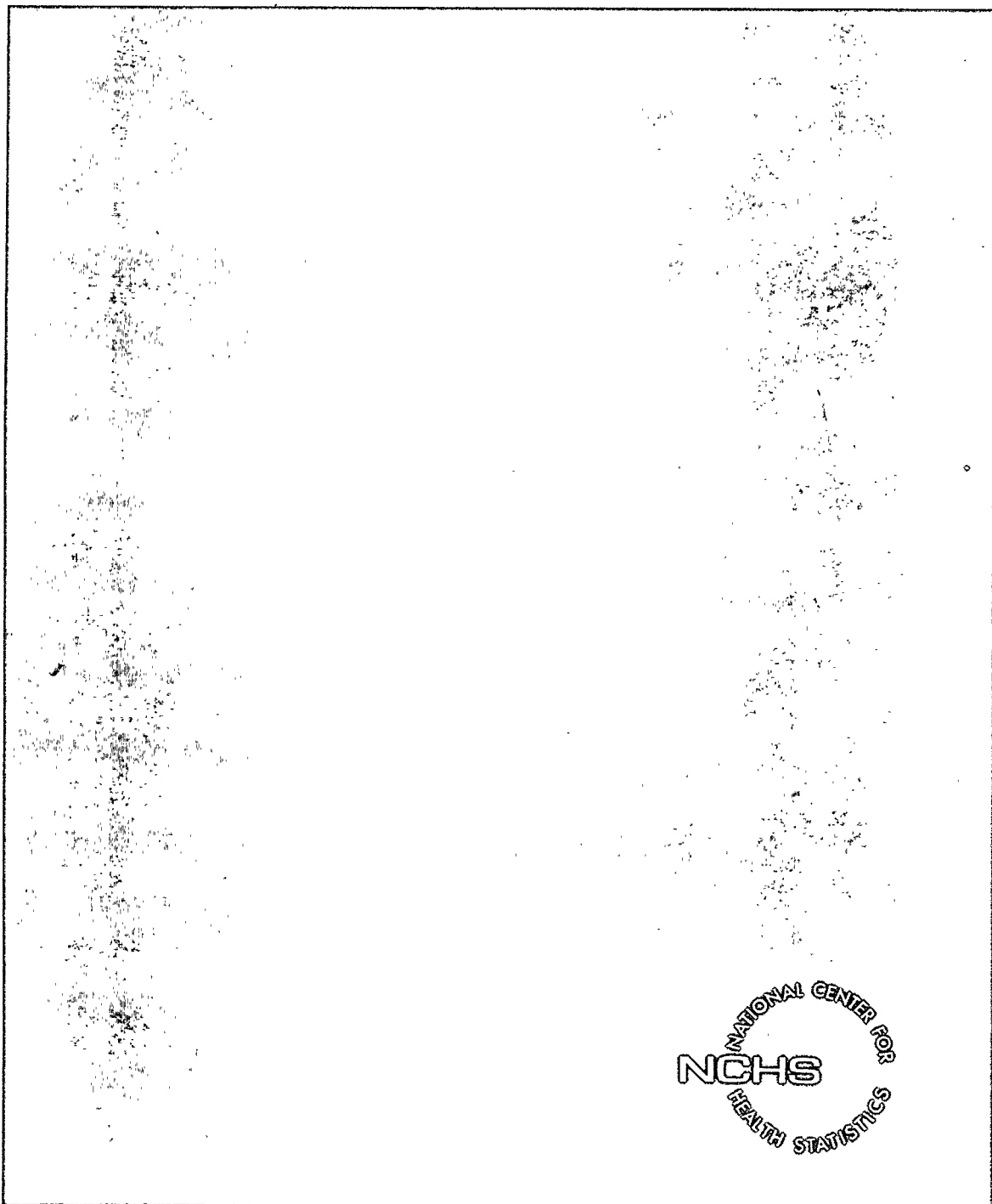


U.S. DECENNIAL LIFE TABLES FOR 1969-71

Volume I, Number 2

**Actuarial Tables Based on
United States Life Tables: 1969-71**



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Volume 1, Number 2

**Actuarial Tables Based on
United States Life Tables: 1969-71**

DHEW Publication No. (HRA) 75-1150

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
Public Health Service
Health Resources Administration
National Center for Health Statistics
Rockville, Maryland 20852
May 1975

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ACTUARIAL TABLES

BASED ON UNITED STATES LIFE TABLES:1969-71

T. N. E. Greville, Ph.D., *Division of Vital Statistics*

This report contains some tables used by actuaries in calculating the present values of life annuities and of survivor benefits payable on the death of an insured individual. Appendix I presents an elementary introduction to the uses of such tables.

The actuarial functions tabulated are based on the 1969-71 life tables for total males, total females, white males, white females, Negro males, and Negro females in the United States. The functions included are the commutation columns

D , N , and M and the whole-life immediate annuity values. These are given for interest rates ranging from 3 to 8 percent at intervals of half of 1 percent.

As the different columns were rounded independently, there may be small discrepancies in the mathematical relationships that should hold among the various columns.

Appendix II contains some information on methods and formulas used in calculating the tables.

TABLE 1. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 3 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,854,074 | 16,871.620 | 27.5407 | 55 | 15,965 | 229,786 | 9,272.700 | 13.3927 |
| 1 | 94,908 | 2,754,074 | 14,692.008 | 28.0184 | 56 | 15,263 | 213,820 | 9,035.051 | 13.0092 |
| 2 | 92,021 | 2,659,167 | 14,569.471 | 27.8974 | 57 | 14,570 | 198,558 | 8,786.704 | 12.6279 |
| 3 | 89,257 | 2,567,146 | 14,485.278 | 27.7614 | 58 | 13,887 | 183,988 | 8,528.304 | 12.2487 |
| 4 | 86,590 | 2,477,889 | 14,418.641 | 27.6163 | 59 | 13,215 | 170,100 | 8,260.472 | 11.8719 |
| 5 | 84,014 | 2,391,299 | 14,364.297 | 27.4632 | 60 | 12,553 | 156,886 | 7,983.637 | 11.4977 |
| 6 | 81,520 | 2,307,285 | 14,317.398 | 27.3033 | 61 | 11,902 | 144,332 | 7,698.552 | 11.1263 |
| 7 | 79,102 | 2,225,765 | 14,274.304 | 27.1378 | 62 | 11,263 | 132,430 | 7,405.931 | 10.7579 |
| 8 | 76,759 | 2,146,663 | 14,234.833 | 26.9663 | 63 | 10,636 | 121,167 | 7,106.455 | 10.3926 |
| 9 | 74,489 | 2,069,904 | 14,200.345 | 26.7881 | 64 | 10,020 | 110,531 | 6,800.922 | 10.0308 |
| 10 | 72,289 | 1,995,415 | 14,170.581 | 26.6031 | 65 | 9,417.0 | 100,511.0 | 6,489.501 | 9.6734 |
| 11 | 70,159 | 1,923,126 | 14,146.019 | 26.4108 | 66 | 8,826.2 | 91,094.0 | 6,172.936 | 9.3209 |
| 12 | 68,092 | 1,852,966 | 14,122.172 | 26.2127 | 67 | 8,248.1 | 82,267.9 | 5,851.928 | 8.9742 |
| 13 | 66,082 | 1,784,874 | 14,094.934 | 26.0102 | 68 | 7,684.1 | 74,019.8 | 5,528.211 | 8.6328 |
| 14 | 64,119 | 1,718,793 | 14,057.250 | 25.8062 | 69 | 7,135.8 | 66,335.7 | 5,203.646 | 8.2962 |
| 15 | 62,199 | 1,654,673 | 14,006.617 | 25.6029 | 70 | 6,604.8 | 59,199.9 | 4,880.577 | 7.9631 |
| 16 | 60,319 | 1,592,474 | 13,936.069 | 25.4010 | 71 | 6,092.3 | 52,595.1 | 4,560.419 | 7.6330 |
| 17 | 58,479 | 1,532,156 | 13,853.182 | 25.2001 | 72 | 5,598.8 | 46,502.8 | 4,244.349 | 7.3058 |
| 18 | 56,681 | 1,473,677 | 13,758.024 | 24.9996 | 73 | 5,123.7 | 40,904.0 | 3,932.283 | 6.9833 |
| 19 | 54,928 | 1,416,996 | 13,656.513 | 24.7972 | 74 | 4,666.4 | 35,780.3 | 3,624.257 | 6.6676 |
| 20 | 53,223 | 1,362,068 | 13,550.761 | 24.5919 | 75 | 4,226.7 | 31,113.9 | 3,320.517 | 6.3612 |
| 21 | 51,563 | 1,308,845 | 13,441.638 | 24.3832 | 76 | 3,805.6 | 26,887.2 | 3,022.452 | 6.0652 |
| 22 | 49,948 | 1,257,282 | 13,328.387 | 24.1717 | 77 | 3,404.5 | 23,081.6 | 2,732.246 | 5.7797 |
| 23 | 48,379 | 1,207,333 | 13,214.382 | 23.9555 | 78 | 3,025.6 | 19,677.1 | 2,452.487 | 5.5035 |
| 24 | 46,860 | 1,158,954 | 13,103.697 | 23.7325 | 79 | 2,671.1 | 16,651.4 | 2,186.103 | 5.2339 |
| 25 | 45,392 | 1,112,094 | 13,000.534 | 23.5000 | 80 | 2,342.0 | 13,980.4 | 1,934.808 | 4.9694 |
| 26 | 43,974 | 1,066,703 | 12,905.013 | 23.2576 | 81 | 2,038.1 | 11,638.3 | 1,699.136 | 4.7103 |
| 27 | 42,605 | 1,022,729 | 12,816.776 | 23.0049 | 82 | 1,758.6 | 9,600.2 | 1,479.008 | 4.4589 |
| 28 | 41,282 | 980,124 | 12,734.605 | 22.7422 | 83 | 1,503.7 | 7,841.6 | 1,275.269 | 4.2150 |
| 29 | 40,000 | 938,842 | 12,655.252 | 22.4710 | 84 | 1,273.5 | 6,337.9 | 1,088.903 | 3.9768 |
| 30 | 38,756 | 898,842 | 12,576.563 | 22.1921 | 85 | 1,067.5 | 5,064.4 | 919.962 | 3.7443 |
| 31 | 37,548 | 860,085 | 12,497.366 | 21.9060 | 86 | 883.69 | 3,996.97 | 767.276 | 3.5230 |
| 32 | 36,375 | 822,537 | 12,417.756 | 21.6126 | 87 | 720.87 | 3,113.28 | 630.193 | 3.3188 |
| 33 | 35,235 | 786,162 | 12,337.450 | 21.3117 | 88 | 578.95 | 2,392.40 | 509.269 | 3.1323 |
| 34 | 34,127 | 750,926 | 12,255.456 | 21.0038 | 89 | 457.94 | 1,813.45 | 405.120 | 2.9600 |
| 35 | 33,050 | 716,799 | 12,171.941 | 20.6886 | 90 | 357.12 | 1,355.52 | 317.640 | 2.7957 |
| 36 | 32,001 | 683,750 | 12,086.028 | 20.3665 | 91 | 274.48 | 998.39 | 245.404 | 2.6374 |
| 37 | 30,979 | 651,749 | 11,996.252 | 20.0383 | 92 | 207.50 | 723.91 | 186.411 | 2.4888 |
| 38 | 29,983 | 620,769 | 11,902.587 | 19.7039 | 93 | 154.10 | 516.41 | 139.056 | 2.3512 |
| 39 | 29,011 | 590,786 | 11,804.072 | 19.3639 | 94 | 112.21 | 362.32 | 101.654 | 2.2290 |
| 40 | 28,063 | 561,775 | 11,700.149 | 19.0187 | 95 | 79.985 | 250.110 | 72.700 | 2.1270 |
| 41 | 27,136 | 533,712 | 11,590.920 | 18.6681 | 96 | 55.928 | 170.126 | 50.973 | 2.0419 |
| 42 | 26,231 | 506,576 | 11,476.492 | 18.3120 | 97 | 38.493 | 114.198 | 35.167 | 1.9667 |
| 43 | 25,346 | 480,345 | 11,355.858 | 17.9511 | 98 | 26.110 | 75.705 | 23.905 | 1.8994 |
| 44 | 24,481 | 454,999 | 11,228.388 | 17.5860 | 99 | 17.472 | 49.595 | 16.027 | 1.8386 |
| 45 | 23,633 | 430,518 | 11,093.260 | 17.2171 | 100 | 11.551 | 32.123 | 10.616 | 1.7809 |
| 46 | 22,801 | 406,885 | 10,950.258 | 16.8448 | 101 | 7.5271 | 20.5716 | 6.9279 | 1.7330 |
| 47 | 21,986 | 384,084 | 10,799.456 | 16.4692 | 102 | 4.8555 | 13.0445 | 4.4756 | 1.6865 |
| 48 | 21,187 | 362,098 | 10,640.705 | 16.0904 | 103 | 3.0951 | 8.1890 | 2.8566 | 1.6458 |
| 49 | 20,403 | 340,910 | 10,473.655 | 15.7088 | 104 | 1.9417 | 5.0939 | 1.7933 | 1.6234 |
| 50 | 19,633 | 320,507 | 10,298.013 | 15.3248 | 105 | 1.2119 | 3.1522 | 1.1201 | 1.6011 |
| 51 | 18,877 | 300,874 | 10,113.534 | 14.9388 | 106 | .74080 | 1.94031 | .68428 | 1.6192 |
| 52 | 18,133 | 281,997 | 9,919.378 | 14.5517 | 107 | .46538 | 1.19951 | .43044 | 1.5775 |
| 53 | 17,400 | 263,864 | 9,715.011 | 14.1643 | 108 | .28752 | .73413 | .26614 | 1.5533 |
| 54 | 16,678 | 246,464 | 9,499.573 | 13.7777 | 109 | .15951 | .44660 | .14650 | 1.7998 |

TABLE 2. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 3.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,563,333 | 13,317.230 | 24.6333 | 55 | 12,232 | 167,962 | 6,552.502 | 12.7309 |
| 1 | 94,449 | 2,463,333 | 11,148.147 | 25.0810 | 56 | 11,638 | 155,729 | 6,371.301 | 12.3817 |
| 2 | 91,134 | 2,368,884 | 11,026.791 | 24.9934 | 57 | 11,056 | 144,092 | 6,182.858 | 12.0335 |
| 3 | 87,969 | 2,277,750 | 10,943.812 | 24.8926 | 58 | 10,487 | 133,036 | 5,987.733 | 11.6864 |
| 4 | 84,929 | 2,189,781 | 10,878.454 | 24.7837 | 59 | 9,930.7 | 122,549.7 | 5,786.464 | 11.3405 |
| 5 | 82,004 | 2,104,852 | 10,825.410 | 24.6677 | 60 | 9,387.8 | 112,619.0 | 5,579.434 | 10.9963 |
| 6 | 79,185 | 2,022,848 | 10,779.854 | 24.5457 | 61 | 8,858.2 | 103,231.2 | 5,367.264 | 10.6538 |
| 7 | 76,466 | 1,943,663 | 10,738.196 | 24.4187 | 62 | 8,341.9 | 94,323.1 | 5,150.537 | 10.3131 |
| 8 | 73,842 | 1,867,197 | 10,700.226 | 24.2863 | 63 | 7,839.1 | 86,031.2 | 4,929.805 | 9.9747 |
| 9 | 71,312 | 1,793,355 | 10,667.208 | 24.1480 | 64 | 7,349.9 | 78,192.1 | 4,705.697 | 9.6386 |
| 10 | 68,872 | 1,722,042 | 10,638.851 | 24.0035 | 65 | 6,874.0 | 70,842.2 | 4,478.374 | 9.3058 |
| 11 | 66,520 | 1,653,170 | 10,615.563 | 23.8523 | 66 | 6,411.6 | 63,968.2 | 4,248.411 | 8.9770 |
| 12 | 64,248 | 1,586,650 | 10,593.062 | 23.6958 | 67 | 5,962.7 | 57,556.6 | 4,016.348 | 8.6528 |
| 13 | 62,050 | 1,522,403 | 10,567.486 | 23.5352 | 68 | 5,528.2 | 51,593.9 | 3,783.457 | 8.3329 |
| 14 | 59,916 | 1,460,353 | 10,532.272 | 23.3733 | 69 | 5,108.9 | 46,065.7 | 3,551.083 | 8.0168 |
| 15 | 57,841 | 1,400,437 | 10,483.327 | 23.2118 | 70 | 4,705.9 | 40,956.9 | 3,320.899 | 7.7033 |
| 16 | 55,822 | 1,342,596 | 10,419.890 | 23.0515 | 71 | 4,319.8 | 36,251.0 | 3,093.890 | 7.3919 |
| 17 | 53,858 | 1,286,774 | 10,343.553 | 22.8921 | 72 | 3,950.7 | 31,931.2 | 2,870.862 | 7.0825 |
| 18 | 51,949 | 1,232,916 | 10,256.338 | 22.7331 | 73 | 3,597.9 | 27,980.5 | 2,651.724 | 6.7769 |
| 19 | 50,100 | 1,180,967 | 10,163.751 | 22.5723 | 74 | 3,261.0 | 24,382.66 | 2,436.467 | 6.4770 |
| 20 | 48,310 | 1,130,867 | 10,067.761 | 22.4087 | 75 | 2,939.5 | 21,121.6 | 2,225.232 | 6.1855 |
| 21 | 46,577 | 1,082,558 | 9,969.190 | 22.2421 | 76 | 2,633.8 | 18,182.1 | 2,018.944 | 5.9034 |
| 22 | 44,901 | 1,035,980 | 9,867.384 | 22.0728 | 77 | 2,344.9 | 15,548.3 | 1,819.066 | 5.6308 |
| 23 | 43,280 | 991,080 | 9,765.395 | 21.8992 | 78 | 2,073.8 | 13,203.5 | 1,627.314 | 5.3668 |
| 24 | 41,718 | 947,799 | 9,666.854 | 21.7192 | 79 | 1,822.0 | 11,129.7 | 1,445.611 | 5.1086 |
| 25 | 40,216 | 906,081 | 9,575.455 | 21.5304 | 80 | 1,589.8 | 9,307.7 | 1,275.029 | 4.8547 |
| 26 | 38,772 | 865,866 | 9,491.234 | 21.3324 | 81 | 1,376.8 | 7,717.9 | 1,115.824 | 4.6056 |
| 27 | 37,383 | 827,094 | 9,413.812 | 21.1248 | 82 | 1,182.3 | 6,341.1 | 967.839 | 4.3635 |
| 28 | 36,047 | 789,711 | 9,342.061 | 20.9077 | 83 | 1,006.0 | 5,158.8 | 831.533 | 4.1281 |
| 29 | 34,759 | 753,663 | 9,273.105 | 20.6823 | 84 | 847.89 | 4,152.83 | 707.452 | 3.8979 |
| 30 | 33,516 | 718,904 | 9,205.056 | 20.4497 | 85 | 707.28 | 3,304.94 | 595.517 | 3.6728 |
| 31 | 32,314 | 685,388 | 9,136.898 | 20.2101 | 86 | 582.68 | 2,597.66 | 494.839 | 3.4581 |
| 32 | 31,153 | 653,074 | 9,068.717 | 19.9632 | 87 | 473.03 | 2,014.98 | 404.887 | 3.2598 |
| 33 | 30,031 | 621,921 | 9,000.271 | 19.7090 | 88 | 378.06 | 1,541.95 | 325.922 | 3.0785 |
| 34 | 28,946 | 591,889 | 8,930.724 | 19.4478 | 89 | 297.60 | 1,163.89 | 258.239 | 2.9110 |
| 35 | 27,897 | 562,943 | 8,860.230 | 19.1794 | 90 | 230.96 | 866.29 | 201.664 | 2.7509 |
| 36 | 26,881 | 535,046 | 8,788.061 | 18.9039 | 91 | 176.66 | 635.33 | 155.173 | 2.5964 |
| 37 | 25,897 | 508,165 | 8,713.013 | 18.6223 | 92 | 132.90 | 458.68 | 117.388 | 2.4513 |
| 38 | 24,944 | 482,267 | 8,635.091 | 18.3343 | 93 | 98.221 | 325.776 | 87.204 | 2.3168 |
| 39 | 24,019 | 457,324 | 8,553.530 | 18.0404 | 94 | 71.175 | 227.556 | 63.479 | 2.1971 |
| 40 | 23,121 | 433,305 | 8,467.908 | 17.7410 | 95 | 50.491 | 156.381 | 45.202 | 2.0972 |
| 41 | 22,249 | 410,184 | 8,378.349 | 17.4358 | 96 | 35.134 | 105.890 | 31.553 | 2.0139 |
| 42 | 21,404 | 387,935 | 8,284.980 | 17.1248 | 97 | 24.064 | 70.756 | 21.672 | 1.9403 |
| 43 | 20,582 | 366,531 | 8,187.024 | 16.8085 | 98 | 16.245 | 46.692 | 14.666 | 1.8743 |
| 44 | 19,783 | 345,950 | 8,084.016 | 16.4874 | 99 | 10.817 | 30.447 | 9.788 | 1.8147 |
| 45 | 19,005 | 326,167 | 7,975.347 | 16.1620 | 100 | 7.1173 | 19.6299 | 6.4535 | 1.7580 |
| 46 | 18,248 | 307,162 | 7,860.901 | 15.8326 | 101 | 4.6154 | 12.5126 | 4.1923 | 1.7110 |
| 47 | 17,511 | 288,914 | 7,740.797 | 15.4991 | 102 | 2.9629 | 7.8972 | 2.6959 | 1.6653 |
| 48 | 16,793 | 271,403 | 7,614.972 | 15.1618 | 103 | 1.8796 | 4.9343 | 1.7127 | 1.6252 |
| 49 | 16,093 | 254,610 | 7,483.209 | 14.8210 | 104 | 1.1734 | 3.0547 | 1.0701 | 1.6032 |
| 50 | 15,411 | 238,517 | 7,345.338 | 14.4769 | 105 | .72883 | 1.88127 | .66521 | 1.5812 |
| 51 | 14,746 | 223,106 | 7,201.230 | 14.1300 | 106 | .44337 | 1.15244 | .40440 | 1.5592 |
| 52 | 14,096 | 208,360 | 7,050.296 | 13.7812 | 107 | .27718 | .70906 | .25321 | 1.5381 |
| 53 | 13,461 | 194,264 | 6,892.191 | 13.4311 | 108 | .17042 | .43187 | .15582 | 1.5341 |
| 54 | 12,840 | 180,802 | 6,726.326 | 13.0807 | 109 | .09409 | .26145 | .08525 | 1.7786 |

TABLE 3. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 4 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,321,024 | 10,729.855 | 22.2102 | 55 | 9,384.2 | 123,135.4 | 4,648.194 | 12.1216 |
| 1 | 93,995 | 2,221,024 | 8,571.201 | 22.6291 | 56 | 8,884.9 | 113,751.3 | 4,509.852 | 11.8028 |
| 2 | 90,260 | 2,127,029 | 8,451.009 | 22.5656 | 57 | 8,400.0 | 104,866.4 | 4,366.673 | 11.4841 |
| 3 | 86,706 | 2,035,769 | 8,369.221 | 22.4904 | 58 | 7,929.4 | 96,466.4 | 4,219.130 | 11.1657 |
| 4 | 83,308 | 1,950,062 | 8,305.111 | 22.4080 | 59 | 7,472.9 | 88,537.0 | 4,067.672 | 10.8477 |
| 5 | 80,052 | 1,866,755 | 8,253.329 | 22.3194 | 60 | 7,030.5 | 81,064.1 | 3,912.629 | 10.5304 |
| 6 | 76,928 | 1,786,703 | 8,209.072 | 22.2255 | 61 | 6,601.9 | 74,033.6 | 3,754.499 | 10.2139 |
| 7 | 73,929 | 1,709,775 | 8,168.796 | 22.1271 | 62 | 6,187.3 | 67,431.6 | 3,593.751 | 9.8984 |
| 8 | 71,049 | 1,635,845 | 8,132.261 | 22.0241 | 63 | 5,786.4 | 61,244.4 | 3,430.819 | 9.5842 |
| 9 | 68,285 | 1,564,796 | 8,100.645 | 21.9156 | 64 | 5,399.2 | 55,458.0 | 3,266.190 | 9.2715 |
| 10 | 65,632 | 1,496,511 | 8,073.622 | 21.8016 | 65 | 5,025.3 | 50,058.8 | 3,100.002 | 8.9613 |
| 11 | 63,085 | 1,430,879 | 8,051.537 | 21.6816 | 66 | 4,664.7 | 45,033.5 | 2,932.693 | 8.6540 |
| 12 | 60,638 | 1,367,794 | 8,030.300 | 21.5568 | 67 | 4,317.3 | 40,368.7 | 2,764.667 | 8.3504 |
| 13 | 58,282 | 1,307,156 | 8,006.277 | 21.4283 | 68 | 3,983.4 | 36,051.4 | 2,596.852 | 8.0503 |
| 14 | 56,007 | 1,248,875 | 7,973.361 | 21.2985 | 69 | 3,663.6 | 32,068.0 | 2,430.216 | 7.7531 |
| 15 | 53,807 | 1,192,868 | 7,927.830 | 21.1692 | 70 | 3,358.4 | 28,404.4 | 2,265.942 | 7.4577 |
| 16 | 51,679 | 1,139,060 | 7,869.100 | 21.0410 | 71 | 3,068.0 | 25,045.9 | 2,104.715 | 7.1636 |
| 17 | 49,621 | 1,087,381 | 7,798.767 | 20.9137 | 72 | 2,792.4 | 21,979.9 | 1,947.075 | 6.8707 |
| 18 | 47,633 | 1,037,760 | 7,718.800 | 20.7867 | 73 | 2,530.8 | 19,185.5 | 1,792.930 | 6.5807 |
| 19 | 45,716 | 990,127 | 7,634.313 | 20.6582 | 74 | 2,282.8 | 16,654.7 | 1,642.243 | 6.2957 |
| 20 | 43,871 | 944,411 | 7,547.143 | 20.5272 | 75 | 2,047.8 | 14,371.9 | 1,495.083 | 6.0180 |
| 21 | 42,094 | 900,541 | 7,458.060 | 20.3934 | 76 | 1,826.1 | 12,324.0 | 1,352.059 | 5.7490 |
| 22 | 40,384 | 858,446 | 7,366.496 | 20.2573 | 77 | 1,617.9 | 10,498.0 | 1,214.146 | 5.4886 |
| 23 | 38,739 | 818,063 | 7,275.207 | 20.1172 | 78 | 1,424.0 | 8,880.1 | 1,082.476 | 5.2359 |
| 24 | 37,161 | 779,324 | 7,187.430 | 19.9713 | 79 | 1,245.1 | 7,456.1 | 958.307 | 4.9884 |
| 25 | 35,651 | 742,162 | 7,106.405 | 19.8174 | 80 | 1,081.2 | 6,211.0 | 842.297 | 4.7446 |
| 26 | 34,206 | 706,511 | 7,032.103 | 19.6548 | 81 | 931.85 | 5,129.80 | 734.545 | 4.5050 |
| 27 | 32,822 | 672,305 | 6,964.127 | 19.4834 | 82 | 796.33 | 4,197.95 | 634.869 | 4.2716 |
| 28 | 31,497 | 639,483 | 6,901.433 | 19.3030 | 83 | 674.33 | 3,401.62 | 543.500 | 4.0444 |
| 29 | 30,226 | 607,986 | 6,841.471 | 19.1150 | 84 | 565.62 | 2,727.29 | 460.726 | 3.8218 |
| 30 | 29,004 | 577,761 | 6,782.582 | 18.9199 | 85 | 469.55 | 2,161.67 | 386.413 | 3.6037 |
| 31 | 27,830 | 548,757 | 6,723.883 | 18.7182 | 86 | 384.98 | 1,692.11 | 319.896 | 3.3954 |
| 32 | 26,701 | 520,927 | 6,665.446 | 18.5096 | 87 | 311.03 | 1,307.14 | 260.751 | 3.2027 |
| 33 | 25,616 | 494,226 | 6,607.064 | 18.2938 | 88 | 247.39 | 996.11 | 209.079 | 3.0265 |
| 34 | 24,571 | 468,610 | 6,548.029 | 18.0713 | 89 | 193.80 | 748.72 | 165.003 | 2.8634 |
| 35 | 23,567 | 444,038 | 6,488.476 | 17.8416 | 90 | 149.68 | 554.92 | 128.337 | 2.7074 |
| 36 | 22,600 | 420,472 | 6,427.802 | 17.6051 | 91 | 113.94 | 405.24 | 98.352 | 2.5567 |
| 37 | 21,668 | 397,872 | 6,365.011 | 17.3624 | 92 | 85.304 | 291.302 | 74.100 | 2.4149 |
| 38 | 20,770 | 376,204 | 6,300.129 | 17.1133 | 93 | 62.742 | 205.998 | 54.819 | 2.2833 |
| 39 | 19,903 | 355,435 | 6,232.543 | 16.8582 | 94 | 45.246 | 143.257 | 39.737 | 2.1661 |
| 40 | 19,067 | 335,531 | 6,161.933 | 16.5975 | 95 | 31.943 | 98.010 | 28.173 | 2.0683 |
| 41 | 18,260 | 316,464 | 6,088.431 | 16.3309 | 96 | 22.121 | 66.067 | 19.580 | 1.9866 |
| 42 | 17,482 | 298,204 | 6,012.171 | 16.0582 | 97 | 15.078 | 43.946 | 13.388 | 1.9145 |
| 43 | 16,730 | 280,723 | 5,932.549 | 15.7800 | 98 | 10.130 | 28.868 | 9.019 | 1.8499 |
| 44 | 16,003 | 263,993 | 5,849.223 | 15.4967 | 99 | 6.7130 | 18.7383 | 5.9923 | 1.7913 |
| 45 | 15,300 | 247,990 | 5,761.741 | 15.2087 | 100 | 4.3956 | 12.0253 | 3.9331 | 1.7358 |
| 46 | 14,620 | 232,691 | 5,670.051 | 14.9162 | 101 | 2.8367 | 7.6297 | 2.5433 | 1.6896 |
| 47 | 13,962 | 218,071 | 5,574.290 | 14.6193 | 102 | 1.8123 | 4.7930 | 1.6280 | 1.6447 |
| 48 | 13,325 | 204,109 | 5,474.450 | 14.3180 | 103 | 1.1441 | 2.9807 | 1.0295 | 1.6052 |
| 49 | 12,708 | 190,784 | 5,370.402 | 14.0126 | 104 | .71085 | 1.83652 | .64022 | 1.5835 |
| 50 | 12,111 | 178,076 | 5,262.053 | 13.7035 | 105 | .43940 | 1.12567 | .39610 | 1.5618 |
| 51 | 11,533 | 165,965 | 5,149.348 | 13.3909 | 106 | .26602 | .68626 | .23962 | 1.5498 |
| 52 | 10,972 | 154,432 | 5,031.870 | 13.0757 | 107 | .16551 | .42024 | .14934 | 1.5391 |
| 53 | 10,427 | 143,461 | 4,909.404 | 12.7584 | 108 | .10127 | .25473 | .09147 | 1.5353 |
| 54 | 9,898.2 | 133,033.7 | 4,781.545 | 12.4402 | 109 | .05564 | .15346 | .04974 | 1.5379 |

TABLE 4. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 4.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 2,117,185 | 8,829.334 | 20.1719 | 55 | 7,208.3 | 90,532.5 | 3,309.786 | 11.5595 |
| 1 | 93,545 | 2,017,185 | 6,681.008 | 20.5637 | 56 | 6,792.2 | 83,324.2 | 3,204.029 | 11.2677 |
| 2 | 89,398 | 1,923,640 | 6,561.963 | 20.5177 | 57 | 6,390.7 | 76,532.0 | 3,095.098 | 10.9755 |
| 3 | 85,468 | 1,834,242 | 6,481.344 | 20.4612 | 58 | 6,003.8 | 70,141.3 | 2,983.384 | 10.6828 |
| 4 | 81,725 | 1,748,774 | 6,418.452 | 20.3984 | 59 | 5,631.2 | 64,137.4 | 2,869.255 | 10.3898 |
| 5 | 78,155 | 1,667,050 | 6,367.898 | 20.3301 | 60 | 5,272.4 | 58,506.3 | 2,752.983 | 10.0967 |
| 6 | 74,746 | 1,588,895 | 6,324.895 | 20.2572 | 61 | 4,927.3 | 53,233.9 | 2,634.963 | 9.8038 |
| 7 | 71,489 | 1,514,149 | 6,285.949 | 20.1803 | 62 | 4,595.8 | 48,306.6 | 2,515.564 | 9.5111 |
| 8 | 68,375 | 1,442,660 | 6,250.790 | 20.0993 | 63 | 4,277.4 | 43,710.8 | 2,395.121 | 9.2190 |
| 9 | 65,400 | 1,374,285 | 6,220.509 | 20.0135 | 64 | 3,972.1 | 39,433.4 | 2,274.006 | 8.9276 |
| 10 | 62,558 | 1,308,885 | 6,194.752 | 19.9227 | 65 | 3,679.4 | 35,461.3 | 2,152.329 | 8.6379 |
| 11 | 59,843 | 1,246,327 | 6,173.802 | 19.8265 | 66 | 3,399.0 | 31,781.9 | 2,030.417 | 8.3503 |
| 12 | 57,246 | 1,186,483 | 6,153.753 | 19.7259 | 67 | 3,130.8 | 28,382.9 | 1,908.570 | 8.0657 |
| 13 | 54,759 | 1,129,237 | 6,131.182 | 19.6221 | 68 | 2,874.9 | 25,252.1 | 1,787.457 | 7.7837 |
| 14 | 52,370 | 1,074,478 | 6,100.404 | 19.5171 | 69 | 2,631.4 | 22,377.3 | 1,667.770 | 7.5040 |
| 15 | 50,072 | 1,022,109 | 6,058.033 | 19.4127 | 70 | 2,400.6 | 19,745.9 | 1,550.345 | 7.2252 |
| 16 | 47,862 | 972,036 | 6,003.641 | 19.3093 | 71 | 2,182.6 | 17,345.2 | 1,435.649 | 6.9471 |
| 17 | 45,736 | 924,175 | 5,938.816 | 19.2068 | 72 | 1,977.0 | 15,162.7 | 1,324.042 | 6.6696 |
| 18 | 43,693 | 878,439 | 5,865.462 | 19.1048 | 73 | 1,783.2 | 13,185.7 | 1,215.430 | 6.3942 |
| 19 | 41,734 | 834,746 | 5,788.334 | 19.0014 | 74 | 1,600.8 | 11,402.4 | 1,109.764 | 6.1231 |
| 20 | 39,858 | 793,012 | 5,709.138 | 18.8959 | 75 | 1,429.1 | 9,801.7 | 1,007.064 | 5.8584 |
| 21 | 38,061 | 753,154 | 5,628.590 | 18.7880 | 76 | 1,268.3 | 8,372.5 | 907.729 | 5.6015 |
| 22 | 36,340 | 715,093 | 5,546.195 | 18.6780 | 77 | 1,118.3 | 7,104.3 | 812.401 | 5.3526 |
| 23 | 34,693 | 678,753 | 5,464.441 | 18.5645 | 78 | 979.59 | 5,985.93 | 721.825 | 5.1106 |
| 24 | 33,121 | 644,060 | 5,386.208 | 18.4458 | 79 | 852.40 | 5,006.33 | 636.816 | 4.8732 |
| 25 | 31,623 | 610,939 | 5,314.338 | 18.3196 | 80 | 736.65 | 4,153.93 | 557.774 | 4.6389 |
| 26 | 30,195 | 579,316 | 5,248.747 | 18.1856 | 81 | 631.87 | 3,417.28 | 484.710 | 4.4082 |
| 27 | 28,835 | 549,121 | 5,189.027 | 18.0433 | 82 | 537.39 | 2,785.42 | 417.445 | 4.1832 |
| 28 | 27,539 | 520,286 | 5,134.212 | 17.8928 | 83 | 452.89 | 2,248.03 | 356.081 | 3.9638 |
| 29 | 26,301 | 492,747 | 5,082.036 | 17.7351 | 84 | 378.06 | 1,795.14 | 300.755 | 3.7483 |
| 30 | 25,117 | 466,446 | 5,031.039 | 17.5708 | 85 | 312.35 | 1,417.08 | 251.323 | 3.5369 |
| 31 | 23,985 | 441,329 | 4,980.453 | 17.4002 | 86 | 254.86 | 1,104.74 | 207.287 | 3.3347 |
| 32 | 22,902 | 417,344 | 4,930.327 | 17.2230 | 87 | 204.92 | 849.88 | 168.320 | 3.1474 |
| 33 | 21,866 | 394,442 | 4,880.491 | 17.0390 | 88 | 162.21 | 644.96 | 134.439 | 2.9760 |
| 34 | 20,874 | 372,576 | 4,830.339 | 16.8486 | 89 | 126.47 | 482.75 | 105.677 | 2.8172 |
| 35 | 19,925 | 351,701 | 4,779.980 | 16.6512 | 90 | 97.207 | 356.281 | 81.865 | 2.6652 |
| 36 | 19,016 | 331,776 | 4,728.937 | 16.4473 | 91 | 73.641 | 259.074 | 62.485 | 2.5181 |
| 37 | 18,145 | 312,760 | 4,676.355 | 16.2372 | 92 | 54.870 | 185.433 | 46.885 | 2.3795 |
| 38 | 17,309 | 294,616 | 4,622.283 | 16.0209 | 93 | 40.164 | 130.563 | 34.542 | 2.2507 |
| 39 | 16,508 | 277,307 | 4,566.228 | 15.7987 | 94 | 28.826 | 90.398 | 24.933 | 2.1360 |
| 40 | 15,739 | 260,799 | 4,507.944 | 15.5707 | 95 | 20.253 | 61.572 | 17.602 | 2.0401 |
| 41 | 15,000 | 245,061 | 4,447.567 | 15.3369 | 96 | 13.959 | 41.319 | 12.179 | 1.9601 |
| 42 | 14,292 | 230,060 | 4,385.217 | 15.0970 | 97 | 9.4691 | 27.3602 | 8.2909 | 1.8894 |
| 43 | 13,612 | 215,768 | 4,320.433 | 14.8515 | 98 | 6.3309 | 17.8911 | 5.5605 | 1.8260 |
| 44 | 12,958 | 202,156 | 4,252.960 | 14.6006 | 99 | 4.1755 | 11.5603 | 3.6777 | 1.7686 |
| 45 | 12,330 | 189,198 | 4,182.460 | 14.3448 | 100 | 2.7210 | 7.3848 | 2.4030 | 1.7140 |
| 46 | 11,725 | 176,868 | 4,108.927 | 14.0844 | 101 | 1.7476 | 4.6638 | 1.5468 | 1.6687 |
| 47 | 11,144 | 165,143 | 4,032.489 | 13.8191 | 102 | 1.1112 | 2.9162 | .9856 | 1.6245 |
| 48 | 10,585 | 153,999 | 3,953.180 | 13.5492 | 103 | .69812 | 1.80507 | .62030 | 1.5856 |
| 49 | 10,047 | 143,414 | 3,870.923 | 13.2748 | 104 | .43167 | 1.10694 | .38400 | 1.5643 |
| 50 | 9,528.8 | 133,367.6 | 3,785.676 | 12.9963 | 105 | .26555 | .67527 | .23647 | 1.5429 |
| 51 | 9,030.2 | 123,838.8 | 3,697.427 | 12.7139 | 106 | .16000 | .40972 | .14235 | 1.5607 |
| 52 | 8,549.8 | 114,808.6 | 3,605.880 | 12.4282 | 107 | .09907 | .24972 | .08831 | 1.5206 |
| 53 | 8,086.6 | 106,258.8 | 3,510.903 | 12.1400 | 108 | .06033 | .15064 | .05384 | 1.4970 |
| 54 | 7,639.7 | 98,172.2 | 3,412.218 | 11.8502 | 109 | .03299 | .09031 | .02910 | 1.47377 |

