# REPORT OF THE COMMITTEE ON ACCIDENT AND SICKNESS EXPERIENCE IN PLANS INSURED ON THE GROUP BASIS

# GROUP WEEKLY INDEMNITY INSURANCE AND GROUP HOSPITAL AND SURGICAL EXPENSE INSURANCE

HIS is the eighth annual report on the continuing study of the morbidity experience of Group Weekly Indemnity insurance and Group Employee and Dependent Hospital and Surgical Expense insurance.

This year's report covers all plans studied in the two previous reports with the exception that Hospital Expense insurance plans providing five times the daily benefit for miscellaneous hospital charges have been omitted because of the decreasing importance of this type of plan. Three new Hospital Expense insurance plans are included for the first time:

- a) Employee, 70-day,  $10 \times$ ,  $10 \times$ , Reimbursement plan
- b) Employee, 70-day,  $10 \times$ ,  $20 \times$ , Reimbursement plan
- c) Employee, 70-day,  $14 + 20 \times$ ,  $20 \times$ , Fixed Benefit

This year all tables of exposures, claims and annual claim costs are based on the combined 1952–1954 policy years' experience.

For six out of the nine contributing companies, the crude annual claim costs shown in this report have been derived from the experience of the three policy years ending in the calendar years 1952 through 1954. For the remaining three companies, the experience of the three policy years ending July 1, 1951 through June 30, 1954 has been used for that purpose.

In compiling this report, the Committee has included the available experience of employer-employee groups regardless of size. The experience of insured groups outside of the continental United States, and of trusteeship and association cases insuring employees of the member employers, and of union cases, whether or not insurance depends on continued employment, have been excluded. The data for Group Weekly Indemnity insurance, contained in Tables 1, 2, and 8, exclude the experience of plans written under State Cash Sickness laws.

Data in this report for Weekly Indemnity insurance and Employee Hospital Expense insurance are based on the experience of groups in those industrial classifications which the contributing companies individually

# RUSHMORE MUTUAL LIFE

#### Combined 1952-54 Policy Years' Experience Group Weekly Indemnity Insurance with 6 Weeks Maternity Benefit Nonrated Industries

