Five Size Groups .307 1.13 100% Minimum Premium 502 10.442 3.208 .307 .593 1.13 .05 .05 100 % \$21 **\$**21 \$516 .518 2,321,200 .751 . 593 79.24 80.37 98.87 13,42 13.47 87 0-399 35.264 3.083.408 .753 99.95 522 1.270

\*Loss Ratio differentials are the loss ratios for the various size groups in the Individual Group column divided by the average loss ratio for all size groups combined.

. 568

. 553

.535

9.79

8.05

1.79

100%

90.16

98.21

100%

19.63

9.84

1.79

12.07

32.78

41.68

100%

25.54 86.53

74.46

41.68

58.32

100 %

637

516

2.101

12,046

146

307

516

2,276

3,906

12,046

1.118

.971

.902

1.000

### ........ NEW YORK COMPENSATION EXPERIENCE BY SIZE OF RISK Policy Year 1924

Compiled by National Bureau 8/15/27 Experience of Stock Companies, Mutuals and State Fund Combined

|                  | A A     |            |               |        |         |       |        |                |       |        |         |                | All Industry Groups Comb |            |          | Compine       |
|------------------|---------|------------|---------------|--------|---------|-------|--------|----------------|-------|--------|---------|----------------|--------------------------|------------|----------|---------------|
|                  |         |            |               | J      |         |       |        |                |       |        |         |                | Av                       | 1          |          |               |
|                  | 1       | 1          |               | 7      | oss Rat | 10    | _ % of | Total :        | Risks | % of 7 | otal Pr | emium          | 1                        | Per Ris    | k        |               |
|                  | Number  | •          |               |        | ~       | _     |        |                |       |        | Ī       |                |                          |            | <u> </u> | Loss          |
|                  | of      | D          |               |        | Cumu-   |       |        |                | Cumu- |        | Cumu-   |                | Indi-                    | Cumu-      | Cumu-    | Ratio         |
| Premium Group    | 1       | Premium    | Losses        | vidual | lated   | lated | vidual |                | lated | vidual | lated   | lated          | vidual                   | lated      | lated    | Differ-       |
| Fremum Group     | Risks   | Earned     | Incurred      | Group  | Down    | Up    | Group  | Down           | Up    | Group  | Down    | Up             | Group                    | Down       | Up       | ential*       |
| Minimum Premium  | 43,496  | 801,759    | 590,931       | .737   | .737    | .662  | 25: 15 | 25.15          | 100%  | 2.32   | 2.32    | 100.07         |                          |            |          |               |
| 0— 24            | 31,608  | 559,255    | 550,267       | .984   | .838    | .661  | 18.28  | 43.43          |       | 1.61   | 3.93    | 100 %<br>97.68 | \$18                     | \$18       | \$200    | 1.113         |
| 25 49            | 28,836  | 1.041,103  | 959,773       | .922   | .875    | .655  | 16.68  | 60.11          |       | 3.01   | 6.94    | 96.07          | 18                       | 18         | 261      | 1.486         |
| 50 74            | 16.802  | 1,030,835  | 848,914       | .824   | .859    | .647  |        | 69.83          |       | 2.98   | 9.92    |                | 36                       | 23         | 340      | 1.393         |
| 75 99            | 10,208  | 882,429    | 740,179       | .839   | .855    | .641  |        | 75.73          |       | 2.55   |         | 93.06          | 61                       | 28         | 467      | 1.245         |
| 100 149          | 11,572  | 1,409,245  | 1,176,549     | .835   | .850    | .635  |        | 82.42          |       |        | 12.47   | 90.08          | 86                       | 33         | 598      | 1.267         |
| 150 199          | 6,445   | 1.118.428  | 819,824       | .733   | .831    | .625  | 3.73   | 86.15          |       | 4.07   | 16.54   | 87.53          | 122                      | 40         | 723      | 1.261         |
| 200 299          | 7,187   | 1.756.807  | 1,305,608     | .743   | .813    | .621  |        | 90.31          |       | 3.23   | 19.77   | 83.46          | 174                      | 46         | 951      | 1.107         |
| 300— 399         | 3,935   | 1,364,767  | 931,246       | .682   | .795    | .613  | 2.28   |                |       | 5.07   | 24.84   | 80.23          | 244                      | 55         | 1,161    | 1.122         |