TABLE 5. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,944,179 | 7,420.045 | 18.4418 | 55 | 5,543.9 | 66,747.9 | 2,365.465 | 11.0398 |
| 1 | 93,100 | 1,844,179 | 5,281.950 | 18.8086 | 56 | 5,199.0 | 61,244.0 | 2,284.514 | 10.7723 |
| 2 | 88,549 | 1,751,079 | 5,164.036 | 18.7753 | 57 | 4,868.4 | 56,005.0 | 2,201.531 | 10.5037 |
| 3 | 84,253 | 1,662,530 | 5,084.563 | 18.7327 | 58 | 4,551.9 | 51,136.5 | 2,116.833 | 10.2341 |
| 4 | 80,179 | 1,578,278 | 5,022.860 | 18.6844 | 59 | 4,249.0 | 46,584.6 | 2,030.716 | 9.9636 |
| 5 | 76,312 | 1,498,099 | 4,973.498 | 18.6314 | 60 | 3,959.4 | 42,335.6 | 1,943.399 | 9.6925 |
| 6 | 72,636 | 1,421,787 | 4,931.710 | 18.5742 | 61 | 3,682.6 | 38,376.2 | 1,855.193 | 9.4209 |
| 7 | 69,139 | 1,349,151 | 4,894.044 | 18.5135 | 62 | 3,418.5 | 34,653.6 | 1,766.380 | 9.1489 |
| 8 | 65,813 | 1,280,012 | 4,860.202 | 18.4492 | 63 | 3,166.5 | 31,275.1 | 1,677.218 | 8.8768 |
| 9 | 62,650 | 1,214,199 | 4,831.194 | 18.3806 | 64 | 2,926.5 | 28,108.6 | 1,587.985 | 8.6049 |
| 10 | 59,642 | 1,151,549 | 4,806.638 | 18.3076 | 65 | 2,697.9 | 25,182.1 | 1,498.765 | 8.3339 |
| 11 | 56,782 | 1,091,906 | 4,786.759 | 18.2297 | 66 | 2,480.5 | 22,484.2 | 1,409.798 | 8.0645 |
| 12 | 54,059 | 1,035,124 | 4,767.826 | 18.1479 | 67 | 2,273.9 | 20,003.7 | 1,321.302 | 7.7973 |
| 13 | 51,464 | 981,065 | 4,746.613 | 18.0631 | 68 | 2,078.0 | 17,729.9 | 1,233.758 | 7.5320 |
| 14 | 48,985 | 929,601 | 4,717.824 | 17.9774 | 69 | 1,893.0 | 15,651.8 | 1,147.657 | 7.2683 |
| 15 | 46,612 | 880,616 | 4,678.381 | 17.8923 | 70 | 1,718.8 | 13,758.9 | 1,063.585 | 7.0051 |
| 16 | 44,342 | 834,004 | 4,627.989 | 17.8082 | 71 | 1,555.2 | 12,040.1 | 981.858 | 6.7418 |
| 17 | 42,171 | 789,661 | 4,568.216 | 17.7252 | 72 | 1,402.0 | 10,484.9 | 902.711 | 6.4786 |
| 18 | 40,096 | 747,490 | 4,500.902 | 17.6427 | 73 | 1,258.6 | 9,082.9 | 826.055 | 6.2168 |
| 19 | 38,116 | 707,394 | 4,430.461 | 17.5590 | 74 | 1,124.4 | 7,824.3 | 751.833 | 5.9585 |
| 20 | 36,229 | 669,278 | 4,358.475 | 17.4736 | 75 | 999.08 | 6,659.91 | 680.038 | 5.7061 |
| 21 | 34,431 | 633,050 | 4,285.610 | 17.3861 | 76 | 882.39 | 5,700.83 | 610.926 | 5.4606 |
| 22 | 32,717 | 598,619 | 4,211.428 | 17.2968 | 77 | 774.37 | 4,818.43 | 544.918 | 5.2224 |
| 23 | 31,086 | 565,902 | 4,138.175 | 17.2045 | 78 | 675.07 | 4,044.07 | 482.498 | 4.9906 |
| 24 | 29,536 | 534,816 | 4,068.410 | 17.1074 | 79 | 584.62 | 3,369.00 | 424.194 | 4.7627 |
| 25 | 28,066 | 505,280 | 4,004.624 | 17.0035 | 80 | 502.83 | 2,784.37 | 370.241 | 4.5374 |
| 26 | 26,671 | 477,214 | 3,946.689 | 16.8925 | 81 | 429.25 | 2,281.54 | 320.606 | 4.3152 |
| 27 | 25,349 | 450,543 | 3,894.190 | 16.7739 | 82 | 363.33 | 1,852.29 | 275.128 | 4.0981 |
| 28 | 24,094 | 425,195 | 3,846.233 | 16.6476 | 83 | 304.74 | 1,488.96 | 233.837 | 3.8860 |
| 29 | 22,901 | 401,101 | 3,800.802 | 16.5147 | 84 | 253.18 | 1,184.22 | 196.786 | 3.6774 |
| 30 | 21,766 | 378,200 | 3,756.609 | 16.3756 | 85 | 208.18 | 931.04 | 163.840 | 3.4724 |
| 31 | 20,686 | 356,434 | 3,712.978 | 16.2307 | 86 | 169.05 | 722.87 | 134.631 | 3.2760 |
| 32 | 19,658 | 335,748 | 3,669.955 | 16.0795 | 87 | 135.28 | 553.81 | 108.906 | 3.0939 |
| 33 | 18,679 | 316,090 | 3,627.382 | 15.9220 | 88 | 106.58 | 418.54 | 86.646 | 2.9271 |
| 34 | 17,747 | 297,411 | 3,584.743 | 15.7582 | 89 | 82.694 | 311.960 | 67.839 | 2.7725 |
| 35 | 16,859 | 279,664 | 3,542.139 | 15.5879 | 90 | 63.260 | 229.266 | 52.343 | 2.6242 |
| 36 | 16,014 | 262,804 | 3,499.148 | 15.4113 | 91 | 47.696 | 166.006 | 39.790 | 2.4805 |
| 37 | 15,207 | 246,790 | 3,455.079 | 15.2287 | 92 | 35.369 | 118.311 | 29.735 | 2.3451 |
| 38 | 14,438 | 231,583 | 3,409.977 | 15.0401 | 93 | 25.766 | 82.942 | 21.817 | 2.2190 |
| 39 | 13,704 | 217,146 | 3,363.442 | 14.8458 | 94 | 18.404 | 57.176 | 15.682 | 2.1066 |
| 40 | 13,003 | 203,442 | 3,315.289 | 14.6458 | 95 | 12.869 | 38.771 | 11.023 | 2.0127 |
| 41 | 12,334 | 190,439 | 3,265.641 | 14.4400 | 96 | 8.8274 | 25.9017 | 7.5939 | 1.9343 |
| 42 | 11,696 | 178,105 | 3,214.620 | 14.2281 | 97 | 5.9597 | 17.0744 | 5.1467 | 1.8650 |
| 43 | 11,086 | 166,409 | 3,161.857 | 14.0106 | 98 | 3.9656 | 11.1146 | 3.4363 | 1.8028 |
| 44 | 10,503 | 155,323 | 3,107.166 | 13.7877 | 99 | 2.6030 | 7.1490 | 2.2626 | 1.7464 |
| 45 | 9,946.5 | 144,819.4 | 3,050.294 | 13.5599 | 100 | 1.6882 | 4.5460 | 1.4717 | 1.6928 |
| 46 | 9,413.8 | 134,873.0 | 2,991.253 | 13.3272 | 101 | 1.0791 | 2.8578 | .9430 | 1.6483 |
| 47 | 8,904.4 | 125,459.2 | 2,930.179 | 13.0895 | 102 | .68285 | 1.77871 | .59815 | 1.6048 |
| 48 | 8,417.3 | 116,554.8 | 2,867.110 | 12.8470 | 103 | .42698 | 1.09586 | .37480 | 1.5665 |
| 49 | 7,951.4 | 108,137.4 | 2,802.008 | 12.5998 | 104 | .26276 | .66887 | .23091 | 1.5456 |
| 50 | 7,505.6 | 100,186.0 | 2,734.861 | 12.3481 | 105 | .16087 | .40611 | .14153 | 1.5244 |
| 51 | 7,079.0 | 92,680.4 | 2,665.679 | 12.0922 | 106 | .09646 | .24523 | .08478 | 1.5422 |
| 52 | 6,670.5 | 85,601.4 | 2,594.255 | 11.8328 | 107 | .05944 | .14877 | .05236 | 1.5025 |
| 53 | 6,279.1 | 78,930.9 | 2,520.508 | 11.5704 | 108 | .03602 | .08932 | .03177 | 1.4792 |
| 54 | 5,903.9 | 72,651.7 | 2,444.245 | 11.3058 | 109 | .01960 | .05329 | .01706 | 1.7180 |

TABLE 6. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 5.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,796,098 | 6,364.584 | 16.9610 | 55 | 4,269.2 | 49,345.5 | 1,696.664 | 10.5585 |
| 1 | 92,659 | 1,696,098 | 4,236.622 | 17.3048 | 56 | 3,984.6 | 45,076.3 | 1,634.623 | 10.3127 |
| 2 | 87,711 | 1,603,439 | 4,119.823 | 17.2808 | 57 | 3,713.5 | 41,091.8 | 1,571.325 | 10.0654 |
| 3 | 83,060 | 1,515,727 | 4,041.474 | 17.2485 | 58 | 3,455.7 | 37,378.2 | 1,507.025 | 9.8165 |
| 4 | 78,670 | 1,432,667 | 3,980.933 | 17.2112 | 59 | 3,210.4 | 33,922.6 | 1,441.958 | 9.5664 |
| 5 | 74,520 | 1,353,997 | 3,932.730 | 17.1695 | 60 | 2,977.4 | 30,712.1 | 1,376.297 | 9.3151 |
| 6 | 70,595 | 1,279,477 | 3,892.116 | 17.1243 | 61 | 2,756.2 | 27,734.7 | 1,310.281 | 9.0628 |
| 7 | 66,878 | 1,208,882 | 3,855.682 | 17.0759 | 62 | 2,546.3 | 24,978.6 | 1,244.126 | 8.8096 |
| 8 | 63,359 | 1,142,004 | 3,823.102 | 17.0244 | 63 | 2,347.5 | 22,432.2 | 1,178.026 | 8.5559 |
| 9 | 60,028 | 1,078,645 | 3,795.309 | 16.9690 | 64 | 2,159.3 | 20,084.7 | 1,112.188 | 8.3017 |
| 10 | 56,875 | 1,018,617 | 3,771.891 | 16.9097 | 65 | 1,981.2 | 17,925.5 | 1,046.670 | 8.0479 |
| 11 | 53,891 | 961,742 | 3,753.024 | 16.8460 | 66 | 1,812.9 | 15,944.3 | 981.648 | 7.7951 |
| 12 | 51,064 | 907,851 | 3,735.141 | 16.7787 | 67 | 1,654.0 | 14,131.4 | 917.277 | 7.5439 |
| 13 | 48,382 | 856,787 | 3,715.199 | 16.7089 | 68 | 1,504.4 | 12,477.5 | 853.900 | 7.2941 |
| 14 | 45,833 | 808,405 | 3,688.262 | 16.6382 | 69 | 1,363.9 | 10,973.1 | 791.863 | 7.0453 |
| 15 | 43,407 | 762,573 | 3,651.532 | 16.5682 | 70 | 1,232.5 | 9,609.2 | 731.575 | 6.7963 |
| 16 | 41,097 | 719,166 | 3,604.828 | 16.4993 | 71 | 1,109.9 | 8,376.6 | 673.247 | 6.5469 |
| 17 | 38,899 | 678,069 | 3,549.692 | 16.4314 | 72 | 995.86 | 7,266.69 | 617.027 | 6.2969 |
| 18 | 36,810 | 639,170 | 3,487.895 | 16.3642 | 73 | 889.75 | 6,270.83 | 562.835 | 6.0478 |
| 19 | 34,826 | 602,360 | 3,423.534 | 16.2962 | 74 | 791.14 | 5,381.08 | 510.612 | 5.8017 |
| 20 | 32,945 | 567,534 | 3,358.073 | 16.2266 | 75 | 699.62 | 4,589.93 | 460.337 | 5.5606 |
| 21 | 31,162 | 534,589 | 3,292.126 | 16.1553 | 76 | 614.98 | 3,890.31 | 412.169 | 5.3259 |
| 22 | 29,470 | 503,427 | 3,225.306 | 16.0825 | 77 | 537.13 | 3,275.33 | 366.383 | 5.0978 |
| 23 | 27,868 | 473,957 | 3,159.635 | 16.0070 | 78 | 466.04 | 2,738.19 | 323.291 | 4.8754 |
| 24 | 26,353 | 446,089 | 3,097.387 | 15.9273 | 79 | 401.69 | 2,272.15 | 283.232 | 4.6566 |
| 25 | 24,923 | 419,736 | 3,040.744 | 15.8415 | 80 | 343.85 | 1,870.47 | 246.337 | 4.4398 |
| 26 | 23,572 | 394,813 | 2,989.540 | 15.7491 | 81 | 292.14 | 1,526.62 | 212.556 | 4.2256 |
| 27 | 22,297 | 371,241 | 2,943.362 | 15.6497 | 82 | 246.11 | 1,234.48 | 181.751 | 4.0160 |
| 28 | 21,093 | 348,943 | 2,901.377 | 15.5433 | 83 | 205.44 | 988.37 | 153.914 | 3.8110 |
| 29 | 19,954 | 327,851 | 2,861.793 | 15.4307 | 84 | 169.87 | 782.93 | 129.055 | 3.6089 |
| 30 | 18,875 | 307,897 | 2,823.470 | 15.3124 | 85 | 139.01 | 613.06 | 107.054 | 3.4100 |
| 31 | 17,853 | 289,022 | 2,785.814 | 15.1887 | 86 | 112.35 | 474.04 | 87.641 | 3.2192 |
| 32 | 16,886 | 271,169 | 2,748.859 | 15.0592 | 87 | 89.481 | 361.688 | 70.625 | 3.0421 |
| 33 | 15,969 | 254,283 | 2,712.463 | 14.9236 | 88 | 70.162 | 272.206 | 55.971 | 2.8797 |
| 34 | 15,100 | 238,314 | 2,676.183 | 14.7822 | 89 | 54.182 | 202.045 | 43.648 | 2.7290 |
| 35 | 14,277 | 223,214 | 2,640.106 | 14.6347 | 90 | 41.252 | 147.863 | 33.543 | 2.5844 |
| 36 | 13,496 | 208,937 | 2,603.873 | 14.4810 | 91 | 30.955 | 106.611 | 25.397 | 2.4441 |
| 37 | 12,756 | 195,441 | 2,566.907 | 14.3218 | 92 | 22.846 | 75.656 | 18.902 | 2.3116 |
| 38 | 12,053 | 182,685 | 2,529.255 | 14.1567 | 93 | 16.564 | 52.810 | 13.811 | 2.1882 |
| 39 | 11,386 | 170,632 | 2,490.590 | 13.9860 | 94 | 11.776 | 36.246 | 9.886 | 2.0780 |
| 40 | 10,753 | 159,246 | 2,450.770 | 13.8099 | 95 | 8.1952 | 24.4702 | 6.9195 | 1.9859 |
| 41 | 10,151 | 148,493 | 2,409.909 | 13.6281 | 96 | 5.5946 | 16.2750 | 4.7461 | 1.9091 |
| 42 | 9,580.3 | 138,342.0 | 2,368.117 | 13.4403 | 97 | 3.7592 | 10.6804 | 3.2024 | 1.8411 |
| 43 | 9,037.8 | 128,761.8 | 2,325.103 | 13.2470 | 98 | 2.4895 | 6.9211 | 2.1287 | 1.7801 |
| 44 | 8,522.3 | 119,724.0 | 2,280.728 | 13.0484 | 99 | 1.6264 | 4.4316 | 1.3954 | 1.7248 |
| 45 | 8,032.0 | 111,201.7 | 2,234.801 | 12.8448 | 100 | 1.0498 | 2.8052 | .9036 | 1.6721 |
| 46 | 7,565.9 | 103,169.7 | 2,187.351 | 12.6362 | 101 | .66786 | 1.75541 | .57634 | 1.6284 |
| 47 | 7,122.6 | 95,603.8 | 2,138.498 | 12.4226 | 102 | .42061 | 1.08754 | .36391 | 1.5856 |
| 48 | 6,701.1 | 88,481.2 | 2,088.289 | 12.2041 | 103 | .26176 | .66693 | .22699 | 1.5478 |
| 49 | 6,300.1 | 81,780.2 | 2,036.706 | 11.9807 | 104 | .16032 | .40517 | .13919 | 1.5272 |
| 50 | 5,918.7 | 75,480.0 | 1,983.756 | 11.7527 | 105 | .09769 | .24484 | .08492 | 1.5064 |
| 51 | 5,555.9 | 69,561.3 | 1,929.460 | 11.5203 | 106 | .05830 | .14715 | .05063 | 1.5240 |
| 52 | 5,210.4 | 64,005.4 | 1,873.670 | 11.2841 | 107 | .03575 | .08885 | .03112 | 1.4849 |
| 53 | 4,881.5 | 58,795.0 | 1,816.337 | 11.0445 | 108 | .02156 | .05309 | .01880 | 1.4617 |
| 54 | 4,568.0 | 53,913.5 | 1,757.330 | 10.8025 | 109 | .01168 | .03152 | .01003 | 1.4597 |

TABLE 7. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 6 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,668,337 | 5,565.852 | 15.6834 | 55 | 3,291.6 | 36,576.4 | 1,221.239 | 10.1120 |
| 1 | 92,222 | 1,568,337 | 3,447.927 | 16.0062 | 56 | 3,057.7 | 33,284.8 | 1,173.629 | 9.8857 |
| 2 | 86,886 | 1,476,115 | 3,332.228 | 15.9891 | 57 | 2,836.3 | 30,227.1 | 1,125.285 | 9.6574 |
| 3 | 81,891 | 1,389,229 | 3,254.983 | 15.9645 | 58 | 2,626.8 | 27,390.9 | 1,076.407 | 9.4273 |
| 4 | 77,196 | 1,307,338 | 3,195.576 | 15.9353 | 59 | 2,428.9 | 24,764.0 | 1,027.179 | 9.1955 |
| 5 | 72,779 | 1,230,143 | 3,148.498 | 15.9024 | 60 | 2,242.0 | 22,335.1 | 977.736 | 8.9622 |
| 6 | 68,620 | 1,157,363 | 3,109.021 | 15.8662 | 61 | 2,065.6 | 20,093.1 | 928.261 | 8.7275 |
| 7 | 64,701 | 1,088,743 | 3,073.772 | 15.8274 | 62 | 1,899.3 | 18,027.5 | 878.915 | 8.4915 |
| 8 | 61,007 | 1,024,042 | 3,042.402 | 15.7856 | 63 | 1,742.8 | 16,128.2 | 829.843 | 8.2544 |
| 9 | 57,527 | 963,035 | 3,015.766 | 15.7405 | 64 | 1,595.5 | 14,385.4 | 781.195 | 8.0164 |
| 10 | 54,249 | 905,508 | 2,993.431 | 15.6918 | 65 | 1,457.0 | 12,790.0 | 733.013 | 7.7784 |
| 11 | 51,160 | 851,260 | 2,975.520 | 15.6392 | 66 | 1,326.9 | 11,333.0 | 685.421 | 7.5409 |
| 12 | 48,247 | 800,100 | 2,958.623 | 15.5833 | 67 | 1,204.9 | 10,006.1 | 638.527 | 7.3044 |
| 13 | 45,498 | 751,852 | 2,939.869 | 15.5251 | 68 | 1,090.8 | 8,801.2 | 592.576 | 7.0689 |
| 14 | 42,897 | 706,355 | 2,914.658 | 15.4663 | 69 | 984.25 | 7,710.41 | 547.808 | 6.8338 |
| 15 | 40,435 | 663,458 | 2,880.442 | 15.4081 | 70 | 885.23 | 6,726.16 | 504.508 | 6.5982 |
| 16 | 38,103 | 623,023 | 2,837.141 | 15.3512 | 71 | 793.43 | 5,840.93 | 462.812 | 6.3616 |
| 17 | 35,895 | 584,920 | 2,786.264 | 15.2953 | 72 | 708.52 | 5,047.50 | 422.814 | 6.1240 |
| 18 | 33,806 | 549,026 | 2,729.509 | 15.2403 | 73 | 630.04 | 4,338.97 | 384.440 | 5.8868 |
| 19 | 31,834 | 515,219 | 2,670.677 | 15.1845 | 74 | 557.57 | 3,708.93 | 347.635 | 5.6519 |
| 20 | 29,973 | 483,385 | 2,611.123 | 15.1276 | 75 | 490.75 | 3,151.36 | 312.369 | 5.4215 |
| 21 | 28,216 | 453,413 | 2,551.409 | 15.0692 | 76 | 429.34 | 2,660.61 | 278.741 | 5.1970 |
| 22 | 26,559 | 425,196 | 2,491.190 | 15.0096 | 77 | 373.23 | 2,231.27 | 246.927 | 4.9783 |
| 23 | 24,997 | 398,637 | 2,432.286 | 14.9476 | 78 | 322.30 | 1,858.04 | 217.126 | 4.7650 |
| 24 | 23,526 | 373,641 | 2,376.716 | 14.8819 | 79 | 276.48 | 1,535.74 | 189.553 | 4.5546 |
| 25 | 22,144 | 350,114 | 2,326.388 | 14.8107 | 80 | 235.56 | 1,259.26 | 164.278 | 4.3459 |
| 26 | 20,845 | 327,970 | 2,281.107 | 14.7334 | 81 | 199.19 | 1,023.71 | 141.245 | 4.1393 |
| 27 | 19,625 | 307,125 | 2,240.463 | 14.6498 | 82 | 167.01 | 824.51 | 120.340 | 3.9369 |
| 28 | 18,477 | 287,500 | 2,203.685 | 14.5597 | 83 | 138.76 | 657.50 | 101.539 | 3.7385 |
| 29 | 17,397 | 269,023 | 2,169.173 | 14.4639 | 84 | 114.19 | 518.75 | 84.829 | 3.5428 |
| 30 | 16,379 | 251,626 | 2,135.918 | 14.3628 | 85 | 93.008 | 404.556 | 70.109 | 3.3497 |
| 31 | 15,419 | 235,247 | 2,103.395 | 14.2567 | 86 | 74.817 | 311.547 | 57.182 | 3.1641 |
| 32 | 14,515 | 219,828 | 2,071.629 | 14.1452 | 87 | 59.304 | 236.731 | 45.904 | 2.9918 |
| 33 | 13,662 | 205,313 | 2,040.491 | 14.0281 | 88 | 46.281 | 177.427 | 36.238 | 2.8337 |
| 34 | 12,858 | 191,651 | 2,009.599 | 13.9055 | 89 | 35.571 | 131.146 | 28.148 | 2.6869 |
| 35 | 12,099 | 178,793 | 1,979.024 | 13.7770 | 90 | 26.955 | 95.575 | 21.545 | 2.5457 |
| 36 | 11,384 | 166,694 | 1,948.462 | 13.6429 | 91 | 20.131 | 68.620 | 16.247 | 2.4086 |
| 37 | 10,709 | 155,310 | 1,917.429 | 13.5033 | 92 | 14.788 | 48.488 | 12.043 | 2.2790 |
| 38 | 10,071 | 144,601 | 1,885.968 | 13.3583 | 93 | 10.671 | 33.701 | 8.764 | 2.1581 |
| 39 | 9,468.7 | 134,530.4 | 1,853.815 | 13.2078 | 94 | 7.5503 | 23.0298 | 6.2468 | 2.0502 |
| 40 | 8,899.8 | 125,061.6 | 1,820.857 | 13.0522 | 95 | 5.2298 | 15.4795 | 4.3536 | 1.9599 |
| 41 | 8,362.4 | 116,161.8 | 1,787.196 | 12.8910 | 96 | 3.5534 | 10.2497 | 2.9732 | 1.8845 |
| 42 | 7,854.8 | 107,799.4 | 1,752.931 | 12.7240 | 97 | 2.3764 | 6.6963 | 1.9974 | 1.8178 |
| 43 | 7,375.1 | 99,944.6 | 1,717.830 | 12.5517 | 98 | 1.5663 | 4.3199 | 1.3218 | 1.7580 |
| 44 | 6,921.6 | 92,569.6 | 1,681.790 | 12.3741 | 99 | 1.0184 | 2.7536 | .8626 | 1.7037 |
| 45 | 6,492.7 | 85,648.0 | 1,644.666 | 12.1915 | 100 | .65428 | 1.73512 | .55606 | 1.6519 |
| 46 | 6,087.0 | 79,155.3 | 1,606.490 | 12.0040 | 101 | .41427 | 1.08083 | .35310 | 1.6090 |
| 47 | 5,703.3 | 73,068.3 | 1,567.372 | 11.8116 | 102 | .25967 | .66656 | .22194 | 1.5669 |
| 48 | 5,340.5 | 67,365.0 | 1,527.357 | 11.6141 | 103 | .16084 | .40688 | .13781 | 1.5296 |
| 49 | 4,997.3 | 62,024.5 | 1,486.442 | 11.4117 | 104 | .09804 | .24603 | .08412 | 1.5093 |
| 50 | 4,672.6 | 57,027.3 | 1,444.640 | 11.2046 | 105 | .05946 | .14798 | .05108 | 1.4887 |
| 51 | 4,365.5 | 52,354.7 | 1,401.978 | 10.9930 | 106 | .03532 | .08852 | .03030 | 1.5063 |
| 52 | 4,074.7 | 47,989.2 | 1,358.348 | 10.7773 | 107 | .02156 | .05320 | .01854 | 1.4676 |
| 53 | 3,799.5 | 43,914.5 | 1,313.723 | 10.5581 | 108 | .01294 | .03164 | .01115 | 1.4446 |
| 54 | 3,538.7 | 40,115.1 | 1,268.013 | 10.3362 | 109 | .00697 | .01869 | .00591 | 1.6798 |

TABLE 8. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 6.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,557,279 | 4,954.807 | 14.5728 | 55 | 2,541.0 | 27,181.0 | 882.049 | 9.6970 |
| 1 | 91,789 | 1,457,279 | 2,846.826 | 14.8764 | 56 | 2,349.3 | 24,640.0 | 845.469 | 9.4881 |
| 2 | 86,072 | 1,365,490 | 2,732.210 | 14.8645 | 57 | 2,169.0 | 22,290.7 | 808.498 | 9.2771 |
| 3 | 80,743 | 1,279,418 | 2,656.048 | 14.8456 | 58 | 1,999.4 | 20,121.7 | 771.296 | 9.0640 |
| 4 | 75,756 | 1,198,676 | 2,597.749 | 14.8228 | 59 | 1,840.1 | 18,122.3 | 734.002 | 8.8488 |
| 5 | 71,087 | 1,122,919 | 2,551.766 | 14.7965 | 60 | 1,690.5 | 16,282.3 | 696.722 | 8.6318 |
| 6 | 66,710 | 1,051,833 | 2,513.387 | 14.7673 | 61 | 1,550.2 | 14,591.8 | 659.593 | 8.4130 |
| 7 | 62,604 | 985,123 | 2,479.282 | 14.7357 | 62 | 1,418.7 | 13,041.6 | 622.734 | 8.1926 |
| 8 | 58,753 | 922,519 | 2,449.070 | 14.7016 | 63 | 1,295.6 | 11,622.9 | 586.252 | 7.9708 |
| 9 | 55,142 | 863,766 | 2,423.539 | 14.6645 | 64 | 1,180.6 | 10,327.3 | 550.255 | 7.7478 |
| 10 | 51,755 | 808,624 | 2,402.230 | 14.6241 | 65 | 1,073.0 | 9,146.7 | 514.770 | 7.5243 |
| 11 | 48,579 | 756,869 | 2,385.223 | 14.5801 | 66 | 972.65 | 8,073.70 | 479.884 | 7.3008 |
| 12 | 45,598 | 708,290 | 2,369.254 | 14.5333 | 67 | 879.07 | 7,101.05 | 445.672 | 7.0779 |
| 13 | 42,798 | 662,692 | 2,351.613 | 14.4843 | 68 | 792.05 | 6,221.98 | 412.304 | 6.8555 |
| 14 | 40,162 | 619,894 | 2,328.009 | 14.4349 | 69 | 711.35 | 5,429.93 | 379.949 | 6.6332 |
| 15 | 37,679 | 579,732 | 2,296.125 | 14.3861 | 70 | 636.79 | 4,718.58 | 348.801 | 6.4100 |
| 16 | 35,339 | 542,053 | 2,255.965 | 14.3387 | 71 | 568.07 | 4,081.79 | 318.948 | 6.1853 |
| 17 | 33,135 | 506,714 | 2,209.000 | 14.2923 | 72 | 504.90 | 3,513.72 | 290.445 | 5.9593 |
| 18 | 31,061 | 473,579 | 2,156.854 | 14.2469 | 73 | 446.86 | 3,008.82 | 263.228 | 5.7332 |
| 19 | 29,111 | 442,518 | 2,103.054 | 14.2010 | 74 | 393.61 | 2,561.96 | 237.246 | 5.5089 |
| 20 | 27,280 | 413,407 | 2,048.849 | 14.1541 | 75 | 344.81 | 2,168.35 | 212.468 | 5.2886 |
| 21 | 25,561 | 386,127 | 1,994.754 | 14.1060 | 76 | 300.25 | 1,823.54 | 188.951 | 5.0735 |
| 22 | 23,947 | 360,566 | 1,940.458 | 14.0569 | 77 | 259.78 | 1,523.29 | 166.807 | 4.8638 |
| 23 | 22,432 | 336,619 | 1,887.596 | 14.0059 | 78 | 223.28 | 1,263.51 | 146.162 | 4.6589 |
| 24 | 21,014 | 314,186 | 1,837.961 | 13.9515 | 79 | 190.64 | 1,040.24 | 127.150 | 4.4566 |
| 25 | 19,686 | 293,173 | 1,793.219 | 13.8922 | 80 | 161.66 | 849.60 | 109.805 | 4.2555 |
| 26 | 18,445 | 273,486 | 1,753.153 | 13.8273 | 81 | 136.06 | 687.94 | 94.072 | 4.0562 |
| 27 | 17,283 | 255,042 | 1,717.358 | 13.7566 | 82 | 113.54 | 551.88 | 79.860 | 3.8606 |
| 28 | 16,196 | 237,758 | 1,685.120 | 13.6799 | 83 | 93.891 | 438.338 | 67.138 | 3.6686 |
| 29 | 15,178 | 221,562 | 1,655.011 | 13.5980 | 84 | 76.906 | 344.447 | 55.883 | 3.4788 |
| 30 | 14,222 | 206,385 | 1,626.134 | 13.5113 | 85 | 62.345 | 267.541 | 46.016 | 3.2913 |
| 31 | 13,326 | 192,162 | 1,598.027 | 13.4198 | 86 | 49.916 | 205.196 | 37.592 | 3.1109 |
| 32 | 12,486 | 178,836 | 1,570.701 | 13.3234 | 87 | 39.380 | 155.280 | 29.903 | 2.9431 |
| 33 | 11,697 | 166,350 | 1,544.042 | 13.2218 | 88 | 30.588 | 115.900 | 23.514 | 2.7891 |
| 34 | 10,957 | 154,654 | 1,517.718 | 13.1150 | 89 | 23.399 | 85.312 | 18.193 | 2.6459 |
| 35 | 10,262 | 143,697 | 1,491.786 | 13.0028 | 90 | 17.648 | 61.912 | 13.870 | 2.5081 |
| 36 | 9,609.9 | 133,434.8 | 1,465.986 | 12.8851 | 91 | 13.119 | 44.264 | 10.417 | 2.3741 |
| 37 | 8,997.3 | 123,824.9 | 1,439.913 | 12.7624 | 92 | 9.5912 | 31.1455 | 7.6903 | 2.2473 |
| 38 | 8,421.9 | 114,827.6 | 1,413.604 | 12.6345 | 93 | 6.8888 | 21.5543 | 5.5733 | 2.1289 |
| 39 | 7,881.1 | 106,405.8 | 1,386.841 | 12.5014 | 94 | 4.8513 | 14.6655 | 3.9562 | 2.0230 |
| 40 | 7,372.8 | 98,524.7 | 1,359.538 | 12.3633 | 95 | 3.3445 | 9.8143 | 2.7455 | 1.9345 |
| 41 | 6,895.0 | 91,151.9 | 1,331.784 | 12.2199 | 96 | 2.2617 | 6.4698 | 1.8669 | 1.8605 |
| 42 | 6,446.1 | 84,256.8 | 1,303.664 | 12.0710 | 97 | 1.5055 | 4.2080 | 1.2487 | 1.7951 |
| 43 | 6,024.0 | 77,810.7 | 1,274.993 | 11.9168 | 98 | .98764 | 2.70255 | .82269 | 1.7364 |
| 44 | 5,627.0 | 71,786.7 | 1,245.694 | 11.7575 | 99 | .63915 | 1.71491 | .53448 | 1.6831 |
| 45 | 5,253.6 | 66,159.7 | 1,215.655 | 11.5933 | 100 | .40868 | 1.07575 | .34303 | 1.6322 |
| 46 | 4,902.2 | 60,906.1 | 1,184.910 | 11.4243 | 101 | .25755 | .66706 | .21684 | 1.5900 |
| 47 | 4,571.6 | 56,003.9 | 1,153.553 | 11.2503 | 102 | .16068 | .40951 | .13569 | 1.5485 |
| 48 | 4,260.7 | 51,432.3 | 1,121.629 | 11.0714 | 103 | .09906 | .24882 | .08387 | 1.5118 |
| 49 | 3,968.2 | 47,171.6 | 1,089.140 | 10.8875 | 104 | .06010 | .14976 | .05096 | 1.4919 |
| 50 | 3,692.9 | 43,203.5 | 1,056.102 | 10.6990 | 105 | .03627 | .08966 | .03080 | 1.4715 |
| 51 | 3,434.0 | 39,510.5 | 1,022.543 | 10.5057 | 106 | .02144 | .05338 | .01818 | 1.4890 |
| 52 | 3,190.2 | 36,076.5 | 988.383 | 10.3084 | 107 | .01303 | .03193 | .01108 | 1.4508 |
| 53 | 2,960.8 | 32,886.3 | 953.609 | 10.1074 | 108 | .00778 | .01890 | .00663 | 1.4279 |
| 54 | 2,744.6 | 29,925.5 | 918.156 | 9.9034 | 109 | .00417 | .01111 | .00349 | 1.4613 |

