## TRANSACTIONS

1954 REPORTS OF MORTALITY AND MORBIDITY EXPERIENCE

## REPORTS OF THE COMMITTEE ON MORTALITY UNDER ORDINARY INSURANCES AND ANNUITIES

## I. MORTALITY UNDER STANDARD ORDINARY INSURANCE ISSUES BETWEEN 1952 AND 1953 ANNIVERSARIES

THis report covers the intercompany experience under standard Ordinary insurance issues between 1952 and 1953 anniversaries. It takes up in turn the mortality experienced under

1. Standard Ordinary insurance issued subject to a medical examination, during each of the first fifteen policy years,
2. Standard Ordinary insurance issued without a medical examination, during each of the first fifteen policy years, and
3. Standard Ordinary insurance-medical and nonmedical issues combinedduring the sixteenth and subsequent policy years.

The names of the contributing companies and their proportionate contributions to the total exposures are given in Table A of the Appendix.

## EXPERIENCE UNDER STANDARD MEDICALLY EXAMINED ISSUES DURING THE FIRST FIFTEEN YEARS OF INSURANCE

The current experience during the first fifteen years of insurance is based on an exposure of $\$ 46,591,633,000$ and actual claims of $\$ 155,676$,000 , excluding war deaths. There were 392 policies representing $\$ 1,382$,000 in claims reported as deaths in the Korean War during this period.

Expected deaths were calculated on the 1946-49 Select Basic Table (TSA II, 506). The mortality ratios on this table, both excluding and including war deaths, are presented in Table 1 by age groups at issue for all years of issue combined. The experience by year of issue (or by policy year) for all ages at issue combined is presented in Table 2. The detailed experience by age groups at issue for each year of issue (or each policy year) is set forth in Table B of the Appendix.

The aggregate mortality ratio, excluding war deaths, fot the period from 1952 to 1953 anniversaries ( $91.9 \%$ ) was slightly lower than that $(93.2 \%)$ for the period from 1951 to 1952 anniversaries.

When war deaths are included the aggregate mortality ratio for the period from 1952 to 1953 anniversaries is increased by .9 of a percentage point (from $91.9 \%$ to $92.8 \%$ ). About $70 \%$ of the total amount of war claims was paid on policies issued at ages $10-24$. The inclusion of war deaths increased the mortality ratios as follows:
14.5 percentage points for the age group $10-14$ at issue, 16.3 percentage points for the age group 15-19 at issue, 9.9 percentage points for the age group $20-24$ at issue, and 2.2 percentage points for the age group $25-29$ at issue.

TABLE 1
Standard Medically Examined Issues of 1938 to 1952 Experience between 1952 and 1953 Anniversaries by age at issue
Policy fears 1 to 15 Combine.
(Amounts Shown in $\$ 1,000$ Units)

| $\begin{aligned} & \text { Ages at } \\ & \text { Issue } \end{aligned}$ | $\begin{aligned} & \text { Exposed } \\ & \text { To Risk } \end{aligned}$ | Actual Deaths |  | Expectid <br> Deathe on 1946-1949 Select Basic Table | Mortality Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Excluding War Deaths | War Deaths |  | Excluding War Deaths | Including War Deaths |
| 10-14 | \$ 1,006,041 | \$ 955 | \$ 135 | \$ 931 | $102.6 \%$ | 117.1\% |
| 15-19 | 1,983,625 | 2,114 | 349 | 2,138 | 98.9 | 115.2 |
| 20-24 | 4,436,599 | 4,466 | 476 | 4,857 | 91.9 | 101.8 |
| 25-29 | 7,363,858 | 8,568 | 218 | 9,933 | 86.3 | 88.5 |
| 30-34 | 9,020,602 | 16,303 | 144 | 17,178 | 94.9 | 95.7 |
| 35-39 | 8,646,492 | 24,462 | 60 | 26,412 | 92.6 | 92.8 |
| 40-44. | 6,732,012 | 29,145 | 0 | 31,853 | 91.5 | 91.5 |
| 45-49. | 4,132,262 | 29,079 | 0 | 31,506 | 92.3 | 92.3 |
| 50-54. | 2,137,476 | 22,318 | 0 | 23,812 | 93.7 | 93.7 |
| 55-59 | 857,955 | 12,341 | 0 | 13,687 | 90.2 | 90.2 |
| 60-64. | 230,949 | 4,464 | 0 | 5,537 | 80.6 | 80.6 |
| 65 \& over. | 43,762 | 1,461 | 0 | 1,468 | 99.5 | 99.5 |
| All Ages | \$46,591,633 | \$155,676 | \$1,382 | \$169,312 | 91.9\% | 92.8\% |

At ages 30 and over at issue, war deaths were negligible. This parallels the experience with Korean War deaths in earlier periods and indicates the extent to which war deaths have been concentrated at ages under 30 at issue.

Table 2 reveals no clear-cut differences in mortality by year of issue (or by policy year). Nearly $65 \%$ of the total amount of war claims on the 15 years of issue covered by the study was paid on the issues of 1948-1952,
inclusive. The inclusion of war deaths increased the mortality ratios as follows:
1.4 percentage points for the issues of 1952 , 3.0 percentage points for the issues of 1951, 2.9 percentage points for the issues of 1950 , 1.4 percentage points for the issues of 1949 , and 1.2 percentage points for the issues of 1948.

TABLE 2
Standard Medically Examined Issues of 1938 to 1952 Experifnce between 1952 and 1953 Anniversarifs by Year of Issue All Ages Combined
(Amounts Shown in $\$ 1,000$ Units)

| $\begin{aligned} & \text { YFAR OF } \\ & \text { 1SSUE } \end{aligned}$ | Policy <br> Year | Exposed <br> to Risk | Actual Deaths |  | Expected <br> Deaths on <br> 1946-1949 <br> Select <br> Basic <br> Thble | Mortality Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Excluding War Deaths | War <br> Deaths |  | $\begin{aligned} & \text { Excluding } \\ & \text { War } \\ & \text { Deaths } \end{aligned}$ | Including <br> War <br> Deaths |
| 1938 | 15 | \$ 2,009,047 | \$ 13,182 | \$ 32 | \$ 16,023 | 82.3\% | 82.5\% |
| 1939 | 14 | 1,733,394 | 10,700 | 28 | 11,944 | 89.6 | 89.8 |
| 1940 | 13 | 1,984,933 | 10,810 | 31 | 12,042 | 89.8 | 90.0 |
| 1941 | 12 | 2,458,975 | 12,530 | 46 | 13,386 | 93.6 | 93.9 |
| 1942 | 11 | 1,768,216 | 8,872 | 35 | 9,661 | 91.8 | 92.2 |
| 1943 | 10 | 2,046,336 | 11,464 | 30 | 11,141 | 102.9 | 103.2 |
| 1944 | 9 | 2,360,420 | 11,097 | 34 | 12,023 | 92.3 | 92.6 |
| 1945 | 8 | 2,626,019 | 11,167 | 56 | 11,902 | 93.8 | 94.3 |
| 1946 | 7 | 3,935,753 | 11,849 | 125 | 13,398 | 88.4 | 89.4 |
| 1947 | 6 | 3,834,369 | 11,749 | 79 | 12,915 | 91.0 | 91.6 |
| 1948 | 5 | 3,574,670 | 9,876 | 129 | 10,791 | 91.5 | 92.7 |
| 1949 | 4 | 3,824,716 | 8,929 | 137 | 9,720 | 91.9 | 93.3 |
| 1950 | 3 | 4,669,700 | 9,384 | 288 | 9,938 | 94.4 | 97.3 |
| 1951 | 2 | 4,469,029 | 7,521 | 241 | 7,958 | 94.5 | 97.5 |
| 1952 | 1 | 5,296,056 | 6,546 | 91 | 6,470 | 101.2 | 102.6 |
| All Years of Issue. . . . |  | \$46,591,633 | \$155,676 | \$1,382 | \$169,312 | 91.9\% | 92.8\% |

For no other year of issue was the mortality ratio increased by more than 1.0 percentage point on account of inclusion of war deaths. This gives some indication of the extent to which war deaths were concentrated on recently issued policies.

Table 3 presents an analysis of the current experience on medical issues according to the major subdivisions by cause of death based on the Committee's 1950 Code for Cause of Death (TSA I, 617). This table shows the
percentage distribution by cause of death of amounts paid in claims; the corresponding percentage distribution by cause of death of the numbers of claims paid was not significantly different.