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| Frmale<br>Precent          | Num-<br>ber of<br>Expe-<br>rience<br>Units | Weekly<br>Indemnity<br>Exposed        | Claims                                | An-<br>nual<br>Claim<br>Cost* | DIDNOT              | Indemnity<br>Exposed                 | Claims                              | An-<br>nual<br>Claim<br>Cost* |
|----------------------------|--|---------------------------------------|---------------------------------------|-------------------------------|---------------------|--------------------------------------|-------------------------------------|-------------------------------|
|                            |  |                                       | 1                                     | 3-WEER                        | C PLANS             |                                      |                                     |                               |
|                            | 1st Da                                     | y Accident an                         | d 4th Day Sic                         | kness                         | 4th D               | ay Accident a                        | nd 4th Day Si                       | ckness                        |
| <11%<br>11- 21             | 1,193                                      |                                       | 3,473,087                             | .67                           | 181                 | 2,521,750<br>2,824,950               | 2,145,837                           | .76                           |
| 21- 31<br>31- 41<br>41- 51 | 569<br>243<br>161                          |                                       |                                       |                               | 69<br>56<br>23      | 219,900<br>336,450<br>65,420         | 146,634<br>279,530<br>60,640        | .67<br>.83<br>.93             |
| 51- 61<br>61- 71           | 91<br>72                                   | 311,840<br>294,580                    | 286,914<br>288,208                    | .92<br>.98                    | 23<br>18            | 92,990<br>55,490                     | 97,5 <b>9</b> 9<br>44,785           | 1.05                          |
| 71- 81<br>81- 91<br>91-100 | 29<br>26<br>9                              | 145,140                               | 92,211<br>89,767<br>2,044             | .97<br>.62<br>.71             | 5                   | 10,600                               | 8,377                               | . 79                          |
| Total                      | 5,429                                      | 22,284,210                            |                                       |                               | 780                 |                                      | 4,306,314                           |                               |
|                            | 1st Da                                     | y Accident an                         | d 8th Day Sic                         | 8th D                         | ay Accident a       | nd 8th Day Si                        | ckness                              |                               |
| <11%<br>11- 21<br>21- 31   | 8,157<br>3,727                             | 35,065,290<br>17,977,480<br>9,521,810 | 17,333,294<br>10,469,618<br>6,100,269 | \$.49<br>.58<br>.64           | 1,307<br>648<br>389 | 9,953,080<br>6,706,240<br>13,301,840 | 4,853,049<br>4,209,538<br>8,965,198 | .63                           |
| 31- 41<br>41- 51<br>51- 61 | 1,256<br>882<br>655                        | 7,191,140<br>4,793,680<br>3,544,010   | 5,704,403                             | .79                           | 330<br>214<br>159   | 3,743,020<br>2,072,770<br>1,012,890  | 2,537,303                           | .68<br>.88<br>.85             |
| 61- 71<br>71- 81<br>81- 91 | 429<br>313<br>173                          | 1,459,950<br>881,600                  | 1,336,772<br>814,184<br>512,592       | .92<br>.92<br>1.05            | 124<br>108<br>76    | 671,680<br>350,170<br>354,640        | 561,721<br>309,261<br>354,162       | .84<br>.88<br>1.00            |
| 91-100                     | 45   | 487,270<br>100,430                    | 84,344                                | .84                           | 26                  | 55,660                               | 75,741                              |                               |
| Total                      | 17,608                                     | 81,022,660                            | 49,333,098                            | · · · · · ·                   | 3,381               | 38,221,990                           | 24,558,900                          |                               |
|                            |  |                                       | 2                                     | 6-WEER                        | PLANS               | 1                                    |                                     |                               |
|                            | 1st Da                                     | y Accident an                         | d 8th Day Sic                         | kness                         | 8th L               | ay Accident a                        | nd 8th Day Si                       | ckness                        |
| <11%<br>11- 21<br>21- 31   | 1,875<br>615<br>288                        | 25,032,280<br>9,443,750<br>4,048,200  |                                       |                               | 323<br>152<br>71    | 7,382,250<br>3,681,060<br>2,951,430  | 4,848,175<br>2,504,009<br>2,084,933 | \$.66<br>.68<br>.71           |
| 31- 41<br>41- 51<br>51- 61 | 149<br>96<br>65                            | 2,914,030<br>923,500<br>588,400       | 2,855,029<br>950,864<br>558,618       | .98<br>1.03<br>.95            | 40<br>40<br>17      | 372,470<br>1,134,850<br>94,860       | 317,407<br>1,235,417<br>95,412      | .85<br>1.09<br>1.01           |
| 61- 71<br>71- 81<br>81- 91 | 26<br>13<br>1                              | 185,300<br>181,430<br>1,050           | 239,599<br>262,965<br>1,878           | 1.29<br>1.45<br>1.79          | 11<br>1<br>1        | 121,890<br>6,670<br>8,860            | 148,547                             | 1.22<br>.40<br>.59            |
| 91-100<br>Total            | 3,128                                      | 43,317,940                            |                                       | · · · · · ·                   | <br>656             | 15,754,340                           | 11,241,774                          | <br>                          |

\* Per \$1.00 of exposure.

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rate standard for premium purposes; tables covering these plans are headed "Nonrated Industries." Data for Surgical Expense insurance, Employee or Dependent, and for Dependent Hospital Expense insurance are based on the experience of groups regardless of industrial classification; tables covering these plans are headed "All Industries."

The term "experience unit" is defined as a policy year's experience of an insured group.