TABLE 9. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 7 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,460,060 | 4,482.048 | 13.6006 | 55 | 1,963.9 | 20,249.2 | 639.196 | 9.3107 |
| 1 | 91,360 | 1,360,060 | 2,383.917 | 13.8869 | 56 | 1,807.3 | 18,285.3 | 611.056 | 9.1175 |
| 2 | 85,269 | 1,268,700 | 2,270.370 | 13.8787 | 57 | 1,660.7 | 16,478.0 | 582.748 | 8.9220 |
| 3 | 79,616 | 1,183,431 | 2,195.271 | 13.8642 | 58 | 1,523.7 | 14,817.3 | 554.396 | 8.7242 |
| 4 | 74,350 | 1,103,815 | 2,138.054 | 13.8462 | 59 | 1,395.8 | 13,293.5 | 526.107 | 8.5241 |
| 5 | 69,441 | 1,029,465 | 2,093.136 | 13.8250 | 60 | 1,276.3 | 11,897.7 | 497.960 | 8.3219 |
| 6 | 64,861 | 960,023 | 2,055.821 | 13.8012 | 61 | 1,164.9 | 10,621.4 | 470.058 | 8.1177 |
| 7 | 60,585 | 895,162 | 2,022.815 | 13.7754 | 62 | 1,061.1 | 9,456.5 | 442.489 | 7.9117 |
| 8 | 56,592 | 834,577 | 1,993.714 | 13.7472 | 63 | 964.56 | 8,395.36 | 415.329 | 7.7038 |
| 9 | 52,865 | 777,985 | 1,969.237 | 13.7163 | 64 | 874.78 | 7,430.80 | 388.656 | 7.4945 |
| 10 | 49,387 | 725,120 | 1,948.903 | 13.6825 | 65 | 791.38 | 6,556.02 | 362.485 | 7.2843 |
| 11 | 46,140 | 675,733 | 1,932.750 | 13.6454 | 66 | 714.00 | 5,764.64 | 336.876 | 7.0737 |
| 12 | 43,106 | 629,593 | 1,917.654 | 13.6057 | 67 | 642.29 | 5,050.64 | 311.878 | 6.8634 |
| 13 | 40,269 | 586,487 | 1,901.055 | 13.5641 | 68 | 576.01 | 4,408.34 | 287.612 | 6.6533 |
| 14 | 37,613 | 546,218 | 1,878.950 | 13.5221 | 69 | 514.91 | 3,832.33 | 264.192 | 6.4428 |
| 15 | 35,122 | 508,605 | 1,849.229 | 13.4809 | 70 | 458.78 | 3,317.43 | 241.752 | 6.2310 |
| 16 | 32,787 | 473,483 | 1,811.968 | 13.4410 | 71 | 407.36 | 2,858.65 | 220.344 | 6.0175 |
| 17 | 30,599 | 440,695 | 1,768.597 | 13.4022 | 72 | 360.37 | 2,451.29 | 200.001 | 5.8022 |
| 18 | 28,549 | 410,096 | 1,720.667 | 13.3644 | 73 | 317.45 | 2,090.92 | 180.665 | 5.5865 |
| 19 | 26,632 | 381,547 | 1,671.449 | 13.3264 | 74 | 278.32 | 1,773.47 | 162.294 | 5.3722 |
| 20 | 24,841 | 354,914 | 1,622.091 | 13.2876 | 75 | 242.67 | 1,495.15 | 144.855 | 5.1613 |
| 21 | 23,167 | 330,074 | 1,573.064 | 13.2478 | 76 | 210.32 | 1,252.48 | 128.382 | 4.9551 |
| 22 | 21,602 | 306,907 | 1,524.084 | 13.2073 | 77 | 181.12 | 1,042.16 | 112.943 | 4.7539 |
| 23 | 20,141 | 285,305 | 1,476.621 | 13.1651 | 78 | 154.95 | 861.04 | 98.616 | 4.5570 |
| 24 | 18,779 | 265,163 | 1,432.263 | 13.1199 | 79 | 131.68 | 706.10 | 85.484 | 4.3623 |
| 25 | 17,511 | 246,384 | 1,392.465 | 13.0702 | 80 | 111.14 | 574.42 | 73.559 | 4.1685 |
| 26 | 16,330 | 228,873 | 1,356.993 | 13.0155 | 81 | 93.102 | 463.279 | 62.794 | 3.9761 |
| 27 | 15,230 | 212,543 | 1,325.451 | 12.9554 | 82 | 77.331 | 370.178 | 53.114 | 3.7869 |
| 28 | 14,205 | 197,313 | 1,297.175 | 12.8899 | 83 | 63.648 | 292.846 | 44.490 | 3.6010 |
| 29 | 13,250 | 183,107 | 1,270.890 | 12.8196 | 84 | 51.891 | 229.198 | 36.896 | 3.4169 |
| 30 | 12,358 | 169,857 | 1,245.799 | 12.7448 | 85 | 41.870 | 177.307 | 30.270 | 3.2347 |
| 31 | 11,525 | 157,499 | 1,221.489 | 12.6657 | 86 | 33.365 | 135.438 | 24.505 | 3.0592 |
| 32 | 10,748 | 145,974 | 1,197.968 | 12.5819 | 87 | 26.200 | 102.072 | 19.523 | 2.8958 |
| 33 | 10,022 | 135,227 | 1,175.127 | 12.4933 | 88 | 20.256 | 75.872 | 15.292 | 2.7457 |
| 34 | 9,343.6 | 125,204.9 | 1,152.677 | 12.4000 | 89 | 15.423 | 55.616 | 11.784 | 2.6061 |
| 35 | 8,710.4 | 115,861.2 | 1,130.667 | 12.3015 | 90 | 11.578 | 40.193 | 8.948 | 2.4716 |
| 36 | 8,118.7 | 107,150.8 | 1,108.870 | 12.1980 | 91 | 8.5660 | 28.6155 | 6.6940 | 2.3406 |
| 37 | 7,565.7 | 99,032.1 | 1,086.946 | 12.0896 | 92 | 6.2334 | 20.0495 | 4.9218 | 2.2164 |
| 38 | 7,048.7 | 91,466.4 | 1,064.926 | 11.9763 | 93 | 4.4562 | 13.8161 | 3.5523 | 2.1004 |
| 39 | 6,565.3 | 84,417.7 | 1,042.632 | 11.8582 | 94 | 3.1235 | 9.3599 | 2.5112 | 1.9966 |
| 40 | 6,113.1 | 77,852.4 | 1,019.993 | 11.7353 | 95 | 2.1433 | 6.2363 | 1.7353 | 1.9097 |
| 41 | 5,690.3 | 71,739.3 | 997.088 | 11.6073 | 96 | 1.4426 | 4.0930 | 1.1749 | 1.8372 |
| 42 | 5,295.0 | 66,049.0 | 973.990 | 11.4740 | 97 | .95578 | 2.65039 | .78239 | 1.7730 |
| 43 | 4,925.1 | 60,754.0 | 950.550 | 11.3356 | 98 | .62409 | 1.69460 | .51323 | 1.7153 |
| 44 | 4,579.1 | 55,828.9 | 926.707 | 11.1922 | 99 | .40199 | 1.07050 | .33196 | 1.6630 |
| 45 | 4,255.2 | 51,249.8 | 902.376 | 11.0441 | 100 | .25584 | .66851 | .21210 | 1.6130 |
| 46 | 3,952.0 | 46,994.7 | 877.591 | 10.8913 | 101 | .16048 | .41266 | .13348 | 1.5714 |
| 47 | 3,668.3 | 43,042.7 | 852.430 | 10.7337 | 102 | .09965 | .25218 | .08315 | 1.5306 |
| 48 | 3,402.8 | 39,374.4 | 826.934 | 10.5711 | 103 | .06114 | .15253 | .05116 | 1.4945 |
| 49 | 3,154.4 | 35,971.5 | 801.107 | 10.4037 | 104 | .03692 | .09138 | .03094 | 1.4748 |
| 50 | 2,921.9 | 32,817.1 | 774.967 | 10.2315 | 105 | .02218 | .05445 | .01862 | 1.4547 |
| 51 | 2,704.3 | 29,895.3 | 748.539 | 10.0547 | 106 | .01305 | .03227 | .01094 | 1.4721 |
| 52 | 2,500.6 | 27,191.0 | 721.764 | 9.8737 | 107 | .00789 | .01921 | .00663 | 1.4343 |
| 53 | 2,309.9 | 24,690.3 | 694.634 | 9.6890 | 108 | .00469 | .01132 | .00395 | 1.4116 |
| 54 | 2,131.2 | 22,380.5 | 667.104 | 9.5011 | 109 | .00250 | .00662 | .00207 | 1.6433 |

TABLE 10. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 7.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,374,395 | 4,111.998 | 12.7439 | 55 | 1,519.7 | 15,121.7 | 464.718 | 8.9503 |
| 1 | 90,935 | 1,274,395 | 2,623.626 | 13.0144 | 56 | 1,392.0 | 13,602.0 | 443.043 | 8.7714 |
| 2 | 84,478 | 1,183,460 | 1,911.133 | 13.0091 | 57 | 1,273.2 | 12,210.0 | 421.341 | 8.5900 |
| 3 | 78,510 | 1,098,982 | 1,837.077 | 12.9979 | 58 | 1,162.7 | 10,936.8 | 399.706 | 8.4061 |
| 4 | 72,977 | 1,020,471 | 1,780.916 | 12.9835 | 59 | 1,060.1 | 9,774.0 | 378.220 | 8.2197 |
| 5 | 67,841 | 947,495 | 1,737.033 | 12.9663 | 60 | 964.89 | 8,713.92 | 356.941 | 8.0310 |
| 6 | 63,072 | 879,654 | 1,700.747 | 12.9468 | 61 | 876.58 | 7,749.03 | 335.945 | 7.8401 |
| 7 | 58,640 | 816,582 | 1,668.801 | 12.9254 | 62 | 794.77 | 6,872.45 | 315.297 | 7.6471 |
| 8 | 54,520 | 757,942 | 1,640.766 | 12.9020 | 63 | 719.07 | 6,077.68 | 295.049 | 7.4521 |
| 9 | 50,693 | 703,422 | 1,617.295 | 12.8760 | 64 | 649.11 | 5,358.61 | 275.257 | 7.2553 |
| 10 | 47,137 | 652,728 | 1,597.887 | 12.8475 | 65 | 584.50 | 4,709.50 | 255.928 | 7.0573 |
| 11 | 43,833 | 605,591 | 1,582.542 | 12.8158 | 66 | 524.89 | 4,125.00 | 237.101 | 6.8588 |
| 12 | 40,761 | 561,758 | 1,568.267 | 12.7819 | 67 | 469.98 | 3,600.11 | 218.810 | 6.6601 |
| 13 | 37,901 | 520,997 | 1,552.644 | 12.7462 | 68 | 419.52 | 3,130.13 | 201.137 | 6.4612 |
| 14 | 35,236 | 483,096 | 1,531.935 | 12.7102 | 69 | 373.27 | 2,710.61 | 184.159 | 6.2618 |
| 15 | 32,750 | 447,860 | 1,504.222 | 12.6750 | 70 | 331.04 | 2,337.34 | 167.967 | 6.0607 |
| 16 | 30,431 | 415,110 | 1,469.639 | 12.6411 | 71 | 292.57 | 2,006.30 | 152.592 | 5.8576 |
| 17 | 28,268 | 384,679 | 1,429.573 | 12.6085 | 72 | 257.61 | 1,713.73 | 138.049 | 5.6524 |
| 18 | 26,251 | 356,411 | 1,385.501 | 12.5768 | 73 | 225.88 | 1,456.12 | 124.291 | 5.4464 |
| 19 | 24,375 | 330,160 | 1,340.455 | 12.5451 | 74 | 197.11 | 1,230.24 | 111.280 | 5.2414 |
| 20 | 22,629 | 305,785 | 1,295.491 | 12.5128 | 75 | 171.07 | 1,033.13 | 98.987 | 5.0394 |
| 21 | 21,006 | 283,156 | 1,251.036 | 12.4797 | 76 | 147.57 | 862.07 | 87.429 | 4.8416 |
| 22 | 19,496 | 262,150 | 1,206.831 | 12.4461 | 77 | 126.49 | 714.49 | 76.646 | 4.6484 |
| 23 | 18,093 | 242,653 | 1,164.194 | 12.4111 | 78 | 107.71 | 588.00 | 66.687 | 4.4591 |
| 24 | 16,791 | 224,560 | 1,124.532 | 12.3734 | 79 | 91.109 | 480.288 | 57.601 | 4.2716 |
| 25 | 15,585 | 207,768 | 1,089.112 | 12.3317 | 80 | 76.540 | 389.179 | 49.388 | 4.0847 |
| 26 | 14,466 | 192,184 | 1,057.689 | 12.2853 | 81 | 63.820 | 312.639 | 42.008 | 3.8987 |
| 27 | 13,429 | 177,718 | 1,029.877 | 12.2341 | 82 | 52.763 | 248.819 | 35.404 | 3.7158 |
| 28 | 12,467 | 164,289 | 1,005.062 | 12.1778 | 83 | 43.225 | 196.056 | 29.547 | 3.5357 |
| 29 | 11,574 | 151,822 | 982.101 | 12.1171 | 84 | 35.076 | 152.830 | 24.414 | 3.3571 |
| 30 | 10,745 | 140,248 | 960.284 | 12.0524 | 85 | 28.171 | 117.754 | 19.955 | 3.1800 |
| 31 | 9,974.3 | 129,502.6 | 939.247 | 11.9836 | 86 | 22.345 | 89.583 | 16.095 | 3.0091 |
| 32 | 9,258.2 | 119,528.3 | 918.984 | 11.9106 | 87 | 17.465 | 67.238 | 12.774 | 2.8500 |
| 33 | 8,592.7 | 110,270.1 | 899.401 | 11.8331 | 88 | 13.439 | 49.774 | 9.967 | 2.7036 |
| 34 | 7,974.0 | 101,677.5 | 880.242 | 11.7511 | 89 | 10.185 | 36.335 | 7.650 | 2.5674 |
| 35 | 7,399.0 | 93,703.4 | 861.545 | 11.6643 | 90 | 7.6103 | 26.1494 | 5.7860 | 2.4360 |
| 36 | 6,864.4 | 86,304.4 | 843.116 | 11.5728 | 91 | 5.6045 | 18.5391 | 4.3110 | 2.3079 |
| 37 | 6,367.0 | 79,440.1 | 824.665 | 11.4769 | 92 | 4.0593 | 12.9346 | 3.1569 | 2.1864 |
| 38 | 5,904.3 | 73,073.1 | 806.221 | 11.3762 | 93 | 2.8885 | 8.8753 | 2.2693 | 2.0726 |
| 39 | 5,473.8 | 67,168.7 | 787.633 | 11.2709 | 94 | 2.0152 | 5.9868 | 1.5975 | 1.9708 |
| 40 | 5,073.1 | 61,694.9 | 768.846 | 11.1611 | 95 | 1.3764 | 3.9716 | 1.0993 | 1.8855 |
| 41 | 4,700.3 | 56,621.8 | 749.926 | 11.0465 | 96 | .92212 | 2.59520 | .74106 | 1.8144 |
| 42 | 4,353.4 | 51,921.5 | 730.935 | 10.9267 | 97 | .60808 | 1.67307 | .49136 | 1.7514 |
| 43 | 4,030.5 | 47,568.1 | 711.753 | 10.8022 | 98 | .39521 | 1.06498 | .32091 | 1.6947 |
| 44 | 3,729.8 | 43,537.7 | 692.332 | 10.6728 | 99 | .25338 | .66977 | .20665 | 1.6433 |
| 45 | 3,449.9 | 39,807.8 | 672.606 | 10.5388 | 100 | .16051 | .41638 | .13146 | 1.5941 |
| 46 | 3,189.2 | 36,357.9 | 652.604 | 10.4003 | 101 | .10021 | .25587 | .08236 | 1.5533 |
| 47 | 2,946.5 | 33,168.7 | 632.394 | 10.2570 | 102 | .06194 | .15566 | .05107 | 1.5131 |
| 48 | 2,720.5 | 30,222.2 | 612.010 | 10.1089 | 103 | .03783 | .09372 | .03129 | 1.4775 |
| 49 | 2,510.2 | 27,501.7 | 591.458 | 9.9561 | 104 | .02273 | .05589 | .01883 | 1.4481 |
| 50 | 2,314.3 | 24,991.5 | 570.753 | 9.7985 | 105 | .01359 | .03315 | .01128 | 1.4238 |
| 51 | 2,132.0 | 22,677.2 | 549.917 | 9.6363 | 106 | .00796 | .01955 | .00659 | 1.4055 |
| 52 | 1,962.3 | 20,545.1 | 528.906 | 9.4700 | 107 | .00479 | .01159 | .00398 | 1.3918 |
| 53 | 1,804.2 | 18,582.8 | 507.716 | 9.2998 | 108 | .00283 | .00679 | .00236 | 1.3797 |
| 54 | 1,656.9 | 16,778.6 | 486.313 | 9.1264 | 109 | .00150 | .00396 | .00123 | 1.3625 |

TABLE 11. UNITED STATES TOTAL MALES: 1969-71--ACTUARIAL FUNCTIONS AT 8 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,298,445 | 3,818.866 | 11.9845 | 55 | 1,177.4 | 11,319.2 | 338.938 | 8.6137 |
| 1 | 90,514 | 1,198,445 | 1,740.162 | 12.2405 | 56 | 1,073.5 | 10,141.8 | 322.224 | 8.4477 |
| 2 | 83,698 | 1,107,931 | 1,628.708 | 12.2373 | 57 | 977.29 | 9,068.34 | 305.565 | 8.2790 |
| 3 | 77,425 | 1,024,234 | 1,555.675 | 12.2287 | 58 | 888.37 | 8,091.04 | 289.035 | 8.1077 |
| 4 | 71,635 | 946,809 | 1,500.548 | 12.2172 | 59 | 806.23 | 7,202.67 | 272.695 | 7.9338 |
| 5 | 66,285 | 875,174 | 1,457.671 | 12.2031 | 60 | 730.40 | 6,396.45 | 256.588 | 7.7575 |
| 6 | 61,340 | 808,889 | 1,422.382 | 12.1870 | 61 | 660.48 | 5,666.05 | 240.768 | 7.5787 |
| 7 | 56,765 | 747,549 | 1,391.457 | 12.1691 | 62 | 596.06 | 5,005.57 | 225.282 | 7.3977 |
| 8 | 52,534 | 690,783 | 1,364.444 | 12.1494 | 63 | 536.80 | 4,409.51 | 210.167 | 7.2145 |
| 9 | 48,620 | 638,250 | 1,341.932 | 12.1274 | 64 | 482.33 | 3,872.71 | 195.460 | 7.0292 |
| 10 | 45,000 | 589,630 | 1,323.405 | 12.1030 | 65 | 432.30 | 3,390.38 | 181.164 | 6.8426 |
| 11 | 41,652 | 544,630 | 1,308.823 | 12.0758 | 66 | 386.42 | 2,958.08 | 167.304 | 6.6551 |
| 12 | 38,553 | 502,979 | 1,295.321 | 12.0464 | 67 | 344.39 | 2,571.66 | 153.901 | 6.4672 |
| 13 | 35,683 | 464,426 | 1,280.613 | 12.0155 | 68 | 305.99 | 2,227.26 | 141.010 | 6.2788 |
| 14 | 33,020 | 428,743 | 1,261.206 | 11.9844 | 69 | 271.00 | 1,921.27 | 128.683 | 6.0896 |
| 15 | 30,548 | 395,723 | 1,235.357 | 11.9541 | 70 | 239.22 | 1,650.27 | 116.982 | 5.8984 |
| 16 | 28,253 | 365,175 | 1,203.249 | 11.9251 | 71 | 210.44 | 1,411.05 | 105.923 | 5.7051 |
| 17 | 26,123 | 336,922 | 1,166.222 | 11.8973 | 72 | 184.44 | 1,200.60 | 95.510 | 5.5093 |
| 18 | 24,148 | 310,798 | 1,125.681 | 11.8707 | 73 | 160.98 | 1,016.16 | 85.706 | 5.3125 |
| 19 | 22,318 | 286,651 | 1,084.437 | 11.8440 | 74 | 139.82 | 855.18 | 76.476 | 5.1162 |
| 20 | 20,624 | 264,333 | 1,043.458 | 11.8170 | 75 | 120.79 | 715.36 | 67.796 | 4.9225 |
| 21 | 19,056 | 243,709 | 1,003.131 | 11.7893 | 76 | 103.72 | 594.57 | 59.673 | 4.7327 |
| 22 | 17,604 | 224,653 | 963.216 | 11.7613 | 77 | 88.490 | 490.858 | 52.130 | 4.5471 |
| 23 | 16,262 | 207,049 | 924.895 | 11.7322 | 78 | 75.000 | 402.368 | 45.195 | 4.3649 |
| 24 | 15,022 | 190,787 | 889.412 | 11.7007 | 79 | 63.147 | 327.368 | 38.898 | 4.1842 |
| 25 | 13,878 | 175,766 | 857.873 | 11.6655 | 80 | 52.804 | 264.221 | 33.232 | 4.0038 |
| 26 | 12,822 | 161,888 | 830.021 | 11.6261 | 81 | 43.825 | 211.417 | 28.164 | 3.8241 |
| 27 | 11,847 | 149,066 | 805.484 | 11.5822 | 82 | 36.064 | 167.592 | 23.650 | 3.6470 |
| 28 | 10,948 | 137,219 | 783.693 | 11.5336 | 83 | 29.408 | 131.528 | 19.665 | 3.4725 |
| 29 | 10,117 | 126,271 | 763.622 | 11.4810 | 84 | 23.754 | 102.120 | 16.189 | 3.2991 |
| 30 | 9,348.6 | 116,153.8 | 744.641 | 11.4247 | 85 | 18.989 | 78.366 | 13.184 | 3.1269 |
| 31 | 8,637.9 | 106,805.1 | 726.422 | 11.3647 | 86 | 14.992 | 59.377 | 10.594 | 2.9606 |
| 32 | 7,980.6 | 98,167.2 | 708.956 | 11.3007 | 87 | 11.664 | 44.385 | 8.376 | 2.8055 |
| 33 | 7,372.6 | 90,186.6 | 692.153 | 11.2326 | 88 | 8.9336 | 32.7215 | 6.5098 | 2.6627 |
| 34 | 6,810.2 | 82,814.0 | 675.791 | 11.1604 | 89 | 6.7392 | 23.7879 | 4.9771 | 2.5298 |
| 35 | 6,289.8 | 76,003.8 | 659.896 | 11.0836 | 90 | 5.0122 | 17.0487 | 3.7493 | 2.4015 |
| 36 | 5,808.3 | 69,714.0 | 644.303 | 11.0025 | 91 | 3.6740 | 12.0365 | 2.7824 | 2.2761 |
| 37 | 5,362.5 | 63,905.7 | 628.763 | 10.9171 | 92 | 2.6488 | 8.3625 | 2.0294 | 2.1571 |
| 38 | 4,949.8 | 58,543.2 | 613.300 | 10.8273 | 93 | 1.8761 | 5.7137 | 1.4528 | 2.0456 |
| 39 | 4,567.7 | 53,593.4 | 597.789 | 10.7332 | 94 | 1.3028 | 3.8376 | 1.0185 | 1.9456 |
| 40 | 4,213.7 | 49,025.7 | 582.185 | 10.6348 | 95 | .88569 | 2.53482 | .69793 | 1.8620 |
| 41 | 3,885.9 | 44,812.0 | 566.543 | 10.5318 | 96 | .59063 | 1.64913 | .46848 | 1.7921 |
| 42 | 3,582.5 | 40,926.0 | 550.915 | 10.4240 | 97 | .38768 | 1.05849 | .30928 | 1.7303 |
| 43 | 3,301.4 | 37,343.6 | 535.202 | 10.3115 | 98 | .25080 | .67080 | .20111 | 1.6746 |
| 44 | 3,041.0 | 34,042.2 | 519.368 | 10.1944 | 99 | .16005 | .41999 | .12894 | 1.6241 |
| 45 | 2,799.7 | 31,001.2 | 503.360 | 10.0729 | 100 | .10091 | .25994 | .08166 | 1.5758 |
| 46 | 2,576.2 | 28,201.4 | 487.203 | 9.9469 | 101 | .06271 | .15902 | .05093 | 1.5356 |
| 47 | 2,369.1 | 25,625.2 | 470.953 | 9.8164 | 102 | .03858 | .09630 | .03145 | 1.4960 |
| 48 | 2,177.3 | 23,256.1 | 454.639 | 9.6811 | 103 | .02345 | .05772 | .01918 | 1.4609 |
| 49 | 1,999.7 | 21,078.8 | 438.267 | 9.5412 | 104 | .01403 | .03426 | .01149 | 1.4417 |
| 50 | 1,835.1 | 19,079.1 | 421.849 | 9.3967 | 105 | .00835 | .02023 | .00685 | 1.4221 |
| 51 | 1,682.7 | 17,244.0 | 405.404 | 9.2476 | 106 | .00487 | .01187 | .00399 | 1.4039 |
| 52 | 1,541.6 | 15,561.3 | 388.898 | 9.0943 | 107 | .00291 | .00700 | .00239 | 1.4024 |
| 53 | 1,410.8 | 14,019.7 | 372.328 | 8.9372 | 108 | .00171 | .00409 | .00141 | 1.3800 |
| 54 | 1,289.7 | 12,608.9 | 355.669 | 8.7769 | 109 | .00090 | .00237 | .00073 | 1.6083 |

TABLE 12. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 3 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,972,583 | 13,419.908 | 28.7258 | 55 | 17,525 | 301,010 | 8,757.971 | 16.1758 |
| 1 | 95,392 | 2,872,583 | 11,724.762 | 29.1134 | 56 | 16,884 | 283,485 | 8,627.302 | 15.7900 |
| 2 | 92,505 | 2,777,191 | 11,616.364 | 29.0219 | 57 | 16,256 | 266,601 | 8,491.351 | 15.3997 |
| 3 | 89,742 | 2,684,686 | 11,547.728 | 28.9154 | 58 | 15,642 | 250,345 | 8,350.177 | 15.0049 |
| 4 | 87,076 | 2,594,943 | 11,495.307 | 28.8008 | 59 | 15,040 | 234,703 | 8,204.198 | 14.6050 |
| 5 | 84,497 | 2,507,867 | 11,452.177 | 28.6800 | 60 | 14,451 | 219,663 | 8,052.965 | 14.2006 |
| 6 | 82,001 | 2,423,370 | 11,417.003 | 28.5531 | 61 | 13,874 | 205,212 | 7,896.745 | 13.7913 |
| 7 | 79,582 | 2,341,369 | 11,386.918 | 28.4208 | 62 | 13,308 | 191,338 | 7,735.155 | 13.3775 |
| 8 | 77,237 | 2,261,787 | 11,360.078 | 28.2836 | 63 | 12,753 | 178,030 | 7,567.399 | 12.9601 |
| 9 | 74,965 | 2,184,550 | 11,337.086 | 28.1410 | 64 | 12,207 | 165,277 | 7,392.766 | 12.5399 |
| 10 | 72,760 | 2,109,585 | 11,316.251 | 27.9936 | 65 | 11,669 | 153,070 | 7,210.482 | 12.1179 |
| 11 | 70,623 | 2,036,825 | 11,298.191 | 27.8407 | 66 | 11,139 | 141,402 | 7,020.429 | 11.6944 |
| 12 | 68,549 | 1,966,202 | 11,280.656 | 27.6833 | 67 | 10,616 | 130,263 | 6,822.387 | 11.2699 |
| 13 | 66,534 | 1,897,653 | 11,262.270 | 27.5217 | 68 | 10,101 | 119,646 | 6,615.776 | 10.8454 |
| 14 | 64,575 | 1,831,119 | 11,241.776 | 27.3563 | 69 | 9,591.3 | 109,545.6 | 6,400.613 | 10.4214 |
| 15 | 62,669 | 1,766,544 | 11,216.101 | 27.1886 | 70 | 9,087.7 | 99,954.3 | 6,176.435 | 9.9988 |
| 16 | 60,814 | 1,703,875 | 11,186.189 | 27.0180 | 71 | 8,590.8 | 90,866.6 | 5,944.195 | 9.5772 |
| 17 | 59,008 | 1,643,061 | 11,151.703 | 26.8448 | 72 | 8,100.5 | 82,275.8 | 5,704.077 | 9.1569 |
| 18 | 57,252 | 1,584,053 | 11,114.110 | 26.6683 | 73 | 7,615.6 | 74,175.4 | 5,455.117 | 8.7400 |
| 19 | 55,546 | 1,526,802 | 11,075.901 | 26.4872 | 74 | 7,134.8 | 66,559.8 | 5,196.128 | 8.3289 |
| 20 | 53,890 | 1,471,256 | 11,037.697 | 26.3012 | 75 | 6,657.3 | 59,425.0 | 4,926.489 | 7.9263 |
| 21 | 52,283 | 1,417,366 | 11,000.069 | 26.1097 | 76 | 6,183.9 | 52,767.7 | 4,646.934 | 7.5331 |
| 22 | 50,723 | 1,365,084 | 10,963.014 | 25.9127 | 77 | 5,716.2 | 46,583.9 | 4,359.398 | 7.1494 |
| 23 | 49,208 | 1,314,361 | 10,926.026 | 25.7101 | 78 | 5,255.9 | 40,867.6 | 4,065.581 | 6.7756 |
| 24 | 47,738 | 1,265,153 | 10,889.131 | 25.5019 | 79 | 4,804.8 | 35,611.7 | 3,767.545 | 6.4117 |
| 25 | 46,312 | 1,217,414 | 10,852.833 | 25.2875 | 80 | 4,364.8 | 30,807.0 | 3,467.476 | 6.0581 |
| 26 | 44,926 | 1,171,103 | 10,816.665 | 25.0671 | 81 | 3,936.9 | 26,442.2 | 3,166.749 | 5.7165 |
| 27 | 43,581 | 1,126,176 | 10,780.199 | 24.8407 | 82 | 3,522.8 | 22,505.3 | 2,867.341 | 5.3884 |
| 28 | 42,276 | 1,082,595 | 10,743.922 | 24.6079 | 83 | 3,125.7 | 18,982.5 | 2,572.783 | 5.0731 |
| 29 | 41,007 | 1,040,319 | 10,706.579 | 24.3692 | 84 | 2,748.8 | 15,856.8 | 2,286.971 | 4.7686 |
| 30 | 39,775 | 999,312 | 10,668.677 | 24.1242 | 85 | 2,394.5 | 13,108.0 | 2,012.726 | 4.4742 |
| 31 | 38,577 | 959,537 | 10,629.078 | 23.8734 | 86 | 2,062.5 | 10,713.4 | 1,750.484 | 4.1943 |
| 32 | 37,412 | 920,960 | 10,587.914 | 23.6167 | 87 | 1,752.9 | 8,650.9 | 1,500.922 | 3.9352 |
| 33 | 36,279 | 883,548 | 10,544.556 | 23.3543 | 88 | 1,469.0 | 6,898.0 | 1,268.051 | 3.6958 |
| 34 | 35,177 | 847,269 | 10,499.533 | 23.0857 | 89 | 1,214.2 | 5,429.1 | 1,056.080 | 3.4713 |
| 35 | 34,105 | 812,092 | 10,451.556 | 22.8117 | 90 | 990.18 | 4,214.86 | 867.414 | 3.2567 |
| 36 | 33,061 | 777,987 | 10,401.526 | 22.5316 | 91 | 795.34 | 3,224.68 | 701.421 | 3.0545 |
| 37 | 32,045 | 744,926 | 10,348.264 | 22.2461 | 92 | 627.70 | 2,429.34 | 556.938 | 2.8703 |
| 38 | 31,056 | 712,881 | 10,292.325 | 21.9548 | 93 | 486.03 | 1,801.64 | 433.558 | 2.7068 |
| 39 | 30,092 | 681,825 | 10,232.963 | 21.6581 | 94 | 369.24 | 1,315.61 | 330.919 | 2.5630 |
| 40 | 29,153 | 651,733 | 10,170.119 | 21.3559 | 95 | 275.36 | 946.37 | 247.798 | 2.4368 |
| 41 | 28,238 | 622,580 | 10,104.343 | 21.0478 | 96 | 201.63 | 671.01 | 182.090 | 2.3279 |
| 42 | 27,346 | 594,343 | 10,035.282 | 20.7340 | 97 | 145.16 | 469.38 | 131.487 | 2.2336 |
| 43 | 26,477 | 566,996 | 9,962.902 | 20.4144 | 98 | 102.90 | 324.22 | 93.453 | 2.1509 |
| 44 | 25,630 | 540,519 | 9,886.365 | 20.0896 | 99 | 71.923 | 221.323 | 65.477 | 2.0772 |
| 45 | 24,802 | 514,889 | 9,805.712 | 19.7596 | 100 | 49.639 | 149.400 | 45.288 | 2.0097 |
| 46 | 23,995 | 490,087 | 9,720.475 | 19.4247 | 101 | 33.796 | 99.761 | 30.890 | 1.9518 |
| 47 | 23,206 | 466,092 | 9,630.742 | 19.0848 | 102 | 22.757 | 65.965 | 20.836 | 1.8986 |
| 48 | 22,437 | 442,886 | 9,537.088 | 18.7394 | 103 | 15.142 | 43.207 | 13.884 | 1.8534 |
| 49 | 21,686 | 420,449 | 9,439.584 | 18.3883 | 104 | 9.9858 | 28.0651 | 9.1684 | 1.8105 |
| 50 | 20,952 | 398,764 | 9,337.620 | 18.0322 | 105 | 6.5082 | 18.0793 | 5.9816 | 1.7779 |
| 51 | 20,236 | 377,811 | 9,231.318 | 17.6707 | 106 | 4.2269 | 11.5711 | 3.8899 | 1.7375 |
| 52 | 19,535 | 357,576 | 9,120.156 | 17.3044 | 107 | 2.7077 | 7.3442 | 2.4938 | 1.7124 |
| 53 | 18,850 | 338,041 | 9,004.300 | 16.9331 | 108 | 1.7252 | 4.6365 | 1.5901 | 1.6876 |
| 54 | 18,180 | 319,191 | 8,883.508 | 16.5569 | 109 | 1.0767 | 2.9113 | .9919 | 1.7039 |

TABLE 13. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 3.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,654,060 | 10,249.182 | 25.5406 | 55 | 13,427 | 218,299 | 6,045.341 | 15.2577 |
| 1 | 94,931 | 2,554,060 | 8,562.225 | 25.9043 | 56 | 12,874 | 204,871 | 5,945.709 | 14.9139 |
| 2 | 91,614 | 2,459,129 | 8,454.871 | 25.8623 | 57 | 12,335 | 191,998 | 5,842.551 | 14.5650 |
| 3 | 88,448 | 2,367,515 | 8,387.226 | 25.7673 | 58 | 11,811 | 179,662 | 5,735.946 | 14.2108 |
| 4 | 85,406 | 2,279,067 | 8,335.811 | 25.6852 | 59 | 11,302 | 167,851 | 5,626.246 | 13.8510 |
| 5 | 82,475 | 2,193,661 | 8,293.712 | 25.5977 | 60 | 10,807 | 156,549 | 5,513.148 | 13.4858 |
| 6 | 79,652 | 2,111,185 | 8,259.545 | 25.5050 | 61 | 10,325 | 145,741 | 5,396.884 | 13.1149 |
| 7 | 76,930 | 2,031,533 | 8,230.463 | 25.4077 | 62 | 9,856.5 | 135,416.1 | 5,277.204 | 12.7388 |
| 8 | 74,302 | 1,954,603 | 8,204.643 | 25.3061 | 63 | 9,399.5 | 125,559.6 | 5,153.558 | 12.3581 |
| 9 | 71,768 | 1,880,301 | 8,182.631 | 25.1998 | 64 | 8,953.6 | 116,160.1 | 5,025.464 | 11.9736 |
| 10 | 69,321 | 1,808,533 | 8,162.782 | 25.0893 | 65 | 8,517.7 | 107,206.5 | 4,892.405 | 11.5863 |
| 11 | 66,960 | 1,739,213 | 8,145.658 | 24.9741 | 66 | 8,091.6 | 98,688.8 | 4,754.344 | 11.1964 |
| 12 | 64,679 | 1,672,253 | 8,129.113 | 24.8548 | 67 | 7,674.8 | 90,597.1 | 4,611.176 | 10.8044 |
| 13 | 62,474 | 1,607,574 | 8,111.849 | 24.7318 | 68 | 7,266.7 | 82,922.3 | 4,462.534 | 10.4113 |
| 14 | 60,342 | 1,545,100 | 8,092.698 | 24.6055 | 69 | 6,866.9 | 75,655.6 | 4,308.488 | 10.0174 |
| 15 | 58,278 | 1,484,757 | 8,068.822 | 24.4771 | 70 | 6,475.0 | 68,788.7 | 4,148.762 | 9.6238 |
| 16 | 56,280 | 1,426,479 | 8,041.141 | 24.3463 | 71 | 6,091.3 | 62,313.8 | 3,984.092 | 9.2299 |
| 17 | 54,345 | 1,370,200 | 8,009.380 | 24.2132 | 72 | 5,715.9 | 56,222.5 | 3,814.658 | 8.8361 |
| 18 | 52,472 | 1,315,855 | 7,974.925 | 24.0771 | 73 | 5,347.8 | 50,506.6 | 3,639.834 | 8.4444 |
| 19 | 50,663 | 1,263,383 | 7,940.074 | 23.9369 | 74 | 4,986.0 | 45,158.8 | 3,458.846 | 8.0572 |
| 20 | 48,915 | 1,212,720 | 7,905.397 | 23.7923 | 75 | 4,629.8 | 40,172.8 | 3,271.326 | 7.6770 |
| 21 | 47,227 | 1,163,804 | 7,871.407 | 23.6427 | 76 | 4,279.8 | 35,543.0 | 3,077.848 | 7.3049 |
| 22 | 45,597 | 1,116,577 | 7,838.098 | 23.4881 | 77 | 3,937.0 | 31,263.2 | 2,879.809 | 6.9408 |
| 23 | 44,022 | 1,070,981 | 7,805.008 | 23.3284 | 78 | 3,602.5 | 27,326.2 | 2,678.421 | 6.5853 |
| 24 | 42,500 | 1,026,959 | 7,772.161 | 23.1636 | 79 | 3,277.4 | 23,723.7 | 2,475.128 | 6.2386 |
| 25 | 41,031 | 984,459 | 7,740.002 | 22.9931 | 80 | 2,962.9 | 20,446.3 | 2,271.438 | 5.9009 |
| 26 | 39,611 | 943,428 | 7,708.113 | 22.8170 | 81 | 2,659.5 | 17,483.4 | 2,068.287 | 5.5739 |
| 27 | 38,240 | 903,816 | 7,676.117 | 22.6354 | 82 | 2,368.3 | 14,823.9 | 1,867.003 | 5.2593 |
| 28 | 36,915 | 865,576 | 7,644.439 | 22.4477 | 83 | 2,091.1 | 12,455.6 | 1,669.938 | 4.9564 |
| 29 | 35,634 | 828,661 | 7,611.989 | 22.2546 | 84 | 1,830.1 | 10,364.5 | 1,479.647 | 4.6632 |
| 30 | 34,397 | 793,027 | 7,579.212 | 22.0554 | 85 | 1,586.5 | 8,534.4 | 1,297.940 | 4.3792 |
| 31 | 33,199 | 758,630 | 7,545.133 | 21.8508 | 86 | 1,360.0 | 6,947.8 | 1,125.024 | 4.1088 |
| 32 | 32,041 | 725,431 | 7,509.878 | 21.6405 | 87 | 1,150.2 | 5,587.8 | 961.265 | 3.8580 |
| 33 | 30,921 | 693,390 | 7,472.924 | 21.4246 | 88 | 959.26 | 4,437.62 | 809.196 | 3.6261 |
| 34 | 29,837 | 662,469 | 7,434.735 | 21.2029 | 89 | 789.07 | 3,478.36 | 671.443 | 3.4082 |
| 35 | 28,788 | 632,632 | 7,394.239 | 20.9759 | 90 | 640.37 | 2,689.29 | 549.429 | 3.1996 |
| 36 | 27,772 | 603,844 | 7,352.213 | 20.7429 | 91 | 511.88 | 2,048.92 | 442.596 | 3.0027 |
| 37 | 26,788 | 576,072 | 7,307.688 | 20.5045 | 92 | 402.03 | 1,537.04 | 350.056 | 2.8232 |
| 38 | 25,836 | 549,284 | 7,261.151 | 20.2604 | 93 | 309.80 | 1,135.00 | 271.414 | 2.6637 |
| 39 | 24,913 | 523,448 | 7,212.006 | 20.0109 | 94 | 234.21 | 825.21 | 206.308 | 2.5233 |
| 40 | 24,019 | 498,535 | 7,160.228 | 19.7559 | 95 | 173.82 | 590.99 | 153.838 | 2.4000 |
| 41 | 23,153 | 474,516 | 7,106.297 | 19.4950 | 96 | 126.67 | 417.17 | 112.560 | 2.2934 |
| 42 | 22,313 | 451,363 | 7,049.946 | 19.2283 | 97 | 90.748 | 290.503 | 80.924 | 2.2012 |
| 43 | 21,500 | 429,050 | 6,991.172 | 18.9557 | 98 | 64.016 | 199.755 | 57.261 | 2.1204 |
| 44 | 20,711 | 407,549 | 6,929.323 | 18.6777 | 99 | 44.531 | 135.739 | 39.940 | 2.0482 |
| 45 | 19,946 | 386,838 | 6,864.462 | 18.3943 | 100 | 30.585 | 91.208 | 27.501 | 1.9821 |
| 46 | 19,203 | 366,892 | 6,796.247 | 18.1058 | 101 | 20.723 | 60.623 | 18.673 | 1.9254 |
| 47 | 18,482 | 347,689 | 6,724.780 | 17.8119 | 102 | 13.887 | 39.900 | 12.538 | 1.8732 |
| 48 | 17,783 | 329,207 | 6,650.551 | 17.5123 | 103 | 9.1954 | 26.0132 | 8.3157 | 1.8289 |
| 49 | 17,105 | 311,424 | 6,573.643 | 17.2067 | 104 | 6.0347 | 16.8178 | 5.4660 | 1.7868 |
| 50 | 16,446 | 294,319 | 6,493.606 | 16.8956 | 105 | 3.9141 | 10.7831 | 3.5494 | 1.7549 |
| 51 | 15,807 | 277,872 | 6,410.567 | 16.5788 | 106 | 2.5298 | 6.8690 | 2.2976 | 1.7152 |
| 52 | 15,186 | 262,065 | 6,324.151 | 16.2567 | 107 | 1.6127 | 4.3391 | 1.4660 | 1.6905 |
| 53 | 14,583 | 246,879 | 6,234.521 | 15.9291 | 108 | 1.0226 | 2.7264 | .9304 | 1.6662 |
| 54 | 13,997 | 232,296 | 6,141.524 | 15.5962 | 109 | .63513 | 1.70382 | .57751 | 1.6826 |