## EXPERIENCE UNDER STANDARD NONMEDICAL ISSUES DURING THE FIRST FIFTEEN YEARS OF INSURANCE

The current experience during the first fifteen years of insurance is based on an exposure of $\$ 11,231,408,000$ and actual claims of $\$ 14,801,000$,

TABLE 3
Standard Medically Examined Issues of 1938 To 1952
Experience (Including War Deaths) be-
TWEEN 1952 AND 1953 ANNIVERSARIES
Percentage Distribution by Cause of Death of Amounts Paid in Claims

| ramen at Demp | Tuber <br> cu- <br> losis All <br> Forms) | Malig nant Netr plasms | Diabetes Mellitus | Yascta Gr T.e stons Affect ing Central Servous System | Dis. <br> eases <br> of the <br> Heart <br> anil <br> (jircli. latory <br> System | Prelimonia and Influenza | teri- <br> tents <br> and <br> Homi- <br> cide | $\begin{aligned} & \text { Sui- } \\ & \text { cite } \end{aligned}$ | $\begin{aligned} & \text { Har } \\ & \text { reathe } \end{aligned}$ | N <br> Other <br> Canses <br> mand <br> Un. <br> known |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Committee's 1950 Code: | 01, 02 | 18-33 | 37 | 42 | 49-53 | 56-3.9 | $\begin{gathered} 88-96, \\ 98 \end{gathered}$ | 97 | 99 | Residual |
| Ages 10-29 at issue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5. | $1 \%$ | $11.4 \%$ | 5\% | $1.5 \%$ | $7.7 \%$ | $2.0{ }^{\circ \prime \prime}$ | $47.0 \%$ | 4.0 c | $119 \%$ | 13.90 |
| Policy Years 6-15. | 7 | 15.2 | 4 | 28 | 19.7 | 12 | 29.8 | 7.1 | 4.0 | 19.1 |
| Polncy Years 1-15. | ; | 13.8 | 4 | 23 | 15.5 | 1.5 | 359 | 60 | 68 | 17.3 |
| Ages 30-39 at issue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5... | 4 | 17.6 | 3 | 22 | 25.1 | 7 | 26.0 | 8.2 | 15 | 18.0 |
| Policy Years 6-15.. | 5 | 19.4 | 5 | 4.3 | 42.7 | 9 | 9.8 | 4.9 | 2 | 16.8 |
| Policy Years 1-15.. | 5 | 18.9 | 4 | 38 | 38.2 | 9 | 13.9 | 5.8 | 5 | 17.1 |
| Ages 40-49 at issue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5. | 2 | 192 | 0 | 3.4 | 48.2 | 6 | 11.2 | 4.1 | 0 | 1.31 |
| Policy Xears 6-15. | 3 | 21.4 | 4 | 6.0 | 49.0 | 7 | 6.1 | 3.1 | 0 | 130 |
| Policy Years 1-15. | 3 | 20.9 | 3 | 5.4 | 48.8 | . 7 | 7.3 | 3.3 | 0 | 130 |
| Ages 50 and over at is- |  |  |  |  |  |  |  |  |  |  |
| sue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5 | 4 | 254 | 2 | 38 | 502 | 1.5 | 5.7 | 3.0 | 0 | 9.8 |
| Policy Years 6-15... | 6 | 23.8 | 7 | 7.3 | 47.4 | 1.3 | 3.2 | 1.3 | 0 | 14.4 |
| Policy Years $1-15$ | 5 | 243 | 6 | 63 | 48.2 | 1.4 | 3.9 | 1.8 | 0 | 130 |
| All Ages at issue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5. | 3 | 19.4 | 5 | 30 | 37.4 | 11 | 18.3 | 4.8 | 2.0 | 13.5 |
| Policy Years 6-15 | 5 | 20.8 | 5 | 56 | 44.0 | 10 | 8.7 | 3.5 | 4 | 15.0 |
| Policy Years 1-15 | . 4 | 20.5 | 4 | 49 | 42.2 | 1.0 | 11.3 | 3.8 | 9 | 145 |

excluding war deaths. There were 378 policies representing $\$ 778,000$ in claims reported as deaths in the Korean War during this period.

It should be noted that nonmedical business has continued to grow in importance. Thus the exposures on nonmedical issues in the current study increased $14.2 \%$ over those in the study covering the period from 1951 to 1952 anniversaries, whereas the corresponding exposures on medical issues
increased only $3.6 \%$. For the 16 companies contributing to this study, nonmedical insurance accounted for approximately $28.9 \%$ of the standard issues of 1952 (by amounts) as compared with $28.6 \%$ and $19.9 \%$ of the standard issues of 1951 and 1950 respectively.

Expected deaths were calculated on the 1946-49 Select Basic Table (TSA II, 506), which was based on the experience under medical issues. The mortality ratios for nonmedical business on this table, both excluding and including war deaths, are presented in Table 4, by age groups at issue

TABLE 4
Standard Nonmedical Issues of 1938 to 1952
Experience between 1952 and 1953 AnNiversaries by Age at Issue
Policy Years 1 to 15 Combined
(Amounts Shown in $\$ 1,000$ Units)

| Ages at Issef. | $\begin{aligned} & \text { Exposed } \\ & \text { To Rtsk } \end{aligned}$ | Acteal Deaths |  | Expectrd Deathe* on 1946-1949 Select Basic Table | Mortality Ratio* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Excluding War Deaths | War Deatbs |  | Excluding War Deaths | Includin War Deaths |
| 10-14 | \$ 622,233 | \$ 520 | \$ 53 | \$ 486 | 107.0\% | 117.9\% |
| 15-19 | 1,981,913 | 1,916 | 278 | 1,939 | 98.8 | 113.2 |
| 20-24 | 2,950,865 | 2,655 | 343 | 2,781 | 95.5 | 1078 |
| 25-29 | 2,606,423 | 2,509 | 85 | 2,899 | 86.5 | 89.5 |
| 30-34 | 1,695,691 | 2,646 | 17 | 2,655 | 99.7 | 100.3 |
| 35-39 | 935,012 | 2,341 | 2 | 2,440 | 95.9 | 96.0 |
| 40-44. | 346,109 | 1,584 | 0 | 1,477 | 107.2 | 107.2 |
| 45-49. | 77,106 | 533 | 0 | 501 | 106.4 | 106.4 |
| 50 and over | 16,056 | 97 | 0 | 152 | 63.8 | 63.8 |
| All Ages | \$11,231,408 | \$14,801 | \$778 | \$15,330 | 96.5\% | 101.6\% |

* Not adjusted for distribution of exposures by age within each five year age group at issue.
for all years of issue combined. These mortality ratios understate the death rates on nonmedical business because in calculating the expected deaths no adjustment was made for the fact that the central ages of the exposures under nonmedical issues for issue age groups 35-39, 40-44, 4549 and $50-54$ were younger than the central ages of the mortality rates for these age groups in the 1946-49 Select Basic Table; this situation arose from the limiting ages for nonmedical issues of the contributing companies being variously set at $35,40,45$ or 50 , so that the exposures beyond these ages tended to fall off sharply. The mortality ratios on nonmedical business by year of issue (or by policy year) are presented in Table 5, also on this unadjusted basis. The details of the unadjusted experience by age
groups at issue for each year of issue (or each policy year) are set forth in Table C of the Appendix.

Table 4 brings out that, with war deaths excluded, nonmedical mortality was above the 1946-49 Select Basic Table at ages 40 and over at issue. For all durations combined, nonmedical mortality was higher than that on medical business in all age groups at issue except 15-19, and ages 50 and over (where the nonmedical exposure was very small).

The extent to which Table 4 understates the true mortality on nonmedical business is brought out by the figures shown below.

The unadjusted mortality ratios understate the true mortality on nonmedical business to a significant degree only for age groups 40-44 and


* For distribution of exposures by age within each five year age group at issue.

45-49 at issue. The nonmedical business issued at ages 50 and over represents primarily business issued under special circumstances (as for instance under salary allotment plans) which do not affect the distribution of the exposures by age within each five year age group at issue.

Allowing for the understatement of the mortality ratios on nonmedical business issued at ages $40-44$ and $45-49$ as shown in Table 4, it appears that the mortality ratios on nonmedical business did not exceed those on medical business by as many as 5 percentage points at issue ages under 40, but were approximately 20 percentage points higher at issue ages $40-49$.

The aggregate mortality ratio on nonmedical business, excluding war deaths, for the period from 1952 to 1953 anniversaries ( $96.5 \%$ ) was 2.7 percentage points lower than that $(99.2 \%)$ for the period from 1951 to 1952 anniversaries, both on an unadjusted basis. When war deaths are included, the current aggregate mortality ratio on nonmedical business is
increased by 5.1 percentage points (from $96.5 \%$ to $101.6 \%$ ) on an unadjusted basis. Over $85 \%$ of the total amount of war claims was paid on policies issued at ages 10-24. The inclusion of war deaths increased the mortality ratios as follows:
10.9 percentage points for the age group $10-14$ at issue, 14.4 percentage points for the age group $15-19$ at issue, 12.3 percentage points for the age group 20-24 at issue, and 3.0 percentage points for the age group 25-29 at issue.

TABLE 5
Standard Nonmedical Issues of 1938 to 1952 Experience between 1952 and 1953 Anniversaries by Year of Issue
All Ages Combined
(Amounts Shown in $\$ 1,000$ Units)

| $\begin{aligned} & \text { Year of } \\ & \text { Issce } \end{aligned}$ | Policy <br> Year | Exposed <br> ro Rise | Actual Deaths |  | Expected <br> Deaths* <br> ON 1946 - <br> 1949 <br> Select <br> Basic <br> Table | Mortality Ratio* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Excluding War Deaths | War Deaths |  | Excluding War Deaths | Including <br> War <br> Deaths |
| 1938 | 15 | \$ 211,232 | \$ 666 | \$ 7 | \$ 751 | 88.7\% | $89.6 \%$ |
| 1939 | 14 | 222,861 | 659 | 5 | 684 | 96.3 | 97.1 |
| 1940 | 13 | 252,143 | 653 | 3 | 666 | 98.0 | 98.5 |
| 1941 | 12 | 306,062 | 746 | 2 | 701 | 106.4 | 106.7 |
| 1942 | 11 | 257,490 | 609 | 7 | 571 | 106.7 | 107.9 |
| 1943 | 10 | 452,063 | 913 | 19 | 908 | 100.6 | 102.6 |
| 1944 | 9 | 505,326 | 919 | 28 | 959 | 95.8 | 98.7 |
| 1945 | 8 | 549,240 | 872 | 31 | 971 | 89.8 | 93.0 |
| 1946 | 7 | 1,020,295 | 1,332 | 45 | 1,479 | 90.1 | 93.1 |
| 1947 | 6 | 875,862 | 1,200 | 56 | 1,254 | 95.7 | 100.2 |
| 1948 | 5 | 774,079 | 904 | 87 | 1,043 | 86.7 | 95.0 |
| 1949 | 4 | 864,312 | 996 | 84 | 1,049 | 94.9 | 103.0 |
| 1950 | 3 | 1,114,382 | 1,284 | 142 | 1,216 | 105.6 | 117.3 |
| 1951 | 2 | 1,676,912 | 1,357 | 156 | 1,547 | 87.7 | 97.8 |
| 1952. | 1 | 2,149,149 | 1,691 | 106 | 1,531 | 110.5 | 117.4 |
| All Years Issue. |  | \$11,231,408 | \$14,801 | \$778 | \$15,330 | 96.5\% | 101.6\% |

* Not adjusted for distribution of exposures by age within each five year age group at issue.