|                  |         | 1,001,101  | 231,240       | .002   | . 795   | .013  | 2.28   | 92.59          | 9.69  | 3.94   | 28.78   | 75.16          | 347                      | 62         | 1,553    | 1.030         |
| 400 499          | 2,396   | 1,066,961  | 708,932       | .664   | .783    | .609  | 1.39   | 93.98          | 7.41  | 3.08   | 31.86   | 71.22          | 445                      | 68         | 1.924    | 1 000         |
| 500 999          | 4,984   | 3,504,218  | 2,340,777     | .668   | .755    | .606  | 2.88   | 96.86          | 6.02  |        | 41.98   |                | 703                      | 87         | 2.263    | 1.003         |
| 1000 1999        | 2,775   | 3,867,954  | 2,338,811     | .605   | .723    | .596  | 1.60   | 98.46          | 3.14  | 11.17  | 53.15   | 58.02          | 1.394                    | 108        | 3,691    | 1.009         |
| 2000 2999        | 1,013   | 2,460,291  | 1,548,646     | .629   | .712    | .593  | .58    | 99.04          | 1.54  | 7.10   | 60.25   | 46.85          | 2,429                    | 122        |          | .914          |
| 3000— 4999       | 756     | 2,897,073  | 1,692,206     | .584   | .697    | .587  | .44    | 99.48          | .96   |        | 68.61   | 39.75          | 3.832                    | 138        | 6,079    | . 950         |
| 5000 9999        | 549     | 3,585,409  | 2.116.481     | .590   | .683    | .588  | .32    | 99.80          | .52   | 10.35  | 78.96   | 31.39          | 6.531                    |            | 8,311    | .882          |
| 1000019999       | 233     | 3,148,358  | 1,968,973     | .625   | .677    | .586  | .13    | 99.93          | .20   | 9.09   | 88.05   | 21.04          |                          | 158<br>176 | 12,069   | .891          |
| 2000029999       | 73      | 1.788.551  | 981,865       | .549   | .670    | .557  | .04    | 99.97          | .07   | 5.18   | 93.21   | 11.95          |                          |            | 20,708   | .944          |
| 30000 & Over     | 46      | 2,352,185  | 1,324,138     | .563   | .662    | .563  | .03    | 100%           | .03   |        |         |                | 51.134                   |            | 34,796   | .829          |
| <del></del>      | ļ       |            |               |        |         |       |        | 100 /0         |       | 0.75   | 100 %   | 0.79           | 31,134                   | 200        | 51,134   | .850          |
| Total            | 172,914 | 34,635,628 | 22,944,120    | .662   |         |       | 100%   |                |       | 100%   |         |                | 200                      |            |          | 1.000         |
| Five Size Groups |         |            | <del></del> - |        |         |       |        |                |       |        |         |                |                          |            |          | <del></del> . |
| Minimum Premium  | 43,496  | 801,759    | 590,931       | .737   | .737    | .662  | 05 15  | 25 15          | 1000  | 0.00   | 0.00    | 100 6          |                          |            |          |               |
| 0- 399           | 116,593 | 9,162,869  | 7,332,360     | .800   | .795    | .661  |        | 25.15<br>92.59 |       | 2.32   | 2.32    |                | \$18                     | \$18       | \$200    | 1.113         |
| 400 999          | 7,380   | 4,571,179  | 3,049,709     | .667   | .755    | .609  | 4.27   | _              |       |        | 28.78   |                |                          | 62         | 261      | 1.208         |
| 1000— 4999       | 4,544   | 9,225,318  | 5,579,663     | .605   | .697    | .596  |        | 96.86          |       |        | 41.98   |                | 619                      | 87         | 1,924    | 1.008         |
| 5000 & Over      | 901     | 10,874,503 | 6,391,457     | .588   | .662    |       | 2.62   | 99.48          | 3.14  |        |         | 58.02          | n -,                     | 138        | 3,691    | .914          |
|                  |         | 10,017,000 | 0,081,457     | .000   | .002    | .588  | .52    | 100%           | .52   | 31.39  | 100%    | 31.39          | 12,069                   | 200        | 12,069   | .888          |
| Total            | 172,914 | 34,635,628 | 22,944,120    | .662   |         |       | 100 %  |                |       | 100%   |         |                | 200                      |            |          | 1.000         |