TABLE 14. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 4 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,391,442 | 8,021.473 | 22.9144 | 55 | 10,301 | 158,849 | 4,191.395 | 14.4208 |
| 1 | 94,475 | 2,291,442 | 6,342.627 | 23.2545 | 56 | 9,828.7 | 148,548.1 | 4,115.329 | 14.1137 |
| 2 | 90,735 | 2,196,967 | 6,236.303 | 23.2130 | 57 | 9,372.3 | 138,719.4 | 4,036.949 | 13.8010 |
| 3 | 87,179 | 2,106,232 | 6,169.628 | 23.1600 | 58 | 8,931.2 | 129,347.1 | 3,956.341 | 13.4826 |
| 4 | 83,775 | 2,019,053 | 6,119.194 | 23.1009 | 59 | 8,505.2 | 120,415.8 | 3,873.790 | 13.1580 |
| 5 | 80,512 | 1,935,278 | 6,078.098 | 23.0372 | 60 | 8,093.3 | 111,910.7 | 3,789.091 | 12.8275 |
| 6 | 77,382 | 1,854,766 | 6,044.905 | 22.9689 | 61 | 7,695.4 | 103,817.3 | 3,702.440 | 12.4908 |
| 7 | 74,378 | 1,777,384 | 6,016.788 | 22.8967 | 62 | 7,310.7 | 96,121.9 | 3,613.672 | 12.1482 |
| 8 | 71,492 | 1,703,006 | 5,991.944 | 22.8209 | 63 | 6,938.2 | 88,811.2 | 3,522.403 | 11.8003 |
| 9 | 68,721 | 1,631,514 | 5,970.867 | 22.7410 | 64 | 6,577.3 | 81,873.0 | 3,428.307 | 11.4479 |
| 10 | 66,059 | 1,562,793 | 5,951.951 | 22.6574 | 65 | 6,227.0 | 75,295.7 | 3,331.031 | 11.0918 |
| 11 | 63,502 | 1,496,733 | 5,935.711 | 22.5697 | 66 | 5,887.1 | 69,068.7 | 3,230.586 | 10.7323 |
| 12 | 61,044 | 1,433,231 | 5,920.097 | 22.4785 | 67 | 5,557.0 | 63,181.6 | 3,126.924 | 10.3698 |
| 13 | 58,680 | 1,372,187 | 5,903.881 | 22.3841 | 68 | 5,236.2 | 57,624.7 | 3,019.817 | 10.0052 |
| 14 | 56,405 | 1,313,506 | 5,885.979 | 22.2869 | 69 | 4,924.3 | 52,388.5 | 2,909.350 | 9.6388 |
| 15 | 54,214 | 1,257,101 | 5,863.769 | 22.1878 | 70 | 4,620.9 | 47,464.2 | 2,795.360 | 9.2716 |
| 16 | 52,103 | 1,202,887 | 5,838.141 | 22.0867 | 71 | 4,326.2 | 42,843.3 | 2,678.407 | 8.9032 |
| 17 | 50,070 | 1,150,784 | 5,808.879 | 21.9836 | 72 | 4,040.1 | 38,517.1 | 2,558.649 | 8.5338 |
| 18 | 48,112 | 1,100,714 | 5,777.287 | 21.8780 | 73 | 3,761.7 | 34,477.0 | 2,435.675 | 8.1652 |
| 19 | 46,230 | 1,052,602 | 5,745.486 | 21.7687 | 74 | 3,490.3 | 30,715.3 | 2,308.977 | 7.8001 |
| 20 | 44,421 | 1,006,372 | 5,713.995 | 21.6555 | 75 | 3,225.5 | 27,225.0 | 2,178.338 | 7.4407 |
| 21 | 42,681 | 961,951 | 5,683.276 | 21.5379 | 76 | 2,967.3 | 23,999.5 | 2,044.196 | 7.0881 |
| 22 | 41,010 | 919,270 | 5,653.318 | 21.4158 | 77 | 2,716.5 | 21,032.3 | 1,907.552 | 6.7425 |
| 23 | 39,403 | 878,260 | 5,623.700 | 21.2892 | 78 | 2,473.7 | 18,315.8 | 1,769.265 | 6.4041 |
| 24 | 37,858 | 838,857 | 5,594.441 | 21.1579 | 79 | 2,239.7 | 15,842.1 | 1,630.342 | 6.0734 |
| 25 | 36,374 | 800,999 | 5,565.932 | 21.0214 | 80 | 2,015.0 | 13,602.4 | 1,491.816 | 5.7506 |
| 26 | 34,946 | 764,625 | 5,537.798 | 20.8799 | 81 | 1,800.0 | 11,587.4 | 1,354.321 | 5.4375 |
| 27 | 33,574 | 729,679 | 5,509.706 | 20.7333 | 82 | 1,595.2 | 9,787.4 | 1,218.745 | 5.1356 |
| 28 | 32,255 | 696,104 | 5,482.027 | 20.5811 | 83 | 1,401.7 | 8,192.2 | 1,086.648 | 4.8444 |
| 29 | 30,986 | 663,849 | 5,453.810 | 20.4238 | 84 | 1,220.9 | 6,790.5 | 959.705 | 4.5620 |
| 30 | 29,766 | 632,863 | 5,425.444 | 20.2610 | 85 | 1,053.3 | 5,569.6 | 839.072 | 4.2878 |
| 31 | 28,592 | 603,096 | 5,396.095 | 20.0931 | 86 | 898.53 | 4,516.34 | 724.827 | 4.0264 |
| 32 | 27,462 | 574,504 | 5,365.879 | 19.9198 | 87 | 756.30 | 3,617.81 | 617.151 | 3.7836 |
| 33 | 26,374 | 547,042 | 5,334.358 | 19.7414 | 88 | 627.70 | 2,861.51 | 517.644 | 3.5587 |
| 34 | 25,328 | 520,668 | 5,301.941 | 19.5573 | 89 | 513.85 | 2,233.81 | 427.937 | 3.3472 |
| 35 | 24,319 | 495,340 | 5,267.730 | 19.3682 | 90 | 415.01 | 1,719.95 | 348.862 | 3.1443 |
| 36 | 23,349 | 471,021 | 5,232.398 | 19.1734 | 91 | 330.15 | 1,304.94 | 279.958 | 2.9526 |
| 37 | 22,413 | 447,672 | 5,195.145 | 18.9735 | 92 | 258.05 | 974.79 | 220.560 | 2.7775 |
| 38 | 21,513 | 425,259 | 5,156.396 | 18.7680 | 93 | 197.89 | 716.74 | 170.325 | 2.6219 |
| 39 | 20,644 | 403,746 | 5,115.671 | 18.5572 | 94 | 148.89 | 518.85 | 128.936 | 2.4847 |
| 40 | 19,808 | 383,102 | 5,072.972 | 18.3411 | 95 | 109.97 | 369.96 | 95.741 | 2.3642 |
| 41 | 19,002 | 363,294 | 5,028.710 | 18.1192 | 96 | 79.751 | 259.987 | 69.752 | 2.2600 |
| 42 | 18,225 | 344,293 | 4,982.685 | 17.8915 | 97 | 56.861 | 180.236 | 49.929 | 2.1698 |
| 43 | 17,476 | 326,068 | 4,934.911 | 17.6581 | 98 | 39.919 | 123.375 | 35.174 | 2.0906 |
| 44 | 16,754 | 308,592 | 4,884.880 | 17.4192 | 99 | 27.635 | 83.456 | 24.425 | 2.0200 |
| 45 | 16,057 | 291,838 | 4,832.665 | 17.1749 | 100 | 18.889 | 55.821 | 16.742 | 1.9552 |
| 46 | 15,385 | 275,781 | 4,778.013 | 16.9253 | 101 | 12.737 | 36.932 | 11.316 | 1.8997 |
| 47 | 14,736 | 260,396 | 4,721.031 | 16.6704 | 102 | 8.4941 | 24.1955 | 7.5635 | 1.8485 |
| 48 | 14,111 | 245,660 | 4,662.132 | 16.4096 | 103 | 5.5975 | 15.7014 | 4.9936 | 1.8051 |
| 49 | 13,507 | 231,549 | 4,601.400 | 16.1427 | 104 | 3.6558 | 10.1039 | 3.2672 | 1.7638 |
| 50 | 12,925 | 218,042 | 4,538.502 | 15.8701 | 105 | 2.3598 | 6.4481 | 2.1118 | 1.7325 |
| 51 | 12,363 | 205,117 | 4,473.558 | 15.5916 | 106 | 1.5179 | 4.0883 | 1.3606 | 1.6934 |
| 52 | 11,820 | 192,755 | 4,406.298 | 15.3076 | 107 | .96296 | 2.57041 | .86410 | 1.6693 |
| 53 | 11,296 | 180,935 | 4,336.871 | 15.0177 | 108 | .60764 | 1.60744 | .54581 | 1.6454 |
| 54 | 10,790 | 169,639 | 4,265.183 | 14.7222 | 109 | .37560 | .99980 | .33714 | 1.6619 |

TABLE 15. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 4.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,172,618 | 6,442.298 | 20.7262 | 55 | 7,912.5 | 115,967.5 | 2,918.725 | 13.6562 |
| 1 | 94,023 | 2,072,618 | 4,771.484 | 21.0437 | 56 | 7,513.7 | 108,055.0 | 2,860.575 | 13.3811 |
| 2 | 89,869 | 1,978,595 | 4,666.175 | 21.0165 | 57 | 7,130.5 | 100,541.3 | 2,800.944 | 13.1002 |
| 3 | 85,933 | 1,888,726 | 4,600.453 | 20.9790 | 58 | 6,762.4 | 93,410.8 | 2,739.910 | 12.8133 |
| 4 | 82,183 | 1,802,793 | 4,550.978 | 20.9363 | 59 | 6,409.0 | 86,648.4 | 2,677.705 | 12.5199 |
| 5 | 78,604 | 1,720,610 | 4,510.855 | 20.8896 | 60 | 6,069.5 | 80,239.5 | 2,614.187 | 12.2202 |
| 6 | 75,187 | 1,642,006 | 4,478.604 | 20.8390 | 61 | 5,743.4 | 74,170.0 | 2,549.515 | 11.9139 |
| 7 | 71,922 | 1,566,819 | 4,451.415 | 20.7849 | 62 | 5,430.2 | 68,426.6 | 2,483.581 | 11.6012 |
| 8 | 68,801 | 1,494,896 | 4,427.507 | 20.7278 | 63 | 5,128.9 | 62,956.4 | 2,416.113 | 11.2827 |
| 9 | 65,818 | 1,426,095 | 4,407.320 | 20.6672 | 64 | 4,838.8 | 57,867.5 | 2,346.887 | 10.9591 |
| 10 | 62,966 | 1,360,277 | 4,389.290 | 20.6034 | 65 | 4,559.2 | 53,028.7 | 2,275.666 | 10.6311 |
| 11 | 60,239 | 1,297,311 | 4,373.885 | 20.5361 | 66 | 4,289.7 | 48,469.5 | 2,202.475 | 10.2991 |
| 12 | 57,630 | 1,237,073 | 4,359.143 | 20.4657 | 67 | 4,029.8 | 44,179.8 | 2,127.302 | 9.9633 |
| 13 | 55,133 | 1,179,442 | 4,343.908 | 20.3926 | 68 | 3,779.0 | 40,150.1 | 2,050.003 | 9.6247 |
| 14 | 52,742 | 1,124,309 | 4,327.169 | 20.3170 | 69 | 3,536.9 | 36,371.1 | 1,970.659 | 9.2834 |
| 15 | 50,451 | 1,071,567 | 4,306.500 | 20.2400 | 70 | 3,303.1 | 32,834.2 | 1,889.178 | 8.9405 |
| 16 | 48,254 | 1,021,116 | 4,282.765 | 20.1612 | 71 | 3,077.7 | 29,531.1 | 1,805.978 | 8.5953 |
| 17 | 46,149 | 972,862 | 4,255.794 | 20.0807 | 72 | 2,860.3 | 26,453.5 | 1,721.190 | 8.2484 |
| 18 | 44,133 | 926,712 | 4,226.815 | 19.9981 | 73 | 2,650.5 | 23,593.1 | 1,634.543 | 7.9013 |
| 19 | 42,204 | 882,579 | 4,197.784 | 19.9124 | 74 | 2,447.5 | 20,942.6 | 1,545.698 | 7.5566 |
| 20 | 40,358 | 840,376 | 4,169.173 | 19.8232 | 75 | 2,251.0 | 18,495.1 | 1,454.528 | 7.2165 |
| 21 | 38,592 | 800,018 | 4,141.398 | 19.7302 | 76 | 2,060.9 | 16,244.1 | 1,361.361 | 6.8822 |
| 22 | 36,903 | 761,426 | 4,114.440 | 19.6331 | 77 | 1,877.7 | 14,183.3 | 1,266.911 | 6.5536 |
| 23 | 35,287 | 724,523 | 4,087.915 | 19.5320 | 78 | 1,701.7 | 12,305.6 | 1,171.783 | 6.2314 |
| 24 | 33,742 | 689,236 | 4,061.837 | 19.4267 | 79 | 1,533.3 | 10,603.9 | 1,076.674 | 5.9157 |
| 25 | 32,264 | 655,494 | 4,036.550 | 19.3168 | 80 | 1,372.9 | 9,070.6 | 982.290 | 5.6069 |
| 26 | 30,849 | 623,230 | 4,011.714 | 19.2024 | 81 | 1,220.5 | 7,697.7 | 889.058 | 5.3068 |
| 27 | 29,496 | 592,381 | 3,987.034 | 19.0833 | 82 | 1,076.5 | 6,477.2 | 797.566 | 5.0169 |
| 28 | 28,202 | 562,885 | 3,962.834 | 18.9591 | 83 | 941.41 | 5,400.68 | 708.849 | 4.7368 |
| 29 | 26,963 | 534,683 | 3,938.281 | 18.8303 | 84 | 816.03 | 4,459.27 | 624.001 | 4.4646 |
| 30 | 25,777 | 507,720 | 3,913.717 | 18.6964 | 85 | 700.64 | 3,643.24 | 543.756 | 4.1999 |
| 31 | 24,642 | 481,943 | 3,888.422 | 18.5578 | 86 | 594.84 | 2,942.60 | 468.125 | 3.9469 |
| 32 | 23,555 | 457,301 | 3,862.505 | 18.4143 | 87 | 498.28 | 2,347.76 | 397.183 | 3.7117 |
| 33 | 22,514 | 433,746 | 3,835.598 | 18.2659 | 88 | 411.58 | 1,849.47 | 331.937 | 3.4936 |
| 34 | 21,517 | 411,232 | 3,808.059 | 18.1123 | 89 | 335.32 | 1,437.89 | 273.399 | 3.2882 |
| 35 | 20,561 | 389,715 | 3,779.135 | 17.9540 | 90 | 269.52 | 1,102.58 | 222.044 | 3.0908 |
| 36 | 19,646 | 369,154 | 3,749.405 | 17.7903 | 91 | 213.38 | 833.05 | 177.510 | 2.9040 |
| 37 | 18,769 | 349,508 | 3,718.210 | 17.6218 | 92 | 165.99 | 619.67 | 139.303 | 2.7332 |
| 38 | 17,928 | 330,740 | 3,685.917 | 17.4479 | 93 | 126.68 | 453.68 | 107.145 | 2.5813 |
| 39 | 17,122 | 312,811 | 3,652.140 | 17.2690 | 94 | 94.858 | 327.002 | 80.777 | 2.4473 |
| 40 | 16,350 | 295,689 | 3,616.894 | 17.0850 | 95 | 69.726 | 232.144 | 59.729 | 2.3294 |
| 41 | 15,609 | 279,339 | 3,580.534 | 16.8955 | 96 | 50.324 | 162.418 | 43.330 | 2.2275 |
| 42 | 14,900 | 263,729 | 3,542.906 | 16.7003 | 97 | 35.708 | 112.094 | 30.881 | 2.1392 |
| 43 | 14,219 | 248,830 | 3,504.035 | 16.4996 | 98 | 24.949 | 76.386 | 21.659 | 2.0617 |
| 44 | 13,566 | 234,611 | 3,463.523 | 16.2935 | 99 | 17.189 | 51.437 | 14.974 | 1.9925 |
| 45 | 12,940 | 221,044 | 3,421.444 | 16.0821 | 100 | 11.693 | 34.248 | 10.218 | 1.9290 |
| 46 | 12,339 | 208,104 | 3,377.612 | 15.8655 | 101 | 7.8466 | 22.5556 | 6.8753 | 1.8746 |
| 47 | 11,762 | 195,765 | 3,332.130 | 15.6436 | 102 | 5.2078 | 14.7090 | 4.5744 | 1.8244 |
| 48 | 11,209 | 184,003 | 3,285.343 | 15.4158 | 103 | 3.4155 | 9.5012 | 3.0063 | 1.7818 |
| 49 | 10,678 | 172,794 | 3,237.331 | 15.1819 | 104 | 2.2200 | 6.0857 | 1.9580 | 1.7413 |
| 50 | 10,169 | 162,116 | 3,187.844 | 14.9423 | 105 | 1.4261 | 3.8657 | 1.2597 | 1.7106 |
| 51 | 9,680.2 | 151,946.8 | 3,136.991 | 14.6967 | 106 | .91294 | 2.43958 | .80789 | 1.6722 |
| 52 | 9,210.9 | 142,266.6 | 3,084.578 | 14.4455 | 107 | .57641 | 1.52664 | .51067 | 1.6485 |
| 53 | 8,760.4 | 133,055.8 | 3,030.735 | 14.1883 | 108 | .36198 | .95022 | .32106 | 1.6250 |
| 54 | 8,327.8 | 124,295.3 | 2,975.404 | 13.9253 | 109 | .22268 | .58824 | .19735 | 1.6416 |

TABLE 16. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,988,445 | 5,312.144 | 18.8844 | 55 | 6,085.6 | 84,930.2 | 2,041.262 | 12.9560 |
| 1 | 93,575 | 1,888,445 | 3,649.287 | 15.1810 | 56 | 5,751.3 | 78,844.7 | 1,996.752 | 12.7091 |
| 2 | 89,015 | 1,794,870 | 3,544.978 | 15.1637 | 57 | 5,432.0 | 73,093.4 | 1,951.325 | 12.4562 |
| 3 | 84,711 | 1,705,855 | 3,480.190 | 15.1373 | 58 | 5,127.0 | 67,661.5 | 1,905.051 | 12.1970 |
| 4 | 80,629 | 1,621,143 | 3,431.651 | 15.1062 | 59 | 4,835.9 | 62,534.4 | 1,858.114 | 11.9312 |
| 5 | 76,750 | 1,540,514 | 3,392.474 | 15.0718 | 60 | 4,558.0 | 57,698.5 | 1,810.414 | 11.6588 |
| 6 | 73,064 | 1,463,764 | 3,361.133 | 15.0339 | 61 | 4,292.6 | 53,140.5 | 1,762.079 | 11.3796 |
| 7 | 69,559 | 1,390,700 | 3,334.838 | 15.0932 | 62 | 4,039.1 | 48,847.9 | 1,713.035 | 11.0937 |
| 8 | 66,223 | 1,321,141 | 3,311.826 | 15.0498 | 63 | 3,796.8 | 44,808.8 | 1,663.089 | 10.8016 |
| 9 | 63,050 | 1,254,918 | 3,292.487 | 15.0034 | 64 | 3,565.0 | 41,012.0 | 1,612.087 | 10.5039 |
| 10 | 60,031 | 1,191,868 | 3,275.298 | 15.8542 | 65 | 3,343.1 | 37,446.9 | 1,559.863 | 10.2014 |
| 11 | 57,158 | 1,131,837 | 3,260.681 | 15.8020 | 66 | 3,130.4 | 34,103.9 | 1,506.451 | 9.8943 |
| 12 | 54,422 | 1,074,679 | 3,246.760 | 15.7472 | 67 | 2,926.8 | 30,973.4 | 1,451.854 | 9.5828 |
| 13 | 51,816 | 1,020,257 | 3,232.441 | 15.6900 | 68 | 2,731.5 | 28,046.7 | 1,395.980 | 9.2677 |
| 14 | 49,333 | 968,441 | 3,216.784 | 15.6307 | 69 | 2,544.4 | 25,315.1 | 1,338.901 | 8.9494 |
| 15 | 46,965 | 919,108 | 3,197.543 | 15.5702 | 70 | 2,364.9 | 22,770.7 | 1,280.564 | 8.6287 |
| 16 | 44,706 | 872,143 | 3,175.554 | 15.5083 | 71 | 2,193.0 | 20,405.9 | 1,221.280 | 8.3051 |
| 17 | 42,552 | 827,437 | 3,150.685 | 15.4451 | 72 | 2,028.4 | 18,212.9 | 1,161.152 | 7.9788 |
| 18 | 40,500 | 784,885 | 3,124.092 | 15.3801 | 73 | 1,870.7 | 16,184.4 | 1,099.997 | 7.6516 |
| 19 | 38,544 | 744,385 | 3,097.578 | 15.3124 | 74 | 1,719.2 | 14,313.8 | 1,037.591 | 7.3258 |
| 20 | 36,683 | 705,841 | 3,071.572 | 15.2416 | 75 | 1,573.6 | 12,594.6 | 973.856 | 7.0037 |
| 21 | 34,911 | 669,158 | 3,046.446 | 15.1675 | 76 | 1,433.8 | 11,021.0 | 909.036 | 6.6863 |
| 22 | 33,224 | 634,246 | 3,022.175 | 15.0898 | 77 | 1,300.2 | 9,587.1 | 843.635 | 6.3738 |
| 23 | 31,619 | 601,022 | 2,998.408 | 15.0086 | 78 | 1,172.7 | 8,286.9 | 778.079 | 6.0666 |
| 24 | 30,090 | 569,404 | 2,975.153 | 14.9236 | 79 | 1,051.6 | 7,114.3 | 712.848 | 5.7650 |
| 25 | 28,634 | 539,314 | 2,952.710 | 14.8345 | 80 | 937.12 | 6,062.63 | 648.423 | 5.4694 |
| 26 | 27,249 | 510,680 | 2,930.773 | 14.7413 | 81 | 829.16 | 5,125.51 | 585.086 | 5.1816 |
| 27 | 25,930 | 483,431 | 2,909.078 | 14.6440 | 82 | 727.82 | 4,296.35 | 523.229 | 4.9031 |
| 28 | 24,674 | 457,501 | 2,887.905 | 14.5421 | 83 | 633.46 | 3,568.54 | 463.532 | 4.6334 |
| 29 | 23,477 | 432,828 | 2,866.526 | 14.4360 | 84 | 546.48 | 2,935.07 | 406.712 | 4.3709 |
| 30 | 22,338 | 409,350 | 2,845.239 | 14.3252 | 85 | 466.97 | 2,388.60 | 353.229 | 4.1151 |
| 31 | 21,253 | 387,012 | 2,823.423 | 14.2101 | 86 | 394.57 | 1,921.63 | 303.061 | 3.8702 |
| 32 | 20,218 | 365,760 | 2,801.177 | 14.0905 | 87 | 328.95 | 1,527.06 | 256.229 | 3.6423 |
| 33 | 19,233 | 345,541 | 2,778.192 | 13.9665 | 88 | 270.41 | 1,198.11 | 213.361 | 3.4307 |
| 34 | 18,293 | 326,309 | 2,754.778 | 13.8376 | 89 | 219.26 | 927.70 | 175.083 | 3.2311 |
| 35 | 17,398 | 308,015 | 2,730.304 | 13.7044 | 90 | 175.40 | 708.44 | 141.663 | 3.0390 |
| 36 | 16,544 | 290,618 | 2,705.269 | 13.5661 | 91 | 138.20 | 533.04 | 112.820 | 2.8569 |
| 37 | 15,730 | 274,073 | 2,679.124 | 13.4233 | 92 | 106.99 | 394.84 | 88.192 | 2.6903 |
| 38 | 14,954 | 258,343 | 2,652.187 | 13.2756 | 93 | 81.269 | 287.844 | 67.562 | 2.5419 |
| 39 | 14,214 | 243,389 | 2,624.148 | 13.1231 | 94 | 60.564 | 206.575 | 50.727 | 2.4109 |
| 40 | 13,508 | 229,175 | 2,595.028 | 12.9657 | 95 | 44.305 | 146.012 | 37.353 | 2.2956 |
| 41 | 12,835 | 215,667 | 2,565.131 | 12.8031 | 96 | 31.825 | 101.706 | 26.982 | 2.1958 |
| 42 | 12,193 | 202,832 | 2,534.338 | 12.6351 | 97 | 22.474 | 69.882 | 19.147 | 2.1094 |
| 43 | 11,581 | 190,639 | 2,502.681 | 12.4617 | 98 | 15.628 | 47.407 | 13.370 | 2.0335 |
| 44 | 10,996 | 179,058 | 2,469.843 | 12.2833 | 99 | 10.715 | 31.780 | 9.202 | 1.9658 |
| 45 | 10,439 | 168,062 | 2,435.897 | 12.0997 | 100 | 7.2547 | 21.0640 | 6.2516 | 1.9035 |
| 46 | 9,906.6 | 157,622.8 | 2,400.706 | 11.9110 | 101 | 4.8451 | 13.8093 | 4.1876 | 1.8501 |
| 47 | 9,398.5 | 147,716.3 | 2,364.365 | 11.7171 | 102 | 3.2004 | 8.9642 | 2.7736 | 1.8009 |
| 48 | 8,913.7 | 138,317.8 | 2,327.158 | 11.5174 | 103 | 2.0890 | 5.7637 | 1.8145 | 1.7592 |
| 49 | 8,451.3 | 129,404.1 | 2,289.159 | 11.3118 | 104 | 1.3513 | 3.6748 | 1.1764 | 1.7194 |
| 50 | 8,009.8 | 120,952.8 | 2,250.178 | 11.1005 | 105 | .86395 | 2.32344 | .75331 | 1.6893 |
| 51 | 7,588.6 | 112,943.0 | 2,210.314 | 10.8833 | 106 | .55043 | 1.45949 | .48093 | 1.6515 |
| 52 | 7,186.3 | 105,354.4 | 2,169.421 | 10.6605 | 107 | .34587 | .90905 | .30259 | 1.6282 |
| 53 | 6,802.3 | 98,168.1 | 2,127.613 | 10.4316 | 108 | .21617 | .56317 | .18935 | 1.6052 |
| 54 | 6,435.6 | 91,365.8 | 2,084.854 | 10.1969 | 109 | .13235 | .34700 | .11582 | 1.6218 |

TABLE 17. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 5.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,831,958 | 4,495.055 | 17.3196 | 55 | 4,686.3 | 62,390.7 | 1,433.666 | 12.3135 |
| 1 | 93,132 | 1,731,958 | 2,840.079 | 17.5969 | 56 | 4,407.8 | 57,704.5 | 1,399.553 | 12.0913 |
| 2 | 88,173 | 1,638,827 | 2,736.757 | 17.5864 | 57 | 4,143.4 | 53,296.6 | 1,364.902 | 11.8630 |
| 3 | 83,513 | 1,550,654 | 2,672.886 | 17.5679 | 58 | 3,892.3 | 49,153.2 | 1,329.772 | 11.6284 |
| 4 | 79,111 | 1,467,141 | 2,625.260 | 17.5453 | 59 | 3,653.9 | 45,261.0 | 1,294.308 | 11.3871 |
| 5 | 74,949 | 1,388,030 | 2,587.003 | 17.5197 | 60 | 3,427.5 | 41,607.1 | 1,258.438 | 11.1391 |
| 6 | 71,011 | 1,313,081 | 2,556.543 | 17.4912 | 61 | 3,212.7 | 38,179.6 | 1,222.263 | 10.8841 |
| 7 | 67,284 | 1,242,070 | 2,531.108 | 17.4602 | 62 | 3,008.6 | 34,966.9 | 1,185.732 | 10.6221 |
| 8 | 63,754 | 1,174,786 | 2,508.953 | 17.4269 | 63 | 2,814.8 | 31,958.2 | 1,148.705 | 10.3537 |
| 9 | 60,412 | 1,111,033 | 2,490.424 | 17.3911 | 64 | 2,630.4 | 29,143.5 | 1,111.073 | 10.0795 |
| 10 | 57,246 | 1,050,621 | 2,474.032 | 17.3528 | 65 | 2,454.9 | 26,513.1 | 1,072.724 | 9.8000 |
| 11 | 54,247 | 993,375 | 2,460.160 | 17.3119 | 66 | 2,287.9 | 24,058.1 | 1,033.687 | 9.5154 |
| 12 | 51,406 | 939,128 | 2,447.010 | 17.2687 | 67 | 2,128.9 | 21,770.2 | 993.974 | 9.2260 |
| 13 | 48,713 | 887,721 | 2,433.549 | 17.2236 | 68 | 1,977.5 | 19,641.3 | 953.524 | 8.9325 |
| 14 | 46,159 | 839,009 | 2,418.899 | 17.1766 | 69 | 1,833.3 | 17,663.8 | 912.398 | 8.6352 |
| 15 | 43,734 | 792,850 | 2,400.982 | 17.1288 | 70 | 1,695.9 | 15,830.6 | 870.564 | 8.3349 |
| 16 | 41,434 | 749,116 | 2,380.602 | 17.0797 | 71 | 1,565.1 | 14,134.7 | 828.253 | 8.0310 |
| 17 | 39,251 | 707,682 | 2,357.663 | 17.0296 | 72 | 1,440.8 | 12,569.6 | 785.543 | 7.7239 |
| 18 | 37,180 | 668,431 | 2,333.249 | 16.9781 | 73 | 1,322.5 | 11,128.8 | 742.310 | 7.4151 |
| 19 | 35,218 | 631,250 | 2,309.023 | 16.9242 | 74 | 1,209.6 | 9,806.3 | 698.401 | 7.1068 |
| 20 | 33,358 | 596,032 | 2,285.375 | 16.8677 | 75 | 1,101.9 | 8,556.6 | 653.770 | 6.8014 |
| 21 | 31,596 | 562,674 | 2,262.634 | 16.8082 | 76 | 999.31 | 7,494.71 | 608.593 | 6.4999 |
| 22 | 29,927 | 531,078 | 2,240.772 | 16.7456 | 77 | 901.85 | 6,495.40 | 563.229 | 6.2023 |
| 23 | 28,346 | 501,151 | 2,219.465 | 16.6799 | 78 | 809.58 | 5,593.55 | 517.971 | 5.9092 |
| 24 | 26,847 | 472,805 | 2,198.716 | 16.6109 | 79 | 722.55 | 4,783.97 | 473.152 | 5.6209 |
| 25 | 25,428 | 445,957 | 2,178.786 | 16.5382 | 80 | 640.83 | 4,061.42 | 429.096 | 5.3378 |
| 26 | 24,083 | 420,530 | 2,159.398 | 16.4619 | 81 | 564.31 | 3,420.59 | 385.990 | 5.0615 |
| 27 | 22,808 | 396,447 | 2,140.314 | 16.3818 | 82 | 493.00 | 2,856.27 | 344.090 | 4.7937 |
| 28 | 21,601 | 373,639 | 2,121.778 | 16.2976 | 83 | 427.05 | 2,363.28 | 303.846 | 4.5340 |
| 29 | 20,456 | 352,038 | 2,103.151 | 16.2097 | 84 | 366.66 | 1,936.23 | 265.722 | 4.2807 |
| 30 | 19,371 | 331,582 | 2,084.691 | 16.1175 | 85 | 311.83 | 1,569.57 | 230.007 | 4.0334 |
| 31 | 18,342 | 312,211 | 2,065.863 | 16.0214 | 86 | 262.23 | 1,257.73 | 196.665 | 3.7962 |
| 32 | 17,367 | 293,869 | 2,046.755 | 15.9212 | 87 | 217.59 | 995.50 | 165.687 | 3.5752 |
| 33 | 16,442 | 276,502 | 2,027.104 | 15.8169 | 88 | 178.02 | 777.91 | 137.466 | 3.3698 |
| 34 | 15,565 | 260,060 | 2,007.183 | 15.7082 | 89 | 143.66 | 599.89 | 112.386 | 3.1758 |
| 35 | 14,733 | 244,495 | 1,986.458 | 15.5955 | 90 | 114.38 | 456.23 | 90.593 | 2.9888 |
| 36 | 13,944 | 229,763 | 1,965.358 | 15.4781 | 91 | 89.695 | 341.854 | 71.873 | 2.8113 |
| 37 | 13,195 | 215,819 | 1,943.427 | 15.3566 | 92 | 69.111 | 252.159 | 55.965 | 2.6486 |
| 38 | 12,484 | 202,625 | 1,920.940 | 15.2303 | 93 | 52.246 | 183.048 | 42.703 | 2.5036 |
| 39 | 11,810 | 190,140 | 1,897.642 | 15.0997 | 94 | 38.750 | 130.802 | 31.931 | 2.3755 |
| 40 | 11,170 | 178,330 | 1,873.562 | 14.9645 | 95 | 28.214 | 92.052 | 23.415 | 2.2627 |
| 41 | 10,563 | 167,160 | 1,848.956 | 14.8244 | 96 | 20.170 | 63.838 | 16.842 | 2.1651 |
| 42 | 9,987.5 | 156,596.3 | 1,823.733 | 14.6792 | 97 | 14.176 | 43.669 | 11.900 | 2.0804 |
| 43 | 9,441.0 | 146,608.8 | 1,797.925 | 14.5289 | 98 | 9.8108 | 29.4924 | 8.2733 | 2.0061 |
| 44 | 8,922.2 | 137,167.7 | 1,771.281 | 14.3737 | 99 | 6.6951 | 19.6816 | 5.6691 | 1.9397 |
| 45 | 8,429.7 | 128,245.5 | 1,743.869 | 14.2136 | 100 | 4.5113 | 12.9865 | 3.8343 | 1.8787 |
| 46 | 7,961.9 | 119,815.9 | 1,715.586 | 14.0486 | 101 | 2.9987 | 8.4752 | 2.5668 | 1.8263 |
| 47 | 7,517.8 | 111,853.9 | 1,686.516 | 13.8786 | 102 | 1.9714 | 5.4765 | 1.6859 | 1.7780 |
| 48 | 7,096.2 | 104,336.2 | 1,656.896 | 13.7031 | 103 | 1.2806 | 3.5051 | 1.0979 | 1.7370 |
| 49 | 6,696.2 | 97,240.0 | 1,626.788 | 13.5217 | 104 | .82451 | 2.22451 | .70854 | 1.6980 |
| 50 | 6,316.3 | 90,543.8 | 1,596.050 | 13.3348 | 105 | .52463 | 1.39999 | .45165 | 1.6685 |
| 51 | 5,955.8 | 84,227.4 | 1,564.762 | 13.1422 | 106 | .33266 | .87536 | .28703 | 1.6313 |
| 52 | 5,613.3 | 78,271.7 | 1,532.820 | 12.9439 | 107 | .20804 | .54269 | .17975 | 1.6085 |
| 53 | 5,288.2 | 72,658.3 | 1,500.318 | 12.7397 | 108 | .12941 | .33464 | .11196 | 1.5858 |
| 54 | 4,979.4 | 67,370.2 | 1,467.235 | 12.5297 | 109 | .07885 | .20522 | .06815 | 1.6025 |

TABLE 18. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 6 PERCENT INTEREST.