In the age group 30-34 at issue, war deaths accounted for $6 \%$ of the claims. There was only one war death reported at older ages. This emphasizes again the extent to which war deaths have been concentrated at ages under 30 at issue.

Table 5 reveals no clear-cut differences in nonmedical mortality by duration. Nearly $75 \%$ of the total amount of war claims paid on the fifteen years' issues covered by this study was paid on the issues of 1948 to 1952
inclusive. The inclusion of war deaths increased the mortality ratios as follows:
6.9 percentage points for the issues of 1952, 10.1 percentage points for the issues of 1951, 11.7 percentage points for the issues of 1950 ,
8.1 percentage points for the issues of 1949, and
8.3 percentage points for the issues of 1948.

On the issues of 1943 and earlier years, the inclusion of war deaths did not increase any of the mortality ratios by more than 2.0 percentage points. This gives some indication of the extent to which war deaths have been concentrated on recently issued nonmedical policies. Adjustment of the mortality ratios shown in this table so that they would correspond to the distribution of nonmedical exposures by age within each five year age group at issue would not increase the mortality shown for any year of issue by more than one percentage point.

Table 6 presents an analysis of the current experience on nonmedica:
TABLE 6

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Standard Nonmedical Issues of 1938 tu 1952
Experience (Including War Deaths) between 1952 and 1953 Anniversaries
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Plreftage Distribution by Cause of Death of Amouts Pabin Clams

| Cause of Death: | Tuber-culosis (All <br> Forms) | Malig nant Neoplasms | Diabetes Mellitus | Vascular Lesions Affecting Central Nerv. ous System | Diseases of the Heart and Circulatory System | Pneumonia and In-fluen$z a$ | Accidents and Homicide | Sui. cide | War <br> Deaths | 411 <br> Other <br> Causes <br> and <br> Un- <br> known |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Committee's 1950 Code: | 01, 12 | 18.33 | $3 i$ | 42 | 49-55 | 56-50 | $\begin{gathered} 88 \\ 98 \\ 08 \end{gathered}$ | 197 | 09 | Residual |
| Ages 10-29 at issue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5. | 59 | $80 \%$ | 2\% | $1.3 \%$ | $48 \%$ | 8 c | +8.0\% | 290 | 12.76 | 20.85 |
| Policy Years 6-15. | 1.2 | 147 | 6 | 2.8 | 16.7 | 1.8 | 29.8 | 4.2 | 5.1 | 23.1 |
| Policy Years 1-15. | 9 | 112 | 4 | 2.0 | 10.4 | 1.3 | 39.4 | 3.5 | 9.1 | 219 |
| Ages 30-39 at issue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5. | 11 | 14.9 | 3 | 2.1 | 25.7 | 1.7 | 29.8 | 3.5 | 1.0 | 20.3 |
| Policy Years 6-15 | 1.1 | 180 | 5 | 4.0 | 39.5 | 14 | 100 | 46 | 1 | 20.6 |
| Policy Years 1-15 | 10 | 17.0 | 5 | 3.4 | 34.9 | 1.5 | 166 | 42 | 7 | 20.5 |
| Ages 40-49 at issue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5. | 2 | 18.3 | 3 | 5.4 | 49.1 | 8 | 7.9 | 50 | 0 | 13.0 |
| Policy Years 6-15 | 9 | 156 | 9 | 7.9 | 50.9 | 9 | 4.2 | 17 | 0 | 170 |
| Policy Years 1-15. | 7 | 16.5 | 7 | 7.0 | 50.3 | 9 | 5.4 | 2.8 | 0 | 157 |
| Age 50and over at issue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5... | 0 | 22.7 | 0 | 2.5 | 58.0 | 1 | 5.3 | 0 | 0 | 115 |
| Policy Years 6-15 | 0 | 22.7 | 0 | 6.2 | 44.2 | 2.1 | 15.5 | 0 | 0 | 9.3 |
| Policy Years 1-15. | 0 | 227 | 0 | 4.4 | 51.0 | 10 | 10.5 | 0 | 0 | 104 |
| All Ages at issue |  |  |  |  |  |  |  |  |  |  |
| Policy Years 1-5. | 1 | 10.8 | 3 | 1.9 | 14.7 | 1.0 | 39.2 | 3.2 | 8.5 | 19.9 |
| Policy Years 6-15 | 11 | 168 138 | . 7 | 4.1 3.2 | 31.1 240 | 1.5 1.3 | 18.0 27 | 3.9 3.6 | 2.3 5.0 | 21.1 |
| Policy Years 1-15.. | 8 | 138 | . 5 | 3.2 | 24.0 | 1.3 | 27.3 | 3.6 | 5.0 | 20.5 |

issues according to the major subdivisions by cause of death based on the Committee's 1950 Code for Cause of Death (TSA I, 617). This table shows the percentage distribution by cause of death of amounts paid in claims; the corresponding percentage distribution by cause of death of the numbers of claims paid was not significantly different.

Table 7 presents side by side the experience, excluding war deaths, on medical and nonmedical issues as reported to the Committee during the past three years, i.e., for the period from 1950 to 1953 anniversaries. The nonmedical mortality ratios shown in this table have been adjusted approximately so as to reflect the distribution of nonmedical exposures by age within each five year age group at issue. In so far as these figures go,

TABLE 7
Comparison of Medical and Nonmedical Experiexce*
between 1950 and 1953 Anniversaries By Age at Issue and Duration (First Fifteen Policy Years)


* Excludes war deaths.
$\dagger$ Adjusted for distribution of exposures by age within each five year age group at issue.
they continue to indicate (a) that nonmedical mortality is higher than that on medical business for ages 20 through 49 at issue at virtually all durations, and (b) that the excess of nonmedical mortality over medical mortality increases with advancing age at issue up to age 50 . It should be kept in mind that the experience at ages 50 and over at issue is probably not typical because, as previously noted, it represents primarily business issued under special circumstances, as for instance under salary allotment plans.

Additional data furnished the Committee indicate that females continue to constitute a higher proportion of nonmedical issue ( $16.1 \%$ ) than of medical issue ( $6.2 \%$ ). This was noted in previous reports. To the extent that females constitute a higher proportion of the nonmedical experience than of the medical experience, Table 7 understates the excess of nonmedical mortality over medical mortality.

## EXPERIENCE UNDER STANDARD ISSUES DURING THE 16 TH AND SUBSEQUENT POLICY YEARS

The current experience during the 16 th and subsequent policy years is based on an exposure of $\$ 21,913,972,000$ and actual claims of $\$ 412,773,-$

TABLE 8
Standard Issues during 16Th and Subsequext Policy Years Experience between 1952 and 1953 Anniversaries by Attained age

All Policy Years Combined
(Amounts Shown in $\$ 1,000$ Units)

| Attained Ages | Exposed to Risk | Actual Deaths |  | Expected <br> Deaths on |  | Mortality Ratio on |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Exclud- } \\ \text { ing } \\ \text { War } \\ \text { Deaths } \end{gathered}$ | War Deaths | $\begin{gathered} \text { 1946- } \\ 1949 \\ \text { Ulti- } \\ \text { mate } \\ \text { Basic } \\ \text { Table } \end{gathered}$ | $\begin{aligned} & \text { CSO } \\ & \text { Table } \end{aligned}$ | 1946-1949 Ultimate Basic Table |  | CSO Table |  |
|  |  |  |  |  |  | Excluding War Deaths | Including War Deaths | Excluding War Deaths | Including War Deaths |
| 25-29 | - 209,816 | \$ 228 | \$22 | \$ 252 | + 667 | $90.5 \%$ | 99.270 | $34.2 \%$ | $37.5 \%$ |
| 30-34 | 525,429 | 658 | 16 | - 782 | 2,100 | 84.1 | 86.2 | 31.3 | 32.1 |
| 35-39 | 1,193,724 | 2,116 | 3 | 2,427 | 6,280 | 87.2 | 87.3 | 33.7 | 33.7 |
| 40-44 | 2,094,582 | 7,119 | 5 | 6,942 | 15,004 | 102.5 | 102.6 | 47.4 | 47.5 |
| 45-49 | 3,049,419 | 15,693 | 0 | 17,316 | 30,604 | 90.6 | 90.6 | 51.3 | 51.3 |
| 50-54 | 3,554,342 | 30,651 | 3 | 33,561 | 51,329 | 91.3 | 91.3 | 59.7 | 59.7 |
| 55-59 | 3,730, 116 | 52,979 | 0 | 58,859 | 78,768 | 90.0 | 90.0 | 67.3 | 67.3 |
| 60-64 | 3,182,275 | 75,122 | 0 | 79,642 | 98,987 | 94.3 | 94.3 | 75.9 | 75.9 |
| 65-69 | 2,178,992 | 77,385 | 0 | 80,924 | 100,773 | 95.6 | 95.6 | 76.8 | 76.8 |
| 70-74 | 1,254,352 | 66.089 | 0 | 68,713 | 86,473 | 96.2 | 96.2 | 76.4 | 76.4 |
| 75-79 | 634,521 | 48, 197 | 0 | 51,373 | 64,663 | 93.8 | 93.8 | 74.5 | 74.5 |
| 80-84 | 237,972 | 25,697 | 0 | 28,950 | 35,619 | 88.8 | 88.8 | 72.1 | 72.1 |
| 85-89 | 59,180 | 8,862 | 0 | 10,632 | 12,855 | 83.4 | 83.4 | 68.9 | 68.9 |
| 90-95 | 9,252 | 1,977 | 0 | 2,233 | 2,865 | 88.5 | 88.5 | 69.0 | 69.0 |
| All Ages. | \$21,913,972 | \$412,773 | \$49 | \$442,606) | \$586,987 | 93.3\% | 93.3\% | 70.3\% | 70.3\% |

000, excluding war deaths. There were 25 policies representing $\$ 49,000$ in claims reported as deaths in the Korean War during this period.