<sup>\*</sup>Loss Ratio differentials are the loss ratios for the various size groups in the Individual Group column divided by the average loss ratio for all size groups combined.

### TABLE 12 NEW YORK COMPENSATION EXPERIENCE BY SIZE OF RISK Policy Year 1925

Compiled by National Bureau 8/15/27
Experience of Stock Companies, Mutuals and State Fund Combined

|                  |         |            |            | Loss Ratio |       |       | % of   | Total 1 | Risks | % of T | otal Pr | emium | Avg. Premium<br>Per Risk |       |        |         |
|------------------|---------|------------|------------|------------|-------|-------|--------|---------|-------|--------|---------|-------|--------------------------|-------|--------|---------|
|                  |         |            |            |            |       |       |        |         | I     |        |         |       |                          |       |        | Loss    |
|                  | Number  |            | _ !        |            | Cumu- |       |        |         | Cumu- |        | Cumu-   |       |                          | Cumu- |        | Ratio   |
|                  | of      | Premium    | Losses     | viduai     | lated | lated | vidual | lated   | lated | vidual | lated   | lated | viduai                   | lated | lated  | Differ- |
| Premium Group    | Risks   | Earned     | Incurred   | Group      | Down  | Up    | Group  | .Down   | Up    | Group  | Down    | Up    | Group                    | Down  | Up     | ential* |
| Minimum Premium  | 52,337  | 1,028,871  | 541,192    | .526       | . 526 | .581  | 24.68  | 24.68   | 100%  | 2.01   | 2.01    | 100%  | \$20                     | \$20  | \$241  | .905    |
| 0 24             | 33,382  | 541,526    | 487,127    | .900       | .655  | .582  | 15.74  | 40.42   | 75.32 | 1.06   | 3.07    | 97.99 | 16                       | 18    | 313    | 1.549   |
| 25— 49           | 35,813  | 1,284,130  | 1,129,060  | .879       | .756  | .578  | 16.89  | 57.31   | 59.58 | 2.51   | 5.58    | 96.93 | 36                       | 23    | 392    | 1.513   |
| 50 74            | 20,675  | 1,259,077  | 957,265    | .760       | .757  | .570  | 9.75   | 67.06   | 42.69 | 2.47   | 8.05    |       | 61                       | 29    | 532    | 1.308   |
| 75 99            | 12,766  | 1,100,727  | 845,864    | .768       | .760  | .565  | 6.02   | 73.08   |       | 2.16   | 10.21   |       | 86                       | 34    | 672    | 1.322   |
| 100— 149         | 15,318  | 1,858,153  | 1,375,334  | .740       | .754  | .560  | 7.22   | 80.30   |       | 3.64   | 13.85   |       | 121                      | 42    | 803    | 1.274   |
| 150 199          | 8,510   | 1,469,662  | 972,569    | .662       | .739  | .553  | 4.01   | 84.31   | 19.70 | 2.88   | 16.73   |       | 173                      | 48    | 1,052  | 1.139   |
| 200— 299         | 9,598   | 2,345,661  | 1,464,714  | .624       | .714  | .549  | 4.53   | 88.84   | 15.69 | 4.59   | 21.32   |       | 244                      | 58    | 1,277  | 1.074   |
| 300→ 399         | 5,450   | 1,883,582  | 1,154,579  | .613       | .699  | .544  | 2.57   | 91.41   | 11.16 | 3.69   | 25.01   | 78.68 | 346                      | 66    | 1,695  | 1.055   |
| 400— 499         | 3,318   | 1,484,091  | 963,039    | .649       | .694  | .541  | 1.56   | 92.97   | 8.59  | 2.91   | 27.92   | 74.99 | 447                      | 72    | 2,099  | 1.117   |
| 500 999          | 7,157   | 5,006,238  | 2,854,711  | .570       | .662  | .537  | 3.37   | 96.34   | 7.03  | 9.80   | 37.72   | 72.08 | 699                      | 94    | 2,466  | .981    |
| 1000— 1999       | 3,841   | 5,434,734  | 2,967,642  | .546       | .636  | .532  | 1.81   | 98.15   | 3.66  | 10.64  | 48.36   | 62.28 | 1,415                    | 119   | 4,093  | .940    |
| 2000 2999        | 1,396   | 3,380,196  | 1,860,998  | .551       | .626  | .529  | .66    | 98.81   | 1.85  | 6.62   |         | 51.64 | <b>"</b>                 | 134   | 6,712  | .948    |
| 3000— 4999       | 1,142   | 4,390,370  | 2,220,753  | .506       | .610  | .525  | .54    | 99.35   | 1.19  | 8.60   |         | 45.02 | 3,844                    | 154   | 9,079  | .871    |
| 5000 9999        | 832     | 5,767,212  | 2,979,053  | .517       | .596  | .530  | .39    | 99.74   | .65   | 11.30  |         | 36.42 |                          | 181   | 13,382 | .890    |
| 1000019999       | 345     | 4,748,117  | 2,589,778  | . 545      | .590  | ,536  | . 16   | 99.90   | .26   | 9.30   | 84.18   |       |                          | 203   | 23,017 | .938    |
| 20000—29999      | 105     | 2,545,440  | 1,475,337  | .580       | .590  | .530  | .05    | 99.95   | .10   | 4.99   | 89.17   | 15.82 |                          |       | 38,078 | .998    |
| 30000 & Over     | 107     | 5,527,148  | 2,805,092  | . 508      | .581  | .508  | .05    | 100%    | .05   | 10.83  | 100%    | 10.83 | 51,656                   | 241   | 51,656 | .874    |
| Total            | 212,092 | 51,054,935 | 29,644,107 | . 581      | • • • |       | 100%   | ••-     |       | 100%   |         |       | 241                      |       | i      | 1.000   |
| Five Size Groups |         |            |            |            |       |       |        |         | }     |        |         |       |                          |       |        |         |
| Minimum Premium  | 52,337  | 1,028,871  | 541,192    | .526       | . 526 | .581  | 24.68  | 24.68   | 100%  | 2.01   | 2.01    | 100%  | \$ 20                    | \$20  | \$241  | .905    |
| 0 399            | 141,512 | 11,742,518 | 8,386,512  | .714       | .699  | .582  | 66.72  | 91.40   | 75.32 |        |         |       | 83                       | 66    | 313    | 1.229   |
| 400 999          | 10,475  | 6,490,329  | 3,817,750  | .588       | .662  | .541  | 4.94   | 96.34   |       |        | 1       | 74.99 |                          | 94    | 2,099  | 1.012   |
| 1000 4999        | 6,379   | 13,205,300 | 7,049,393  | .534       | .610  | .532  | 3.01   | 99.35   | 3.66  |        | 63.59   |       |                          | 154   | 4,093  | .919    |
| 5000 & Over      | 1,389   | 18,587,917 | 9,849,260  | .530       | .581  | .530  | .65    | 100 %   | .65   | 36.41  | 100 %   | 36.41 | 13,382                   | 241   | 13,382 | .912    |
| Total            | 212,092 | 51,054,935 | 29,644,107 | .581       |       |       | 100%   |         | ·     | 100%   |         |       | 241                      |       |        | 1.000   |