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,697,805 | 3,897.834 | 15.9780 | 55 | 3,613.2 | 45,969.3 | 1,011.140 | 11.7227 |
| 1 | 92,692 | 1,597,805 | 2,250.664 | 16.2377 | 56 | 3,382.5 | 42,356.2 | 984.962 | 11.5222 |
| 2 | 87,343 | 1,505,112 | 2,148.315 | 16.2321 | 57 | 3,164.6 | 38,973.7 | 958.498 | 11.3157 |
| 3 | 82,336 | 1,417,769 | 2,085.343 | 16.2192 | 58 | 2,958.7 | 35,809.1 | 931.794 | 11.1029 |
| 4 | 77,629 | 1,335,433 | 2,038.610 | 16.2027 | 59 | 2,764.4 | 32,850.4 | 904.962 | 10.8833 |
| 5 | 73,198 | 1,257,804 | 2,001.247 | 16.1837 | 60 | 2,580.9 | 30,086.0 | 877.952 | 10.6570 |
| 6 | 69,025 | 1,184,606 | 1,971.638 | 16.1620 | 61 | 2,407.7 | 27,505.0 | 850.841 | 10.4236 |
| 7 | 65,093 | 1,115,581 | 1,947.031 | 16.1382 | 62 | 2,244.2 | 25,097.3 | 823.591 | 10.1832 |
| 8 | 61,387 | 1,050,488 | 1,925.699 | 16.1125 | 63 | 2,089.7 | 22,853.1 | 796.103 | 9.9362 |
| 9 | 57,895 | 989,101 | 1,907.942 | 16.0845 | 64 | 1,943.6 | 20,763.4 | 768.297 | 9.6831 |
| 10 | 54,602 | 931,206 | 1,892.307 | 16.0544 | 65 | 1,805.4 | 18,819.9 | 740.095 | 9.4244 |
| 11 | 51,498 | 876,604 | 1,879.137 | 16.0220 | 66 | 1,674.6 | 17,014.5 | 711.522 | 9.1603 |
| 12 | 48,571 | 825,106 | 1,866.713 | 15.9877 | 67 | 1,550.9 | 15,339.9 | 682.592 | 8.8910 |
| 13 | 45,809 | 776,535 | 1,854.055 | 15.9516 | 68 | 1,433.8 | 13,789.0 | 653.263 | 8.6173 |
| 14 | 43,202 | 730,726 | 1,840.343 | 15.9141 | 69 | 1,322.9 | 12,355.2 | 623.586 | 8.3392 |
| 15 | 40,740 | 687,524 | 1,823.653 | 15.8759 | 70 | 1,218.0 | 11,032.3 | 593.540 | 8.0576 |
| 16 | 38,415 | 646,784 | 1,804.758 | 15.8367 | 71 | 1,118.8 | 9,814.3 | 563.294 | 7.7720 |
| 17 | 36,220 | 608,369 | 1,783.590 | 15.7967 | 72 | 1,025.1 | 8,695.5 | 532.907 | 7.4825 |
| 18 | 34,147 | 572,149 | 1,761.168 | 15.7555 | 73 | 936.46 | 7,670.36 | 502.293 | 7.1908 |
| 19 | 32,192 | 538,002 | 1,739.023 | 15.7123 | 74 | 852.51 | 6,733.89 | 471.348 | 6.8989 |
| 20 | 30,348 | 505,810 | 1,717.509 | 15.6669 | 75 | 772.95 | 5,881.38 | 440.041 | 6.6090 |
| 21 | 28,610 | 475,462 | 1,696.918 | 15.6188 | 76 | 697.66 | 5,108.43 | 408.502 | 6.3223 |
| 22 | 26,971 | 446,852 | 1,677.215 | 15.5680 | 77 | 626.65 | 4,410.77 | 376.980 | 6.0387 |
| 23 | 25,425 | 419,881 | 1,658.104 | 15.5145 | 78 | 559.88 | 3,784.13 | 345.682 | 5.7588 |
| 24 | 23,967 | 394,456 | 1,639.581 | 15.4581 | 79 | 497.34 | 3,224.25 | 314.832 | 5.4830 |
| 25 | 22,593 | 370,489 | 1,621.873 | 15.3984 | 80 | 439.01 | 2,726.91 | 284.652 | 5.2116 |
| 26 | 21,297 | 347,896 | 1,604.727 | 15.3355 | 81 | 384.77 | 2,287.91 | 255.261 | 4.9462 |
| 27 | 20,075 | 326,599 | 1,587.931 | 15.2692 | 82 | 334.55 | 1,903.14 | 226.827 | 4.6886 |
| 28 | 18,922 | 306,524 | 1,571.693 | 15.1993 | 83 | 288.43 | 1,568.59 | 199.646 | 4.4383 |
| 29 | 17,835 | 287,602 | 1,555.452 | 15.1259 | 84 | 246.48 | 1,280.16 | 174.018 | 4.1938 |
| 30 | 16,809 | 269,767 | 1,539.434 | 15.0487 | 85 | 208.63 | 1,033.68 | 150.123 | 3.9545 |
| 31 | 15,842 | 252,958 | 1,523.173 | 14.9680 | 86 | 174.62 | 825.04 | 127.920 | 3.7248 |
| 32 | 14,928 | 237,117 | 1,506.747 | 14.8835 | 87 | 144.21 | 650.42 | 107.390 | 3.5104 |
| 33 | 14,067 | 222,188 | 1,489.936 | 14.7954 | 88 | 117.43 | 506.22 | 88.774 | 3.3109 |
| 34 | 13,253 | 208,122 | 1,472.973 | 14.7032 | 89 | 94.316 | 388.790 | 72.309 | 3.1222 |
| 35 | 12,486 | 194,868 | 1,455.409 | 14.6073 | 90 | 74.737 | 294.474 | 58.069 | 2.9401 |
| 36 | 11,761 | 182,382 | 1,437.611 | 14.5072 | 91 | 58.332 | 219.737 | 45.894 | 2.7670 |
| 37 | 11,077 | 170,621 | 1,419.200 | 14.4032 | 92 | 44.734 | 161.405 | 35.598 | 2.6081 |
| 38 | 10,431 | 159,544 | 1,400.411 | 14.2949 | 93 | 33.658 | 116.671 | 27.054 | 2.4664 |
| 39 | 9,821.4 | 149,113.0 | 1,381.037 | 14.1825 | 94 | 24.846 | 83.014 | 20.147 | 2.3411 |
| 40 | 9,245.5 | 139,291.6 | 1,361.106 | 14.0658 | 95 | 18.005 | 58.168 | 14.712 | 2.2307 |
| 41 | 8,701.9 | 130,046.1 | 1,340.836 | 13.9445 | 96 | 12.811 | 40.163 | 10.537 | 2.1351 |
| 42 | 8,188.7 | 121,344.2 | 1,320.156 | 13.8185 | 97 | 8.9615 | 27.3523 | 7.4133 | 2.0522 |
| 43 | 7,704.1 | 113,155.5 | 1,299.096 | 13.6877 | 98 | 6.1726 | 18.3908 | 5.1317 | 1.9794 |
| 44 | 7,246.4 | 105,451.3 | 1,277.456 | 13.5522 | 99 | 4.1925 | 12.2181 | 3.5009 | 1.9143 |
| 45 | 6,814.1 | 98,204.9 | 1,255.298 | 13.4121 | 100 | 2.8117 | 8.0256 | 2.3574 | 1.8544 |
| 46 | 6,405.6 | 91,390.9 | 1,232.543 | 13.2673 | 101 | 1.8601 | 5.2140 | 1.5650 | 1.8031 |
| 47 | 6,019.8 | 84,985.3 | 1,209.266 | 13.1177 | 102 | 1.2171 | 3.3539 | 1.0272 | 1.7557 |
| 48 | 5,655.4 | 78,965.5 | 1,185.660 | 12.9628 | 103 | .78690 | 2.13682 | .66595 | 1.7155 |
| 49 | 5,311.4 | 73,310.1 | 1,161.778 | 12.8024 | 104 | .50424 | 1.34992 | .42783 | 1.6771 |
| 50 | 4,986.5 | 67,998.7 | 1,137.512 | 12.6366 | 105 | .31933 | .84567 | .27147 | 1.6482 |
| 51 | 4,679.7 | 63,012.2 | 1,112.928 | 12.4651 | 106 | .20153 | .52633 | .17174 | 1.6116 |
| 52 | 4,389.8 | 58,332.5 | 1,087.949 | 12.2882 | 107 | .12544 | .32479 | .10705 | 1.5892 |
| 53 | 4,116.0 | 53,942.8 | 1,062.651 | 12.1056 | 108 | .07766 | .19935 | .06637 | 1.5669 |
| 54 | 3,857.4 | 49,826.7 | 1,037.022 | 11.9172 | 109 | .04710 | .12169 | .04021 | 1.5837 |

TABLE 19. UNITED STATES TOTAL FEMALES: 1960-71--ACTUARIAL FUNCTIONS AT 6.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|---------|
| 0 | 100,000 | 1,581,833 | 3,456.200 | 14.8183 | 55 | 2,789.2 | 33,967.8 | 716.074 | 11.1782 |
| 1 | 92,257 | 1,481,833 | 1,816.764 | 15.0620 | 56 | 2,598.9 | 31,178.6 | 695.961 | 10.9969 |
| 2 | 86,525 | 1,389,576 | 1,715.377 | 15.0598 | 57 | 2,420.0 | 28,572.0 | 675.722 | 10.8097 |
| 3 | 81,182 | 1,303,051 | 1,653.284 | 15.0509 | 58 | 2,252.0 | 26,159.7 | 655.397 | 10.6162 |
| 4 | 76,182 | 1,221,868 | 1,607.422 | 15.0389 | 59 | 2,094.2 | 23,907.7 | 635.070 | 10.4160 |
| 5 | 71,495 | 1,145,687 | 1,570.928 | 15.0246 | 60 | 1,946.0 | 21,813.4 | 614.705 | 10.2091 |
| 6 | 67,103 | 1,074,191 | 1,542.144 | 15.0081 | 61 | 1,806.9 | 19,867.4 | 594.359 | 9.9952 |
| 7 | 62,984 | 1,007,088 | 1,518.334 | 14.9896 | 62 | 1,676.3 | 18,060.5 | 574.005 | 9.7741 |
| 8 | 59,119 | 944,104 | 1,497.790 | 14.9695 | 63 | 1,553.5 | 16,384.2 | 553.569 | 9.5463 |
| 9 | 55,494 | 884,985 | 1,480.770 | 14.9474 | 64 | 1,438.2 | 14,830.6 | 532.994 | 9.3123 |
| 10 | 52,092 | 829,491 | 1,465.857 | 14.9236 | 65 | 1,329.6 | 13,392.5 | 512.223 | 9.0725 |
| 11 | 48,900 | 777,399 | 1,453.348 | 14.8977 | 66 | 1,227.5 | 12,062.9 | 491.280 | 8.8271 |
| 12 | 45,904 | 728,499 | 1,441.606 | 14.8701 | 67 | 1,131.5 | 10,835.4 | 470.173 | 8.5762 |
| 13 | 43,090 | 682,595 | 1,429.699 | 14.8410 | 68 | 1,041.1 | 9,703.9 | 448.876 | 8.3205 |
| 14 | 40,448 | 639,505 | 1,416.861 | 14.8107 | 69 | 956.14 | 8,662.76 | 427.427 | 8.0601 |
| 15 | 37,963 | 599,057 | 1,401.308 | 14.7798 | 70 | 876.17 | 7,706.62 | 405.813 | 7.7958 |
| 16 | 35,629 | 561,093 | 1,383.784 | 14.7483 | 71 | 801.04 | 6,830.45 | 384.158 | 7.5270 |
| 17 | 33,435 | 525,465 | 1,364.247 | 14.7161 | 72 | 730.50 | 6,029.41 | 362.504 | 7.2539 |
| 18 | 31,374 | 492,030 | 1,343.642 | 14.6829 | 73 | 664.20 | 5,298.91 | 340.791 | 6.9779 |
| 19 | 29,439 | 460,656 | 1,323.392 | 14.6481 | 74 | 601.82 | 4,634.71 | 318.945 | 6.7012 |
| 20 | 27,622 | 431,217 | 1,303.810 | 14.6112 | 75 | 543.09 | 4,032.90 | 296.949 | 6.4259 |
| 21 | 25,918 | 403,595 | 1,285.157 | 14.5722 | 76 | 487.89 | 3,489.81 | 274.893 | 6.1529 |
| 22 | 24,318 | 377,678 | 1,267.392 | 14.5307 | 77 | 436.17 | 3,001.92 | 252.953 | 5.8825 |
| 23 | 22,817 | 353,359 | 1,250.247 | 14.4868 | 78 | 387.87 | 2,565.76 | 231.270 | 5.6151 |
| 24 | 21,408 | 330,543 | 1,233.696 | 14.4404 | 79 | 342.92 | 2,177.89 | 209.999 | 5.3510 |
| 25 | 20,085 | 309,135 | 1,217.953 | 14.3911 | 80 | 301.28 | 1,834.97 | 189.287 | 5.0906 |
| 26 | 18,844 | 289,050 | 1,202.783 | 14.3388 | 81 | 262.82 | 1,533.69 | 169.211 | 4.8356 |
| 27 | 17,679 | 270,205 | 1,187.990 | 14.2836 | 82 | 227.45 | 1,270.87 | 149.880 | 4.5876 |
| 28 | 16,586 | 252,526 | 1,173.757 | 14.2251 | 83 | 195.17 | 1,043.43 | 131.488 | 4.3462 |
| 29 | 15,560 | 235,940 | 1,159.588 | 14.1635 | 84 | 166.00 | 848.26 | 114.228 | 4.1100 |
| 30 | 14,596 | 220,380 | 1,145.679 | 14.0986 | 85 | 139.85 | 682.26 | 98.211 | 3.8785 |
| 31 | 13,691 | 205,784 | 1,131.625 | 14.0304 | 86 | 116.50 | 542.41 | 83.398 | 3.6558 |
| 32 | 12,841 | 192,093 | 1,117.496 | 13.9588 | 87 | 95.759 | 425.903 | 69.764 | 3.4477 |
| 33 | 12,043 | 179,251 | 1,103.103 | 13.8839 | 88 | 77.611 | 330.145 | 57.461 | 3.2539 |
| 34 | 11,294 | 167,208 | 1,088.648 | 13.8053 | 89 | 62.043 | 252.534 | 46.630 | 3.0703 |
| 35 | 10,590 | 155,914 | 1,073.751 | 13.7233 | 90 | 48.933 | 190.491 | 37.306 | 2.8929 |
| 36 | 9,928.3 | 145,324.5 | 1,058.727 | 13.6374 | 91 | 38.013 | 141.559 | 29.373 | 2.7240 |
| 37 | 9,306.9 | 135,396.2 | 1,043.258 | 13.5480 | 92 | 29.014 | 103.546 | 22.694 | 2.5688 |
| 38 | 8,723.1 | 126,089.3 | 1,027.545 | 13.4546 | 93 | 21.728 | 74.532 | 17.179 | 2.4303 |
| 39 | 8,174.6 | 117,366.2 | 1,011.419 | 13.3574 | 94 | 15.964 | 52.804 | 12.741 | 2.3077 |
| 40 | 7,659.2 | 109,191.6 | 994.909 | 13.2563 | 95 | 11.514 | 36.840 | 9.266 | 2.1996 |
| 41 | 7,175.0 | 101,532.4 | 978.195 | 13.1508 | 96 | 8.1541 | 25.3262 | 6.6083 | 2.1060 |
| 42 | 6,720.1 | 94,357.4 | 961.224 | 13.0410 | 97 | 5.6773 | 17.1721 | 4.6292 | 2.0247 |
| 43 | 6,292.8 | 87,637.3 | 944.022 | 12.9266 | 98 | 3.8921 | 11.4948 | 3.1905 | 1.9534 |
| 44 | 5,891.1 | 81,344.5 | 926.429 | 12.8080 | 99 | 2.6311 | 7.6027 | 2.1671 | 1.8895 |
| 45 | 5,513.6 | 75,453.4 | 908.500 | 12.6849 | 100 | 1.7563 | 4.9716 | 1.4528 | 1.8308 |
| 46 | 5,158.8 | 69,939.7 | 890.174 | 12.5574 | 101 | 1.1564 | 3.2154 | .9602 | 1.7804 |
| 47 | 4,825.3 | 64,780.9 | 871.516 | 12.4253 | 102 | .75310 | 2.05893 | .62744 | 1.7339 |
| 48 | 4,511.9 | 59,955.7 | 852.683 | 12.2882 | 103 | .48463 | 1.30582 | .40493 | 1.6944 |
| 49 | 4,217.6 | 55,443.7 | 833.719 | 12.1458 | 104 | .30909 | .82118 | .25897 | 1.6567 |
| 50 | 3,941.0 | 51,226.1 | 814.540 | 11.9982 | 105 | .19483 | .51208 | .16357 | 1.6284 |
| 51 | 3,681.1 | 47,285.1 | 795.202 | 11.8452 | 106 | .12238 | .31725 | .10301 | 1.5924 |
| 52 | 3,436.9 | 43,603.9 | 775.645 | 11.6869 | 107 | .07581 | .19487 | .06392 | 1.5703 |
| 53 | 3,207.4 | 40,167.0 | 755.931 | 11.5231 | 108 | .04671 | .11905 | .03945 | 1.5484 |
| 54 | 2,991.8 | 36,959.6 | 736.054 | 11.3536 | 109 | .02820 | .07234 | .02378 | 1.5262 |

TABLE 20. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 7 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|---------|
| 0 | 100,000 | 1,480,795 | 3,125.539 | 13.8080 | 55 | 2,155.8 | 25,169.7 | 509.161 | 10.6755 |
| 1 | 91,826 | 1,380,795 | 1,493.763 | 14.0371 | 56 | 1,999.3 | 23,014.0 | 493.688 | 10.5112 |
| 2 | 85,718 | 1,288,969 | 1,393.317 | 14.0373 | 57 | 1,853.0 | 21,014.7 | 478.192 | 10.3410 |
| 3 | 80,049 | 1,203,251 | 1,332.095 | 14.0313 | 58 | 1,716.7 | 19,167.7 | 462.702 | 10.1647 |
| 4 | 74,768 | 1,123,201 | 1,287.084 | 14.0226 | 59 | 1,588.6 | 17,445.4 | 447.283 | 9.9818 |
| 5 | 69,841 | 1,048,434 | 1,251.435 | 14.0118 | 60 | 1,469.3 | 15,856.9 | 431.907 | 9.7923 |
| 6 | 65,244 | 978,593 | 1,223.449 | 13.9991 | 61 | 1,357.9 | 14,387.6 | 416.617 | 9.5958 |
| 7 | 60,952 | 913,350 | 1,200.407 | 13.9847 | 62 | 1,253.8 | 13,029.7 | 401.393 | 9.3921 |
| 8 | 56,945 | 852,397 | 1,180.618 | 13.9688 | 63 | 1,156.6 | 11,775.9 | 386.179 | 9.1818 |
| 9 | 53,203 | 795,452 | 1,164.300 | 13.9512 | 64 | 1,065.7 | 10,619.3 | 370.933 | 8.9651 |
| 10 | 49,708 | 742,249 | 1,150.067 | 13.9321 | 65 | 980.62 | 9,553.69 | 355.615 | 8.7425 |
| 11 | 46,445 | 692,541 | 1,138.189 | 13.9111 | 66 | 901.10 | 8,573.07 | 340.240 | 8.5141 |
| 12 | 43,395 | 646,096 | 1,127.089 | 13.8887 | 67 | 826.72 | 7,671.97 | 324.818 | 8.2800 |
| 13 | 40,545 | 602,701 | 1,115.885 | 13.8650 | 68 | 757.15 | 6,845.25 | 309.330 | 8.0408 |
| 14 | 37,880 | 562,156 | 1,103.863 | 13.8403 | 69 | 692.09 | 6,088.10 | 293.805 | 7.7967 |
| 15 | 35,388 | 524,276 | 1,089.365 | 13.8152 | 70 | 631.24 | 5,396.01 | 278.233 | 7.5482 |
| 16 | 33,056 | 488,888 | 1,073.106 | 13.7895 | 71 | 574.42 | 4,764.77 | 262.704 | 7.2949 |
| 17 | 30,876 | 455,832 | 1,055.061 | 13.7634 | 72 | 521.38 | 4,190.35 | 247.249 | 7.0370 |
| 18 | 28,837 | 424,956 | 1,036.125 | 13.7365 | 73 | 471.85 | 3,668.96 | 231.824 | 6.7757 |
| 19 | 26,932 | 396,119 | 1,017.599 | 13.7082 | 74 | 425.53 | 3,197.11 | 216.377 | 6.5132 |
| 20 | 25,152 | 369,187 | 999.769 | 13.6781 | 75 | 382.21 | 2,771.58 | 200.897 | 6.2514 |
| 21 | 23,490 | 344,035 | 982.863 | 13.6461 | 76 | 341.76 | 2,389.37 | 185.446 | 5.9914 |
| 22 | 21,937 | 320,545 | 966.837 | 13.6120 | 77 | 304.10 | 2,047.61 | 170.149 | 5.7332 |
| 23 | 20,487 | 298,608 | 951.438 | 13.5758 | 78 | 269.16 | 1,743.50 | 155.103 | 5.4775 |
| 24 | 19,132 | 278,121 | 936.652 | 13.5373 | 79 | 236.86 | 1,474.34 | 140.410 | 5.2245 |
| 25 | 17,866 | 258,990 | 922.649 | 13.4963 | 80 | 207.13 | 1,237.47 | 126.171 | 4.9745 |
| 26 | 16,684 | 241,124 | 909.218 | 13.4527 | 81 | 179.84 | 1,030.35 | 112.433 | 4.7293 |
| 27 | 15,579 | 224,440 | 896.182 | 13.4064 | 82 | 154.91 | 850.51 | 99.268 | 4.4904 |
| 28 | 14,548 | 208,861 | 883.699 | 13.3572 | 83 | 132.31 | 695.60 | 86.799 | 4.2575 |
| 29 | 13,583 | 194,314 | 871.329 | 13.3052 | 84 | 112.00 | 563.29 | 75.153 | 4.0292 |
| 30 | 12,683 | 180,730 | 859.244 | 13.2501 | 85 | 93.920 | 451.290 | 64.397 | 3.8050 |
| 31 | 11,841 | 168,047 | 847.089 | 13.1922 | 86 | 77.875 | 357.370 | 54.495 | 3.5890 |
| 32 | 11,054 | 156,207 | 834.926 | 13.1312 | 87 | 63.710 | 279.495 | 45.425 | 3.3870 |
| 33 | 10,319 | 145,152 | 822.594 | 13.0671 | 88 | 51.394 | 215.785 | 37.277 | 3.1986 |
| 34 | 9,631.2 | 134,833.9 | 810.267 | 12.9997 | 89 | 40.893 | 164.391 | 30.139 | 3.0200 |
| 35 | 8,988.5 | 125,202.8 | 797.623 | 12.9293 | 90 | 32.101 | 123.498 | 24.022 | 2.8471 |
| 36 | 8,387.7 | 116,214.3 | 784.930 | 12.8553 | 91 | 24.821 | 91.397 | 18.842 | 2.6822 |
| 37 | 7,826.0 | 107,826.6 | 771.923 | 12.7780 | 92 | 18.857 | 66.576 | 14.501 | 2.5306 |
| 38 | 7,300.9 | 100,000.6 | 758.772 | 12.6971 | 93 | 14.055 | 47.719 | 10.933 | 2.3951 |
| 39 | 6,809.8 | 92,699.7 | 745.339 | 12.6127 | 94 | 10.279 | 33.664 | 8.076 | 2.2752 |
| 40 | 6,350.6 | 85,889.9 | 731.649 | 12.5247 | 95 | 7.3787 | 23.3854 | 5.8488 | 2.1693 |
| 41 | 5,921.4 | 79,539.3 | 717.856 | 12.4326 | 96 | 5.2011 | 16.0067 | 4.1539 | 2.0776 |
| 42 | 5,520.0 | 73,617.9 | 703.915 | 12.3365 | 97 | 3.6043 | 10.8056 | 2.8974 | 1.9979 |
| 43 | 5,144.9 | 68,097.9 | 689.851 | 12.2361 | 98 | 2.4594 | 7.2012 | 1.9883 | 1.9280 |
| 44 | 4,794.0 | 62,953.0 | 675.535 | 12.1317 | 99 | 1.6548 | 4.7418 | 1.3446 | 1.8654 |
| 45 | 4,465.8 | 58,159.1 | 661.013 | 12.0232 | 100 | 1.0994 | 3.0870 | .8975 | 1.8078 |
| 46 | 4,158.9 | 53,693.3 | 646.239 | 11.9105 | 101 | .72055 | 1.98752 | .59052 | 1.7583 |
| 47 | 3,871.8 | 49,534.4 | 631.268 | 11.7935 | 102 | .46705 | 1.26696 | .38417 | 1.7127 |
| 48 | 3,603.5 | 45,662.5 | 616.226 | 11.6717 | 103 | .29915 | .79991 | .24682 | 1.6739 |
| 49 | 3,352.7 | 42,059.0 | 601.152 | 11.5449 | 104 | .18990 | .50075 | .15714 | 1.6368 |
| 50 | 3,118.2 | 38,706.4 | 585.977 | 11.4132 | 105 | .11914 | .31084 | .09880 | 1.6090 |
| 51 | 2,898.9 | 35,588.2 | 570.748 | 11.2762 | 106 | .07448 | .19170 | .06194 | 1.5736 |
| 52 | 2,694.0 | 32,689.3 | 555.419 | 11.1342 | 107 | .04593 | .11721 | .03826 | 1.5519 |
| 53 | 2,502.3 | 29,995.3 | 540.039 | 10.9869 | 108 | .02817 | .07128 | .02350 | 1.5304 |
| 54 | 2,323.2 | 27,492.9 | 524.603 | 10.8340 | 109 | .01692 | .04311 | .01410 | 1.5147 |

TABLE 21. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 7.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|---------|
| 0 | 100,000 | 1,392,130 | 2,874.681 | 12.9213 | 55 | 1,668.2 | 18,701.0 | 363.470 | 10.2103 |
| 1 | 91,399 | 1,292,130 | 1,250.495 | 13.1372 | 56 | 1,539.9 | 17,032.8 | 351.553 | 10.0611 |
| 2 | 84,923 | 1,200,731 | 1,150.982 | 13.1391 | 57 | 1,420.6 | 15,492.9 | 339.673 | 9.9061 |
| 3 | 78,938 | 1,115,808 | 1,090.610 | 13.1353 | 58 | 1,309.6 | 14,072.4 | 327.853 | 9.7452 |
| 4 | 73,386 | 1,036,870 | 1,046.430 | 13.1290 | 59 | 1,206.6 | 12,762.7 | 316.142 | 9.5777 |
| 5 | 68,231 | 963,484 | 1,011.602 | 13.1208 | 60 | 1,110.8 | 11,556.2 | 304.517 | 9.4038 |
| 6 | 63,444 | 895,252 | 984.388 | 13.1109 | 61 | 1,021.8 | 10,445.4 | 293.012 | 9.2229 |
| 7 | 58,995 | 831,809 | 962.086 | 13.0996 | 62 | 939.07 | 9,423.64 | 281.610 | 9.0350 |
| 8 | 54,860 | 772,813 | 943.022 | 13.0869 | 63 | 862.21 | 8,484.57 | 270.268 | 8.8404 |
| 9 | 51,017 | 717,953 | 927.375 | 13.0728 | 64 | 790.75 | 7,622.35 | 258.955 | 8.6394 |
| 10 | 47,444 | 666,936 | 913.789 | 13.0573 | 65 | 724.26 | 6,831.60 | 247.641 | 8.4325 |
| 11 | 44,123 | 619,492 | 902.506 | 13.0402 | 66 | 662.43 | 6,107.34 | 236.338 | 8.2196 |
| 12 | 41,034 | 575,369 | 892.009 | 13.0218 | 67 | 604.93 | 5,444.91 | 225.054 | 8.0009 |
| 13 | 38,161 | 534,335 | 881.464 | 13.0023 | 68 | 551.45 | 4,839.98 | 213.774 | 7.7769 |
| 14 | 35,487 | 496,174 | 870.201 | 12.9819 | 69 | 501.72 | 4,288.53 | 202.519 | 7.5477 |
| 15 | 32,998 | 460,687 | 856.683 | 12.9612 | 70 | 455.48 | 3,786.81 | 191.283 | 7.3139 |
| 16 | 30,680 | 427,690 | 841.592 | 12.9402 | 71 | 412.55 | 3,331.33 | 180.130 | 7.0750 |
| 17 | 28,523 | 397,009 | 824.922 | 12.9188 | 72 | 372.72 | 2,918.78 | 169.082 | 6.8311 |
| 18 | 26,516 | 368,486 | 807.511 | 12.8968 | 73 | 335.74 | 2,546.07 | 158.106 | 6.5835 |
| 19 | 24,649 | 341,970 | 790.556 | 12.8736 | 74 | 301.38 | 2,210.33 | 147.167 | 6.3341 |
| 20 | 22,913 | 317,321 | 774.312 | 12.8490 | 75 | 269.44 | 1,908.95 | 136.254 | 6.0850 |
| 21 | 21,299 | 294,408 | 758.983 | 12.8226 | 76 | 239.80 | 1,639.52 | 125.413 | 5.8371 |
| 22 | 19,799 | 273,109 | 744.519 | 12.7943 | 77 | 212.38 | 1,399.72 | 114.730 | 5.5905 |
| 23 | 18,404 | 253,310 | 730.686 | 12.7642 | 78 | 187.11 | 1,187.33 | 104.270 | 5.3457 |
| 24 | 17,106 | 234,907 | 717.465 | 12.7322 | 79 | 163.89 | 1,000.23 | 94.104 | 5.1031 |
| 25 | 15,900 | 217,801 | 705.003 | 12.6978 | 80 | 142.65 | 836.34 | 84.297 | 4.8630 |
| 26 | 14,779 | 201,900 | 693.105 | 12.6611 | 81 | 123.28 | 693.69 | 74.881 | 4.6271 |
| 27 | 13,737 | 187,121 | 681.611 | 12.6221 | 82 | 105.69 | 570.41 | 65.898 | 4.3968 |
| 28 | 12,767 | 173,384 | 670.655 | 12.5804 | 83 | 89.852 | 464.720 | 57.430 | 4.1720 |
| 29 | 11,866 | 160,617 | 659.850 | 12.5363 | 84 | 75.712 | 374.868 | 49.558 | 3.9513 |
| 30 | 11,027 | 148,752 | 649.342 | 12.4893 | 85 | 63.192 | 299.156 | 42.321 | 3.7341 |
| 31 | 10,247 | 137,724 | 638.823 | 12.4398 | 86 | 52.152 | 235.964 | 35.690 | 3.5245 |
| 32 | 9,522.1 | 127,476.7 | 628.346 | 12.3875 | 87 | 42.468 | 183.812 | 29.643 | 3.3283 |
| 33 | 8,847.2 | 117,954.6 | 617.772 | 12.3325 | 88 | 34.099 | 141.345 | 24.238 | 3.1451 |
| 34 | 8,219.4 | 109,107.5 | 607.252 | 12.2744 | 89 | 27.006 | 107.246 | 19.523 | 2.9712 |
| 35 | 7,635.2 | 100,888.1 | 596.511 | 12.2135 | 90 | 21.101 | 80.240 | 15.503 | 2.8027 |
| 36 | 7,091.8 | 93,252.8 | 585.780 | 12.1494 | 91 | 16.239 | 59.139 | 12.113 | 2.6417 |
| 37 | 6,586.1 | 86,161.0 | 574.833 | 12.0823 | 92 | 12.280 | 42.900 | 9.287 | 2.4935 |
| 38 | 6,115.6 | 79,575.0 | 563.818 | 12.0119 | 93 | 9.1105 | 30.6197 | 6.9742 | 2.3609 |
| 39 | 5,677.7 | 73,459.4 | 552.617 | 11.9383 | 94 | 6.6315 | 21.5093 | 5.1308 | 2.2435 |
| 40 | 5,270.2 | 67,781.7 | 541.256 | 11.8613 | 95 | 4.7385 | 14.8778 | 3.7005 | 2.1398 |
| 41 | 4,891.1 | 62,511.5 | 529.863 | 11.7806 | 96 | 3.3245 | 10.1393 | 2.6171 | 2.0499 |
| 42 | 4,538.4 | 57,620.4 | 518.402 | 11.6961 | 97 | 2.2931 | 6.8149 | 1.8177 | 1.9719 |
| 43 | 4,210.3 | 53,082.0 | 506.892 | 11.6077 | 98 | 1.5575 | 4.5217 | 1.2420 | 1.9033 |
| 44 | 3,904.9 | 48,871.7 | 495.231 | 11.5155 | 99 | 1.0431 | 2.9643 | .8363 | 1.8419 |
| 45 | 3,620.7 | 44,966.8 | 483.457 | 11.4194 | 100 | .68976 | 1.92119 | .55572 | 1.7853 |
| 46 | 3,356.1 | 41,346.1 | 471.535 | 11.3195 | 101 | .44995 | 1.23142 | .36404 | 1.7368 |
| 47 | 3,110.0 | 37,990.0 | 459.510 | 11.2155 | 102 | .29030 | .78147 | .23578 | 1.6919 |
| 48 | 2,881.0 | 34,880.0 | 447.484 | 11.1070 | 103 | .18507 | .49116 | .15081 | 1.6538 |
| 49 | 2,668.0 | 31,999.0 | 435.488 | 10.9937 | 104 | .11694 | .30608 | .09558 | 1.6174 |
| 50 | 2,469.8 | 29,331.0 | 423.469 | 10.8758 | 105 | .07302 | .18914 | .05983 | 1.5901 |
| 51 | 2,285.5 | 26,861.2 | 411.463 | 10.7529 | 106 | .04544 | .11611 | .03734 | 1.5552 |
| 52 | 2,114.0 | 24,575.7 | 399.433 | 10.6251 | 107 | .02789 | .07067 | .02296 | 1.5339 |
| 53 | 1,954.5 | 22,461.7 | 387.420 | 10.4922 | 108 | .01702 | .04278 | .01404 | 1.5127 |
| 54 | 1,806.2 | 20,507.2 | 375.420 | 10.3541 | 109 | .01018 | .02575 | .00838 | 1.5296 |