Expected deaths were calculated on the 1946-49 Ultimate Basic Table (TSA II, 507) and also on the Commissioners 1941 Standard Ordinary Mortality Table. The mortality ratios on these tables, both excluding and including war deaths, are presented in Table 8 by attained age groups.

The aggregate mortality ratio on the 1946-49 Ultimate Basic Table, excluding war deaths, for the period from 1952 to 1953 anniversaries ( $93.3 \%$ ) was .9 of a percentage point higher than that ( $92.4 \%$ ) for the period from 1951 to 1952 anniversaries, but 1.6 percentage points lower

TABLE 9
Standard Issues during 16th and Subsequent Policy Years EXPERIENCE (INCLUDING WAR DEATHS) BETWEEN 1952 AND 1953 ANNIVERSARIES
Percentage Distribution by Cause of Death of Amounts Paid in Claims

| Cause of Death: | Tuberculosis <br> (All <br> Forms) | Malig. nant Neo plasms | Diabetes Mel. litus | Vascular Lesions Affecting Central Nervous System | Diseases of the Heart and Circulatory System | Pneumonia and Influenza | Accidents and Homicide | Sujcide | War Deaths | Al! <br> Other <br> Causes <br> and <br> Un- <br> known |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Committee's 1950 Code: | 01, 02 | 18-33 | 37 | 42 | 49-55 | 56-59 | $\begin{gathered} 88-96 \\ 98 \end{gathered}$ | 97 | 99 | Residual |
| Attained Ages Under 40 |  |  |  |  |  |  |  |  |  |  |
| 40-49 | . 8 | 21.0 | 1.7 | 4.7 | 44.0 | . 8 | 7.6 | 3.9 | 0 | 16.5 |
| 50-59 | 5 | 18.4 | 8 | 7.7 | 51.6 | 9 | 3.0 | 2.5 | 0 | 14.6 |
| 60-69. | 4 | 16.6 | 1.0 | 9.8 | 54.9 | 14 | 1.9 | 1.3 | 0 | 12.7 |
| 70-79. | 3 | 15.4 | 1.6 | 13.8 | 51.2 | 2.5 | 1.7 |  | 0 | 13.1 |
| 80 and over | 3 | 11.5 | 6 | 16.2 | 52.0 | 3.4 | 1.9 | 4 | 0 | 13.7 |
| All Ages | $4 \%$ | $16.4 \%$ | $1.1 \%$ | 10.7\% | 52.1\% | 1.8\% | 2.5\% | $14 \%$ | 0\% | 13.6\% |

than that $(94.9 \%)$ for the period from 1950 to 1951 anniversaries. The inclusion of war deaths increased the mortality ratios appreciably only at attained ages under 35-by 8.7 percentage points at attained ages 25-29 and by 2.1 percentage points at attained ages $30-34$.

Table 9 presents an analysis of the current experience on business in the 16 th and subsequent policy years according to the major subdivisions by cause of death based on the Committee's 1950 Code for Cause of Death (TSA I, 617). This table shows the percentage distribution by cause of death of amounts paid in claims; the corresponding percentage distribution by cause of death of the numbers of claims paid was not significantly different.

## APPENDIX

TABLE A
Contributing Companies
Proportion of Total Exposures
Contributed by Each

| Company | First 15 Policy lears |  | 16TH AND Subsequent Policy Year |
| :---: | :---: | :---: | :---: |
|  | Medical Issues | Nonmedical Issues |  |
| Metropolitan | $24.2 \%$ | $23.1 \%$ | $28.0 \%$ |
| Prudential. | 14.6 | 35.0 | 122 |
| New York Life | 10.2 | 116 |  |
| Northwestern Mutual | 8.8 |  | 10 ? |
| Equitable, N. V . | 8.6 | 73 | 11.8 |
| John Hancock. | 4.8 | 8.7 | 3.3 |
| Mutual Life, N.Y. | 4.1 | 2.0 | 6.6 |
| Mutual Benefit. | 4.0 | 5 | 4.0 |
| Massachusetts Mutual | 3.7 | 1.7 | 4.9 |
| Travelers. | 3.4 | 6 | 4.5 |
| Penn Mutual. | 3.3 | 1.2 | 4.4 |
| Connecticut Mutual | 28 | 2.6 | 2.1 |
| Actna. | 2.7 | 9 | 3.1 |
| Provident Mutual | 1.7 | 1 | 2.3 |
| Connecticut General. | 1.7 |  | 1.0 |
| Sun Life, Canada | 1.4 | 3.7 | 1.6 |
| Total | 100.0\% | 100.0\% | 100.0\% |

TABLE B
Standard Medically Examined Issues of 1938 to 1952 Experience between 1952 and 1953 Anniversaries by Year of Issue and Age at Issue
Expected Deaths on 1946-1949 Select Basic Table
(Amounts Shown in $\$ 1,000$ Units)

| Issue <br> Year <br> (Policy <br> Year) | Ages at Issus | Exposed <br> TO RISE | Actual Deaths |  | Expected Deaths | Mortality Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Excluding War Deaths | War Deaths |  | Excluding War Deaths | Including War Deaths |
| $\begin{aligned} & 1938 . \\ & (15) \end{aligned}$ | 10-14 | \$ 82,854 | \$ 74 | \$ 24 | \$ 96 | 77\% | 102\% |
|  | 15-19 | 121,936 | 134 | 8 | 171 | 78 | 83 |
|  | 20-24 | 272,966 | 404 | 0 | 510 | 79 | 79 |
|  | 25-29 | 360,227 | 906 | 0 | 1,063 | 85 | 85 |
|  | 30-34 | 383,998 | 1,643 | 0 | 1,939 | 85 | 85 |
|  | 35-39 | 318,660 | 2,176 | 0 | 2,616 | 83 | 83 |
|  | 40-44 | 233,165 | 2,634 | 0 | 3,092 | 85 | 85 |
|  | 45-49 | 139,183 | 2,296 | 0 | 2,947 | 78 | 78 |
|  | 50-54 | 61,663 | 1,580 | 0 | 1,863 | 85 | 85 |
|  | 55-59 | 25,062 | 836 | 0 | 1,093 | 76 | 76 |
|  | 60-64 | 8,224 | 385 | 0 | 524 | 73 | 73 |
|  | 65 and over | 1,109 | 114 | 0 | 109 | 105 | 105 |
|  | All Ages | \$2,009,047 | \$13,182 | \$32 | \$16,023 | $82 \%$ | 82\% |
| $\begin{aligned} & 1939 \ldots \\ & (14) \end{aligned}$ | 10 14 | - 72,618 | ¢ 114 | \$ 12 | \$ 83 | $137 \%$ | 1.52\% |
|  | 15-19 | 114,774 | 108 | i | 147 | 73 | 74 |
|  | 20-24 | 252,864 | 282 | 5 | 410 | 69 | 70 |
|  | 25-29 | 313,337 | $61+$ | 0 | 802 | 77 | 77 |
|  | 30-34 | 312,767 | 1,105 | 5 | 1. 342 | 82 | 83 |
|  | 35-39 | 263,320 | 1,996 | 5 | 1,833 | 109 | 109 |
|  | 40-44 | 190,691 | 2.027 | 0 | 2,139 | 9.5 | 95 |
|  | $45-49$ | 120,009 | 1,84.3 | 0 | 2,185 | 86 | 86 |
|  | 50-54 | 62090 | 1,442 | 0 | 1.637 | 88 | 88 |
|  | 55-59 | 24,176 | 765 | 0 | 931 | 82 | 82 |
|  | 60-64 | 6.212 | 289 | 0 | 340 | 85 | 85 |
|  | 65 andl over | 1.136 | 85 | 0 | 95 | 89 | 89 |
|  | All Ages | \$1.733.394 | \$10,700 | \$28 | S11.944 | 90\% | 90\% |
| $\begin{aligned} & 1940 \ldots \\ & (13) \end{aligned}$ | 10-14 | \$ 75,246 |  | $\bigcirc 9$ | \$ 85 | 82\% | 93\% |
|  | 15-19 | 133,436 | - 169 | 7 | 161 | 68 | 72 |
|  | 20-24 | 297,072 | 304 | 1 | 419 | 73 | 73 |
|  | 25-29 | 362,954 | 784 | 9 | 806 | 97 | 98 |
|  | 30-34 | 355,692 | 1,308 | 0 | 1,337 | 98 | 98 |
|  | 35-39 | 298,064 | 1,585 | 5 | 1.836 | 86 | 87 |
|  | 40-44 | 218.052 | 1,914 | 0 | 2,148 | 89 | 89 |
|  | 45-49 | 137.790 | 2,060 | 0 | 2.216 | 93 | 93 |
|  | 50-54 | 69,838 | 1.546 | 0 | 1.623 | 95 | 95 |
|  | 55-59 | 27,956 | 720 | 0 | 954 | 75 | 75 |
|  | 60)-64 | 7,515 | 357 | 0 | 362 | 99 | 99 |
|  | 65 and over | 1,318 | 47 | 0 | 95 | 49 | 49 |
|  | All Ages | \$1,984,933 | \$10,810 | \$ 31 | \$12,042 | 90\% | 90\% |
| $\begin{aligned} & 1941 \\ & (12) \end{aligned}$ | 10-14 | \$ 83,246 | \$ 119 | S 16 | \$ 93 | $128 \%$ | 145\% |
|  | 15-19 | 179,392 | 159 | 18 | 208 | 76 | 85 |
|  | 20-24 | 367,035 | 392 | 4 | 477 | 82 | 83 |
|  | 25-29 | 436,483 | 695 | 4 | 856 | 81 | 82 |
|  | 30-34 | 446,450 | 1,628 | 0 | 1,487 | 109 | 109 |
|  | 35-39 | 378,601 | 2,164 | 4 | 2,120 | 102 | 102 |
|  | 40-44 | 262,602 | 2,157 | 0 | 2,293 | 94 | 94 |