<sup>\*</sup>Loss Ratio differentials are the loss ratios for the various size groups in the Individual Group column divided by the average loss ratio for all size groups

# RECENT DEVELOPMENTS WITH RESPECT TO DISTRIBUTION 281

# NEW YORK COMPENSATION EXPERIENCE BY SIZE OF RISK Compiled by National Bureau 8/15/27 Policy Years 1924 & 1925 Combined

Experience of Stock Companies, Mutuals and State Fund Combined

|                  |         |            |            | Loss Ratio |       |             | % of   | Total 1 | Risks | % of 7  | otal Pr | emium | Avg. Premium<br>Per Risk |       |        |         |
|------------------|---------|------------|------------|------------|-------|-------------|--------|---------|-------|---------|---------|-------|--------------------------|-------|--------|---------|
|                  | 37      |            |            |            | _     |             |        |         | I     |         |         |       |                          |       |        | Loss    |
|                  | Number  | The        | <b>.</b>   |            |       | Cumu-       |        |         | Cumu- | п       | Cumu-   |       |                          | Cumu- |        | Ratio   |
| Daniel Garage    | of      | Premium    | Losses     | vidual     | lated | lated       | vidual | lated   | lated | vidual  | lated   | lated | vidual                   | lated | lated  | Differ- |
| Premium Group    | Risks   | Earned     | Incurred   | Group      | Down  | Up          | Group  | Down    | Up    | Group   | Down    | Up    | Group                    | Down  | Up     | ential* |
| Minimum Premium  | 95,833  | 1,830,630  | 1,132,123  | .618       | .618  | .614        | 24.89  | 24.89   | 100 % | 2.14    | 2.14    | 100%  | <b>\$</b> 19             | \$19  | \$223  | 1.007   |
| 0 24             | 64,990  | 1,100,781  | 1,037,394  | .942       | .740  | .614        |        | 41.77   | 75.11 | 1.28    | 3.42    | 97.86 | 17                       | 18    | 290    | 1.534   |
| 25 49            | 64,649  | 2,325,233  | 2,088,833  | .898       | .810  | .609        | 16.79  | 58.56   | 58.23 | 2.71    |         | 96.58 | 36                       | 23    | 369    | 1.463   |
| 50 74            | 37,477  | 2,289,912  | 1,806,179  | .789       | .804  | .601        | 9.73   | 68.29   | 41.44 | 2.67    | 8.80    | 93.87 | 61                       | 29    | 504    | 1.285   |
| 75— 99           | 22,974  | 1,983,156  | 1,586,043  | .800       | .803  | .595        | 5.97   | 74.26   | 31.71 | 2.31    |         | 91.20 | 86                       | 33    | 640    | 1.303   |
| 100— 149         | 26,890  | 3,267,398  | 2,551,883  | .781       | .797  | .590        |        | 81.24   |       | 3.81    |         | 88.89 | 122                      | 41    | 769    | 1.272   |
| 150 199          | 14,955  | 2,588,090  | 1,792,393  | .693       | .780  | .581        |        | 85.12   | 18.76 | 3.02    | 17.94   |       | 173                      | 47    | 1.010  | 1.129   |
| 200 299          | 16.785  | 4.102,468  | 2,770,322  | .675       | .758  | .577        |        | 89.48   | 14.88 | 4.79    | 22.73   | 82.06 | 244                      | 57    | 1,228  | 1.099   |
| 300 399          | 9,385   | 3,248,349  | 2,085,825  | .642       | .741  | .571        |        | 91.92   | 10.52 | 3.79    | 26.52   |       | 346                      | 64    | 1,637  | 1.046   |
| 400— 499         | 5,714   | 2,551,052  | 1.671.971  | . 655      | .733  | .568        | 1.49   | 93.41   | 8.08  | 2 08    | 29.50   | 73.48 | 446                      | 70    | 2.026  | 1.067   |
| 500 999          | 12,141  | 8.510.456  | 5,195,488  | .610       | .702  | .564        | 3.15   | 96.56   | 6.59  |         | 39.43   | 70.50 | 701                      | 91    | 2,382  | .993    |
| 1000 1999        | 6,616   | 9,302,688  | 5,306,453  | .570       | .673  | .556        | 1.72   | 98.28   | 3.44  | п .     | 50.29   | 60.57 | 1,406                    | 114   | 3.927  | .928    |
| 2000 2999        | 2,409   | 5,840,487  | 3,409,644  | .584       | .663  | .553        | .63    | 98.91   | 1.72  | 6.82    | 57.11   | 49.71 | 2,424                    | 129   | 6,456  | .951    |
| 3000 4999        | 1,898   | 7.287,443  | 3,912,959  | . 537      | .646  | .548        | .49    | 99.40   | 1.09  | 8.50    | 65.61   | 42.89 |                          | 147   | 8,775  | .875    |
| 5000 9999        | 1,381   | 9,352,621  | 5,095,534  | . 545      | .632  | .551        | .36    | 99.76   | .60   | 10.91   |         | 34.39 | 6.772                    | 171   | 12,866 | .888    |
| 1000019999       | 578     | 7.896,475  | 4,558,751  | .577       | .626  | .554        | .15    | 99.91   | .24   | 9.22    | 85.74   |       |                          |       | 22,123 | .940    |
| 2000029999       | 178     | 4.333.991  | 2,457,202  | .567       | .623  | .539        | .05    | 99.96   | .09   | 5.06    | 90.80   |       | 24,348                   |       | 36,898 | .923    |
| 30000 & Over     | 153     | 7,879,333  | 4,129,230  | .524       | .614  | .524        | .04    | 100%    | .04   | 9.20    | 100 %   |       | 51,499                   |       | 51,499 | .853    |
| Total            | 385,006 | 85,690,563 | 52,588,227 | .614       | •••   | <del></del> | 100%   |         |       | 100%    |         |       | 223                      |       |        | 1.000   |
| Five Size Groups |         |            |            |            |       |             |        |         |       | <b></b> |         |       |                          |       | ]      |         |
| Minimum Premium  | 95,833  | 1,830,630  | 1,132,123  | .618       | .618  | .614        | 24.89  | 24.89   | 100%  | 2.14    | 2.14    | 100%  | <b>\$</b> 19             | \$19  | \$223  | 1.007   |
| 0— 399           | 258,105 | 20,905,387 | 15,718,872 | .752       | .741  | .614        |        | 91.93   | 75.11 |         |         | 97.86 | 81                       | 64    | 290    | 1.225   |
| 400 999          | 17,855  | 11.061.508 | 6,867,459  | .621       | .702  | .568        | 4.64   | 96.57   | 8.07  | 12.91   | 39.44   | 73.47 | 620                      | 91    | 2.026  | 1.011   |
| 1000 4999        | 10,923  | 22,430,618 | 12,629,056 | .563       | .646  | .556        | 2.84   | 99.41   | 3.43  | 26.18   |         | 60.56 |                          | 147   | 3,927  | .917    |
| 5000 & Over      | 2,290   | 29,462,420 |            | . 551      | .614  | .551        | .59    |         | .59   | 34.38   | 100%    |       |                          | 223   | 12,866 | .897    |
| Total            | 385,006 | 85,690,563 | 52,588,227 | .614       |       |             | 100%   |         |       | 100%    |         |       | 223                      |       |        | 1.000   |