TABLE 22. UNITED STATES TOTAL FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 8 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,313,797 | 2,681.707 | 12.1380 | 55 | 1,292.4 | 13,931.3 | 260.474 | 9.7792 |
| 1 | 90,976 | 1,213,797 | 1,665.040 | 12.3420 | 56 | 1,187.5 | 12,638.9 | 251.284 | 9.6433 |
| 2 | 84,138 | 1,122,821 | 966.446 | 12.3449 | 57 | 1,090.4 | 11,451.4 | 242.165 | 9.5019 |
| 3 | 77,846 | 1,038,683 | 906.909 | 12.3427 | 58 | 1,000.6 | 10,361.0 | 233.134 | 9.3546 |
| 4 | 72,037 | 960,836 | 863.542 | 12.3382 | 59 | 917.59 | 9,360.38 | 224.228 | 9.2011 |
| 5 | 66,667 | 888,800 | 829.513 | 12.3320 | 60 | 840.82 | 8,442.79 | 215.428 | 9.0411 |
| 6 | 61,702 | 822,133 | 803.046 | 12.3243 | 61 | 769.87 | 7,601.97 | 206.760 | 8.8744 |
| 7 | 57,110 | 760,431 | 781.457 | 12.3153 | 62 | 704.29 | 6,832.10 | 198.208 | 8.7007 |
| 8 | 52,861 | 703,322 | 763.087 | 12.3051 | 63 | 643.65 | 6,127.81 | 189.741 | 8.5204 |
| 9 | 48,930 | 650,461 | 748.080 | 12.2936 | 64 | 587.57 | 5,484.16 | 181.335 | 8.3336 |
| 10 | 45,293 | 601,530 | 735.111 | 12.2809 | 65 | 535.68 | 4,896.59 | 172.967 | 8.1409 |
| 11 | 41,927 | 556,237 | 724.388 | 12.2668 | 66 | 487.68 | 4,360.91 | 164.646 | 7.9422 |
| 12 | 38,812 | 514,310 | 714.461 | 12.2515 | 67 | 443.28 | 3,873.24 | 156.377 | 7.7376 |
| 13 | 35,927 | 475,499 | 704.533 | 12.2353 | 68 | 402.22 | 3,429.95 | 148.150 | 7.5276 |
| 14 | 33,255 | 439,572 | 693.978 | 12.2183 | 69 | 364.25 | 3,027.73 | 139.978 | 7.3121 |
| 15 | 30,779 | 406,317 | 681.369 | 12.2011 | 70 | 329.15 | 2,663.48 | 131.859 | 7.0919 |
| 16 | 28,485 | 375,538 | 667.358 | 12.1837 | 71 | 296.75 | 2,334.32 | 123.836 | 6.8663 |
| 17 | 26,360 | 347,053 | 651.953 | 12.1661 | 72 | 266.86 | 2,037.58 | 115.926 | 6.6354 |
| 18 | 24,391 | 320,694 | 635.937 | 12.1480 | 73 | 239.27 | 1,770.72 | 108.104 | 6.4006 |
| 19 | 22,569 | 296,303 | 620.412 | 12.1289 | 74 | 213.78 | 1,531.45 | 100.344 | 6.1635 |
| 20 | 20,882 | 273,734 | 605.608 | 12.1085 | 75 | 190.24 | 1,317.66 | 92.638 | 5.9262 |
| 21 | 19,321 | 252,852 | 591.702 | 12.0866 | 76 | 168.53 | 1,127.42 | 85.020 | 5.6896 |
| 22 | 17,877 | 233,530 | 578.643 | 12.0630 | 77 | 148.57 | 958.89 | 77.546 | 5.4539 |
| 23 | 16,541 | 215,653 | 566.210 | 12.0379 | 78 | 130.29 | 810.31 | 70.263 | 5.2195 |
| 24 | 15,303 | 199,113 | 554.382 | 12.0109 | 79 | 113.59 | 680.03 | 63.217 | 4.9867 |
| 25 | 14,159 | 183,809 | 543.285 | 11.9820 | 80 | 98.410 | 566.439 | 56.451 | 4.7559 |
| 26 | 13,099 | 169,650 | 532.739 | 11.9510 | 81 | 84.654 | 468.029 | 49.985 | 4.5287 |
| 27 | 12,119 | 156,551 | 522.599 | 11.9178 | 82 | 72.243 | 383.376 | 43.845 | 4.3067 |
| 28 | 11,212 | 144,432 | 512.978 | 11.8823 | 83 | 61.131 | 311.133 | 38.084 | 4.0896 |
| 29 | 10,372 | 133,220 | 503.533 | 11.8446 | 84 | 51.272 | 250.002 | 32.753 | 3.8760 |
| 30 | 9,594.3 | 122,848.6 | 494.390 | 11.8043 | 85 | 42.595 | 198.730 | 27.875 | 3.6655 |
| 31 | 8,874.5 | 113,254.3 | 485.281 | 11.7618 | 86 | 34.991 | 156.135 | 23.426 | 3.4621 |
| 32 | 8,208.1 | 104,379.8 | 476.250 | 11.7167 | 87 | 28.361 | 121.144 | 19.388 | 3.2714 |
| 33 | 7,591.0 | 96,171.7 | 467.177 | 11.6692 | 88 | 22.667 | 92.782 | 15.794 | 3.0933 |
| 34 | 7,019.7 | 88,580.7 | 458.193 | 11.6188 | 89 | 17.869 | 70.115 | 12.675 | 2.9239 |
| 35 | 6,490.6 | 81,561.0 | 449.062 | 11.5660 | 90 | 13.897 | 52.246 | 10.027 | 2.7595 |
| 36 | 6,000.7 | 75,070.4 | 439.982 | 11.5102 | 91 | 10.646 | 38.349 | 7.805 | 2.6023 |
| 37 | 5,547.0 | 69,069.6 | 430.762 | 11.4516 | 92 | 8.0129 | 27.7035 | 5.9608 | 2.4574 |
| 38 | 5,126.9 | 63,522.6 | 421.527 | 11.3900 | 93 | 5.9172 | 19.6906 | 4.4587 | 2.3277 |
| 39 | 4,737.8 | 58,395.7 | 412.181 | 11.3255 | 94 | 4.2872 | 13.7734 | 3.2669 | 2.2127 |
| 40 | 4,377.4 | 53,657.9 | 402.745 | 11.2579 | 95 | 3.0492 | 9.4862 | 2.3465 | 2.1111 |
| 41 | 4,043.7 | 49,280.5 | 393.325 | 11.1869 | 96 | 2.1294 | 6.4370 | 1.6526 | 2.0229 |
| 42 | 3,734.8 | 45,236.8 | 383.893 | 11.1123 | 97 | 1.4620 | 4.3076 | 1.1429 | 1.9464 |
| 43 | 3,448.7 | 41,502.0 | 374.466 | 11.0341 | 98 | .98836 | 2.84565 | .77757 | 1.8792 |
| 44 | 3,183.7 | 38,053.3 | 364.958 | 10.9525 | 99 | .65887 | 1.85728 | .52129 | 1.8189 |
| 45 | 2,938.3 | 34,869.6 | 355.403 | 10.8671 | 100 | .43368 | 1.19841 | .34491 | 1.7633 |
| 46 | 2,711.1 | 31,931.3 | 345.773 | 10.7782 | 101 | .28159 | .76473 | .22494 | 1.7157 |
| 47 | 2,500.6 | 29,220.2 | 336.104 | 10.6854 | 102 | .18083 | .48313 | .14505 | 1.6716 |
| 48 | 2,305.7 | 26,719.6 | 326.480 | 10.5885 | 103 | .11475 | .30229 | .09236 | 1.6342 |
| 49 | 2,125.4 | 24,413.9 | 316.923 | 10.4869 | 104 | .07217 | .18754 | .05828 | 1.5985 |
| 50 | 1,958.4 | 22,288.6 | 307.393 | 10.3810 | 105 | .04486 | .11536 | .03631 | 1.5716 |
| 51 | 1,803.9 | 20,330.2 | 297.917 | 10.2704 | 106 | .02778 | .07050 | .02256 | 1.5373 |
| 52 | 1,660.8 | 18,526.3 | 288.466 | 10.1551 | 107 | .01697 | .04271 | .01381 | 1.5164 |
| 53 | 1,528.4 | 16,865.5 | 279.073 | 10.0350 | 108 | .01031 | .02574 | .00840 | 1.4955 |
| 54 | 1,405.8 | 15,337.2 | 269.732 | 9.9098 | 109 | .00614 | .01542 | .00499 | 1.5124 |

TABLE 23. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 3 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,875,664 | 16,242.799 | 27.7566 | 55 | 16,332 | 236,641 | 9,439.404 | 13.4895 |
| 1 | 95,140 | 2,775,664 | 14,295.226 | 28.1746 | 56 | 15,626 | 220,310 | 9,209.205 | 13.0989 |
| 2 | 92,261 | 2,680,524 | 14,187.770 | 28.0536 | 57 | 14,929 | 204,684 | 8,967.350 | 12.7105 |
| 3 | 89,500 | 2,588,263 | 14,113.644 | 27.9192 | 58 | 14,241 | 189,755 | 8,714.532 | 12.3242 |
| 4 | 86,830 | 2,498,763 | 14,050.561 | 27.7776 | 59 | 13,563 | 175,513 | 8,450.896 | 11.9407 |
| 5 | 84,252 | 2,411,933 | 14,001.393 | 27.6276 | 60 | 12,894 | 161,950 | 8,177.456 | 11.5597 |
| 6 | 81,754 | 2,327,681 | 13,957.843 | 27.4716 | 61 | 12,236 | 149,056 | 7,894.677 | 11.1816 |
| 7 | 79,333 | 2,245,927 | 13,917.189 | 27.3103 | 62 | 11,589 | 136,820 | 7,603.496 | 10.8065 |
| 8 | 76,985 | 2,166,594 | 13,880.087 | 27.1432 | 63 | 10,952 | 125,231 | 7,304.641 | 10.4344 |
| 9 | 74,710 | 2,089,609 | 13,847.131 | 26.9698 | 64 | 10,327 | 114,279 | 6,998.506 | 10.0660 |
| 10 | 72,505 | 2,014,900 | 13,818.855 | 26.7897 | 65 | 9,713.5 | 103,952.0 | 6,685.767 | 9.7018 |
| 11 | 70,370 | 1,942,394 | 13,795.738 | 26.6025 | 66 | 9,111.3 | 94,238.5 | 6,366.501 | 9.3430 |
| 12 | 68,298 | 1,872,024 | 13,773.293 | 26.4095 | 67 | 8,520.9 | 85,127.2 | 6,041.491 | 8.9904 |
| 13 | 66,283 | 1,803,726 | 13,747.417 | 26.2124 | 68 | 7,943.7 | 76,606.3 | 5,712.414 | 8.6437 |
| 14 | 64,317 | 1,737,443 | 13,711.717 | 26.0138 | 69 | 7,381.9 | 68,662.6 | 5,381.995 | 8.3015 |
| 15 | 62,394 | 1,673,126 | 13,662.293 | 25.8154 | 70 | 6,837.5 | 61,280.7 | 5,052.611 | 7.9625 |
| 16 | 60,512 | 1,610,732 | 13,597.484 | 25.6184 | 71 | 6,311.9 | 54,443.2 | 4,726.200 | 7.6255 |
| 17 | 58,671 | 1,550,220 | 13,518.832 | 25.4223 | 72 | 5,805.7 | 48,131.3 | 4,403.820 | 7.2903 |
| 18 | 56,873 | 1,491,549 | 13,429.548 | 25.2261 | 73 | 5,317.8 | 42,325.6 | 4,085.050 | 6.9592 |
| 19 | 55,121 | 1,434,676 | 13,334.310 | 25.0278 | 74 | 4,847.1 | 37,007.8 | 3,769.169 | 6.6351 |
| 20 | 53,419 | 1,379,555 | 13,237.417 | 24.8254 | 75 | 4,393.1 | 32,160.7 | 3,456.387 | 6.3207 |
| 21 | 51,764 | 1,326,137 | 13,139.045 | 24.6187 | 76 | 3,956.7 | 27,767.6 | 3,147.956 | 6.0178 |
| 22 | 50,156 | 1,274,372 | 13,038.320 | 24.4082 | 77 | 3,540.2 | 23,810.9 | 2,846.660 | 5.7259 |
| 23 | 48,595 | 1,224,216 | 12,937.995 | 24.1923 | 78 | 3,145.8 | 20,270.7 | 2,555.435 | 5.4436 |
| 24 | 47,083 | 1,175,621 | 12,842.068 | 23.9689 | 79 | 2,776.2 | 17,124.8 | 2,277.436 | 5.1684 |
| 25 | 45,623 | 1,128,538 | 12,752.756 | 23.7363 | 80 | 2,432.6 | 14,348.6 | 2,014.676 | 4.8985 |
| 26 | 44,213 | 1,082,915 | 12,671.609 | 23.4932 | 81 | 2,114.6 | 11,916.0 | 1,767.507 | 4.6352 |
| 27 | 42,851 | 1,038,702 | 12,597.328 | 23.2400 | 82 | 1,821.5 | 9,801.5 | 1,536.041 | 4.3809 |
| 28 | 41,534 | 995,852 | 12,528.707 | 22.9767 | 83 | 1,554.0 | 7,979.9 | 1,321.551 | 4.1352 |
| 29 | 40,259 | 954,317 | 12,463.358 | 22.7044 | 84 | 1,312.4 | 6,426.0 | 1,125.249 | 3.8963 |
| 30 | 39,022 | 914,058 | 12,398.676 | 22.4243 | 85 | 1,096.6 | 5,113.5 | 947.634 | 3.6632 |
| 31 | 37,821 | 875,037 | 12,334.278 | 22.1364 | 86 | 904.55 | 4,016.98 | 787.550 | 3.4409 |
| 32 | 36,654 | 837,216 | 12,269.425 | 21.8408 | 87 | 734.93 | 3,112.43 | 644.277 | 3.2350 |
| 33 | 35,522 | 800,562 | 12,204.200 | 21.5374 | 88 | 587.48 | 2,377.50 | 518.235 | 3.0469 |
| 34 | 34,421 | 765,040 | 12,137.946 | 21.2262 | 89 | 462.26 | 1,790.01 | 410.124 | 2.8723 |
| 35 | 33,350 | 730,619 | 12,070.068 | 20.9075 | 90 | 358.38 | 1,327.75 | 319.707 | 2.7049 |
| 36 | 32,308 | 697,269 | 11,999.681 | 20.5816 | 91 | 273.67 | 969.37 | 245.435 | 2.5421 |
| 37 | 31,294 | 664,961 | 11,926.320 | 20.2488 | 92 | 205.45 | 695.71 | 185.190 | 2.3862 |
| 38 | 30,305 | 633,667 | 11,848.591 | 19.9097 | 93 | 151.28 | 490.25 | 137.002 | 2.2407 |
| 39 | 29,340 | 603,362 | 11,765.863 | 19.5648 | 94 | 109.04 | 338.97 | 99.165 | 2.1087 |
| 40 | 28,397 | 574,022 | 11,677.575 | 19.2144 | 95 | 76.848 | 229.933 | 70.151 | 1.9920 |
| 41 | 27,476 | 545,625 | 11,583.822 | 18.8584 | 96 | 52.941 | 153.085 | 48.483 | 1.8916 |
| 42 | 26,576 | 518,150 | 11,484.709 | 18.4966 | 97 | 35.763 | 100.144 | 32.847 | 1.8002 |
| 43 | 25,697 | 491,573 | 11,378.944 | 18.1299 | 98 | 23.682 | 64.380 | 21.806 | 1.7186 |
| 44 | 24,835 | 465,877 | 11,266.182 | 17.7586 | 99 | 15.381 | 40.699 | 14.196 | 1.6460 |
| 45 | 23,991 | 441,041 | 11,145.334 | 17.3835 | 100 | 9.8342 | 25.3171 | 9.0968 | 1.5744 |
| 46 | 23,163 | 417,050 | 11,015.939 | 17.0050 | 101 | 6.1631 | 15.4829 | 5.7122 | 1.5122 |
| 47 | 22,351 | 393,887 | 10,878.348 | 16.6230 | 102 | 3.7765 | 9.3198 | 3.5051 | 1.4678 |
| 48 | 21,554 | 371,536 | 10,732.423 | 16.2376 | 103 | 2.2856 | 5.5433 | 2.1242 | 1.4253 |
| 49 | 20,771 | 349,982 | 10,577.825 | 15.8492 | 104 | 1.3869 | 3.2576 | 1.2920 | 1.3888 |
| 50 | 20,003 | 329,211 | 10,414.044 | 15.4583 | 105 | .80791 | 1.87071 | .75342 | 1.3555 |
| 51 | 19,247 | 309,208 | 10,240.860 | 15.0653 | 106 | .47934 | 1.06279 | .44838 | 1.2172 |
| 52 | 18,503 | 289,961 | 10,057.669 | 14.6709 | 107 | .25384 | .58345 | .23685 | 1.2985 |
| 53 | 17,770 | 271,458 | 9,863.531 | 14.2761 | 108 | .16430 | .32961 | .15470 | 1.0061 |
| 54 | 17,047 | 253,688 | 9,657.619 | 13.8820 | 109 | .07975 | .16531 | .07494 | 1.0727 |

TABLE 24. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 3.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,581,061 | 12,717.753 | 24.8106 | 55 | 12,513 | 172,954 | 6,664.401 | 12.8218 |
| 1 | 94,660 | 2,481,061 | 10,779.589 | 25.2046 | 56 | 11,914 | 160,441 | 6,488.881 | 12.4661 |
| 2 | 91,372 | 2,386,381 | 10,673.168 | 25.1172 | 57 | 11,328 | 148,526 | 6,305.364 | 12.1114 |
| 3 | 88,209 | 2,295,009 | 10,600.111 | 25.0178 | 58 | 10,754 | 137,198 | 6,114.454 | 11.7579 |
| 4 | 85,164 | 2,206,799 | 10,538.239 | 24.9123 | 59 | 10,192 | 126,444 | 5,916.338 | 11.4059 |
| 5 | 82,236 | 2,121,635 | 10,490.246 | 24.7992 | 60 | 9,643.1 | 116,252.0 | 5,711.847 | 11.0555 |
| 6 | 79,413 | 2,039,399 | 10,447.944 | 24.6809 | 61 | 9,106.5 | 106,608.9 | 5,501.393 | 10.7069 |
| 7 | 76,688 | 1,959,986 | 10,408.645 | 24.5578 | 62 | 8,582.9 | 97,502.4 | 5,285.733 | 10.3601 |
| 8 | 74,059 | 1,883,297 | 10,372.952 | 24.4296 | 63 | 8,072.4 | 88,919.4 | 5,065.459 | 10.0152 |
| 9 | 71,523 | 1,809,238 | 10,341.402 | 24.2958 | 64 | 7,574.9 | 80,847.0 | 4,840.909 | 9.6731 |
| 10 | 69,078 | 1,737,715 | 10,314.463 | 24.1559 | 65 | 7,090.4 | 73,272.2 | 4,612.623 | 9.3340 |
| 11 | 66,720 | 1,668,637 | 10,292.545 | 24.0096 | 66 | 6,618.7 | 66,181.8 | 4,380.699 | 8.9992 |
| 12 | 64,442 | 1,601,917 | 10,271.368 | 23.8581 | 67 | 6,160.0 | 59,563.0 | 4,145.742 | 8.6694 |
| 13 | 62,239 | 1,537,474 | 10,247.070 | 23.7028 | 68 | 5,714.9 | 53,403.1 | 3,908.995 | 8.3445 |
| 14 | 60,101 | 1,475,236 | 10,213.710 | 23.5460 | 69 | 5,285.1 | 47,688.2 | 3,672.431 | 8.0232 |
| 15 | 58,023 | 1,415,135 | 10,167.749 | 23.3894 | 70 | 4,871.7 | 42,403.1 | 3,437.747 | 7.7040 |
| 16 | 56,000 | 1,357,112 | 10,107.772 | 23.2339 | 71 | 4,475.5 | 37,531.4 | 3,206.304 | 7.3860 |
| 17 | 54,034 | 1,301,112 | 10,035.335 | 23.0794 | 72 | 4,096.7 | 33,056.0 | 2,978.824 | 7.0690 |
| 18 | 52,125 | 1,247,077 | 9,953.505 | 22.9247 | 73 | 3,734.3 | 28,959.3 | 2,754.979 | 6.7550 |
| 19 | 50,276 | 1,194,952 | 9,866.639 | 22.7680 | 74 | 3,387.3 | 25,225.0 | 2,534.233 | 6.4470 |
| 20 | 48,488 | 1,144,676 | 9,778.690 | 22.6076 | 75 | 3,055.2 | 21,837.8 | 2,316.709 | 6.1478 |
| 21 | 46,759 | 1,096,189 | 9,689.830 | 22.4434 | 76 | 2,738.4 | 18,782.6 | 2,103.247 | 5.8589 |
| 22 | 45,087 | 1,049,430 | 9,599.284 | 22.2755 | 77 | 2,438.3 | 16,044.2 | 1,895.730 | 5.5801 |
| 23 | 43,473 | 1,004,343 | 9,509.533 | 22.1028 | 78 | 2,156.2 | 13,605.9 | 1,696.119 | 5.3101 |
| 24 | 41,917 | 960,870 | 9,424.132 | 21.9230 | 79 | 1,893.7 | 11,449.7 | 1,506.494 | 5.0462 |
| 25 | 40,421 | 918,953 | 9,345.003 | 21.7347 | 80 | 1,651.3 | 9,556.0 | 1,328.129 | 4.7870 |
| 26 | 38,982 | 878,532 | 9,273.457 | 21.5367 | 81 | 1,428.5 | 7,904.7 | 1,161.158 | 4.5337 |
| 27 | 37,599 | 839,550 | 9,208.280 | 21.3291 | 82 | 1,224.6 | 6,476.2 | 1,005.550 | 4.2887 |
| 28 | 36,267 | 801,951 | 9,148.360 | 21.1121 | 83 | 1,039.6 | 5,251.7 | 862.052 | 4.0514 |
| 29 | 34,984 | 765,683 | 9,091.573 | 20.8865 | 84 | 873.79 | 4,212.04 | 731.356 | 3.8204 |
| 30 | 33,745 | 730,699 | 9,035.637 | 20.6534 | 85 | 726.56 | 3,338.25 | 613.673 | 3.5946 |
| 31 | 32,549 | 696,954 | 8,980.216 | 20.4126 | 86 | 596.44 | 2,611.69 | 508.117 | 3.3788 |
| 32 | 31,392 | 664,405 | 8,924.673 | 20.1645 | 87 | 482.25 | 2,015.25 | 414.104 | 3.1788 |
| 33 | 30,275 | 633,013 | 8,869.081 | 19.9085 | 88 | 383.64 | 1,533.00 | 331.796 | 2.9960 |
| 34 | 29,195 | 602,737 | 8,812.885 | 19.6450 | 89 | 300.41 | 1,149.36 | 261.539 | 2.8260 |
| 35 | 28,151 | 573,542 | 8,755.589 | 19.3740 | 90 | 231.77 | 848.96 | 203.064 | 2.6629 |
| 36 | 27,140 | 545,391 | 8,696.464 | 19.0957 | 91 | 176.13 | 617.19 | 155.262 | 2.5041 |
| 37 | 26,161 | 518,252 | 8,635.137 | 18.8104 | 92 | 131.59 | 441.05 | 116.676 | 2.3517 |
| 38 | 25,211 | 492,091 | 8,570.472 | 18.5187 | 93 | 96.426 | 309.462 | 85.961 | 2.2093 |
| 39 | 24,290 | 466,880 | 8,501.982 | 18.2209 | 94 | 69.165 | 213.035 | 61.961 | 2.0801 |
| 40 | 23,396 | 442,590 | 8,429.241 | 17.9173 | 95 | 48.511 | 143.871 | 43.645 | 1.9658 |
| 41 | 22,528 | 419,194 | 8,352.371 | 17.6077 | 96 | 33.258 | 95.360 | 30.033 | 1.8673 |
| 42 | 21,685 | 396,666 | 8,271.499 | 17.2919 | 97 | 22.358 | 62.102 | 20.258 | 1.7776 |
| 43 | 20,866 | 374,980 | 8,185.616 | 16.9708 | 98 | 14.733 | 39.744 | 13.389 | 1.6976 |
| 44 | 20,069 | 354,114 | 8,094.494 | 16.6445 | 99 | 9.5233 | 25.0107 | 8.6775 | 1.6263 |
| 45 | 19,294 | 334,045 | 7,997.309 | 16.3138 | 100 | 6.0594 | 15.4874 | 5.5356 | 1.5559 |
| 46 | 18,538 | 314,751 | 7,893.753 | 15.9792 | 101 | 3.7791 | 9.4280 | 3.4602 | 1.4948 |
| 47 | 17,801 | 296,214 | 7,784.170 | 15.6402 | 102 | 2.3045 | 5.6490 | 2.1135 | 1.4513 |
| 48 | 17,083 | 278,413 | 7,668.511 | 15.2972 | 103 | 1.3880 | 3.3445 | 1.2749 | 1.4096 |
| 49 | 16,384 | 261,329 | 7,546.570 | 14.9505 | 104 | .83815 | 1.95649 | .77199 | 1.3343 |
| 50 | 15,701 | 244,945 | 7,418.010 | 14.6004 | 105 | .48588 | 1.11833 | .44806 | 1.3016 |
| 51 | 15,035 | 229,244 | 7,282.725 | 14.2474 | 106 | .28689 | .63245 | .26550 | 1.2045 |
| 52 | 14,384 | 214,209 | 7,140.315 | 13.8921 | 107 | .15119 | .34556 | .13950 | 1.2856 |
| 53 | 13,747 | 199,825 | 6,990.123 | 13.5354 | 108 | .09738 | .19436 | .09081 | .9958 |
| 54 | 13,124 | 186,078 | 6,831.592 | 13.1783 | 109 | .04704 | .09698 | .04376 | 1.0614 |

TABLE 25. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 4 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,335,750 | 10,163.453 | 22.3575 | 55 | 9,599.5 | 126,780.7 | 4,723.342 | 12.2070 |
| 1 | 94,225 | 2,235,750 | 8,234.607 | 22.7278 | 56 | 9,096.3 | 117,181.2 | 4,589.337 | 11.8823 |
| 2 | 90,496 | 2,141,525 | 8,129.207 | 22.6644 | 57 | 8,607.0 | 108,084.9 | 4,449.901 | 11.5578 |
| 3 | 86,943 | 2,051,030 | 8,057.199 | 22.5905 | 58 | 8,131.6 | 99,477.9 | 4,305.545 | 11.2335 |
| 4 | 83,538 | 1,964,087 | 7,996.507 | 22.5112 | 59 | 7,669.8 | 91,346.3 | 4,156.460 | 10.9099 |
| 5 | 80,278 | 1,880,548 | 7,949.658 | 22.4253 | 60 | 7,221.6 | 83,676.5 | 4,003.318 | 10.5869 |
| 6 | 77,150 | 1,800,270 | 7,908.561 | 22.3348 | 61 | 6,787.0 | 76,454.8 | 3,846.468 | 10.2648 |
| 7 | 74,144 | 1,723,120 | 7,870.565 | 22.2401 | 62 | 6,366.0 | 69,667.8 | 3,686.511 | 9.9437 |
| 8 | 71,258 | 1,648,976 | 7,836.223 | 22.1408 | 63 | 5,958.6 | 63,311.8 | 3,523.916 | 9.6236 |
| 9 | 68,487 | 1,577,717 | 7,806.012 | 22.0366 | 64 | 5,564.5 | 57,343.2 | 3,358.963 | 9.3052 |
| 10 | 65,828 | 1,509,230 | 7,780.340 | 21.9270 | 65 | 5,183.6 | 51,778.7 | 3,192.071 | 8.9890 |
| 11 | 63,275 | 1,443,402 | 7,759.554 | 21.8116 | 66 | 4,815.5 | 46,595.1 | 3,023.335 | 8.6762 |
| 12 | 60,821 | 1,380,127 | 7,739.566 | 21.6915 | 67 | 4,460.1 | 41,779.7 | 2,853.214 | 8.3674 |
| 13 | 58,459 | 1,319,306 | 7,716.745 | 21.5679 | 68 | 4,118.0 | 37,319.5 | 2,682.621 | 8.0626 |
| 14 | 56,180 | 1,260,847 | 7,685.561 | 21.4431 | 69 | 3,790.0 | 33,211.6 | 2,512.979 | 7.7604 |
| 15 | 53,976 | 1,204,667 | 7,642.806 | 21.3185 | 70 | 3,476.7 | 29,411.6 | 2,345.495 | 7.4596 |
| 16 | 51,845 | 1,150,691 | 7,587.279 | 21.1950 | 71 | 3,178.6 | 25,934.9 | 2,181.118 | 7.1592 |
| 17 | 49,784 | 1,098,846 | 7,520.541 | 21.0723 | 72 | 2,895.6 | 22,756.3 | 2,020.332 | 6.8590 |
| 18 | 47,794 | 1,049,062 | 7,445.509 | 20.9496 | 73 | 2,626.7 | 19,860.7 | 1,862.875 | 6.5609 |
| 19 | 45,877 | 1,001,268 | 7,366.244 | 20.8253 | 74 | 2,371.2 | 17,234.0 | 1,708.346 | 6.2681 |
| 20 | 44,032 | 955,392 | 7,286.376 | 20.6976 | 75 | 2,128.4 | 14,862.8 | 1,556.804 | 5.9829 |
| 21 | 42,258 | 911,360 | 7,206.070 | 20.5664 | 76 | 1,898.6 | 12,734.3 | 1,408.807 | 5.7073 |
| 22 | 40,552 | 869,101 | 7,124.632 | 20.4320 | 77 | 1,682.4 | 10,835.7 | 1,265.623 | 5.4407 |
| 23 | 38,912 | 828,550 | 7,044.298 | 20.2931 | 78 | 1,480.6 | 9,153.3 | 1,128.557 | 5.1822 |
| 24 | 37,339 | 789,638 | 6,968.225 | 20.1479 | 79 | 1,294.1 | 7,672.7 | 998.973 | 4.9291 |
| 25 | 35,833 | 752,299 | 6,898.078 | 19.9948 | 80 | 1,123.0 | 6,378.7 | 877.670 | 4.6800 |
| 26 | 34,391 | 716,466 | 6,834.957 | 19.8327 | 81 | 966.80 | 5,255.65 | 764.662 | 4.4361 |
| 27 | 33,011 | 682,075 | 6,777.732 | 19.6618 | 82 | 824.81 | 4,288.85 | 659.852 | 4.1998 |
| 28 | 31,689 | 649,064 | 6,725.376 | 19.4821 | 83 | 696.89 | 3,464.04 | 563.662 | 3.9707 |
| 29 | 30,421 | 617,374 | 6,675.996 | 19.2942 | 84 | 582.90 | 2,767.15 | 476.475 | 3.7472 |
| 30 | 29,203 | 586,953 | 6,627.590 | 19.0993 | 85 | 482.36 | 2,184.25 | 398.347 | 3.5283 |
| 31 | 28,032 | 557,750 | 6,579.860 | 18.8971 | 86 | 394.06 | 1,701.89 | 328.606 | 3.3188 |
| 32 | 26,906 | 529,719 | 6,532.255 | 18.6877 | 87 | 317.09 | 1,307.83 | 266.790 | 3.1244 |
| 33 | 25,824 | 502,813 | 6,484.837 | 18.4709 | 88 | 251.04 | 990.73 | 212.931 | 2.9466 |
| 34 | 24,783 | 476,989 | 6,437.134 | 18.2467 | 89 | 195.63 | 739.70 | 167.179 | 2.7811 |
| 35 | 23,781 | 452,206 | 6,388.732 | 18.0152 | 90 | 150.21 | 544.07 | 129.282 | 2.6221 |
| 36 | 22,817 | 428,425 | 6,339.023 | 17.7766 | 91 | 113.60 | 393.86 | 98.452 | 2.4671 |
| 37 | 21,888 | 405,608 | 6,287.712 | 17.5310 | 92 | 84.464 | 280.261 | 73.684 | 2.3181 |
| 38 | 20,992 | 383,720 | 6,233.869 | 17.2791 | 93 | 61.595 | 195.798 | 54.065 | 2.1788 |
| 39 | 20,128 | 362,727 | 6,177.114 | 17.0209 | 94 | 43.969 | 134.203 | 38.807 | 2.0522 |
| 40 | 19,294 | 342,599 | 6,117.127 | 16.7568 | 95 | 30.690 | 90.234 | 27.220 | 1.9401 |
| 41 | 18,489 | 323,305 | 6,054.040 | 16.4865 | 96 | 20.940 | 59.544 | 18.649 | 1.8436 |
| 42 | 17,712 | 304,816 | 5,987.986 | 16.2099 | 97 | 14.009 | 38.604 | 12.525 | 1.7556 |
| 43 | 16,961 | 287,105 | 5,918.178 | 15.9277 | 98 | 9.1873 | 24.5947 | 8.2414 | 1.6770 |
| 44 | 16,235 | 270,144 | 5,844.467 | 15.6400 | 99 | 5.9099 | 15.4073 | 5.3173 | 1.6070 |
| 45 | 15,532 | 253,909 | 5,766.229 | 15.3475 | 100 | 3.7422 | 9.4974 | 3.3769 | 1.5379 |
| 46 | 14,852 | 238,377 | 5,683.264 | 15.0506 | 101 | 2.3227 | 5.7552 | 2.1013 | 1.4778 |
| 47 | 14,193 | 223,526 | 5,595.892 | 14.7490 | 102 | 1.4096 | 3.4325 | 1.2776 | 1.4351 |
| 48 | 13,555 | 209,333 | 5,504.118 | 14.4428 | 103 | .84490 | 2.02291 | .76709 | 1.3943 |
| 49 | 12,938 | 195,777 | 5,407.826 | 14.1323 | 104 | .50775 | 1.17801 | .46244 | 1.3200 |
| 50 | 12,339 | 182,840 | 5,306.794 | 13.8179 | 105 | .29293 | .67026 | .26715 | 1.2881 |
| 51 | 11,759 | 170,501 | 5,200.989 | 13.4999 | 106 | .17213 | .37732 | .15761 | 1.1921 |
| 52 | 11,196 | 158,742 | 5,090.147 | 13.1789 | 107 | .09027 | .20519 | .08238 | 1.2729 |
| 53 | 10,649 | 147,546 | 4,973.810 | 12.8558 | 108 | .05787 | .11491 | .05345 | .9857 |
| 54 | 10,117 | 136,898 | 4,851.604 | 12.5316 | 109 | .02782 | .05704 | .02562 | 1.0503 |

TABLE 26. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 4.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 2,129,561 | 8,296.434 | 20.2956 | 55 | 7,373.7 | 93,201.7 | 3,360.263 | 11.6397 |
| 1 | 93,774 | 2,029,561 | 6,376.817 | 20.6431 | 56 | 6,953.8 | 85,827.9 | 3,257.822 | 11.3427 |
| 2 | 89,632 | 1,935,786 | 6,272.424 | 20.5971 | 57 | 6,548.2 | 78,874.2 | 3,151.738 | 11.0451 |
| 3 | 85,701 | 1,846,155 | 6,201.444 | 20.5418 | 58 | 6,157.0 | 72,325.9 | 3,042.438 | 10.7470 |
| 4 | 81,951 | 1,760,454 | 6,141.906 | 20.4818 | 59 | 5,779.5 | 66,169.0 | 2,930.096 | 10.4490 |
| 5 | 78,376 | 1,678,503 | 6,096.166 | 20.4160 | 60 | 5,415.8 | 60,389.5 | 2,815.250 | 10.1507 |
| 6 | 74,961 | 1,600,127 | 6,056.236 | 20.3461 | 61 | 5,065.5 | 54,973.7 | 2,698.186 | 9.8526 |
| 7 | 71,696 | 1,525,166 | 6,019.494 | 20.2725 | 62 | 4,728.5 | 49,908.3 | 2,579.373 | 9.5547 |
| 8 | 68,576 | 1,453,469 | 5,986.445 | 20.1950 | 63 | 4,404.7 | 45,179.7 | 2,459.180 | 9.2571 |
| 9 | 65,594 | 1,384,893 | 5,957.510 | 20.1131 | 64 | 4,093.7 | 40,775.0 | 2,337.827 | 8.9605 |
| 10 | 62,745 | 1,319,299 | 5,933.040 | 20.0264 | 65 | 3,795.2 | 36,681.3 | 2,215.635 | 8.6652 |
| 11 | 60,023 | 1,256,554 | 5,913.322 | 19.9344 | 66 | 3,508.8 | 32,886.1 | 2,092.683 | 8.3724 |
| 12 | 57,420 | 1,196,531 | 5,894.453 | 19.8383 | 67 | 3,234.4 | 29,377.3 | 1,969.316 | 8.0829 |
| 13 | 54,926 | 1,139,111 | 5,873.010 | 19.7391 | 68 | 2,972.0 | 26,142.9 | 1,846.198 | 7.7965 |
| 14 | 52,531 | 1,084,185 | 5,843.852 | 19.6389 | 69 | 2,722.1 | 23,170.9 | 1,724.353 | 7.5120 |
| 15 | 50,229 | 1,031,654 | 5,804.064 | 19.5389 | 70 | 2,485.2 | 20,448.8 | 1,604.633 | 7.2282 |
| 16 | 48,015 | 981,425 | 5,752.640 | 19.4400 | 71 | 2,261.2 | 17,963.6 | 1,487.696 | 6.9441 |
| 17 | 45,886 | 933,410 | 5,691.127 | 19.3420 | 72 | 2,050.0 | 15,702.4 | 1,373.861 | 6.6595 |
| 18 | 43,841 | 887,524 | 5,622.301 | 19.2441 | 73 | 1,850.8 | 13,652.3 | 1,262.916 | 6.3764 |
| 19 | 41,881 | 843,683 | 5,549.940 | 19.1449 | 74 | 1,662.8 | 11,801.5 | 1,154.555 | 6.0976 |
| 20 | 40,005 | 801,802 | 5,477.377 | 19.0427 | 75 | 1,485.4 | 10,138.7 | 1,048.798 | 5.8256 |
| 21 | 38,209 | 761,797 | 5,404.765 | 18.9374 | 76 | 1,318.6 | 8,653.4 | 946.008 | 5.5623 |
| 22 | 36,491 | 723,588 | 5,331.483 | 18.8293 | 77 | 1,162.9 | 7,334.7 | 847.038 | 5.3073 |
| 23 | 34,847 | 687,097 | 5,259.539 | 18.7173 | 78 | 1,018.5 | 6,171.8 | 752.749 | 5.0596 |
| 24 | 33,279 | 652,250 | 5,191.737 | 18.5994 | 79 | 885.95 | 5,153.30 | 664.034 | 4.8167 |
| 25 | 31,784 | 618,971 | 5,129.517 | 18.4744 | 80 | 765.15 | 4,267.36 | 581.385 | 4.5772 |
| 26 | 30,359 | 587,187 | 5,073.796 | 18.3412 | 81 | 655.57 | 3,502.21 | 504.757 | 4.3422 |
| 27 | 29,002 | 556,828 | 5,023.522 | 18.1998 | 82 | 556.61 | 2,846.64 | 434.027 | 4.1142 |
| 28 | 27,707 | 527,826 | 4,977.745 | 18.0502 | 83 | 468.04 | 2,290.03 | 369.425 | 3.8928 |
| 29 | 26,471 | 500,119 | 4,934.777 | 17.8931 | 84 | 389.61 | 1,821.99 | 311.150 | 3.6765 |
| 30 | 25,289 | 473,648 | 4,892.858 | 17.7293 | 85 | 320.86 | 1,432.38 | 259.179 | 3.4642 |
| 31 | 24,159 | 448,359 | 4,851.722 | 17.5586 | 86 | 260.87 | 1,111.52 | 213.010 | 3.2607 |
| 32 | 23,078 | 424,200 | 4,810.891 | 17.3812 | 87 | 208.91 | 850.65 | 172.283 | 3.0718 |
| 33 | 22,044 | 401,122 | 4,770.414 | 17.1967 | 88 | 164.60 | 641.73 | 136.968 | 2.8987 |
| 34 | 21,054 | 379,078 | 4,729.889 | 17.0052 | 89 | 127.66 | 477.13 | 107.112 | 2.7375 |
| 35 | 20,106 | 358,024 | 4,688.966 | 16.8066 | 90 | 97.550 | 349.471 | 82.501 | 2.5825 |
| 36 | 19,199 | 337,918 | 4,647.140 | 16.6011 | 91 | 73.423 | 251.921 | 62.574 | 2.4311 |
| 37 | 18,329 | 318,719 | 4,604.173 | 16.3889 | 92 | 54.330 | 178.498 | 46.643 | 2.2855 |
| 38 | 17,495 | 300,390 | 4,559.300 | 16.1703 | 93 | 39.431 | 124.169 | 34.084 | 2.1491 |
| 39 | 16,694 | 282,896 | 4,512.228 | 15.9456 | 94 | 28.012 | 84.738 | 24.363 | 2.0251 |
| 40 | 15,926 | 266,201 | 4,462.712 | 15.7150 | 95 | 19.459 | 56.726 | 17.016 | 1.9151 |
| 41 | 15,188 | 250,275 | 4,410.887 | 15.4782 | 96 | 13.213 | 37.267 | 11.608 | 1.8205 |
| 42 | 14,480 | 235,087 | 4,356.885 | 15.2350 | 97 | 8.7977 | 24.0539 | 7.7619 | 1.7341 |
| 43 | 13,800 | 220,607 | 4,300.086 | 14.9861 | 98 | 5.7420 | 15.2562 | 5.0850 | 1.6570 |
| 44 | 13,146 | 206,807 | 4,240.398 | 14.7316 | 99 | 3.6759 | 9.5142 | 3.2662 | 1.5882 |
| 45 | 12,517 | 193,661 | 4,177.349 | 14.4721 | 100 | 2.3165 | 5.8382 | 2.0651 | 1.5203 |
| 46 | 11,911 | 181,144 | 4,110.809 | 14.2078 | 101 | 1.4309 | 3.5217 | 1.2793 | 1.4612 |
| 47 | 11,329 | 169,233 | 4,041.070 | 13.9385 | 102 | .86422 | 2.09083 | .77419 | 1.4193 |
| 48 | 10,768 | 157,904 | 3,968.169 | 13.6644 | 103 | .51554 | 1.22660 | .46272 | 1.3792 |
| 49 | 10,228 | 147,136 | 3,892.044 | 13.3856 | 104 | .30833 | .71105 | .27771 | 1.3061 |
| 50 | 9,708.1 | 136,908.3 | 3,812.554 | 13.1024 | 105 | .17703 | .40272 | .15969 | 1.2748 |
| 51 | 9,207.2 | 127,200.2 | 3,729.708 | 12.8153 | 106 | .10352 | .22568 | .09381 | 1.1799 |
| 52 | 8,724.4 | 117,993.0 | 3,643.332 | 12.5245 | 107 | .05403 | .12215 | .04877 | 1.2605 |
| 53 | 8,258.5 | 109,268.6 | 3,553.108 | 12.2311 | 108 | .03447 | .06811 | .03154 | .9758 |
| 54 | 7,808.5 | 101,010.2 | 3,458.786 | 11.9359 | 109 | .01649 | .03364 | .01504 | 1.0395 |