TABLE B-Continued

| $\begin{gathered} \text { Issue } \\ \text { Year } \\ \text { (Policy } \\ \text { Year) } \end{gathered}$ | $\begin{gathered} \text { Ages at } \\ \text { Issce } \end{gathered}$ | $\begin{aligned} & \text { Exposed } \\ & \text { to Risk } \end{aligned}$ | Actual Deitas |  | Expected Deaths | Murtality Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Excluding War Deaths | War Deaths |  | Excluding War Deaths | Including War Deaths |
| $\frac{1941}{(12)}$ | $45-49$ | \$ 174, 365 | \$ 2,499 | 30 | \$ 2,540 | 98\% | 98\% |
|  | 50-54 | 86,375 | 1,519 | 0 | 1,764 | 86 | 86 |
|  | 55-59 | 31,933 | 842 | 0 | 968 | 87 | 87 |
|  | 60-64 | 10,719 | 255 | 0 | 467 | 55 | 55 |
|  | 65 and over | 1,774 | 101 | 0 | 113 | 89 | 89 |
|  | All Ages | \$2,458,975 | \$12,530 | \$ 46 | \$13,386 | 94\% | 94\% |
| $\begin{aligned} & 1942 \\ & (11) \end{aligned}$ | 10-14 | \$ 61,070 | \$ 67 | \$ 30 | s 67 | $100 \%$ | 145\% |
|  | 1519 | 125,675 | 146 | 2 | 141 | 104 | 105 |
|  | 20-24 | 207,842 | 245 | 0 | 247 | 99 | 99 |
|  | 25-29 | 292,545 | 384 | 3 | 521 | 74 | 74 |
|  | 30-34 | 315,922 | 910 | 0 | 932 | 98 | 98 |
|  | 35-39 | 283,450 | 1,437 | 1) | 1.423 | 101 | 101 |
|  | 40-44 | 209,534 | 1,570 | 3 | 1.632 | 96 | 90 |
|  | 45.40 | 147,938 | 1.496 | 1 | 1919 | 78 | 78 |
|  | 50.54 | 82,206 | 1,263 | 11 | $1.48 \%$ | 85 | 83 |
|  | 55.59 | 31,512 | 850 | 0 | 840 | 101 | 101 |
|  | 60 64 | X, 700 | 421 | 1 | 353 | 119 | 119 |
|  | 65 and nver | 1,692 | 83 | 0 | 99 | 84 | 84 |
|  | All Ages | 51,768,216 | 88.872 | S 35 | 89,661 | 92\% | 92\% |
| $\begin{aligned} & 1943 \\ & (10) \end{aligned}$ | $101+$ | 364.731 | S 144 | S 14 | § 70 | 206\% | 226\% |
|  | 15-19 | 115,337 | 134 | 10 | 126 | 106 | 114 |
|  | 20-24 | 166,428 | 185 | 5 | 185 | 100 | 103 |
|  | 25-29 | 281,324 | 451 | 1 | 444 | 102 | 102 |
|  | 30. 34 | 354,856 | 799 | 0 | 898 | 89 | 89 |
|  | 35-39 | 370,760 | 1,967 | 0 | 1,620 | 121 | 121 |
|  | 40-44 | 308,898 | 2,257 | 0 | 2,091 | 108 | 108 |
|  | 4. 49 | 211,296 | 2,390 | 0 | 2,356 | 101 | 101 |
|  | 50.54 | 114,717 | 1.551 | 0 | 1,798 | 86 | 86 |
|  | 55-59 | 44,398 | 1. 153 | 0 | 1.023 | 113 | 113 |
|  | 60-64 | 11,442 | 280 | 0 | 417 | 67 | 67 |
|  | 65 and over | 2,149 | 153 | 0 | 11.3 | 135 | 135 |
|  | All Ages | 52,046,336 | 311,464 | \$ 30 | S11,141 | 103\% | 103\% |
| $\begin{aligned} & 1944 . \\ & (9) \end{aligned}$ | 10-14 | § 77,454 | § 77 | \$ 18 | \$ 79 | 97\% | 120\% |
|  | 15-19 | -123,298 | 135 | 16 | 133 | 102 | 114 |
|  | 20-24 | 154,435 | 133 | 0 | 164 | 81 | 81 |
|  | 25-29 | 266,092 | 394 | 0 | 386 | 102 | 102 |
|  | 30-34 | 407,040 | 878 | 0 | 920 | 95 | 95 |
|  | 35-39 | 460,793 | 1,664 | 0 | 1,802 | 92 | 92 |
|  | 49-44 | 408, 715 | 2,693 | 0 | 2,465 | 109 | 109 |
|  | 45-49 | 257,187 | 2,174 | 0 | 2,520 | 86 | 86 |
|  | 50-54 | 138,634 | 1,638 | 0 | 1,960 | 84 | 84 |
|  | 55-59 | 51,856 | 958 | 0 | 1,070 | 90 | 90 |
|  | 60-64 | 12,547 | 214 | 0 | 412 | 52 | 52 |
|  | 65 and over | 2,369 | 139 | 0 | 112 | 124 | 124 |
|  | All Ages | \$2,360,420 | \$11,097 | \$ 34 | \$12,023 | 92\% | 93\% |
| $\begin{aligned} & 1945 \ldots \\ & (8) \end{aligned}$ | 10-14 | \$ 78,218 | \$ 68 | \$ 3 | \$ 76 | 89\% | 93\% |
|  | 15-19 | 124,135 | 144 | 40 | 133 | 108 | 138 |
|  | 20-24 | 170,468 | 123 | 2 | 176 | 70 | 71 |
|  | 25-29 | 295,886 | . 282 | 1 | 399 | 71 | 71 |
|  | 30-34 | 479,272 | 1,077 | 10 | 987 | 109 | 110 |