Weekly Indemnity plans are described by the use of three figures. The first and second are the days on which benefits begin in the case of disabilities due to accident or sickness, respectively; the third is the maxi-

# TABLE 2

#### GROUP WEEKLY INDEMNITY INSURANCE NONRATED INDUSTRIES SECULAR TREND STANDARDIZED MORBIDITY RATIOS Base: 1952-54 Policy Years' Experience

| Policy<br>Year<br>Experience | 1-4-13 and<br>4-4-13<br>Plans | 1-8-13 and<br>8-8-13<br>Plans | 1-8-26 and<br>8-8-26<br>Plans | All<br>Plans |
|------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------|
| 1947                         | 105%                          | 101%                          | 106%                          | 103%         |
| 1948                         | 96                            | 97                            | 102                           | 99           |
| 1949                         | 95                            | 96                            | 95                            | 96           |
| 950                          | 91                            | 94                            | 98                            | 95           |
| 1951                         | 92                            | 94                            | 92                            | 93           |
| 1952                         | 98                            | 99                            | 100                           | 99           |
| 1953                         | 102                           | 102                           | 98                            | 101          |
| 954                          | 99                            | 99                            | 101                           | 100          |

mum number of weeks of benefit. For example, a 1-4-13 plan provides for payments to begin on the first day of disability due to accident and on the fourth day of disability due to sickness, with a maximum period, in either case, of 13 weeks. Under all plans studied, a total maximum period of 6 weeks applies to all disabilities due to any one pregnancy.

The first term of the description of an Employee Hospital Expense plan shows the maximum nonmaternity benefit duration, 31 days or 70 days. The second term covers the total maternity benefit for any one pregnancy:  $10 \times$  indicates that benefits for all hospital charges including room and board are limited to 10 times the maximum daily benefit; 14 + $10 \times$  indicates a daily benefit up to a maximum of 14 days and in addition a maximum for all hospital charges other than room and board of 10 times the daily benefit. The third term shows the maximum for all nonmaternity hospital charges other than room and board:  $20 \times$  indicates a

# COMBINED 1952-54 POLICY YEARS' EXPERIENCE EMPLOYEE GROUP HOSPITAL EXPENSE INSURANCE NONRATED INDUSTRIES

| Female<br>Percent  | Num-<br>ber op<br>Expe-<br>rience<br>Units               | Daily<br>Benefit<br>Exposed  | Claims   | An-<br>nual<br>Claim<br>Cost*                                  | NUM-<br>BER OF<br>EXPE-<br>RIENCE<br>UNITS          | Daily<br>Benefit<br>Exposed   | Claims  | An-<br>nual<br>Claim<br>Cost*                         |  |
|--|--|--|--|--|---|---|---|---|--|
|  |  |  | 10×  | Reimbur  | SEMENT F  | LANS  |   |   |  |
|  | 31 D   | ay, 10× Mai  | ternity Bene   | fit  | 31 Day, 14+10× Maternity Benefit                    |   |   |   |  |
| <11%   | 1,946<br>946   | 2,032,524<br>1,130,043   |  | \$1.25<br>1.29   | 512<br>265  | 543,759<br>488,813  | 686,701<br>685,308  |   |  |
| 21-31  | 636  | 808,364  | 1,108,850  | 1.37   | 106   | 290,089   | 370,495   | 1.28  |  |
| 31- 41<br>41- 51   | 391<br>303   | 611,889<br>307,527   | 874,318<br>480,317   | 1.43   | 84<br>68  | 435,211<br>74,198   | 606,280<br>113,841  | 1.39  |  |
| 41 = 51  | 244  | 307, 321   | 530,818  | 1.74   | 66  | 102,330   | 177,204   |   |  |
| 61-71  | 217  | 224,451  | 402,926  | 1.80   | 39  | 100,893   | 160,842   | 1.59  |  |
| 71-81  | 120  | 190,193  | 339,430  |  | 15<br>9   | 69,347  | 141,178   |   |  |
| 81-91<br>91-100  | 82<br>23   | 103,546<br>26,961  | 209,128<br>60,688  |  | 3   | 7,095<br>6,502  | 17,016<br>14,082  |   |  |
| Total  |  | 5,741,264  |  |  |   | 2,118,237   |   |   |  |
| <11%<br>11-21<br>21-31<br>31-41<br>41-51<br>51-61<br>61-71<br>71-81<br>81-91<br>91-100 | 70<br>253<br>124<br>77<br>37<br>41<br>38<br>23<br>7<br>1 | Day, 10× M<br>368,281<br>131,399<br>84,328<br>58,074<br>57,159<br>60,298<br>85,700<br>4,410<br>517 | 461,323<br>181,673<br>121,062<br>88,565<br>99,474<br>104,422<br>152,278<br>9,656<br> | \$1.25<br>1.38<br>1.44<br>1.53<br>1.74<br>1.73<br>1.78<br>2.19 |   |   |   |   |  |
| Total  | 601  | 850,166  | 1,219,334  |  | -   |   |   |   |  |
|  |  |  | 20×  | REIMBU   | RSEMENT   | Plans   |   |   |  |
|  | 31   | Day, 10× M   | laternity Be   | nefit  | 70  | Day, 10× M  | laternity Be  | n <del>c</del> fit                                    |  |
| <11%<br>11-21<br>21-31<br>31-41<br>41-51<br>51-61<br>61-71<br>81-91<br>91-100          | 61   | 824,845<br>618,125<br>265,598<br>184,376<br>113,824<br>93,381<br>49,478<br>21,174<br>28,680<br>298 | 292,492<br>201,363<br>183,599<br>104,370<br>39,352<br>71,789                         | 1.55<br>1.55<br>1.59<br>1.77<br>1.97<br>2.11<br>1.86<br>2.50   | 288<br>161<br>121<br>25<br>18<br>38<br>18<br>5<br>2 | 449,445<br>520,890<br>105,194<br>31,626<br>14,880<br>97,952<br>43,820<br>9,528<br>1,329 | 976,830<br>185,890<br>57,468<br>27,790<br>195,534<br>80,861<br>16,351 | 1.88   1.77   1.82   1.82   1.87   2.00   1.85   1.72 |  |
| Total  | 1 697  | 2,199,779  | 2 462 973  | ,  | 676   | 1,274,664   | 2 272 04  |   |  |