TABLE 27. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,954,696 | 6,919.234 | 18.5470 | 55 | 5,671.2 | 68,707.7 | 2,399.366 | 11.1153 |
| 1 | 93,328 | 1,854,696 | 5,008.757 | 18.8730 | 56 | 5,322.7 | 63,036.5 | 2,320.954 | 10.8430 |
| 2 | 88,780 | 1,761,368 | 4,905.356 | 18.8397 | 57 | 4,988.4 | 57,713.8 | 2,240.140 | 10.5696 |
| 3 | 84,482 | 1,672,588 | 4,835.385 | 18.7981 | 58 | 4,668.0 | 52,725.4 | 2,157.271 | 10.2951 |
| 4 | 80,401 | 1,588,106 | 4,776.973 | 18.7523 | 59 | 4,361.0 | 48,057.4 | 2,072.503 | 10.0199 |
| 5 | 76,528 | 1,507,705 | 4,732.312 | 18.7014 | 60 | 4,067.0 | 43,696.4 | 1,986.258 | 9.7440 |
| 6 | 72,845 | 1,431,177 | 4,693.509 | 18.6469 | 61 | 3,785.9 | 39,629.4 | 1,898.765 | 9.4677 |
| 7 | 69,340 | 1,358,332 | 4,657.975 | 18.5893 | 62 | 3,517.2 | 35,843.5 | 1,810.389 | 9.1909 |
| 8 | 66,007 | 1,288,992 | 4,626.163 | 18.5282 | 63 | 3,260.8 | 32,326.3 | 1,721.412 | 8.9137 |
| 9 | 62,836 | 1,222,985 | 4,598.445 | 18.4632 | 64 | 3,016.1 | 29,065.5 | 1,632.003 | 8.6369 |
| 10 | 59,820 | 1,160,149 | 4,575.117 | 18.3939 | 65 | 2,782.9 | 26,049.5 | 1,542.405 | 8.3607 |
| 11 | 56,953 | 1,100,329 | 4,556.407 | 18.3199 | 66 | 2,560.6 | 23,266.6 | 1,452.680 | 8.0863 |
| 12 | 54,223 | 1,043,376 | 4,538.588 | 18.2423 | 67 | 2,349.1 | 20,706.0 | 1,363.080 | 7.8145 |
| 13 | 51,621 | 989,153 | 4,518.436 | 18.1618 | 68 | 2,148.2 | 18,356.9 | 1,274.087 | 7.5452 |
| 14 | 49,136 | 937,532 | 4,491.162 | 18.0805 | 69 | 1,958.3 | 16,208.7 | 1,186.433 | 7.2770 |
| 15 | 46,759 | 888,396 | 4,454.124 | 17.9996 | 70 | 1,779.3 | 14,250.4 | 1,100.718 | 7.0090 |
| 16 | 44,484 | 841,638 | 4,406.480 | 17.9198 | 71 | 1,611.3 | 12,471.1 | 1,017.394 | 6.7400 |
| 17 | 42,309 | 797,153 | 4,349.762 | 17.8410 | 72 | 1,453.8 | 10,859.8 | 936.667 | 6.4700 |
| 18 | 40,232 | 754,844 | 4,286.603 | 17.7625 | 73 | 1,306.3 | 9,406.0 | 858.365 | 6.2007 |
| 19 | 38,250 | 714,612 | 4,220.515 | 17.6828 | 74 | 1,168.0 | 8,099.8 | 782.250 | 5.9350 |
| 20 | 36,362 | 676,362 | 4,154.559 | 17.6007 | 75 | 1,038.4 | 6,931.8 | 708.317 | 5.6755 |
| 21 | 34,565 | 640,000 | 4,088.873 | 17.5158 | 76 | 917.44 | 5,893.41 | 636.801 | 5.4238 |
| 22 | 32,853 | 605,435 | 4,022.896 | 17.4285 | 77 | 805.22 | 4,975.97 | 568.271 | 5.1796 |
| 23 | 31,224 | 572,582 | 3,958.433 | 17.3377 | 78 | 701.90 | 4,170.75 | 503.293 | 4.9421 |
| 24 | 29,677 | 541,358 | 3,897.969 | 17.2417 | 79 | 607.63 | 3,468.85 | 442.447 | 4.7088 |
| 25 | 28,209 | 511,681 | 3,842.748 | 17.1392 | 80 | 522.28 | 2,861.22 | 386.032 | 4.4783 |
| 26 | 26,816 | 483,472 | 3,793.531 | 17.0292 | 81 | 445.35 | 2,338.94 | 333.976 | 4.2519 |
| 27 | 25,495 | 456,656 | 3,749.336 | 16.9117 | 82 | 376.33 | 1,893.59 | 286.155 | 4.0318 |
| 28 | 24,241 | 431,161 | 3,709.286 | 16.7866 | 83 | 314.94 | 1,517.26 | 242.685 | 3.8177 |
| 29 | 23,049 | 406,921 | 3,671.872 | 16.6546 | 84 | 260.91 | 1,202.33 | 203.660 | 3.6081 |
| 30 | 21,915 | 383,872 | 3,635.546 | 16.5163 | 85 | 213.85 | 941.41 | 169.022 | 3.4022 |
| 31 | 20,836 | 361,956 | 3,600.068 | 16.3716 | 86 | 173.04 | 727.56 | 138.397 | 3.2045 |
| 32 | 19,809 | 341,120 | 3,565.020 | 16.2206 | 87 | 137.92 | 554.52 | 111.511 | 3.0207 |
| 33 | 18,831 | 321,312 | 3,530.442 | 16.0629 | 88 | 108.15 | 416.60 | 88.308 | 2.8522 |
| 34 | 17,900 | 302,481 | 3,495.988 | 15.8985 | 89 | 83.474 | 308.455 | 68.786 | 2.6952 |
| 35 | 17,013 | 284,581 | 3,461.362 | 15.7274 | 90 | 63.483 | 224.981 | 52.770 | 2.5440 |
| 36 | 16,167 | 267,568 | 3,426.140 | 15.5498 | 91 | 47.554 | 161.498 | 39.864 | 2.3961 |
| 37 | 15,362 | 251,400 | 3,390.128 | 15.3655 | 92 | 35.020 | 113.944 | 29.594 | 2.2537 |
| 38 | 14,593 | 236,039 | 3,352.700 | 15.1752 | 93 | 25.295 | 78.924 | 21.537 | 2.1201 |
| 39 | 13,859 | 221,446 | 3,313.623 | 14.9789 | 94 | 17.885 | 53.628 | 15.331 | 1.9986 |
| 40 | 13,158 | 207,588 | 3,272.714 | 14.7767 | 95 | 12.365 | 35.744 | 10.663 | 1.8908 |
| 41 | 12,489 | 194,430 | 3,230.100 | 14.5685 | 96 | 8.3559 | 23.3790 | 7.2427 | 1.7979 |
| 42 | 11,850 | 181,941 | 3,185.908 | 14.3540 | 97 | 5.5372 | 15.0230 | 4.8218 | 1.7131 |
| 43 | 11,239 | 170,091 | 3,139.648 | 14.1337 | 98 | 3.5067 | 9.4858 | 3.1450 | 1.6374 |
| 44 | 10,656 | 158,852 | 3,091.268 | 13.9078 | 99 | 2.2916 | 5.8891 | 2.0112 | 1.5699 |
| 45 | 10,097 | 148,196 | 3,040.405 | 13.6767 | 100 | 1.4372 | 3.5975 | 1.2659 | 1.5030 |
| 46 | 9,563.1 | 138,099.0 | 2,986.983 | 13.4408 | 101 | .88356 | 2.16025 | .78069 | 1.4449 |
| 47 | 9,052.0 | 128,535.9 | 2,931.259 | 13.1997 | 102 | .53110 | 1.27668 | .47031 | 1.4038 |
| 48 | 8,563.0 | 119,483.9 | 2,873.285 | 12.9535 | 103 | .31531 | .74557 | .27981 | 1.3646 |
| 49 | 8,095.0 | 110,920.9 | 2,813.036 | 12.7024 | 104 | .18768 | .43026 | .16719 | 1.2924 |
| 50 | 7,646.9 | 102,825.9 | 2,750.424 | 12.4468 | 105 | .10724 | .24257 | .09569 | 1.2618 |
| 51 | 7,217.8 | 95,179.0 | 2,685.478 | 12.1867 | 106 | .06242 | .13532 | .05597 | 1.1680 |
| 52 | 6,806.7 | 87,961.2 | 2,618.088 | 11.9227 | 107 | .03242 | .07290 | .02895 | 1.2483 |
| 53 | 6,412.5 | 81,154.5 | 2,548.031 | 11.6556 | 108 | .02058 | .04047 | .01866 | .9661 |
| 54 | 6,034.3 | 74,741.9 | 2,475.140 | 11.3862 | 109 | .00980 | .01989 | .00885 | 1.0289 |

TABLE 28. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 5.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,805,134 | 5,893.506 | 17.0513 | 55 | 4,367.1 | 50,788.2 | 1,719.423 | 10.6296 |
| 1 | 92,885 | 1,705,134 | 3,992.084 | 17.3574 | 56 | 4,079.4 | 46,421.1 | 1,659.326 | 10.3794 |
| 2 | 87,941 | 1,612,248 | 3,889.661 | 17.3334 | 57 | 3,805.1 | 42,341.7 | 1,597.683 | 10.1277 |
| 3 | 83,287 | 1,524,308 | 3,820.680 | 17.3019 | 58 | 3,543.8 | 38,536.6 | 1,534.772 | 9.8744 |
| 4 | 78,888 | 1,441,021 | 3,763.368 | 17.2667 | 59 | 3,295.0 | 34,992.8 | 1,470.724 | 9.6200 |
| 5 | 74,731 | 1,362,133 | 3,719.755 | 17.2270 | 60 | 3,058.4 | 31,697.8 | 1,405.868 | 9.3643 |
| 6 | 70,798 | 1,287,402 | 3,682.042 | 17.1842 | 61 | 2,833.4 | 28,639.5 | 1,340.387 | 9.1077 |
| 7 | 67,073 | 1,216,604 | 3,647.670 | 17.1386 | 62 | 2,619.9 | 25,806.0 | 1,274.558 | 8.8500 |
| 8 | 63,545 | 1,149,531 | 3,617.045 | 17.0900 | 63 | 2,417.4 | 23,186.1 | 1,208.595 | 8.5915 |
| 9 | 60,206 | 1,085,986 | 3,590.487 | 17.0379 | 64 | 2,225.4 | 20,768.8 | 1,142.626 | 8.3328 |
| 10 | 57,045 | 1,025,780 | 3,568.241 | 16.9820 | 65 | 2,043.5 | 18,543.4 | 1,076.831 | 8.0741 |
| 11 | 54,053 | 968,735 | 3,550.484 | 16.9219 | 66 | 1,871.4 | 16,499.9 | 1,011.255 | 7.8167 |
| 12 | 51,219 | 914,682 | 3,533.652 | 16.8584 | 67 | 1,708.7 | 14,628.4 | 946.080 | 7.5611 |
| 13 | 48,529 | 863,464 | 3,514.707 | 16.7926 | 68 | 1,555.2 | 12,919.7 | 881.654 | 7.3075 |
| 14 | 45,974 | 814,934 | 3,489.188 | 16.7260 | 69 | 1,411.0 | 11,364.5 | 818.498 | 7.0545 |
| 15 | 43,543 | 768,960 | 3,454.697 | 16.6599 | 70 | 1,275.9 | 9,953.6 | 757.032 | 6.8010 |
| 16 | 41,229 | 725,418 | 3,410.541 | 16.5950 | 71 | 1,150.0 | 8,677.6 | 697.564 | 6.5461 |
| 17 | 39,027 | 684,189 | 3,358.223 | 16.5312 | 72 | 1,032.7 | 7,527.7 | 640.223 | 6.2896 |
| 18 | 36,934 | 645,162 | 3,300.240 | 16.4678 | 73 | 923.47 | 6,495.02 | 584.867 | 6.0333 |
| 19 | 34,948 | 608,228 | 3,239.856 | 16.4036 | 74 | 821.77 | 5,571.55 | 531.312 | 5.7799 |
| 20 | 33,066 | 573,280 | 3,179.879 | 16.3372 | 75 | 727.16 | 4,749.78 | 479.540 | 5.5320 |
| 21 | 31,283 | 540,213 | 3,120.429 | 16.2685 | 76 | 639.41 | 4,022.62 | 429.697 | 5.2912 |
| 22 | 29,593 | 508,930 | 3,060.999 | 16.1977 | 77 | 558.54 | 3,383.22 | 382.161 | 5.0573 |
| 23 | 27,992 | 479,337 | 3,003.209 | 16.1239 | 78 | 484.56 | 2,824.68 | 337.303 | 4.8294 |
| 24 | 26,479 | 451,345 | 2,949.260 | 16.0453 | 79 | 417.49 | 2,340.12 | 295.497 | 4.6052 |
| 25 | 25,050 | 424,866 | 2,900.223 | 15.9610 | 80 | 357.15 | 1,922.62 | 256.919 | 4.3832 |
| 26 | 23,700 | 399,816 | 2,856.724 | 15.8697 | 81 | 303.10 | 1,565.47 | 221.490 | 4.1648 |
| 27 | 22,426 | 376,116 | 2,817.850 | 15.7716 | 82 | 254.91 | 1,262.37 | 189.098 | 3.9522 |
| 28 | 21,222 | 353,690 | 2,782.788 | 15.6665 | 83 | 212.31 | 1,007.46 | 159.793 | 3.7451 |
| 29 | 20,083 | 332,468 | 2,750.189 | 15.5550 | 84 | 175.06 | 795.15 | 133.608 | 3.5421 |
| 30 | 19,004 | 312,386 | 2,718.688 | 15.4377 | 85 | 142.80 | 620.09 | 110.478 | 3.3422 |
| 31 | 17,983 | 293,381 | 2,688.069 | 15.3145 | 86 | 115.01 | 477.28 | 90.124 | 3.1500 |
| 32 | 17,015 | 275,399 | 2,657.964 | 15.1854 | 87 | 91.226 | 362.275 | 72.340 | 2.9712 |
| 33 | 16,099 | 258,383 | 2,628.403 | 15.0500 | 88 | 71.196 | 271.049 | 57.065 | 2.8071 |
| 34 | 15,230 | 242,285 | 2,599.088 | 14.9083 | 89 | 54.693 | 199.853 | 44.274 | 2.6541 |
| 35 | 14,407 | 227,055 | 2,569.765 | 14.7603 | 90 | 41.397 | 145.160 | 33.830 | 2.5065 |
| 36 | 13,626 | 212,648 | 2,540.080 | 14.6061 | 91 | 30.863 | 103.763 | 25.454 | 2.3620 |
| 37 | 12,885 | 199,022 | 2,509.873 | 14.4455 | 92 | 22.621 | 72.900 | 18.820 | 2.2227 |
| 38 | 12,182 | 186,137 | 2,478.627 | 14.2791 | 93 | 16.262 | 50.279 | 13.641 | 2.0919 |
| 39 | 11,515 | 173,954 | 2,446.159 | 14.1069 | 94 | 11.443 | 34.017 | 9.670 | 1.9727 |
| 40 | 10,881 | 162,439 | 2,412.329 | 13.9291 | 95 | 7.8738 | 22.5741 | 6.6970 | 1.8670 |
| 41 | 10,278 | 151,559 | 2,377.257 | 13.7453 | 96 | 5.2958 | 14.7003 | 4.5294 | 1.7758 |
| 42 | 9,706.4 | 141,280.1 | 2,341.059 | 13.5554 | 97 | 3.4927 | 9.4045 | 3.0024 | 1.6926 |
| 43 | 9,162.6 | 131,573.8 | 2,303.346 | 13.3598 | 98 | 2.2580 | 5.9118 | 1.9498 | 1.6182 |
| 44 | 8,645.7 | 122,411.1 | 2,264.092 | 13.1586 | 99 | 1.4318 | 3.6538 | 1.2413 | 1.5519 |
| 45 | 8,153.9 | 113,765.4 | 2,223.019 | 12.9522 | 100 | .89374 | 2.22202 | .77790 | 1.4862 |
| 46 | 7,685.9 | 105,611.5 | 2,180.083 | 12.7409 | 101 | .54684 | 1.32827 | .47759 | 1.4290 |
| 47 | 7,240.6 | 97,925.6 | 2,135.510 | 12.5244 | 102 | .32714 | .78143 | .28640 | 1.3887 |
| 48 | 6,817.0 | 90,685.0 | 2,089.357 | 12.3027 | 103 | .19330 | .45429 | .16961 | 1.3502 |
| 49 | 6,413.9 | 83,868.0 | 2,041.620 | 12.0760 | 104 | .11451 | .26098 | .10090 | 1.2791 |
| 50 | 6,030.1 | 77,454.1 | 1,992.246 | 11.8445 | 105 | .06512 | .14647 | .05749 | 1.2490 |
| 51 | 5,664.8 | 71,423.9 | 1,941.274 | 11.6084 | 106 | .03772 | .08134 | .03348 | 1.1563 |
| 52 | 5,316.8 | 65,759.1 | 1,888.634 | 11.3681 | 107 | .01950 | .04362 | .01723 | 1.2364 |
| 53 | 4,985.2 | 60,442.3 | 1,834.171 | 11.1244 | 108 | .01232 | .02411 | .01106 | .9566 |
| 54 | 4,668.9 | 55,457.1 | 1,777.773 | 10.8780 | 109 | .00584 | .01179 | .00522 | 1.0185 |

TABLE 29. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 6 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,676,182 | 5,121.761 | 15.7618 | 55 | 3,367.1 | 37,641.2 | 1,236.502 | 10.1790 |
| 1 | 92,447 | 1,576,182 | 3,229.309 | 16.0495 | 56 | 3,130.4 | 34,274.1 | 1,190.385 | 9.9487 |
| 2 | 87,113 | 1,483,735 | 3,127.849 | 16.0323 | 57 | 2,906.2 | 31,143.6 | 1,143.304 | 9.7165 |
| 3 | 82,114 | 1,396,622 | 3,059.840 | 16.0083 | 58 | 2,693.8 | 28,237.5 | 1,095.483 | 9.4823 |
| 4 | 77,410 | 1,314,508 | 3,003.601 | 15.9812 | 59 | 2,492.9 | 25,543.7 | 1,047.026 | 9.2466 |
| 5 | 72,985 | 1,237,099 | 2,961.007 | 15.9499 | 60 | 2,302.9 | 23,050.8 | 998.189 | 9.0092 |
| 6 | 68,818 | 1,164,113 | 2,924.349 | 15.9159 | 61 | 2,123.5 | 20,747.8 | 949.114 | 8.7705 |
| 7 | 64,889 | 1,095,296 | 2,891.097 | 15.8795 | 62 | 1,954.2 | 18,624.3 | 900.011 | 8.5303 |
| 8 | 61,187 | 1,030,407 | 2,861.608 | 15.8404 | 63 | 1,794.6 | 16,670.1 | 851.041 | 8.2889 |
| 9 | 57,698 | 969,220 | 2,836.157 | 15.7983 | 64 | 1,644.3 | 14,875.5 | 802.297 | 8.0467 |
| 10 | 54,411 | 911,522 | 2,814.938 | 15.7527 | 65 | 1,502.8 | 13,231.2 | 753.911 | 7.8041 |
| 11 | 51,314 | 857,112 | 2,798.080 | 15.7033 | 66 | 1,369.8 | 11,728.3 | 705.913 | 7.5622 |
| 12 | 48,393 | 805,798 | 2,782.177 | 15.6510 | 67 | 1,244.8 | 10,358.5 | 658.434 | 7.3217 |
| 13 | 45,636 | 757,405 | 2,764.361 | 15.5965 | 68 | 1,127.6 | 9,113.8 | 611.722 | 7.0825 |
| 14 | 43,029 | 711,768 | 2,740.477 | 15.5415 | 69 | 1,018.2 | 7,986.2 | 566.147 | 6.8435 |
| 15 | 40,562 | 668,739 | 2,708.348 | 15.4870 | 70 | 916.41 | 6,967.97 | 522.000 | 6.6035 |
| 16 | 38,225 | 628,178 | 2,667.409 | 15.4338 | 71 | 822.03 | 6,051.56 | 479.490 | 6.3617 |
| 17 | 36,013 | 589,953 | 2,619.131 | 15.3818 | 72 | 734.70 | 5,229.53 | 438.693 | 6.1179 |
| 18 | 33,921 | 553,940 | 2,565.879 | 15.3303 | 73 | 653.92 | 4,494.82 | 399.495 | 5.8737 |
| 19 | 31,946 | 520,019 | 2,510.683 | 15.2782 | 74 | 579.16 | 3,840.90 | 361.752 | 5.6318 |
| 20 | 30,083 | 488,074 | 2,456.117 | 15.2243 | 75 | 510.06 | 3,261.74 | 325.436 | 5.3948 |
| 21 | 28,326 | 457,991 | 2,402.287 | 15.1684 | 76 | 446.39 | 2,751.68 | 290.639 | 5.1642 |
| 22 | 26,669 | 429,664 | 2,348.728 | 15.1108 | 77 | 388.10 | 2,305.29 | 257.609 | 4.9400 |
| 23 | 25,108 | 402,995 | 2,296.893 | 15.0505 | 78 | 335.11 | 1,917.19 | 226.587 | 4.7211 |
| 24 | 23,639 | 377,887 | 2,248.732 | 14.9860 | 79 | 287.36 | 1,582.08 | 197.811 | 4.5055 |
| 25 | 22,257 | 354,248 | 2,205.161 | 14.9163 | 80 | 244.67 | 1,294.72 | 171.783 | 4.2917 |
| 26 | 20,959 | 331,992 | 2,166.494 | 14.8403 | 81 | 206.66 | 1,050.05 | 147.227 | 4.0810 |
| 27 | 19,738 | 311,033 | 2,132.479 | 14.7580 | 82 | 172.98 | 843.39 | 125.245 | 3.8755 |
| 28 | 18,590 | 291,295 | 2,101.765 | 14.6693 | 83 | 143.40 | 670.40 | 105.452 | 3.6751 |
| 29 | 17,509 | 272,705 | 2,073.343 | 14.5747 | 84 | 117.68 | 527.00 | 87.850 | 3.4783 |
| 30 | 16,491 | 255,195 | 2,046.008 | 14.4748 | 85 | 95.544 | 409.323 | 72.375 | 3.2841 |
| 31 | 15,531 | 238,704 | 2,019.563 | 14.3694 | 86 | 76.582 | 313.779 | 58.821 | 3.0973 |
| 32 | 14,626 | 223,173 | 1,993.685 | 14.2585 | 87 | 60.461 | 237.196 | 47.035 | 2.9231 |
| 33 | 13,773 | 208,547 | 1,968.394 | 14.1418 | 88 | 46.963 | 176.735 | 36.959 | 2.7633 |
| 34 | 12,968 | 194,774 | 1,943.432 | 14.0192 | 89 | 35.907 | 129.773 | 28.561 | 2.6141 |
| 35 | 12,209 | 181,806 | 1,918.582 | 13.8905 | 90 | 27.050 | 93.866 | 21.737 | 2.4701 |
| 36 | 11,493 | 169,596 | 1,893.543 | 13.7561 | 91 | 20.071 | 66.816 | 16.289 | 2.3289 |
| 37 | 10,817 | 158,103 | 1,868.784 | 13.6156 | 92 | 14.642 | 46.744 | 11.996 | 2.1925 |
| 38 | 10,179 | 147,285 | 1,842.076 | 13.4696 | 93 | 10.476 | 32.102 | 8.659 | 2.0643 |
| 39 | 9,575.8 | 137,106.4 | 1,815.076 | 13.3180 | 94 | 7.3371 | 21.6263 | 6.1130 | 1.9475 |
| 40 | 9,005.8 | 127,530.6 | 1,787.076 | 13.1610 | 95 | 5.0247 | 14.2892 | 4.2159 | 1.8438 |
| 41 | 8,467.1 | 118,524.8 | 1,758.184 | 12.9982 | 96 | 3.3636 | 9.2644 | 2.8392 | 1.7543 |
| 42 | 7,958.2 | 110,057.7 | 1,728.505 | 12.8295 | 97 | 2.2079 | 5.9008 | 1.8739 | 1.6726 |
| 43 | 7,476.9 | 102,099.5 | 1,697.731 | 12.6552 | 98 | 1.4206 | 3.6929 | 1.2116 | 1.5995 |
| 44 | 7,021.8 | 94,622.5 | 1,665.849 | 12.4755 | 99 | .89660 | 2.27228 | .76798 | 1.5343 |
| 45 | 6,591.2 | 87,600.7 | 1,632.648 | 12.2906 | 100 | .55702 | 1.37568 | .47915 | 1.4697 |
| 46 | 6,183.5 | 81,009.5 | 1,598.105 | 12.1008 | 101 | .33920 | .81865 | .29287 | 1.4134 |
| 47 | 5,797.8 | 74,826.0 | 1,562.414 | 11.9058 | 102 | .20197 | .47944 | .17483 | 1.3738 |
| 48 | 5,432.9 | 69,028.1 | 1,525.632 | 11.7056 | 103 | .11877 | .27747 | .10307 | 1.3361 |
| 49 | 5,087.5 | 63,595.2 | 1,487.767 | 11.5003 | 104 | .07003 | .15869 | .06105 | 1.2660 |
| 50 | 4,760.5 | 58,507.7 | 1,448.788 | 11.2901 | 105 | .03964 | .08866 | .03462 | 1.2365 |
| 51 | 4,451.0 | 53,747.2 | 1,408.737 | 11.0752 | 106 | .02285 | .04901 | .02007 | 1.1448 |
| 52 | 4,157.9 | 49,296.2 | 1,367.572 | 10.8560 | 107 | .01176 | .02616 | .01027 | 1.2247 |
| 53 | 3,880.2 | 45,138.2 | 1,325.181 | 10.6330 | 108 | .00739 | .01440 | .00658 | .9473 |
| 54 | 3,616.9 | 41,258.1 | 1,281.491 | 10.4072 | 109 | .00348 | .00700 | .00309 | 1.0083 |

TABLE 30. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 6.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,564,159 | 4,534.889 | 14.6416 | 55 | 2,599.3 | 27,968.9 | 892.270 | 9.7602 |
| 1 | 92,013 | 1,464,159 | 2,651.321 | 14.9125 | 56 | 2,405.2 | 25,369.6 | 856.837 | 9.5477 |
| 2 | 86,297 | 1,372,146 | 2,550.811 | 14.9003 | 57 | 2,222.4 | 22,964.4 | 820.833 | 9.3331 |
| 3 | 80,963 | 1,285,849 | 2,483.756 | 14.8820 | 58 | 2,050.4 | 20,742.0 | 784.434 | 9.1162 |
| 4 | 75,966 | 1,204,886 | 2,428.566 | 14.8608 | 59 | 1,888.5 | 18,697.6 | 747.725 | 8.8974 |
| 5 | 71,288 | 1,128,920 | 2,386.963 | 14.8360 | 60 | 1,736.4 | 16,803.1 | 710.902 | 8.6767 |
| 6 | 66,902 | 1,057,632 | 2,351.325 | 14.8088 | 61 | 1,593.6 | 15,066.6 | 674.073 | 8.4543 |
| 7 | 62,786 | 990,730 | 2,319.150 | 14.7794 | 62 | 1,459.7 | 13,473.0 | 637.396 | 8.2300 |
| 8 | 58,926 | 927,944 | 2,290.751 | 14.7477 | 63 | 1,334.2 | 12,013.3 | 600.989 | 8.0042 |
| 9 | 55,305 | 869,018 | 2,266.355 | 14.7132 | 64 | 1,216.7 | 10,679.1 | 564.921 | 7.7771 |
| 10 | 51,909 | 813,713 | 2,246.111 | 14.6757 | 65 | 1,106.8 | 9,462.4 | 529.286 | 7.5493 |
| 11 | 48,725 | 761,804 | 2,230.104 | 14.6347 | 66 | 1,004.1 | 8,355.6 | 494.103 | 7.3217 |
| 12 | 45,736 | 713,079 | 2,215.075 | 14.5911 | 67 | 908.15 | 7,351.53 | 459.464 | 7.0951 |
| 13 | 42,928 | 667,342 | 2,198.316 | 14.5456 | 68 | 818.80 | 6,443.38 | 425.544 | 6.8693 |
| 14 | 40,286 | 624,414 | 2,175.954 | 14.4996 | 69 | 735.89 | 5,624.58 | 392.605 | 6.6432 |
| 15 | 37,797 | 584,128 | 2,146.015 | 14.4543 | 70 | 659.22 | 4,888.69 | 360.848 | 6.4159 |
| 16 | 35,452 | 546,331 | 2,108.045 | 14.4104 | 71 | 588.55 | 4,229.47 | 330.412 | 6.1863 |
| 17 | 33,244 | 510,879 | 2,063.479 | 14.3676 | 72 | 523.56 | 3,640.92 | 301.340 | 5.9542 |
| 18 | 31,166 | 477,635 | 2,014.552 | 14.3255 | 73 | 463.80 | 3,117.36 | 273.539 | 5.7213 |
| 19 | 29,213 | 446,469 | 1,964.077 | 14.2830 | 74 | 408.85 | 2,653.56 | 246.894 | 5.4903 |
| 20 | 27,381 | 417,256 | 1,914.413 | 14.2390 | 75 | 358.38 | 2,244.71 | 221.378 | 5.2635 |
| 21 | 25,661 | 389,875 | 1,865.648 | 14.1934 | 76 | 312.17 | 1,886.33 | 197.044 | 5.0426 |
| 22 | 24,046 | 364,214 | 1,817.357 | 14.1463 | 77 | 270.13 | 1,574.16 | 174.054 | 4.8274 |
| 23 | 22,532 | 340,168 | 1,770.838 | 14.0969 | 78 | 232.15 | 1,304.03 | 152.562 | 4.6172 |
| 24 | 21,114 | 317,636 | 1,727.821 | 14.0438 | 79 | 198.14 | 1,071.88 | 132.721 | 4.4097 |
| 25 | 19,787 | 296,522 | 1,689.086 | 13.9859 | 80 | 167.91 | 873.74 | 114.584 | 4.2036 |
| 26 | 18,545 | 276,735 | 1,655.049 | 13.9224 | 81 | 141.16 | 765.83 | 98.084 | 4.0001 |
| 27 | 17,383 | 258,190 | 1,624.916 | 13.8530 | 82 | 117.60 | 664.67 | 83.140 | 3.8015 |
| 28 | 16,295 | 240,807 | 1,597.994 | 13.7778 | 83 | 97.032 | 574.063 | 69.747 | 3.6074 |
| 29 | 15,276 | 224,512 | 1,573.198 | 13.6972 | 84 | 79.256 | 490.031 | 57.892 | 3.4165 |
| 30 | 14,320 | 209,236 | 1,549.462 | 13.6117 | 85 | 64.045 | 417.775 | 47.519 | 3.2279 |
| 31 | 13,423 | 194,916 | 1,526.606 | 13.5212 | 86 | 51.094 | 352.730 | 38.476 | 3.0461 |
| 32 | 12,581 | 181,493 | 1,504.346 | 13.4255 | 87 | 40.148 | 295.637 | 30.650 | 2.8765 |
| 33 | 11,792 | 168,912 | 1,482.694 | 13.3244 | 88 | 31.039 | 244.488 | 23.990 | 2.7208 |
| 34 | 11,051 | 157,120 | 1,461.422 | 13.2178 | 89 | 23.620 | 198.449 | 18.466 | 2.5753 |
| 35 | 10,355 | 146,069 | 1,440.346 | 13.1057 | 90 | 17.710 | 150.829 | 13.998 | 2.4347 |
| 36 | 9,702.2 | 135,713.9 | 1,419.209 | 12.9879 | 91 | 13.080 | 111.119 | 10.448 | 2.2966 |
| 37 | 9,088.8 | 126,011.7 | 1,397.903 | 12.8646 | 92 | 9.4967 | 80.0391 | 7.6633 | 2.1631 |
| 38 | 8,512.2 | 116,922.9 | 1,376.070 | 12.7359 | 93 | 6.7629 | 56.5423 | 5.5092 | 2.0375 |
| 39 | 7,970.2 | 108,410.7 | 1,353.596 | 12.6020 | 94 | 4.7143 | 40.7794 | 3.8733 | 1.9229 |
| 40 | 7,460.6 | 100,440.5 | 1,330.401 | 12.4628 | 95 | 3.2133 | 28.0652 | 2.6601 | 1.8211 |
| 41 | 6,981.4 | 92,979.9 | 1,306.579 | 12.3182 | 96 | 2.1409 | 19.8518 | 1.7838 | 1.7333 |
| 42 | 6,531.0 | 85,998.5 | 1,282.222 | 12.1678 | 97 | 1.3987 | 13.7109 | 1.1723 | 1.6530 |
| 43 | 6,107.2 | 79,467.5 | 1,257.086 | 12.0121 | 98 | .89576 | 9.31213 | .75465 | 1.5812 |
| 44 | 5,708.6 | 73,360.3 | 1,231.167 | 11.8509 | 99 | .56269 | 6.41637 | .47624 | 1.5171 |
| 45 | 5,333.3 | 67,651.8 | 1,204.302 | 11.6848 | 100 | .34793 | .85367 | .29583 | 1.4535 |
| 46 | 4,980.0 | 62,318.5 | 1,176.482 | 11.5139 | 101 | .21086 | .50574 | .18001 | 1.3982 |
| 47 | 4,647.4 | 57,338.5 | 1,147.873 | 11.3377 | 102 | .12497 | .29485 | .10698 | 1.3593 |
| 48 | 4,334.4 | 52,691.1 | 1,118.528 | 11.1564 | 103 | .07315 | .16987 | .06278 | 1.3222 |
| 49 | 4,039.8 | 48,356.7 | 1,088.461 | 10.9700 | 104 | .04293 | .09672 | .03702 | 1.2531 |
| 50 | 3,762.4 | 44,316.9 | 1,057.654 | 10.7788 | 105 | .02418 | .05379 | .02090 | 1.2243 |
| 51 | 3,501.3 | 40,554.4 | 1,026.149 | 10.5827 | 106 | .01387 | .02960 | .01207 | 1.1936 |
| 52 | 3,255.4 | 37,053.1 | 993.919 | 10.3821 | 107 | .00710 | .01573 | .00614 | 1.1633 |
| 53 | 3,023.7 | 33,797.8 | 960.886 | 10.1778 | 108 | .00444 | .00862 | .00392 | .9382 |
| 54 | 2,805.2 | 30,774.1 | 927.000 | 9.9703 | 109 | .00208 | .00417 | .00183 | .9983 |