TABLE B-Contitued

| Issur <br> (Policy <br> Year) | Ages at Issue. | Exposed to Risk | Actual Deaths |  | Expected Deaths | Mortaity Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & \text { Excluding } \\ & \text { War } \\ & \text { Deaths } \end{aligned}$ | War Death |  | Excluding War Deaths | Includ. ing War Deaths |
| $1945 .$ <br> (8) | 35-39 | \$ 542,297 | \$ 1,857 | § 0 | § 1,909 | $97 \%$ | 97\% |
|  | 40-44 | 442,651 | 1,969 | 0 | 2,395 | 82 | 82 |
|  | 45-49 | 273,879 | 2,516 | 0 | 2,388 | 105 | 105 |
|  | 50-54 | 147,914 | 1,657 | 0 | 1,904 | 87 | 87 |
|  | 55-59 | 54,681 | 1,026 | 0 | 1,021 | 100 | 100 |
|  | 60-64 | 14,150 | 389 | 0 | 410 | 95 | 95 |
|  | 65 and over | 2,468 | 59 | 0 | 104 | 57 | 57 |
|  | All Ages | \$2,626,019 | \$11,167 | \$ 56 | \$11,902 | 94\% | 94\% |
| $\begin{aligned} & 1946 \\ & (7) \end{aligned}$ | 10-14 | \$ 81,521 | \$ 81 |  | \$ 72 | 113\% | 121\% |
|  | 15-19 | 145,514 | 131 | 49 | 156 | 84 | 115 |
|  | 20-24 | 427,717 | 352 | 21 | 419 | 84 | 89 |
|  | 25-29 | 655,194 | 596 | 34 | 806 | 74 | 78 |
|  | 30-34 | 773,024 | 1,266 | 15 | 1,399 | 90 | 92 |
|  | 35-39 | 738,666 | 2,034 | 0 | 2,216 | 92 | 92 |
|  | 40-44 | 555,313 | 2,287 | 0 | 2,649 | 86 | 86 |
|  | 45-49 | 316,197 | 2,394 | 0 | 2,349 | 102 | 102 |
|  | 50-54 | 164,583 | 1,489 | 0 | 1,871 | 80 | 80 |
|  | 55-59 | 59,699 | -921 | 0 | 980 | 94 | 94 |
|  | 60-64 | 15,505 | 244 | 0 | 380 | 64 | 64 |
|  | 65 and over | 2,820 | 54 | 0 | 101 | 53 | 53 |
|  | All Ages | \$3,935,753 | \$11,849 | \$125 | \$13,398 | 88\% | 89\% |
| $\begin{aligned} & 1947 . \\ & (6) \end{aligned}$ | 10-14 | \$ 74,668 | \$ 50 | \$ 2 | \$ 61 | 82\% | 85\% |
|  | 15-19 | 162,540 | - 95 | 36 | 172 | 55 | 76 |
|  | 20-24 | 348,397 | 390 | 24 | 341 | 114 | 121 |
|  | 25-29 | 559,640 | 625 | 12 | 655 | 95 | 97 |
|  | 30-34 | 745,738 | 1,226 | 5 | 1,238 | 99 | 99 |
|  | 35-39 | 742,841 | 1,764 | 0 | 2,043 | 86 | 86 |
|  | 40-44 | 586,763 | 2,478 | 0 | 2,623 | 94 | 94 |
|  | 45-49 | 341,434 | 2,231 | 0 | 2,305 | 97 | 97 |
|  | 50-54 | 184,312 | 1,393 | 0 | 1,959 | 71 | 71 |
|  | 55-59 | 68,787 | 928 | 0 | 1,061 | 87 | 87 |
|  | 60-64 | 16,209 | 406 | 0 | 361 | 112 | 112 |
|  | 65 and over | 3,040 | 163 | 0 | 96 | 170 | 170 |
|  | All Ages | \$3,834,369 | \$11,749 | \$ 79 | \$12,915 | 91\% | 92\% |
| $\underset{(5)}{1948 .}$ | 10-14 | \$ 54,827 | \$ 19 |  | \$ $\quad 41$ | 46\% | 49\% |
|  | 15-19 | 131,524 |  | 24 |  | 123 |  |
|  | 20-24 | 330,746 | 345 | 39 | 324 | 106 | 119 |
|  | 25-29 | 561,194 | 488 | 44 | 629 | 78 | 85 |
|  | 30-34 | 708,428 | 860 | 21 | 1,056 | 81 | 83 |
|  | 35-39 | 673,024 | 1,334 | 0 | 1,635 | 82 | 82 |
|  | 40-44 | 541,612 | 1,681 | 0 | 2,145 | 78 | 78 |
|  | 45-49 | 318,767 | 1,379 | 0 | 1,897 | 73 | 73 |
|  | 50-54 | 170,408 | 2,312 | 0 | 1,605 | 144 | 144 |
|  | 55-59 | 63,359 | 831 | , | 882 | 94 | 94 |
|  | 60-64 | 17,628 | 362 | 0 | 351 | 103 | 103 |
|  | 65 and over | 3,153 | 94 | 0 | 87 | 108 | 108 |
|  | All Ages | \$3,574,670 | \$ 9,876 | \$129 | \$10,791 | 92\% | 93\% |
| $\begin{aligned} & 1949 \\ & (4) \end{aligned}$ | 10-14 |  |  |  |  | $97 \%$ | $97 \%$ |
|  | 15-19 | 130,709 | 270 | 59 | 132 | 205 | $249^{\circ}$ |

TABLE B-Continued

| $\begin{gathered} \text { Issue } \\ \text { Year } \\ \text { (Policy } \\ \text { Year) } \end{gathered}$ | $\begin{gathered} \text { Aces at } \\ \text { Isste } \end{gathered}$ | $\begin{aligned} & \text { Exposed } \\ & \text { ro RISK } \end{aligned}$ | Actual deates |  | Expected Deaths | Mortality Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Excluding War Deaths | War <br> Deaths |  | Excluding War Deaths | Includ ing War Deaths |
| $\begin{aligned} & 1949 \\ & (4) \end{aligned}$ | 20-24 | 360,770630,636752,360730,690567,490330,639171,61669,74118,4653,680 | $\$ 378$5481,0551,2121,7841,5851,09666323471 | S 60 | § 345 | $110 \%$ | $\begin{gathered} 127 \% \\ 84 \end{gathered}$ |
|  | 25-29 |  |  | 0 | 656 | 84 |  |
|  | 30-34 |  |  | 18 | 971 | 109 | 111 |
|  | 35-39 |  |  | 0 | 1,513 | 80 | 80 |
|  | 40-44 |  |  | 0 | 1,867 | 96 | 96 |
|  | 45-49 |  |  | 0 | 1,666 | 95 | 95 |
|  | 50-54 |  |  | 0 | 1,328 | 83 | 83 |
|  | 55-59 |  |  | 0 | 810 | 82 | 82 |
|  | 60-64 |  |  | 0 | 312 | 75 | 75 |
|  | 65 and over |  |  | 0 | 86 | 83 | 83 |
|  | 111. Ares | 83, 824,716 | 88,929 | \$1.37 | \$9,720 | 92\% | 93\% |
| $\begin{aligned} & 1950 \\ & (3) \end{aligned}$ | $10.1+$ | 53,018156,932445,737810,345970,522875,049651.797394,580201,66283,66420,8253,569 | 331163416861,1311,3361.5891.8661,28071023046 | 50 | \$ 31 | $106 \%$ | 106\% |
|  | 15-19 |  |  | 66 | 151 | $\%$ | 121 |
|  | $20-2+$ |  |  | 166 | 397 | 86 | 128 |
|  | 25-29 |  |  | 31 | 786 | 85 | 91 |
|  | $30 \quad: 1$ |  |  | 22 | $\therefore \mathrm{BCO}$ | $10 \pm$ | 106 |
|  | 35-39 |  |  | 3 | 1.561 | 86 | 86 |
|  | 40-4t |  |  | 0 | 1.786 | 89 | 89 |
|  | 454 |  |  | 0 | 1.685 | 111 | 111 |
|  | 5054 |  |  | 0 | 1.268 | 101 | 101 |
|  | 5.59 |  |  | 0 | 796 | 89 | 89 |
|  | 60-64 |  |  | 0 | 298 | 73 | 77 |
|  | 65 and over |  |  | 0 | 73 | 63 | 63 |
|  | All Ares | 54,669,700 | S 9,384 | \$288 | \$9,938 | 94\% | 97\% |
| $\begin{aligned} & 1951 \ldots \\ & (2) \end{aligned}$ | 10-14 | \$ 47,092 | 59902444786411,0741,1951,0751,617802200100 | \$ 0 | \$ 24 | 21\% | 21\% |
|  | 15-19 | 109,904 |  | 13 | 92 | 98 | 112 |
|  | 20-24 | 292,834 |  | 115 | 225 | 108 | 160 |
|  | 25-29 | 682,771 |  | 54 | 560 | 85 | 95 |
|  | 30-34 | 901,895 |  | 29 | 821 | 78 | 82 |
|  | 35-39 | 893,520 |  | 30 | 1,242 | 86 | 89 |
|  | $40-44$ | 720,944 |  | 0 | 1,435 | 83 | 83 |
|  | 45-49 | 450,454 |  | 0 | 1,423 | 76 | 76 |
|  | 50-54 | 231,640 |  | 0 | 1.031 | 157 | 157 |
|  | 55-59 | 104,258 |  | 0 | - 713 | 112 | 112 |
|  | 60-64 | 27,161 |  | 0 | 286 | 70 | 70 |
|  | 65 and over | 6,556 |  | 0 | 106 | 94 | 94 |
|  | All Ages | \$4,469,029 | \$ 7,521 | \$241 | \$ 7,958 | 95\% | 98\% |
| $1952 .$ <br> (1) | $10-14$ | \$ 47,558 | \$ 1 | \$ 0 | § 19 | 5\% | 5\% |
|  | 15-19 | 108,519 | 172 | 0 | 76 | 226 | 226 |
|  | 20-24 | 335, 288 | 348 | 34 | 218 | 160 | 175 |
|  | 25-29 | 855,230 | 637 | 25 | 564 | 113 | 117 |
|  | 30-34 | 1,112,638 | 756 | 19 | 745 | 101 | 104 |
|  | 35-39 | 1,074,757 | 862 | 13 | 1,043 | 83 | 84 |
|  | 40-44 | 834, 385 | 910 | 0 | 1,093 | 83 | 83 |
|  | 45-49 | 518,544 | 1,239 | 0 | 1,110 | 112 | 112 |
|  | 50-54 | 249,758 | , 935 | 0 | -714 | 131 | 131 |
|  | 55-59 | 116,873 | 336 | 0 | 545 | 62 | 62 |
|  | 60-64 | 35,577 | 198 | 0 | 264 | 75 | 75 |
|  | 65 and over | 6,929 | 152 | 0 | 79 | 192 | 192 |
|  | All Ages | \$5,296,056 | \$ 6,546 | \$91 | \$ 6,470 | 101\% | 103\% |

TABLE C
Standard Nonmedical Issues of 1938 to 1952 Experience between 1952 and 1953 Anniversaries by Year of Issue AND Age at ISSUE
Expected Deaths on 1946-1949 Select Basic Table
(Amounts Shown in $\$ 1,000$ Units)