\* Per \$1.00 of exposure.

# TABLE 3-Continued

#### COMBINED 1952-54 POLICY YEARS' EXPERIENCE EMPLOYEE GROUP HOSPITAL EXPENSE INSURANCE NONRATED INDUSTRIES

| Female<br>Percent   | NUM-<br>BER OF<br>Expe-<br>rience<br>Units                  | Daily<br>Benefit<br>Exposed   | Claims   | An-<br>nual<br>Claim<br>Cost*  | NUM-<br>BER OF<br>EXPE-<br>RIENCE<br>UNITS                            | Daily<br>Bengfit<br>Exposed  | Claims  | An-<br>nual<br>Claim<br>Cost*  |  |  |
|---|---|---|--|--|---|--|---|--|--|--|
|   |   |   | 10× F  | INED BE  | NEFIT PI  | ANS  |   |  |  |  |
|   | 31 D  | ay, 14+10×  | Maternity B  | enefit   | 70 Day, 14+10× Maternity Benefit                                      |  |   |  |  |  |
| <11%<br>11-21<br>21-31<br>31-41<br>51-61<br>61-71<br>71-81<br>91-100<br>Total | 1,295<br>655<br>502<br>328<br>233<br>169<br>135<br>50<br>18 | 2,907,495<br>2,139,959<br>1,135,954<br>688,424<br>542,340<br>270,785<br>347,216<br>184,497<br>96,193<br>16,319<br>8,329,182 | 2,948,621<br>1,650,476<br>1,108,087<br>873,098<br>500,427<br>696,253<br>377,507<br>204,073 | 1.38<br>1.45<br>1.61<br>1.61<br>1.85<br>2.01<br>2.05<br>2.12<br>2.11 | 731<br>469<br>245<br>165<br>111<br>78<br>64<br>37<br>15<br>1<br>1,916 | 812,958<br>265,315<br>360,592<br>116,776<br>89,372<br>102,645<br>23,544<br>10,780<br>330 | 574,449<br>207,066<br>162,724<br>200,746<br>54,383<br>23,946<br>554 | 1.52<br>1.64<br>1.59<br>1.77<br>1.82<br>1.96<br>2.31<br>2.22<br>1.68 |  |  |
|   |   |   | 20×  | Fixed Bi   | ENEFIT P  | LANS   |   |  |  |  |
|   | 31 D  | ay, 14+20×  | Maternity B  | enefit   | 70 Da   | y, 14+20×  | Maternity I   | Benefit  |  |  |
| <11%<br>11-21<br>21-31<br>31-41<br>41-51<br>61-71<br>61-71<br>81-91<br>91-100 | 282<br>174<br>103<br>50<br>39<br>33<br>15<br>5<br>3         | 417,258<br>511,237<br>162,138<br>147,779<br>107,721<br>44,351<br>16,301<br>4,462<br>1,681                                   | 620,524<br>936,944<br>295,109<br>292,964<br>216,034<br>96,775<br>37,982<br>12,442<br>4,650 | 1.83<br>1.82<br>1.98<br>2.01<br>2.18<br>2.33<br>2.79                 | 221<br>131<br>64<br>43<br>23<br>26<br>16<br>6<br>3                    | 616,798<br>480,013<br>103,222<br>107,712<br>24,165<br>64,774<br>13,983<br>5,660<br>1,615 | 227,719<br>216,334<br>56,942<br>140,516<br>32,479<br>12,069         | 1.73<br>2.21<br>2.01<br>2.36<br>2.17<br>2.32<br>2.13                 |  |  |
| Total   | 704   | 1,412,928   | 2,513,424  |  | 533   | 1,417,942  | 2,586,443   |  |  |  |