<sup>\*</sup>Loss Ratio differentials are the loss ratios for the various size groups in the Individual Group column divided by the average loss ratio for all size groups combined,

# TABLE 14 NEW YORK COMPENSATION EXPERIENCE BY SIZE OF RISK

Compiled by National Bureau 8/15/27

Policy Years 1924 and 1925 Combined

By Industry Groups

| <del></del>  | Dy Illian.                                    |   |   |                                      |   |                                       |  |   |                                      |  |   |  |  |                                      |   |  |
|--|---|---|---|--------------------------------------|---|---------------------------------------|--|---|--------------------------------------|--|---|--|--|--------------------------------------|---|--|
|  | 8   | tock Compa  | nies (27 Con  | panies)                              |   | Mu                                    | itual Compa  | nies (11 Co   | mpanie                               | s)*                                      | All Carriers                                  |  |  |                                      |   |  |
| Premium Groups<br>& Industry Groups  | No. of<br>Risks                               | Premium<br>Earned   | Losses<br>Incurred  | Loss<br>Ratio                        | L. R.<br>Diff.                          | No. of<br>Risks                       | Premium<br>Earned  | Losses<br>Incurred                                    | Loss<br>Ratio                        | L. R.<br>Diff.                           | No. of<br>Risks                               | Premium<br>Earned  | Losses<br>Incurred   | Loss<br>Ratio                        | L. R.<br>Diff.                          |  |
| Manufacturing Minimum Premium 0  | 14,481<br>57,822<br>3,705<br>2,446<br>493     | 235,892<br>4,465,561<br>2,329,328<br>5,089,522<br>6,245,697 | 134,450<br>3,418,526<br>1,360,475<br>2,798,739<br>3,629,213     | .570<br>.766<br>.584<br>.550<br>.581 | .922<br>1.239<br>.945<br>.890<br>.940   | 152<br>5,214<br>1,140<br>1,394<br>432 | 2,663<br>606,833<br>741,047<br>3,174,492<br>4,899,394      | 720<br>832,026<br>378,905<br>1,632,553<br>2,469,676   | .270<br>.547<br>.511<br>.514<br>.504 | .528<br>1.070<br>1.000<br>1.006<br>.986  | 14,633<br>63,036<br>4,845<br>3,840<br>925     | 238,555<br>5,072,394<br>3,070,375<br>8,264,014<br>11,145,091     | 135,170<br>3,750,552<br>1,739,380<br>4,431,292<br>6,098,889      | .567<br>.739<br>.567<br>.536<br>.547 | .976<br>1.272<br>.976<br>.923<br>.941   |  |
| Total  | 78,947  | 18,366,000  | 11,341,403  | .618                                 | 1.000                                   | 8,332                                 | 9,424,429  | 4,813,880   | .511                                 | 1.000                                    | 87,279  | 27,790,429   | 16,155,283   | .581                                 | 1.000                                   |  |
| Contracting Minimum Premium 0— 399 400— 999 1000—4999 5000 & Over              | 12,635<br>47,916<br>4,416<br>2,349<br>562     | 413,536<br>4,876,592<br>2,677,688<br>4,823,787<br>7,606,494 | 360,641<br>4,238,477<br>1,724,102<br>2,700,025<br>3,969,773     | .872<br>.869<br>.644<br>.560<br>.522 | 1.369<br>1.364<br>1.011<br>.879<br>.819 | 70<br>1,155<br>342<br>349<br>95       | 2,039<br>158,208<br>232,330<br>770,865<br>1,340,474        | 1,694<br>80,354<br>126,041<br>395,367<br>541,632      | .831<br>.508<br>.543<br>.513<br>.404 | 1.818<br>1.112<br>1.188<br>1.123<br>.884 | 12,705<br>49,071<br>4,758<br>2,698<br>657     | 415,575<br>5,034,800<br>2,910,018<br>5,594,652<br>8,946,968      | 362,335<br>4,318,831<br>1,850,143<br>3,095,392<br>4,511,405      | .872<br>.858<br>.636<br>.553<br>.504 | 1.413<br>1.391<br>1.031<br>.896<br>.817 |  |
| Total  | 67,878  | 20,398,097  | 12,993,018  | .637                                 | 1.000                                   | 2,011                                 | 2,503,916  | 1,145,088   | .457                                 | 1.000                                    | 69,889  | 22,902,013   | 14,138,106   | .617                                 | 1.000                                   |  |