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{\begin{tabular}{l}
Issce Yetr \\
Policy IELR!
\end{tabular}} \& \multirow[b]{2}{*}{\[
\begin{aligned}
\& \text { Ages at } \\
\& \text { Issue }
\end{aligned}
\]} \& \multirow[b]{2}{*}{\begin{tabular}{l}
Exposed \\
to Risk
\end{tabular}} \& \multicolumn{2}{|l|}{Actcal Deaths} \& \multirow[b]{2}{*}{\[
\begin{aligned}
\& \text { Expected } \\
\& \text { Deatms* }
\end{aligned}
\]} \& \multicolumn{2}{|l|}{Mortality Ratio*} \\
\hline \& \& \& Excluding War Deaths \& War Deaths \& \& Excluding War Deaths \& Including War Deaths \\
\hline \multirow[t]{10}{*}{\[
\begin{aligned}
\& 1938 \\
\& (15)
\end{aligned}
\]} \& 10-14 \& \multirow[t]{9}{*}{\(\$\)
15,231
33,128
57,776
46,815
33,794
14,847
7,372
2,051
218} \& \multirow[t]{9}{*}{\(\begin{array}{r}\$ \quad 19 \\ 40 \\ 73 \\ 116 \\ 177 \\ 116 \\ 77 \\ 43 \\ \\ \\ \\ \hline\end{array}\)} \& \multirow[t]{9}{*}{\(\begin{array}{ll}\text { S } \& 1 \\ 4 \\ 0 \\ 2 \\ \& 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0\end{array}\)} \& \$ 18 \& 106\% \& 111\% \\
\hline \& 15-19 \& \& \& \& 46 \& 87 \& 96 \\
\hline \& 20-24 \& \& \& \& 108 \& 68 \& 68 \\
\hline \& 25-29 \& \& \& \& 138 \& 84 \& 86 \\
\hline \& 30-34 \& \& \& \& 171 \& 104 \& 104 \\
\hline \& 35-39 \& \& \& \& 122 \& 95 \& 95 \\
\hline \& 40-44 \& \& \& \& 98 \& 79 \& 79 \\
\hline \& 45-49 \& \& \& \& 43 \& 100 \& 100 \\
\hline \& 50 and over \& \& \& \& 7 \& 71 \& 71 \\
\hline \& All Ages \& \$ 211,232 \& \$ 666 \& \$ 7 \& \$ 751 \& 89\% \& 90\% \\
\hline \multirow[t]{9}{*}{\[
\begin{aligned}
\& 1930 \\
\& (14)
\end{aligned}
\]} \& 10-14 \& \multirow[t]{9}{*}{\(\$\)
15,432
36,415
60,304
49,563
34,927
16,113
7,720
2,154
233} \& \multirow[t]{9}{*}{\(\$\)
18
41
88
135
160
90

76
43
8} \& \multirow[t]{9}{*}{$\$ 0$
1
3
1
0
0
0
0
0} \& \$ 18 \& $100 \%$ \& 100\% <br>
\hline \& 15-19 \& \& \& \& 47 \& 87 \& 89 <br>
\hline \& 20-24 \& \& \& \& 98 \& 90 \& 93 <br>
\hline \& 25-29 \& \& \& \& 127 \& 106 \& 107 <br>
\hline \& 30-34 \& \& \& \& 150 \& 107 \& 107 <br>
\hline \& 35-39 \& \& \& \& 112 \& 80 \& 80 <br>
\hline \& 40-44 \& \& \& \& 87 \& 87 \& 87 <br>
\hline \& 45-49 \& \& \& \& 39 \& 110 \& 110 <br>
\hline \& 50 and over \& \& \& \& 6 \& 133 \& 133 <br>

\hline \multirow{10}{*}{$$
\begin{aligned}
& 10.4 \\
& (1,3)
\end{aligned}
$$} \& All Ages \& \$ 222,861 \& \$ 659 \& \$ 5 \& \$ 684 \& 96\% \& 97\% <br>

\hline \& 10-14 \& \multirow[t]{9}{*}{$\$ 16,067$
41,936
71,195
56,600
38,999
17,048
7,825
2,262
211} \& \multirow[t]{9}{*}{$\begin{array}{rr}\$ & 8 \\ 45 \\ & 103 \\ 117 \\ 141 \\ 95 \\ 105 \\ & 37 \\ 2\end{array}$} \& \multirow[t]{9}{*}{$\begin{array}{ll}\$ & 1 \\ 2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0\end{array}$} \& \$ 19 \& 42\% \& 47\% <br>
\hline \& 15-19 \& \& \& \& 51 \& 88 \& 92 <br>
\hline \& 20-24 \& \& \& \& 100 \& 103 \& 103 <br>
\hline \& 25-29 \& \& \& \& 126 \& 93 \& 93 <br>
\hline \& 30-34 \& \& \& \& 147 \& 96 \& 96 <br>
\hline \& 35-39 \& \& \& \& 105 \& 90 \& 90 <br>
\hline \& 40-44 \& \& \& \& 77 \& 136 \& 136 <br>
\hline \& 45-49 \& \& \& \& 36 \& 103 \& 103 <br>
\hline \& 50 and over \& \& \& \& 5 \& 40 \& 40 <br>

\hline \multirow{10}{*}{$$
\begin{aligned}
& 19.41 \\
& (12)
\end{aligned}
$$} \& All Ages \& \$ 252,143 \& \$ 653 \& \$ 3 \& \$ 666 \& 98\% \& 98\% <br>

\hline \& 10-14 \& \multirow[t]{9}{*}{5
15,979
59,651
88,754
65,781
45,311
19,730
8,632
2,040
184} \& \multirow[t]{9}{*}{$\$ \quad 21$
56
102
145
164
127
81
45} \& \multirow[t]{2}{*}{5

0} \& \$ 18 \& 117\% \& 128\% <br>
\hline \& 15-19 \& \& \& \& 69 \& 81 \& 81 <br>
\hline \& 20-24 \& \& \& 0 \& 115 \& 89 \& 89 <br>
\hline \& 25-29 \& \& \& 0 \& 129 \& 112 \& 112 <br>
\hline \& 30-34 \& \& \& 0 \& 151 \& 109 \& 109 <br>
\hline \& 35-39 \& \& \& 0 \& 110 \& 115 \& 115 <br>
\hline \& 40-44 \& \& \& 0 \& 75 \& 108 \& 108 <br>
\hline \& 45-49 \& \& \& 0 \& 30 \& 150 \& 150 <br>
\hline \& 50 and over \& \& \& 0 \& 4 \& 125 \& 125 <br>
\hline \& All Ages \& \$ 306,062 \& \$ 746 \& \$ 2 ! \& \$ 701 \& $106 \%$ \& $107 \%$ <br>

\hline \multirow[t]{6}{*}{$$
\begin{aligned}
& 1942 \\
& (11)
\end{aligned}
$$} \& 10-14 \& \multirow[t]{6}{*}{$\begin{array}{rr}\$ \\ 16,148 \\ 56,388 \\ 62,971 \\ 50,160 \\ & 39,751 \\ & 20,311\end{array}$} \& \multirow[t]{6}{*}{$\$ \quad 16$

51
83
107
127
104} \& \multirow[t]{6}{*}{$\begin{array}{rr}\$ & 3 \\ & 2 \\ 1 \\ & 1 \\ & 0 \\ & 0\end{array}$} \& \$ 18 \& $89 \%$ \& $106 \%$ <br>
\hline \& 15-19 \& \& \& \& 63 \& 81 \& 84 <br>
\hline \& 20-24 \& \& \& \& 75 \& 111 \& 112 <br>
\hline \& 25-29 \& \& \& \& 89 \& 120 \& 121 <br>
\hline \& 30-34 \& \& \& \& 117 \& 109 \& 109 <br>
\hline \& 35-39 \& \& \& \& 102 \& 102 \& 102 <br>
\hline
\end{tabular}