\* Per \$1.00 of exposure.

maximum of 20 times the daily benefit. Under Reimbursement plans, hospital charges are paid up to the maximum benefits provided; under Fixed Benefit plans the daily benefit is paid for each day of confinement without regard to the actual charges.

# Trend of Experience

In order to analyze the secular trend underlying the experience under the plans studied, standardized morbidity ratios were obtained for those policy years for which data were available. These ratios are presented in Tables 2 and 7.

# TABLE 4

#### COMBINED 1952-54 POLICY YEARS' EXPERIENCE EMPLOYEE GROUP SURGICAL EXPENSE INSURANCE WITH OBSTETRICAL BENEFITS ALL INDUSTRIES

|                            |  | \$150 S  | CHEDULE    |                               | \$200 Schedule                             |  |            |                               |  |
|----------------------------|--|--|------------|-------------------------------|--|--|------------|-------------------------------|--|
| Frmale<br>Percent          | Num-<br>ber of<br>Expe-<br>rience<br>Units | Maximum<br>Indemnity<br>Exposed<br>Per \$150<br>Basic Unit | Claims     | An-<br>nual<br>Claim<br>Cost* | Num-<br>ber of<br>Expe-<br>rience<br>Units | Maximum<br>Indemnity<br>Exposed<br>Per \$200<br>Basic Unit | Claims     | An-<br>nual<br>Claim<br>Cost* |  |
| <11%<br>11- 21             | 4,688                                      | 1,333,355  | 5,105,907  | 3.83                          | 3,746                                      | 2,036,395<br>1,153,817                                     | 5,849,658  | 5.07                          |  |
| 21- 31<br>31- 41           | 1,999                                      | 755,706  | 3,491,628  | 4.62                          | 1,953                                      | 351,025  | 2,047,957  | 5.83                          |  |
| 41- 51<br>51- 61<br>61- 71 | 1,089                                      | 313,890  | 1,655,027  | 5.27                          | 831<br>614<br>447                          | 179,531  | 1,219,431  | 6.79                          |  |
| 71- 81<br>81- 91           | 556  | 133,194  | 873,720    | 6.56                          | 230  | 73,376   | 488,629    | 6.66                          |  |
| 91-100                     | 67   | 12,887   |            |                               | 28   |  |            |                               |  |
| Total                      | 22,107                                     | 6,658,316  | 27,136,475 | <b></b>                       | 16,377                                     | 4,960,531  | 25,033,102 |                               |  |

\* Per basic unit exposed.