| Commercial Minimum Premium 0— 399 400— 999 1000—4999 5000 & Over               | 18,143<br>51,743<br>2,163<br>884<br>118       | 276,289<br>3,788,814<br>1,307,374<br>1,642,982<br>1,448,430 | 204,600<br>2,390,513<br>696,843<br>942,309<br>864,065           | .741<br>.631<br>.533<br>.574<br>.597 | 1.231<br>1.048<br>.885<br>.953<br>.992  | 135<br>1,848<br>345<br>169<br>14      | 3,764<br>236,204<br>213,287<br>305,058<br>124,949          | 466<br>137,901<br>129,014<br>146,964<br>58,638        | .124<br>.584<br>.605<br>.482<br>.469 | .232<br>1.092<br>1.131<br>.901<br>.877   | 18,278<br>53,591<br>2,508<br>1,053<br>132     | 280,053<br>4,025,018<br>1,520,661<br>1,948,040<br>1,573,379      | 205,066<br>2,528,414<br>825,857<br>1,089,273<br>922,703          | .732<br>.628<br>.543<br>.559<br>.586 | 1.228<br>1.054<br>.911<br>.938<br>.983  |  |
| Total  | 73,051  | 8,463,889   | 5,098,330   | .602                                 | 1.000                                   | 2,511                                 | 883,262  | 472,983   | .535                                 | 1.000                                    | 75,562  | 9,347,151  | 5,571,313  | .596                                 | 1.000                                   |  |
| All Other<br>Minimum Premium<br>0— 399<br>400— 999<br>1000—4999<br>5000 & Over | 50,072<br>65,360<br>3,216<br>1,659<br>322     | 894,471<br>4,691,012<br>1,973,804<br>3,342,381<br>4,585,120 | 429,224<br>3,350,156<br>1,248,631<br>1,846,730<br>2,655,085     | .480<br>.714<br>.633<br>.553<br>.579 | .780<br>1.161<br>1.029<br>.899<br>.941  | 138<br>1,692<br>213<br>158<br>34      | 1,846<br>139,893<br>140,501<br>331,078<br>766,357          | 328<br>77,409<br>82,712<br>152,230<br>384,697         | .178<br>.553<br>.589<br>.460<br>.502 | .352<br>1.095<br>1.166<br>.911<br>.994   | 50,210<br>67,052<br>3,429<br>1,817<br>356     | 896,317<br>4,830,905<br>2,114,305<br>3,673,459<br>5,351,477      | 429,552<br>3,427,565<br>1,331,343<br>1,998,960<br>3,039,782      | .479<br>.710<br>.630<br>.544<br>.568 | .790<br>1.172<br>1.040<br>.898<br>.937  |  |
| Total  | 120,629                                       | 15,486,788  | 9,529,826   | .615                                 | 1.000                                   | 2,235                                 | 1,379,675  | 697,376   | .505                                 | 1.000                                    | 122,864                                       | 16,866,463   | 10,227,202   | .606                                 | 1.000                                   |  |
| All Industries Minimum Premium 0— 399 400— 999 1000—4999 5000 & Over           | 95,331<br>222,841<br>13,500<br>7,338<br>1,495 | 8,288,194<br>14,898,672                                     | 1,128,915<br>13,397,672<br>5,030,051<br>8,287,803<br>11,118,136 | .620<br>.752<br>.607<br>.556<br>.559 | .998<br>1.211<br>.977<br>.895<br>.900   | 495<br>9,909<br>2,040<br>2,070<br>575 | 10,312<br>1,141,138<br>1,327,165<br>4,581,493<br>7,131,174 | 3,208<br>627,690<br>716,672<br>2,327,114<br>3,454,643 | .311<br>.550<br>.540<br>.508<br>.484 | .620<br>1.096<br>1.076<br>1.012<br>.964  | 95,826<br>232,750<br>15,540<br>9,408<br>2,070 | 1,830,500<br>18,963,117<br>9,615,359<br>19,480,165<br>27,016,915 | 1,132,123<br>14,025,362<br>5,746,723<br>10,614,917<br>14,572,779 | .618<br>.740<br>.598<br>.545<br>.539 | 1.032<br>1.235<br>.998<br>.910<br>.900  |  |
| Total  | 340,505                                       | 62,714,774  | 38,962,577  | . 621                                | 1.000                                   | 15,089                                | 14,191,282   | 7,129,327   | .502                                 | 1.000                                    | 355,594                                       | 76,906,056   | 46,091,904   | .599                                 | 1.000                                   |  |