[^0]TABLE C-Continued

| $\begin{gathered} \text { Issue Year } \\ \text { (Poilcy } \\ \text { Year) } \end{gathered}$ | $\begin{gathered} \text { Ages at } \\ \text { Issue } \end{gathered}$ | Exposed To Risk | Actual Deaths |  | Expected <br> Deaths* | Mortality Ratio* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Exclud. ing War Deaths | War Deaths |  | Excluding War Deaths | Includ. ing War Deaths |
| $\begin{aligned} & 1942 \\ & \text { (11) } \end{aligned}$ | 40-44 | \$ 9,280 | \$ 92 | \$ 0 | \$ 72 | $128 \%$ | $128 \%$ |
|  | 45-49 | 2,243 | 27 | 0 | 29 | 93 | 93 |
|  | 50 and over | 238 | 2 | 0 | 6 | 33 | 33 |
|  | All Ages | § 257,490 | \$ 609 | 57 | \$ 571 | 107\% | 108\% |
| $\begin{aligned} & 1943 \\ & (10) \end{aligned}$ | 10-14 | \$ 38,233 | \$ 41 | \$ 11 | \$ 41 | 100\% | 127\% |
|  | 15-19 | 105,498 | 91 | 6 | 115 | 79 | 84 |
|  | 20-24 | 94,532 | 96 | 2 | 105 | 91 | 93 |
|  | 25-29 | 79,813 | 133 | 0 | 126 | 106 | 106 |
|  | 30-34 | 68,400 | 169 | 0 | 173 | 98 | 98 |
|  | 35-39 | 45,977 | 225 | 0 | 201 | 112 | 112 |
|  | $40-4.4$ | 16,717 | 127 | 0 | 113 | 112 | 112 |
|  | 45-49 | 2,627 | 28 | 0 | 29 | 97 | 97 |
|  | 50 and ever | 266 | 3 | 0 | 5 | 60 | 60 |
|  | All Ayes | S 452,063 | $\bigcirc 913$ | \$ 19 | \$ 908 | 101\% | 103\% |
| $\begin{aligned} & 19+4 \\ & 10 ? \end{aligned}$ | 1014 | 3 52,310 | 855 | S 16 | \$ 53 | 104\% | $134 \%$ |
|  | 1519 | 125,46! | 111 | 12 | 135 | 82 | 91 |
|  | 20-24 | 95,144 | 102 | 0 | 101 | 101 | 101 |
|  | 25-29 | 76.499 | 118 | 0 | 111 | 106 | 106 |
|  | 30-34 | 72,504 | 140 | 0 | 164 | 85 | 85 |
|  | 35.39 | 58,004 | 238 | 0 | 227 | 105 | 105 |
|  | 40-44 | 22,010 | 104 | 0 | 133 | 78 | 78 |
|  | 4,-49 | 3,000 | 45 | 0 | 29 | 155 | 155 |
|  | 50 and over | 394 | 6 | 0 | 6 | 100 | 100 |
|  | All Ages | \$ 505,326 | \$ 919 | \$ 28 | \$ 959 | 96\% | $99 \%$ |
| $\begin{aligned} & 1945 . \\ & (8) \end{aligned}$ | 10-14 | \$ 56,287 | \$ 57 | \$ 9 | \$ 55 | 104\% | 120\% |
|  | 15-19 | 125,771 | 108 | 21 | 135 | 80 | 96 |
|  | 20-24 | 103,886 | 86 | 0 | 107 | 80 | 80 |
|  | 25-29 | 93,800 | 87 | 1 | 127 | 69 | 69 |
|  | 30-34 | 79,407 | 155 | 0 | 164 | 95 | 95 |
|  | 35-39 | 62,922 | 200 | 0 | 221 | 90 | 90 |
|  | 40-44 | 23,382 | 148 | 0 | 126 | 117 | 117 |
|  | 45-49 | 3,335 | 29 | 0 | 29 | 100 | 100 |
|  | 50 and over | 450 | 2 | 0 | 7 | 29 | 29 |
|  | All Ages | \$ 549,240 | S 872 | \$ 31 | \$ 971 | 90\% | 93\% |
| $\begin{aligned} & 1946 \\ & (7) \end{aligned}$ | 10-14 | \$ 46,998 | \$ 51 | \$ 5 | \$ 41 | 124\% | 137\% |
|  | 15-19 | 126,816 | 112 | 26 | 136 | 82 | 101 |
|  | 20-24 | 327,300 | 238 | 12 | 321 | 74 | 78 |
|  | 25-29 | 273,875 | 278 | 2 | 337 | 82 | 83 |
|  | 30-34 | 137,075 | 247 | 0 | 248 | 100 | 100 |
|  | 35-39 | 78,047 | 237 | 0 | 234 | 101 | 101 |
|  | 40-44 | 25,158 | 149 | 0 | 120 | 124 | 124 |
|  | 45-49 | 4,218 | 12 | 0 | 31 | 39 | 39 |
|  | 50 and over | 808 | 8 | 0 | 11 | 73 | 73 |
|  | All Ages | \$1,020,295 | \$1,332 | \$ 45 | \$1,479 | 90\% | 93\% |
| $\begin{aligned} & 1947 . \\ & (6) \end{aligned}$ | 10-14 | \$ 49,309 | \$ 37 | \$ 3 | \$ 40 | 93\% | 100\% |
|  | 15-19 | 166,174 | 182 | 50 | 176 | 103 | 132 |
|  | 20-24 | 251,871 | 190 | 0 | 247 | 77 | 77 |
|  | 25-29 | 186,899 | 201 | 0 | 219 | 92 | 92 |
|  | 30-34 | 112,962 | 193 | 3 | 188 | 103 | 104 |
|  | 35-39 | 73,726 | 213 | 0 | 203 | 105 | 105 |
|  | 40-44 | 28,158 | 135 | 0 | 126 | 107 | 107 |

[^1]TABLE C -Continued

| $\begin{gathered} \text { Issue Year } \\ \text { (Policy } \\ \text { Yfir) } \end{gathered}$ | $\begin{aligned} & \text { Ages at } \\ & \text { Issue } \end{aligned}$ | Exposed to Risk | Actcal Deaths |  | Expected De:ths* | Mortaitit Rato** |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Exclud ing War Deaths | $\begin{gathered} \text { War } \\ \text { Deaths } \end{gathered}$ |  | Exclud- <br> ing War <br> Deaths | Includ- <br> ing War <br> Deaths |
| $\begin{aligned} & 1947 \\ & (6) \end{aligned}$ | 45-49 <br> 50 and over | $\$ \quad 5,277$ 1,486 | \$ 41 | $\$ 0$ 0 0 | $\begin{array}{r}\$ \quad 36 \\ \\ \hline\end{array}$ | ${ }_{42}^{114 \%}$ | $\begin{gathered} 114 \% \\ 42 \end{gathered}$ |
|  | All Ages | \$ 875,862 | \$1,200 | \$ 56 | \$1,254 | 96\% | 100\% |
| $\begin{aligned} & 1948 \\ & 5.5) \end{aligned}$ | 10-14 | \$ 44,231 | \$ 60 | § 2 | \$ 33 | 182\% | 188\% |
|  | 15-19 | 148,132 | 131 | 57 | 157 | 83 | 120 |
|  | 20-24 | 229,067 | 186 | 20 | 224 | 83 | 92 |
|  | 25-29 | 165,102 | 158 | 8 | 185 | 85 | 90 |
|  | 30-34 | 93,728 | 135 | 0 | 140 | 96 | 96 |
|  | 35-39 | 60,692 | 93 | 0 | 147 | 63 | 63 |
|  | 40-44 | 25,315 | 111 | 0 | 100 | 111 | 111 |
|  | 45-49 | 5,758 | 14 | 0 | 34 | 41 | 41 |
|  | 50 and over | 2,054 | 16 | 0 | 23 | 70 | 70 |
|  | All Ages | § 774,079 | \$ 904 | \$87 | \$1,043 | 87\% | 95\% |
| $\begin{aligned} & 19.49 \\ & (4) \end{aligned}$ | 10-14 | \$ 47,653 | \$ 37 | \$ 0 | \$ 31 | 119\% |  |
|  | 15-19 | 155,359 | 141 | 46 | 157 |  |  |
|  | 20-24 | 253,961 | 250 | 34 | 239 | 10.5 | 119 |
|  | 25-29 | 190,288 | 132 | 2 | 198 | 67 | 68 |
|  | 30-34 | 113,149 | 162 | 2 | 146 | 111 | 112 |
|  | 35-39 | 68,665 | 109 | 0 | 142 | 77 | 77 |
|  | 40-44 | 27,629 | 108 | 0 | 91 | 119 | 119 |
|  | 45-49 | 5,983 | 48 | 0 | 30 | 160 | 160 |
|  | 50 and over | 1,625 | 9 | 0 | 15 | 60 | 60 |
|  | All Ages | \$ 864,312 | \$ 996 | \$84 | \$1,049 | 95\% | 103\% |
| $\begin{aligned} & 1950 \\ & (3) \end{aligned}$ | 10-14 | \$ 55,409 | \$ 31 | \$ 0 | \$ 33 | $94 \%$ | 94\% |
|  | 15-19 | 202,616 | 228 | 45 | 195 | 117 | 140 |
|  | 20-24 | 320,697 | 353 | 73 | 285 | 124 | 149 |
|  | 25-29 | 255,709 | 214 | 19 | 248 | 86 | 94 |
|  | 30-34 | 156,584 | 190 | 5 | 179 | 106 | 109 |
|  | 35-39 | 82,679 | 150 | 0 | 147 | 102 | 102 |
|  | 40-44 | 32,541 | 77 | 0 | 89 | 87 | 87 |
|  | 45-49 | 6,576 | 35 | 0 | 28 | 125 | 125 |
|  | 50 and over | 1,571 | 6 | 0 | 12 | 50 | 50 |
|  | All Ages | \$1,114,382 | \$1,284 | \$142 | \$1,216 | 106\% | 117\% |
| $1951 .$(2) | 10-14 | \$ 70,672 | \$ 37 | \$ 0 | \$ 35 | 106\% | 106\% |
|  | 15-19 | 267,539 |  |  | 225 | 116 |  |
|  | 20-24 | 413,109 | 285 | 127 | 318 | 90 | 130 |
|  | 25-29 | 428,284 | 218 | 22 | 351 | 62 | 68 |
|  | 30-34 | 288,362 | 204 | 2 | 262 | 78 | 79 |
|  | 35-39 | 142,360 | 176 | 0 | 198 | 89 | 89 |
|  | 40-44 | 49,181 | 121 | ) | 98 | 123 | 123 |
|  | 45-49 | 14,685 | 48 | 0 | 46 | 104 | 104 |
|  | 50 and over | 2,720 | 6 | 0 | 14 | 43 | 43 |
|  | All Ages | \$1,676,912 | \$1,357 | \$156 | \$1,547 | 88\% | 98\% |
| $\begin{aligned} & 1952 \\ & (1) \end{aligned}$ | 10-14 | \$ 82,274 | \$ 32 | \$ 0 | \$ 33 | 97\% | 97\% |
|  | 15-19 | 331.029 | 317 |  | 232 | 137 | 137 |
|  | 20-24 | 520,298 | 420 | 71 | 338 | 124 | 145 |
|  | 25-29 | 587,235 | 350 | 27 | 388 | 90 | 97 |
|  | 30-34 | 380,738 | 282 | 5 | 255 | 111 | 113 |
|  | 35-39 | 173,891 | 168 | 2 | 169 | 99 | 101 |
|  | 40-44 | 55,189 | 73 | 0 | 72 | 101 | 101 |
|  | 45-49 | 14,897 | 38 | 0 | 32 | 119 | 119 |
|  | 50 and over | 3,598 | 11 | 0 | 12 | 92 | 92 |
|  | All Ages | \$2,149,149 | \$1,691 | \$106 | \$1,531 | 110\% | 117\% |


[^0]:    * Not adjusted for distribution of exposures by age within each five year age group at issue.

[^1]:    * Not adjusted for distribution of exposures by age within each five year age group at issue.