The standardized morbidity ratio is of the type introduced in last year's report. The ratio for any year was calculated as follows: the crude claim cost for that year was applied (by female percentage groups, in the case of employee plans) to the accumulated 1952–1954 exposure and the resulting total of calculated claims was divided by the corresponding actual claims of the accumulated 1952–1954 experience. The ratios for policy years 1947 through 1953 differ from those shown in the 1954 report for these policy years because in the 1954 report the 1948–1952 exposure was

# COMBINED 1952-54 POLICY YEARS' EXPERIENCE DEPENDENTS GROUP HOSPITAL EXPENSE INSURANCE ALL INDUSTRIES

| Plan<br>Identification  | Number of<br>Experi-<br>ence Units | Daily<br>Benefit<br>Exposed | Claims                  | Annual<br>Claim<br>Cost* |
|---|------------------------------------|-----------------------------|-------------------------|--------------------------|
| Reimbursement Plan with No<br>Maternity Benefit<br>31 Day, 10×  |                                    | 1,395,672                   | 3,678,203               | \$2.64                   |
| Reimbursement Plans with 9<br>Months Maternity Waiting<br>Period and 10× Daily Bene-<br>fit for Maternity |                                    |                             |                         |                          |
| 31 Day, 10×   | 8,948                              | 7,906,600                   | 25,194,392              | 3.19                     |
| 70 Day, 10×   | 1,078                              | 1,515,254                   | 5,662,129               | 3.74                     |
| 31 Day, 20×<br>70 Day, 20×  | 2,936<br>1,037                     | 3,016,642<br>2,281,062      | 11,389,219<br>8,944,495 | 3.78<br>3.92             |

\* Per \$1.00 of exposure.

# TABLE 6

#### COMBINED 1952–54 POLICY YEARS' EXPERIENCE DEPENDENTS GROUP SURGICAL EXPENSE INSURANCE ALL INDUSTRIES

|  | \$150 Schedule                             |  |            |                               | \$200 Schedule                             |  |            |                               |  |
|--|--|--|------------|-------------------------------|--|--|------------|-------------------------------|--|
| Plan   | Num-<br>ber of<br>Expe-<br>rience<br>Units | Maximum<br>Indemnity<br>Exposed<br>Per \$150<br>Basic Unit | Claims     | An-<br>nual<br>Claim<br>Cost* | Num-<br>ber of<br>Expe-<br>rience<br>Units | Maximum<br>Indemnity<br>Exposed<br>Per \$200<br>Basic Unit | Claims     | An-<br>nual<br>Claim<br>Cost* |  |
| No Obstetri-<br>cal Bene-<br>fits<br>With Obstet-<br>rical Bene-<br>fits | 1,917                                      | 401,588  | 3,642,884  | \$ 9.07                       | 1,748                                      | 443,665  | 4,890,923  | <b>\$1</b> 1.0 <b>2</b>       |  |
| 9 Months<br>Waiting<br>Period  |  | 2,422,758  | 30,464,560 | 12.57                         | 12,102                                     | 2,527,213  | 36,419,367 | 14.41                         |  |

\* Per basic unit exposed.

# GROUP HOSPITAL AND SURGICAL EXPENSE INSURANCE SECULAR TREND STANDARDIZED MORBIDITY RATIOS Base: 1952–54 Policy Years' Experience

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|                           | 1   |                       | pita <b>l Exp</b><br>Indus <b>trie</b> s | Employee<br>Surgical Expense |                   |                               |                   |
|---------------------------|---|-----------------------|--|------------------------------|-------------------|-------------------------------|-------------------|
| Policy Year<br>Experience | 31, 10×,<br>10×,<br>Reimb.<br>and 31,<br>14+10×,<br>10×, F.B. | Other<br>10×<br>Plans | All 20×<br>Plans                         | All<br>Plans                 | \$150<br>Schedule | \$200<br>Schedule             | Both<br>Schedules |
| 1947.                     | 74%   |                       |  |                              | 80%               | ·<br>·<br>· · · · · · · · · · |                   |
| 1948<br>1949              | 76<br>81  |                       | • · · · • •                              |                              | 85<br>88          | ••••                          |                   |
| 1950                      | 86  |                       | · · · · · ·                              |                              | 90                |                               |                   |
| 1951                      | 90 .  |                       |  |                              | 92                | 92%                           | 92%               |
| 1952                      | 94  | 97%                   | 98%                                      | 96%                          | 97                | 96                            | 97                |
| 1953                      | 100   | 101                   | 101                                      | 100                          | 102               | 100                           | 101               |
| 1954                      | 105   | 103                   | 101                                      | 104                          | 102               | 103                           | 102               |