\*The experience of Mutuals by industry groups is based on the first compilation made by the New York Board. The State Fund did not report the experience by industry groups.

TABLE 15

LOSS RATIOS BY SIZE OF RISK AND INDUSTRY GROUPS
New York State—Policy Years 1924 and 1925—All Companies Combined

| Industry Groups | Size of Risk                                       | No. of Risks                           | Earned Premium                                       | Incurred Losses                                      | Loss Ratios                   |
|-----------------|--|--|--|--|-------------------------------|
| Manufacturing   | Under \$150<br>150399<br>Under 400<br>400 and Over | 59,526<br>9,806<br>69,332<br>9,737     | \$ 2,858,252<br>2,389,780<br>5,248,032<br>23,102,044 | \$ 2,134,225<br>1,698,023<br>3,832,248<br>12,454,865 | 74.7%<br>71.1<br>73.0<br>53.9 |
|                 | Total  | 79,069                                 | 28,350,076   | 16,287,113   | 57.4                          |
| Contracting     | Under 150<br>150—399<br>Under 400<br>400 and Over  | 49,132<br>10,728<br>59,860<br>8,080    | 2,762,986<br>2,610,318<br>5,373,304<br>17,497,465    | 2,705,846<br>1,881,462<br>4,587,308<br>9,545,853     | 97.9<br>72.1<br>85.4<br>54.6  |
|                 | Total  | 67,940                                 | 22,870,769   | 14,133,161   | 61.8                          |
| All Other       | Under 150<br>150—399<br>Under 400<br>400 and Over  | 162,671<br>16,202<br>178,873<br>9,267  | 6,416,332<br>3,833,317<br>10,249,649<br>17,386,459   | 4,413,571<br>2,284,501<br>6,698,072<br>9,873,029     | 68.8<br>59.6<br>65.3<br>56.8  |
|                 | Total  | 188,140                                | 27,636,108   | 16,571,101   | 60.0                          |
| Total           | Under 150<br>150—399<br>Under 400<br>400 and Over  | 271,329<br>36,736<br>308,065<br>27,084 | 12,037,570<br>8,833,415<br>20,870,985<br>57,985,968  | 9,253,642<br>5,863,986<br>15,117,628<br>31,873,747   | 76.9<br>66.4<br>72.4<br>55.0  |
|                 | Total  | 335,149                                | 78,856,953   | 46,991,375   | 59.6                          |

TABLE 16

LOSS CONSTANTS NECESSARY TO EQUALIZE LOSS RATIOS UNDER AND OVER \$400
Based on New York State Experience for Policy Year 1924 and 1925 by Size of Risk and Industry
All Companies Combined—Premium Shown in Thousands Only