| POLICY YEAR | DEPENDEN         | T HOSPITAL       | . Expense    | DEPENDENT SURGICAL EXPENSE |                   |                   |  |  |
|-------------|------------------|------------------|--------------|----------------------------|-------------------|-------------------|--|--|
| EXPERIENCE  | All 10×<br>Plans | All 20×<br>Plans | All<br>Plans | \$150<br>Schedule          | \$200<br>Schedule | Both<br>Schedules |  |  |
| 1947        | 80%              |                  |              | 88%                        |                   |                   |  |  |
| 1948        | 85               |                  | <b></b>      | 92                         |                   |                   |  |  |
| 1949        | 89               |                  |              | 95                         |                   |                   |  |  |
| 1950        | 92               |                  |              | 97                         |                   | 1                 |  |  |
| 1951        | 95               |                  |              | 101                        | 102%              | 101%              |  |  |
| 1952        | 97               | 98%              | 98%          | 100                        | 98                | 99                |  |  |
| 1953        | 101              | 102              | 101          | 99                         | 101               | 100               |  |  |
| 1954        | 102              | 99               | 101          | 101                        | 100               | 101               |  |  |

NOTE: Includes plans with or without maternity or obstetrical benefits.

# ANALYSIS OF MALE AND FEMALE EXPERIENCE ALL EXPOSURE SIZES

|   | [         |                          |   |   |                        |                          |                         |
|---|-----------|--------------------------|---|---|------------------------|--------------------------|-------------------------|
|   | 1952-5    | 4 POLICY YEAR            | is' Expei   | LIENCE  |                        | evel of<br>Costs         | Param-<br>eter<br>Ratio |
|   | E         | xposure Size C           | Frouping  | 5   |                        |                          |                         |
| Plan  |           | 0-7                      |   | 0-9   |                        |                          |                         |
|   | Amou      | nt Exposed               | Female<br>Per-<br>cent-<br>age of<br>Total<br>Expo-<br>sure | Female<br>Per-<br>cent-<br>age of<br>Total<br>Expo-<br>sure | Male<br>Param-<br>eter | Female<br>Param-<br>eter |                         |
| Group Weekly Indemnity<br>Insurance                               |           |                          |   |   |                        |                          |                         |
| 1-4-13  | <11%<br>2 | 8,288,200<br>15,239,290  | 15  | 16  | . 564                  | 1.282                    | 227%                    |
| 4-4-13  | <11%<br>2 | 1,558,140<br>3,234,140   |   | 15  | . 648                  | 1.055                    | 163                     |
| 1–8–13  | <11%<br>2 | 21,801,940<br>50,996,340 | 21  | 20  | . 452                  | 1.237                    | 274                     |
| 8-8-13  | <11%<br>Σ | 5,554,910<br>16,182,500  | 25  | 23  | . 455                  | 1.248                    | 274                     |
| 1–8–26  | <11%<br>Σ | 10,561,420<br>17,843,190 | 14  | 14  | . 659                  | 1.351                    | 205                     |
| 8-8-26  | <11%<br>Σ | 1,813,630<br>3,592,420   | 18  | 16  | . 632                  | 1.333                    | 211                     |
| Employee Hospital Expense<br>31 Day, 10×, 10×, Re-<br>imbursement | <11%<br>Σ | 1,706,709<br>4,531,770   | 25  | 25  | 1.267                  | 2.080                    | 164                     |
| 31 Day, 14+10×, 10×,<br>Reimbursement                             | <11%<br>Σ | 398,013<br>1,095,385     | 24  | 26  | 1.163                  | 2.172                    | 187                     |
| 70 Day, 10×, 10×, Re-<br>imbursement                              | <11%<br>2 | 251,831<br>620,854       | 24  | 24  | 1.150                  | 2.245                    | 195                     |
| 31 Day, 10×, 20×, Re-<br>imbursement                              | <11%<br>2 | 729,496<br>1,684,881     | 21  | 20  | 1.404                  | 2.238                    | 159                     |
| 70 Day, 10×, 20×, Re-<br>imbursement                              | <11%<br>Σ | 306,471<br>725,150       | 18  | 19  | 1.673                  | 2.394                    | 143                     |
| 31 Day, 14+10×, 10×,<br>Fixed Benefit                             | <11%<br>Σ | 1,818,064<br>5,063,542   | 24  | 23  | 1.321                  | 2.405                    | 182                     |

|   | 1952-54                 | POLICY YEAR            | s' Exper  | DENCE   | 1954 Li<br>Claim       |       |             |
|---|-------------------------|------------------------|---|---|------------------------|-------|-------------|
| •   | Ex                      | posure Size G          | roupings  |   |                        |       |             |
| Plan  |                         | 0–9                    |   |   | Param-<br>eter         |       |             |
|   | Amount                  | t Exposed              | Female<br>Per-<br>cent-<br>age of<br>Total<br>Expo-<br>sure | Female<br>Per-<br>cent-<br>age of<br>Total<br>Expo-<br>sure | Male<br>Param-<br>eter | RATIO |             |
| Employce Hospital Expense<br>-Continued<br>70 Day, 14+10×, 10×, |                         | 711,024                |   |   |                        |       |             |
| Fixed Benefit   | Σ                       | 1,838,946              | 21  | 19  | 1.474                  | 2.279 | 155%        |
| 31 Day, 14+20×, 20×,<br>Fixed Benefit                           | ${< 11\% \atop \Sigma}$ | 329,883<br>927,467     | 21  | 20  | 1.487                  | 3.044 | 205         |
| 70 Day, 14+20×, 20×,<br>Fixed Benefit                           | <11%<br>Σ               | 276,332<br>651,853     | 19  | 16  | 1.576                  | 3.134 | 1 <b>99</b> |
| Employee Surgical Expense                                       |                         |                        |   |   |                        |       |             |
| \$150 Schedule  | ${<}^{11\%}_{\Sigma}$   | 1,338,526<br>3,770,972 | 25  | 23  | 2.935                  | 8.035 | 274         |
| \$200 Schedule.   | <11%<br>Σ               | 1,196,012<br>2,886,754 | 21  | 20  | 3.961                  | 9.869 | 249         |

#### TABLE 8—Continued

used in the base; however, the trends shown in the 1954 and in this year's report are consistent.

The analysis of the experience of the Employee Hospital and Surgical Expense insurance plans continues to show an upward trend.

# Male and Female Costs

As in the two previous reports, male and female parameters have been derived for the employee plans, together with a parameter ratio (female parameter divided by male parameter), which are shown in Table 8. The parameters were derived from the 1952–1954 policy year experience of exposure size groups 0–7 included in Tables 1, 3, and 4 and were adjusted to reproduce the level of crude claim costs of all exposure size groups for the 1954 policy year. The 1953 report discussed the considerations underlying these parameters and described their calculation in detail.

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As brought out in that discussion, the parameters in Table 8 are the result of the composite experience of groups whose claim costs vary widely as a result of such influences as geographical location, industrial classification, age distribution, etc. The resulting lack of homogeneity also produces variations and inconsistencies when male and female costs are derived or compared.

# Dispersion of Claim Costs

Previous reports have discussed the dispersion of crude claim costs of groups included in these studies. While no attempt was made to measure the fluctuations present in the figures in this report, nevertheless, the data underlying this year's tables were subject to the same influences. Accordingly, it must be recognized that many groups might have significantly different claim costs from the averages shown in this report.

# Contributing Companies

The following companies contributed experience for the investigation covered in this report:

Aetna Life Insurance Company Connecticut General Life Insurance Company Continental Assurance Company Equitable Life Assurance Society John Hancock Mutual Life Insurance Company Metropolitan Life Insurance Company Occidental Life Insurance Company of California Prudential Insurance Company of America The Travelers Insurance Company