|  |                                     | Premiun                     | เร                                  |                              | Ma   | nual Premi                                     | ıms  | 1   |                                      |  |                              |                                |                            |
|--|-------------------------------------|-----------------------------|-------------------------------------|------------------------------|--|--|--|---|--------------------------------------|--|------------------------------|--------------------------------|----------------------------|
|  | (1)                                 | (2)                         | (3)                                 | (4)                          | (5)<br>Adj. so                                   | (6)<br>Under 400<br>adj. so                    | (7)  | (8)<br>Add'l                                | (9)<br>Premlum                       | (10)   | (11)                         | (12)                           | (13)                       |
|  |                                     | 1924-5<br>Manual            | Future<br>Manual                    |                              | L. R. over                                       | L. R.<br>equals                                | Adj. for<br>Expected<br>Off-                     | Premium<br>from<br>M. P. of                 | to be<br>derived<br>from fees        | Realized<br>Premium                                      | Realized                     |                                | Change<br>in Man.<br>Rates |
| Size Group   | Actual                              | Level                       | Level<br>†                          | L. R.                        | Total Col.                                       | (4)  | balance  | 15 x R                                      | (6)-(7)-(8)                          | ‡  | L. R.                        | Amt. of                        | (7e) +(3e)                 |
| Manufacturing (a) 0—149 (b) 150—399 (c) 0—399 (d) 400 & Over | 2,858<br>2,390<br>5,248<br>23,102   | x x<br>x x<br>x x<br>23,739 | 2,968<br>2,476<br>5,444<br>24,524   | 71.9<br>68.6<br>70.4<br>50.8 | (3) x .936<br>2,778<br>2,318<br>5,096<br>22,954  | (5) x 1.386<br>3,851<br>3,212<br>7,063<br>x x  | (5) x 1.021<br>2,837<br>2,366<br>5,203<br>23,436 | Manufactu (a) 174 (b) x x (c) 174 (d) x x   | ring (<br>840<br>846<br>1,686<br>x x | 7d) x .979<br>4,458<br>2,605<br>7,063<br>22,944          | 47.9<br>65.2<br>54.3<br>54.3 | 24.32<br>24.32<br>24.32<br>x x |                            |
| (e) Total  | 28,350                              | 28,987                      | 29,968                              | 54.3                         | 28,050   | xx   | 28,639   | (e) x x                                     | xx                                   | 30,007   | 54.3                         | x x                            | .956                       |
| Contracting (a) 0—149 (b) 150—399 (c) 0—399 (d) 400 & Over   | 2,763<br>2,610<br>5,373<br>17,498   | x x<br>x x<br>x x<br>19,085 | 2,930<br>2,763<br>5,693<br>20,078   | 92.4<br>68.1<br>80.6<br>47.5 | (3) x .867<br>2,540<br>2,396<br>4,936<br>17,407  | (5) x 1.697<br>4,310<br>4,066<br>8,376<br>x x  | (5) x 1.051<br>2,669<br>2,518<br>5,187<br>18,295 | Contracting (a) 561 (b) x x (c) 561 (d) x x | 1,080<br>1,548<br>2,628<br>x x       | 7d) x .952<br>5,387<br>2,989<br>8,376<br>17,417          | 50.2<br>62.9<br>54.8<br>54.8 | 43.90<br>43.90<br>43.90<br>x x |                            |
| (e) Total  | 22,871                              | 24,458                      | 25,771                              | 54.8                         | 22,343   | xx   | 23,482   | (e) x x                                     | x x                                  | 25,793   | 54.8                         | x x                            | .911                       |
| All Other  | 6,417<br>3,833<br>10,250<br>17,386  | x x<br>x x<br>x x<br>18,761 | 6,977<br>4,161<br>11,138<br>20,329  | 63.2<br>54.9<br>60.1<br>48.6 | (3) x .922<br>6,433<br>3,836<br>10,269<br>18,743 | (5) x 1.237<br>7,957<br>4,746<br>12,703<br>x x | (5)x 1.079<br>6,941<br>4,140<br>11,081<br>20,224 | All Other (a) 908 (b) x x (c) 908 (d) x x   | 108<br>606<br>714<br>x x             | 7d) x .927<br>  8,498<br>  4,204<br>  12,702<br>  18,748 | 51.9<br>54.3<br>52.7<br>52.7 | 3.99<br>3.99<br>3.99<br>x x    |                            |
| (e) Total  | 27,636                              | 29,011                      | 31,467                              | 52.7                         | 29,012   | xx   | 31,305   | (e) x x                                     | x x                                  | 31,450   | 52.7                         | xx                             | .995                       |
| Total (a) 0—149 (b) 150—399 (c) 0—399 (d) 400 & Over         | 12,038<br>8,833<br>20,871<br>57,986 | x x<br>x x<br>x x<br>61,584 | 12,875<br>9,400<br>22,275<br>64,931 | 71.9<br>62.4<br>67.9<br>49.1 | 11,751<br>8,550<br>20,301<br>59,104              | 16,118<br>12,024<br>28,142<br>x x              | 12,447<br>9,204<br>21,471<br>61,955              | Total (a) 1,643 (b) x x (c) 1,643 (d) x x   | 2,028<br>3,000<br>5,028<br>x x       | 18,343<br>9,798<br>28,141<br>59,109                      | 50.4<br>59.8<br>53.7<br>53.9 | 16.32<br>16.32<br>16.32<br>x x | i<br>I                     |
| (e) Total  | 78,857                              | 82,455                      | 87,206                              | 53.9                         | 79,405   | x x  | 83,426   | (e) x x                                     | x x                                  | 87,250   | 53.9                         | x x                            | .957                       |

Note: All premiums are shown in Thousands of Dollars.

|                      |      | •                       |       |
|----------------------|------|-------------------------|-------|
| 1924                 | 1925 | 1924                    | 1925  |
| *Factors: (Divisors) |      | †Factors: (Multipliers) |       |
| Mfg                  | .976 | Mfg 1.079               | 1.002 |
| Cont                 | .912 | Cont 1.128              | 1.007 |
| 0.00                 | 011  | A. O 1.142              | 1.044 |

 $<sup>(7</sup>a) + (8) + (12) \times No. \text{ of Risks.}$ (7b) + (12) × No. of Risks.