TABLE 31. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 7 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,466,151 | 4,083.598 | 13.6615 | 55 | 2,009.0 | 20,833.7 | 646.028 | 9.3703 |
| 1 | 91,583 | 1,366,151 | 2,208.832 | 13.9170 | 56 | 1,850.3 | 18,824.7 | 618.770 | 9.1739 |
| 2 | 85,492 | 1,274,568 | 2,109.260 | 13.9086 | 57 | 1,701.7 | 16,974.4 | 591.202 | 8.9751 |
| 3 | 79,833 | 1,189,075 | 2,043.139 | 13.8945 | 58 | 1,562.6 | 15,272.7 | 563.462 | 8.7738 |
| 4 | 74,556 | 1,109,242 | 1,988.974 | 13.8779 | 59 | 1,432.5 | 13,710.1 | 535.616 | 8.5705 |
| 5 | 69,638 | 1,034,686 | 1,948.334 | 13.8581 | 60 | 1,311.0 | 12,277.6 | 507.814 | 8.3649 |
| 6 | 65,048 | 965,048 | 1,913.684 | 13.8360 | 61 | 1,197.6 | 10,966.6 | 480.138 | 8.1573 |
| 7 | 60,761 | 900,000 | 1,882.546 | 13.8121 | 62 | 1,091.8 | 9,769.0 | 452.705 | 7.9476 |
| 8 | 56,759 | 839,239 | 1,855.192 | 13.7861 | 63 | 993.27 | 8,677.19 | 425.601 | 7.7360 |
| 9 | 53,022 | 782,481 | 1,831.803 | 13.7576 | 64 | 901.56 | 7,683.92 | 398.875 | 7.5229 |
| 10 | 49,534 | 729,458 | 1,812.485 | 13.7264 | 65 | 816.30 | 6,782.36 | 372.594 | 7.3087 |
| 11 | 46,278 | 679,924 | 1,797.282 | 13.6921 | 66 | 737.07 | 5,966.06 | 346.766 | 7.0943 |
| 12 | 43,237 | 633,646 | 1,783.074 | 13.6553 | 67 | 663.54 | 5,228.99 | 321.457 | 6.8804 |
| 13 | 40,392 | 590,409 | 1,767.305 | 13.6169 | 68 | 595.46 | 4,565.45 | 296.789 | 6.6671 |
| 14 | 37,729 | 550,017 | 1,746.363 | 13.5782 | 69 | 532.67 | 3,969.99 | 272.947 | 6.4531 |
| 15 | 35,233 | 512,288 | 1,718.455 | 13.5402 | 70 | 474.94 | 3,437.32 | 250.067 | 6.2374 |
| 16 | 32,892 | 477,056 | 1,683.227 | 13.5035 | 71 | 422.04 | 2,962.38 | 228.242 | 6.0192 |
| 17 | 30,699 | 444,163 | 1,642.072 | 13.4681 | 72 | 373.68 | 2,540.34 | 207.492 | 5.7981 |
| 18 | 28,646 | 413,464 | 1,597.101 | 13.4335 | 73 | 329.49 | 2,166.66 | 187.742 | 5.5759 |
| 19 | 26,726 | 384,818 | 1,550.924 | 13.3987 | 74 | 289.09 | 1,837.17 | 168.902 | 5.3550 |
| 20 | 24,932 | 358,092 | 1,505.700 | 13.3626 | 75 | 252.22 | 1,548.08 | 150.944 | 5.1378 |
| 21 | 23,257 | 333,160 | 1,461.503 | 13.3251 | 76 | 218.67 | 1,295.86 | 133.898 | 4.9260 |
| 22 | 21,692 | 309,903 | 1,417.941 | 13.2865 | 77 | 188.34 | 1,077.19 | 117.869 | 4.7194 |
| 23 | 20,231 | 288,211 | 1,376.173 | 13.2459 | 78 | 161.10 | 888.85 | 102.955 | 4.5172 |
| 24 | 18,869 | 267,980 | 1,337.730 | 13.2020 | 79 | 136.86 | 727.75 | 89.250 | 4.3175 |
| 25 | 17,600 | 249,110 | 1,303.275 | 13.1538 | 80 | 115.44 | 590.89 | 76.781 | 4.1187 |
| 26 | 16,419 | 231,510 | 1,273.141 | 13.1004 | 81 | 96.595 | 475.449 | 65.490 | 3.9221 |
| 27 | 15,318 | 215,092 | 1,246.587 | 13.0418 | 82 | 80.097 | 378.854 | 55.312 | 3.7299 |
| 28 | 14,292 | 199,774 | 1,222.974 | 12.9777 | 83 | 65.778 | 298.757 | 46.233 | 3.5419 |
| 29 | 13,336 | 185,481 | 1,201.327 | 12.9087 | 84 | 53.476 | 232.979 | 38.234 | 3.3567 |
| 30 | 12,443 | 172,146 | 1,180.703 | 12.8352 | 85 | 43.011 | 179.503 | 31.268 | 3.1734 |
| 31 | 11,609 | 159,703 | 1,160.936 | 12.7571 | 86 | 34.153 | 136.492 | 25.224 | 2.9965 |
| 32 | 10,830 | 148,094 | 1,141.775 | 12.6742 | 87 | 26.711 | 102.339 | 20.016 | 2.8313 |
| 33 | 10,103 | 137,264 | 1,123.223 | 12.5863 | 88 | 20.554 | 75.628 | 15.606 | 2.6794 |
| 34 | 9,424.0 | 127,161.0 | 1,105.083 | 12.4933 | 89 | 15.568 | 55.074 | 11.965 | 2.5375 |
| 35 | 8,789.6 | 117,737.0 | 1,087.194 | 12.3950 | 90 | 11.619 | 39.505 | 9.034 | 2.4002 |
| 36 | 8,196.7 | 108,947.3 | 1,069.336 | 12.2916 | 91 | 8.5406 | 27.8865 | 6.7163 | 2.2652 |
| 37 | 7,642.6 | 100,750.6 | 1,051.420 | 12.1828 | 92 | 6.1720 | 19.3459 | 4.9064 | 2.1344 |
| 38 | 7,124.3 | 93,108.0 | 1,033.147 | 12.0690 | 93 | 4.3748 | 13.1739 | 3.5129 | 2.0113 |
| 39 | 6,639.5 | 85,983.7 | 1,014.426 | 11.9503 | 94 | 3.0353 | 8.7991 | 2.4597 | 1.8989 |
| 40 | 6,185.9 | 79,344.2 | 995.193 | 11.8265 | 95 | 2.0593 | 5.7638 | 1.6822 | 1.7990 |
| 41 | 5,761.6 | 73,158.2 | 975.533 | 11.6976 | 96 | 1.3656 | 3.7045 | 1.1233 | 1.7127 |
| 42 | 5,364.7 | 67,396.7 | 955.527 | 11.5631 | 97 | .88802 | 2.33894 | .73500 | 1.6339 |
| 43 | 4,993.1 | 62,032.0 | 934.976 | 11.4234 | 98 | .56603 | 1.45091 | .47111 | 1.5633 |
| 44 | 4,645.4 | 57,038.9 | 913.884 | 11.2786 | 99 | .35390 | .88487 | .29601 | 1.5003 |
| 45 | 4,319.7 | 52,393.5 | 892.124 | 11.1289 | 100 | .21781 | .53097 | .18307 | 1.4377 |
| 46 | 4,014.7 | 48,073.7 | 869.697 | 10.9744 | 101 | .13140 | .31315 | .11091 | 1.3832 |
| 47 | 3,729.1 | 44,059.0 | 846.741 | 10.8149 | 102 | .07750 | .18175 | .06561 | 1.3450 |
| 48 | 3,461.7 | 40,329.9 | 823.304 | 10.6503 | 103 | .04515 | .10425 | .03833 | 1.3087 |
| 49 | 3,211.3 | 36,868.2 | 799.403 | 10.4806 | 104 | .02637 | .05909 | .02250 | 1.2405 |
| 50 | 2,976.9 | 33,656.9 | 775.028 | 10.3061 | 105 | .01479 | .03271 | .01264 | 1.2122 |
| 51 | 2,757.3 | 30,680.0 | 750.218 | 10.1267 | 106 | .00844 | .01792 | .00727 | 1.1225 |
| 52 | 2,551.7 | 27,922.7 | 724.955 | 9.9429 | 107 | .00430 | .00948 | .00368 | 1.2020 |
| 53 | 2,359.0 | 25,371.0 | 699.183 | 9.7551 | 108 | .00268 | .00517 | .00234 | .9292 |
| 54 | 2,178.3 | 23,012.0 | 672.870 | 9.5641 | 109 | .00125 | .00249 | .00109 | .9885 |

TABLE 32. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 7.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,379,834 | 3,732.516 | 12.7983 | 55 | 1,554.6 | 15,556.4 | 469.270 | 9.0067 |
| 1 | 91,157 | 1,279,834 | 1,866.470 | 13.0399 | 56 | 1,425.1 | 14,001.8 | 448.275 | 8.8248 |
| 2 | 84,699 | 1,188,677 | 1,767.822 | 13.0342 | 57 | 1,304.6 | 12,576.6 | 427.140 | 8.6404 |
| 3 | 78,724 | 1,103,978 | 1,702.620 | 13.0233 | 58 | 1,192.4 | 11,272.0 | 405.973 | 8.4533 |
| 4 | 73,179 | 1,025,254 | 1,649.455 | 13.0103 | 59 | 1,088.1 | 10,079.6 | 384.823 | 8.2639 |
| 5 | 68,034 | 952,075 | 1,609.751 | 12.9942 | 60 | 991.13 | 8,991.59 | 363.805 | 8.0721 |
| 6 | 63,253 | 884,041 | 1,576.057 | 12.9762 | 61 | 901.15 | 8,000.46 | 342.979 | 7.8780 |
| 7 | 58,810 | 820,788 | 1,545.919 | 12.9566 | 62 | 817.73 | 7,099.31 | 322.433 | 7.6817 |
| 8 | 54,681 | 761,978 | 1,519.566 | 12.9350 | 63 | 740.48 | 6,281.58 | 302.227 | 7.4832 |
| 9 | 50,843 | 707,297 | 1,497.138 | 12.9113 | 64 | 668.98 | 5,541.10 | 282.395 | 7.2829 |
| 10 | 47,278 | 656,453 | 1,478.701 | 12.8850 | 65 | 602.90 | 4,872.12 | 262.984 | 7.0811 |
| 11 | 43,965 | 609,176 | 1,464.258 | 12.8560 | 66 | 541.85 | 4,269.22 | 243.998 | 6.8790 |
| 12 | 40,884 | 565,211 | 1,450.823 | 12.8247 | 67 | 485.53 | 3,727.37 | 225.478 | 6.6769 |
| 13 | 38,017 | 524,327 | 1,435.981 | 12.7919 | 68 | 433.69 | 3,241.84 | 207.512 | 6.4751 |
| 14 | 35,345 | 486,310 | 1,416.362 | 12.7590 | 69 | 386.15 | 2,808.15 | 190.228 | 6.2723 |
| 15 | 32,853 | 450,965 | 1,390.339 | 12.7267 | 70 | 342.70 | 2,422.01 | 173.719 | 6.0675 |
| 16 | 30,528 | 418,112 | 1,357.643 | 12.6959 | 71 | 303.11 | 2,079.31 | 158.044 | 5.8599 |
| 17 | 28,360 | 387,584 | 1,319.624 | 12.6664 | 72 | 267.13 | 1,776.20 | 143.211 | 5.6491 |
| 18 | 26,340 | 359,223 | 1,278.272 | 12.6378 | 73 | 234.44 | 1,509.07 | 129.158 | 5.4369 |
| 19 | 24,460 | 332,883 | 1,236.010 | 12.6091 | 74 | 204.74 | 1,274.63 | 115.815 | 5.2255 |
| 20 | 22,713 | 308,422 | 1,194.812 | 12.5793 | 75 | 177.80 | 1,069.88 | 103.156 | 5.0174 |
| 21 | 21,088 | 285,710 | 1,154.737 | 12.5485 | 76 | 153.43 | 892.08 | 91.195 | 4.8141 |
| 22 | 19,577 | 264,622 | 1,115.421 | 12.5167 | 77 | 131.53 | 738.65 | 80.001 | 4.6156 |
| 23 | 18,174 | 245,044 | 1,077.901 | 12.4832 | 78 | 111.99 | 607.12 | 69.633 | 4.4211 |
| 24 | 16,872 | 226,870 | 1,043.527 | 12.4468 | 79 | 94.695 | 495.126 | 60.151 | 4.2287 |
| 25 | 15,664 | 209,999 | 1,012.862 | 12.4065 | 80 | 79.501 | 400.431 | 51.564 | 4.0368 |
| 26 | 14,544 | 194,335 | 986.168 | 12.3615 | 81 | 66.214 | 320.930 | 43.824 | 3.8468 |
| 27 | 13,506 | 179,790 | 962.755 | 12.3116 | 82 | 54.650 | 254.716 | 36.879 | 3.6608 |
| 28 | 12,543 | 166,284 | 942.032 | 12.2569 | 83 | 44.672 | 200.066 | 30.714 | 3.4786 |
| 29 | 11,649 | 153,741 | 923.122 | 12.1975 | 84 | 36.148 | 155.394 | 25.307 | 3.2988 |
| 30 | 10,819 | 142,092 | 905.190 | 12.1341 | 85 | 28.939 | 119.246 | 20.619 | 3.1206 |
| 31 | 10,047 | 131,273 | 888.083 | 12.0663 | 86 | 22.872 | 90.307 | 16.572 | 2.9484 |
| 32 | 9,329.2 | 121,226.4 | 871.577 | 11.9943 | 87 | 17.805 | 67.435 | 13.100 | 2.7874 |
| 33 | 8,662.4 | 111,897.2 | 855.671 | 11.9175 | 88 | 13.637 | 49.630 | 10.175 | 2.6393 |
| 34 | 8,042.6 | 103,234.7 | 840.190 | 11.8360 | 89 | 10.281 | 35.992 | 7.770 | 2.5008 |
| 35 | 7,466.3 | 95,192.1 | 824.994 | 11.7496 | 90 | 7.6372 | 25.7111 | 5.8434 | 2.3666 |
| 36 | 6,930.3 | 87,725.8 | 809.896 | 11.6583 | 91 | 5.5878 | 18.0740 | 4.3268 | 2.2345 |
| 37 | 6,431.7 | 80,795.5 | 794.818 | 11.5620 | 92 | 4.0194 | 12.4862 | 3.1482 | 2.1065 |
| 38 | 5,967.7 | 74,363.8 | 779.512 | 11.4611 | 93 | 2.8357 | 8.4668 | 2.2450 | 1.9858 |
| 39 | 5,535.7 | 68,396.1 | 763.903 | 11.3554 | 94 | 1.9583 | 5.6311 | 1.5654 | 1.8755 |
| 40 | 5,133.5 | 62,860.4 | 747.942 | 11.2450 | 95 | 1.3224 | 3.6728 | 1.0662 | 1.7774 |
| 41 | 4,759.2 | 57,726.8 | 731.703 | 11.1296 | 96 | .87288 | 2.35038 | .70890 | 1.6927 |
| 42 | 4,410.7 | 52,967.7 | 715.254 | 11.0090 | 97 | .56497 | 1.47750 | .46189 | 1.6152 |
| 43 | 4,086.1 | 48,557.0 | 698.436 | 10.8834 | 98 | .35844 | .91252 | .29478 | 1.5458 |
| 44 | 3,783.9 | 44,470.9 | 681.255 | 10.7527 | 99 | .22307 | .55407 | .18441 | 1.4839 |
| 45 | 3,502.2 | 40,687.0 | 663.614 | 10.6174 | 100 | .13665 | .33100 | .11355 | 1.4223 |
| 46 | 3,239.8 | 37,184.8 | 645.515 | 10.4775 | 101 | .08205 | .19435 | .06849 | 1.3686 |
| 47 | 2,995.3 | 33,945.0 | 627.076 | 10.3326 | 102 | .04817 | .11230 | .04034 | 1.3111 |
| 48 | 2,767.6 | 30,949.6 | 608.339 | 10.1828 | 103 | .02793 | .06412 | .02346 | 1.2594 |
| 49 | 2,555.5 | 28,182.0 | 589.319 | 10.0280 | 104 | .01624 | .03618 | .01371 | 1.2282 |
| 50 | 2,357.9 | 25,626.5 | 570.012 | 9.8683 | 105 | .00906 | .01994 | .00767 | 1.2004 |
| 51 | 2,173.8 | 23,268.6 | 550.452 | 9.7039 | 106 | .00515 | .01088 | .00439 | 1.1717 |
| 52 | 2,002.4 | 21,094.8 | 530.628 | 9.5350 | 107 | .00261 | .00572 | .00221 | 1.1910 |
| 53 | 1,842.5 | 19,092.4 | 510.499 | 9.3621 | 108 | .00162 | .00311 | .00140 | .9204 |
| 54 | 1,693.5 | 17,249.9 | 490.041 | 9.1858 | 109 | .00075 | .00149 | .00065 | .9789 |

TABLE 33. UNITED STATES WHITE MALES: 1969-71--ACTUARIAL FUNCTIONS AT 8 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,303,343 | 3,456.097 | 12.0334 | 55 | 1,204.4 | 11,643.2 | 341.960 | 8.6671 |
| 1 | 90,735 | 1,203,343 | 1,598.689 | 12.2621 | 56 | 1,099.0 | 10,438.7 | 325.770 | 8.4983 |
| 2 | 83,916 | 1,112,608 | 1,500.953 | 12.2585 | 57 | 1,001.4 | 9,339.7 | 309.547 | 8.3269 |
| 3 | 77,636 | 1,028,691 | 1,436.652 | 12.2502 | 58 | 911.03 | 8,338.36 | 293.374 | 8.1527 |
| 4 | 71,833 | 951,055 | 1,384.465 | 12.2398 | 59 | 827.46 | 7,427.33 | 277.290 | 7.9760 |
| 5 | 66,473 | 879,222 | 1,345.672 | 12.2267 | 60 | 750.26 | 6,599.86 | 261.380 | 7.7968 |
| 6 | 61,517 | 812,749 | 1,312.903 | 12.2119 | 61 | 678.99 | 5,849.61 | 245.688 | 7.6151 |
| 7 | 56,931 | 751,232 | 1,283.729 | 12.1956 | 62 | 613.29 | 5,170.61 | 230.278 | 7.4310 |
| 8 | 52,688 | 694,302 | 1,258.336 | 12.1776 | 63 | 552.77 | 4,557.33 | 215.195 | 7.2445 |
| 9 | 48,764 | 641,614 | 1,236.825 | 12.1576 | 64 | 497.09 | 4,004.55 | 200.459 | 7.0560 |
| 10 | 45,134 | 592,850 | 1,219.224 | 12.1353 | 65 | 445.91 | 3,507.46 | 186.102 | 6.8658 |
| 11 | 41,777 | 547,716 | 1,205.500 | 12.1105 | 66 | 398.91 | 3,061.55 | 172.124 | 6.6749 |
| 12 | 38,670 | 505,939 | 1,192.792 | 12.0836 | 67 | 355.79 | 2,662.64 | 158.553 | 6.4838 |
| 13 | 35,791 | 467,269 | 1,178.819 | 12.0554 | 68 | 316.33 | 2,306.85 | 145.449 | 6.2926 |
| 14 | 33,122 | 431,478 | 1,160.434 | 12.0270 | 69 | 280.35 | 1,990.53 | 132.901 | 6.1002 |
| 15 | 30,644 | 398,356 | 1,136.161 | 11.9995 | 70 | 247.65 | 1,710.18 | 120.970 | 5.9056 |
| 16 | 28,344 | 367,712 | 1,105.804 | 11.9733 | 71 | 218.03 | 1,462.53 | 109.695 | 5.7079 |
| 17 | 26,209 | 339,368 | 1,070.669 | 11.9485 | 72 | 191.26 | 1,244.50 | 99.075 | 5.5068 |
| 18 | 24,230 | 313,159 | 1,032.631 | 11.9246 | 73 | 167.08 | 1,053.24 | 89.060 | 5.3039 |
| 19 | 22,396 | 288,930 | 993.935 | 11.9009 | 74 | 145.24 | 886.16 | 79.595 | 5.1015 |
| 20 | 20,700 | 266,533 | 956.390 | 11.8763 | 75 | 125.54 | 740.92 | 70.657 | 4.9019 |
| 21 | 19,130 | 245,834 | 920.036 | 11.8507 | 76 | 107.83 | 615.39 | 62.251 | 4.7067 |
| 22 | 17,677 | 226,704 | 884.535 | 11.8245 | 77 | 92.016 | 507.550 | 54.419 | 4.5159 |
| 23 | 16,334 | 209,027 | 850.813 | 11.7968 | 78 | 77.981 | 415.534 | 47.200 | 4.3287 |
| 24 | 15,094 | 192,692 | 820.061 | 11.7665 | 79 | 65.632 | 337.554 | 40.628 | 4.1431 |
| 25 | 13,948 | 177,599 | 792.756 | 11.7327 | 80 | 54.846 | 271.921 | 34.704 | 3.9579 |
| 26 | 12,891 | 163,650 | 769.096 | 11.6946 | 81 | 45.469 | 217.075 | 29.389 | 3.7741 |
| 27 | 11,916 | 150,759 | 748.440 | 11.6521 | 82 | 37.354 | 171.606 | 24.643 | 3.5940 |
| 28 | 11,015 | 138,843 | 730.241 | 11.6050 | 83 | 30.392 | 134.252 | 20.448 | 3.4173 |
| 29 | 10,182 | 127,828 | 713.713 | 11.5538 | 84 | 24.479 | 103.860 | 16.786 | 3.2427 |
| 30 | 9,412.6 | 117,645.9 | 698.111 | 11.4987 | 85 | 19.507 | 79.380 | 13.627 | 3.0694 |
| 31 | 8,700.6 | 108,233.3 | 683.296 | 11.4398 | 86 | 15.346 | 59.874 | 10.911 | 2.9016 |
| 32 | 8,041.9 | 99,532.7 | 669.068 | 11.3768 | 87 | 11.891 | 44.528 | 8.593 | 2.7447 |
| 33 | 7,432.5 | 91,490.9 | 655.420 | 11.3095 | 88 | 9.0652 | 32.6370 | 6.6477 | 2.6002 |
| 34 | 6,868.7 | 84,058.3 | 642.199 | 11.2378 | 89 | 6.8028 | 23.5717 | 5.0567 | 2.4650 |
| 35 | 6,347.0 | 77,189.6 | 629.280 | 11.1615 | 90 | 5.0299 | 16.7690 | 3.7877 | 2.3339 |
| 36 | 5,864.1 | 70,842.6 | 616.505 | 11.0807 | 91 | 3.6631 | 11.7391 | 2.7936 | 2.2047 |
| 37 | 5,417.0 | 64,978.5 | 603.806 | 10.9952 | 92 | 2.6227 | 8.0760 | 2.0245 | 2.0792 |
| 38 | 5,002.9 | 59,561.4 | 590.974 | 10.9053 | 93 | 1.8418 | 5.4533 | 1.4378 | 1.9609 |
| 39 | 4,619.3 | 54,558.5 | 577.949 | 10.8109 | 94 | 1.2660 | 3.6115 | .9985 | 1.8526 |
| 40 | 4,263.9 | 49,939.2 | 564.692 | 10.7121 | 95 | .85096 | 2.34546 | .67722 | 1.7562 |
| 41 | 3,934.6 | 45,675.3 | 551.267 | 10.6086 | 96 | .55909 | 1.49449 | .44839 | 1.6730 |
| 42 | 3,629.6 | 41,740.7 | 537.730 | 10.5000 | 97 | .36020 | .93539 | .29091 | 1.5969 |
| 43 | 3,347.0 | 38,111.0 | 523.954 | 10.3866 | 98 | .22747 | .57519 | .18486 | 1.5286 |
| 44 | 3,085.1 | 34,764.0 | 509.947 | 10.2685 | 99 | .14090 | .34772 | .11514 | 1.4678 |
| 45 | 2,842.2 | 31,679.0 | 495.630 | 10.1459 | 100 | .08591 | .20681 | .07059 | 1.4071 |
| 46 | 2,617.1 | 28,836.8 | 481.011 | 10.0187 | 101 | .05135 | .12089 | .04239 | 1.3543 |
| 47 | 2,408.4 | 26,219.7 | 466.185 | 9.8868 | 102 | .03001 | .06954 | .02485 | 1.3174 |
| 48 | 2,215.0 | 23,811.3 | 451.189 | 9.7501 | 103 | .01732 | .03953 | .01439 | 1.2824 |
| 49 | 2,035.8 | 21,596.3 | 436.037 | 9.6085 | 104 | .01002 | .02221 | .00837 | 1.2160 |
| 50 | 1,869.7 | 19,560.6 | 420.728 | 9.4621 | 105 | .00556 | .01218 | .00466 | 1.1889 |
| 51 | 1,715.7 | 17,690.9 | 405.290 | 9.3110 | 106 | .00315 | .00662 | .00266 | 1.1011 |
| 52 | 1,573.1 | 15,975.2 | 389.716 | 9.1555 | 107 | .00159 | .00346 | .00133 | 1.1801 |
| 53 | 1,440.8 | 14,402.1 | 373.975 | 8.9959 | 108 | .00098 | .00187 | .00084 | .9118 |
| 54 | 1,318.1 | 12,961.3 | 358.053 | 8.8330 | 109 | .00045 | .00089 | .00038 | .9695 |

TABLE 34. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 3 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,990,394 | 12,901.159 | 28.9039 | 55 | 17,784 | 308,307 | 8,804.586 | 16.3358 |
| 1 | 95,600 | 2,890,394 | 11,413.780 | 29.2342 | 56 | 17,146 | 290,523 | 8,683.851 | 15.9444 |
| 2 | 92,721 | 2,794,794 | 11,319.520 | 29.1419 | 57 | 16,520 | 273,377 | 8,557.730 | 15.5481 |
| 3 | 89,961 | 2,700,036 | 11,260.036 | 29.0360 | 58 | 15,908 | 256,857 | 8,426.279 | 15.1469 |
| 4 | 87,293 | 2,612,111 | 11,212.058 | 28.9235 | 59 | 15,308 | 240,949 | 8,289.741 | 14.7404 |
| 5 | 84,711 | 2,524,818 | 11,172.378 | 28.8052 | 60 | 14,720 | 225,642 | 8,148.183 | 14.3286 |
| 6 | 82,211 | 2,440,107 | 11,139.716 | 28.6811 | 61 | 14,145 | 210,921 | 8,001.356 | 13.9117 |
| 7 | 79,788 | 2,357,897 | 11,111.258 | 28.5521 | 62 | 13,580 | 196,777 | 7,848.886 | 13.4899 |
| 8 | 77,439 | 2,278,109 | 11,085.997 | 28.4182 | 63 | 13,026 | 183,196 | 7,690.139 | 13.0640 |
| 9 | 75,161 | 2,200,670 | 11,063.771 | 28.2794 | 64 | 12,481 | 170,171 | 7,524.554 | 12.6344 |
| 10 | 72,952 | 2,125,509 | 11,044.424 | 28.1355 | 65 | 11,944 | 157,690 | 7,351.347 | 12.2021 |
| 11 | 70,810 | 2,052,557 | 11,027.086 | 27.9867 | 66 | 11,415 | 145,745 | 7,170.108 | 11.7677 |
| 12 | 68,731 | 1,981,746 | 11,010.253 | 27.8334 | 67 | 10,893 | 134,330 | 6,980.346 | 11.3319 |
| 13 | 66,712 | 1,913,015 | 10,993.229 | 27.6757 | 68 | 10,376 | 123,437 | 6,781.238 | 10.8959 |
| 14 | 64,749 | 1,846,303 | 10,973.395 | 27.5147 | 69 | 9,865.2 | 113,060.8 | 6,572.190 | 10.4605 |
| 15 | 62,840 | 1,781,554 | 10,949.647 | 27.3508 | 70 | 9,358.8 | 103,195.6 | 6,353.064 | 10.0266 |
| 16 | 60,981 | 1,718,714 | 10,921.604 | 27.1843 | 71 | 8,857.9 | 93,836.8 | 6,124.748 | 9.5936 |
| 17 | 59,172 | 1,657,733 | 10,888.933 | 27.0153 | 72 | 8,362.6 | 84,979.0 | 5,887.486 | 9.1618 |
| 18 | 57,414 | 1,598,561 | 10,853.689 | 26.8428 | 73 | 7,871.6 | 76,616.4 | 5,640.029 | 8.7333 |
| 19 | 55,706 | 1,541,147 | 10,818.332 | 26.6657 | 74 | 7,382.9 | 68,744.8 | 5,380.592 | 8.3114 |
| 20 | 54,049 | 1,485,441 | 10,783.450 | 26.4834 | 75 | 6,895.1 | 61,361.9 | 5,107.902 | 7.8993 |
| 21 | 52,441 | 1,431,392 | 10,749.585 | 26.2955 | 76 | 6,409.5 | 54,466.8 | 4,823.058 | 7.4979 |
| 22 | 50,880 | 1,378,952 | 10,716.705 | 26.1019 | 77 | 5,927.9 | 48,057.3 | 4,528.128 | 7.1070 |
| 23 | 49,366 | 1,328,071 | 10,684.784 | 25.9023 | 78 | 5,452.2 | 42,129.5 | 4,225.139 | 6.7270 |
| 24 | 47,897 | 1,278,705 | 10,653.300 | 25.6969 | 79 | 4,984.9 | 36,677.3 | 3,916.649 | 6.3576 |
| 25 | 46,471 | 1,230,808 | 10,621.778 | 25.4858 | 80 | 4,528.0 | 31,692.3 | 3,604.927 | 5.9992 |
| 26 | 45,086 | 1,184,337 | 10,591.174 | 25.2682 | 81 | 4,082.8 | 27,164.3 | 3,291.609 | 5.6534 |
| 27 | 43,743 | 1,139,251 | 10,560.561 | 25.0444 | 82 | 3,650.9 | 23,081.5 | 2,978.647 | 5.3221 |
| 28 | 42,438 | 1,095,508 | 10,529.966 | 24.8143 | 83 | 3,236.2 | 19,430.6 | 2,670.243 | 5.0042 |
| 29 | 41,171 | 1,053,070 | 10,498.989 | 24.5780 | 84 | 2,842.3 | 16,194.4 | 2,370.571 | 4.6977 |
| 30 | 39,940 | 1,011,899 | 10,467.266 | 24.3354 | 85 | 2,471.7 | 13,352.2 | 2,082.788 | 4.4020 |
| 31 | 38,744 | 971,959 | 10,434.867 | 24.0865 | 86 | 2,124.6 | 10,880.5 | 1,807.716 | 4.1211 |
| 32 | 37,582 | 933,215 | 10,401.081 | 23.8314 | 87 | 1,801.0 | 8,755.9 | 1,546.005 | 3.8616 |
| 33 | 36,452 | 895,633 | 10,366.018 | 23.5699 | 88 | 1,504.8 | 6,954.8 | 1,302.229 | 3.6218 |
| 34 | 35,354 | 859,180 | 10,329.047 | 23.3024 | 89 | 1,239.7 | 5,450.0 | 1,080.966 | 3.3962 |
| 35 | 34,285 | 823,827 | 10,290.310 | 23.0286 | 90 | 1,007.4 | 4,210.3 | 884.749 | 3.1795 |
| 36 | 33,246 | 789,541 | 10,249.597 | 22.7485 | 91 | 806.21 | 3,202.94 | 712.917 | 2.9729 |
| 37 | 32,235 | 756,295 | 10,206.719 | 22.4621 | 92 | 633.63 | 2,396.74 | 563.820 | 2.7826 |
| 38 | 31,250 | 724,061 | 10,160.862 | 22.1699 | 93 | 488.34 | 1,763.11 | 436.984 | 2.6104 |
| 39 | 30,291 | 692,811 | 10,111.920 | 21.8719 | 94 | 368.87 | 1,274.77 | 331.736 | 2.4559 |
| 40 | 29,356 | 662,520 | 10,059.805 | 21.5681 | 95 | 273.01 | 905.91 | 246.624 | 2.3182 |
| 41 | 28,446 | 633,163 | 10,004.744 | 21.2581 | 96 | 198.00 | 632.90 | 179.569 | 2.1964 |
| 42 | 27,560 | 604,717 | 9,946.663 | 20.9420 | 97 | 140.78 | 434.89 | 128.113 | 2.0892 |
| 43 | 26,695 | 577,157 | 9,884.944 | 20.6201 | 98 | 98.259 | 294.115 | 89.692 | 1.9933 |
| 44 | 25,852 | 550,462 | 9,819.030 | 20.2929 | 99 | 67.314 | 195.856 | 61.609 | 1.9096 |
| 45 | 25,029 | 524,610 | 9,748.954 | 19.9602 | 100 | 45.373 | 128.542 | 41.629 | 1.8330 |
| 46 | 24,225 | 499,581 | 9,674.243 | 19.6224 | 101 | 30.058 | 83.169 | 27.635 | 1.7670 |
| 47 | 23,441 | 475,356 | 9,595.228 | 19.2792 | 102 | 19.618 | 53.111 | 18.071 | 1.7072 |
| 48 | 22,675 | 451,915 | 9,511.981 | 18.9305 | 103 | 12.619 | 33.493 | 11.643 | 1.6543 |
| 49 | 21,927 | 429,241 | 9,424.579 | 18.5761 | 104 | 7.9979 | 20.8745 | 7.3899 | 1.6100 |
| 50 | 21,197 | 407,314 | 9,333.108 | 18.2160 | 105 | 5.0270 | 12.8766 | 4.6520 | 1.5615 |
| 51 | 20,483 | 386,117 | 9,237.215 | 17.8503 | 106 | 3.0939 | 7.8496 | 2.8653 | 1.5371 |
| 52 | 19,786 | 365,634 | 9,136.374 | 17.4795 | 107 | 1.9038 | 4.7556 | 1.7653 | 1.4979 |
| 53 | 19,104 | 345,848 | 9,030.746 | 17.1034 | 108 | 1.1501 | 2.8518 | 1.0670 | 1.4799 |
| 54 | 18,437 | 326,744 | 8,920.088 | 16.7223 | 109 | .67794 | 1.70169 | .62837 | 1.5101 |

TABLE 35. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 3.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,668,484 | 9,761.416 | 25.6848 | 55 | 13,626 | 223,541 | 6,066.624 | 15.4055 |
| 1 | 95,138 | 2,568,484 | 8,281.223 | 25.9974 | 56 | 13,073 | 209,915 | 5,974.567 | 15.0570 |
| 2 | 91,828 | 2,473,346 | 8,187.872 | 25.9347 | 57 | 12,535 | 196,842 | 5,878.868 | 14.7029 |
| 3 | 88,664 | 2,381,518 | 8,129.246 | 25.8601 | 58 | 12,012 | 184,366 | 5,779.606 | 14.3433 |
| 4 | 85,618 | 2,292,854 | 8,082.188 | 25.7799 | 59 | 11,503 | 172,294 | 5,677.000 | 13.9777 |
| 5 | 82,684 | 2,207,236 | 8,043.457 | 25.6947 | 60 | 11,009 | 160,791 | 5,571.137 | 13.6060 |
| 6 | 79,856 | 2,124,552 | 8,011.730 | 25.6046 | 61 | 10,527 | 149,782 | 5,461.863 | 13.2284 |
| 7 | 77,129 | 2,044,695 | 7,984.221 | 25.5102 | 62 | 10,058 | 139,255 | 5,348.938 | 12.8452 |
| 8 | 74,496 | 1,967,567 | 7,959.920 | 25.4117 | 63 | 9,600.9 | 129,197.2 | 5,231.932 | 12.4568 |
| 9 | 71,956 | 1,893,071 | 7,938.641 | 25.3089 | 64 | 9,154.8 | 119,596.3 | 5,110.475 | 12.0638 |
| 10 | 69,504 | 1,821,115 | 7,920.209 | 25.2017 | 65 | 8,718.8 | 110,441.5 | 4,984.042 | 11.6671 |
| 11 | 67,137 | 1,751,611 | 7,903.771 | 25.0901 | 66 | 8,292.3 | 101,722.7 | 4,852.384 | 11.2672 |
| 12 | 64,851 | 1,684,474 | 7,887.888 | 24.9746 | 67 | 7,874.7 | 93,430.4 | 4,715.201 | 10.8647 |
| 13 | 62,642 | 1,619,624 | 7,871.903 | 24.8553 | 68 | 7,465.1 | 85,555.7 | 4,571.958 | 10.4607 |
| 14 | 60,505 | 1,556,982 | 7,853.369 | 24.7331 | 69 | 7,063.0 | 78,090.6 | 4,422.289 | 10.0562 |
| 15 | 58,437 | 1,496,477 | 7,831.284 | 24.6085 | 70 | 6,668.1 | 71,027.6 | 4,266.163 | 9.6519 |
| 16 | 56,435 | 1,438,040 | 7,805.333 | 24.4815 | 71 | 6,280.7 | 64,359.5 | 4,104.275 | 9.2472 |
| 17 | 54,496 | 1,381,605 | 7,775.244 | 24.3523 | 72 | 5,900.9 | 58,078.8 | 3,936.857 | 8.8424 |
| 18 | 52,621 | 1,327,109 | 7,742.942 | 24.2201 | 73 | 5,527.6 | 52,177.9 | 3,763.088 | 8.4396 |
| 19 | 50,809 | 1,274,488 | 7,710.692 | 24.0837 | 74 | 5,159.3 | 46,650.4 | 3,581.787 | 8.0419 |
| 20 | 49,059 | 1,223,679 | 7,679.031 | 23.9428 | 75 | 4,795.2 | 41,491.0 | 3,392.145 | 7.6526 |
| 21 | 47,370 | 1,174,619 | 7,648.440 | 23.7968 | 76 | 4,435.9 | 36,695.8 | 3,195.007 | 7.2724 |
| 22 | 45,738 | 1,127,250 | 7,618.883 | 23.6456 | 77 | 4,082.8 | 32,259.9 | 2,991.875 | 6.9014 |
| 23 | 44,163 | 1,081,511 | 7,590.326 | 23.4890 | 78 | 3,737.0 | 28,177.1 | 2,784.201 | 6.5399 |
| 24 | 42,642 | 1,037,348 | 7,562.297 | 23.3271 | 79 | 3,400.3 | 24,440.1 | 2,573.777 | 6.1877 |
| 25 | 41,172 | 994,706 | 7,534.369 | 23.1599 | 80 | 3,073.7 | 21,039.8 | 2,362.176 | 5.8452 |
| 26 | 39,753 | 953,534 | 7,507.386 | 22.9868 | 81 | 2,758.1 | 17,966.1 | 2,150.520 | 5.5140 |
| 27 | 38,381 | 913,782 | 7,480.525 | 22.8080 | 82 | 2,454.4 | 15,208.1 | 1,940.125 | 5.1962 |
| 28 | 37,057 | 875,401 | 7,453.809 | 22.6233 | 83 | 2,165.1 | 12,753.7 | 1,733.795 | 4.8906 |
| 29 | 35,777 | 838,344 | 7,426.891 | 22.4327 | 84 | 1,892.3 | 10,588.6 | 1,534.276 | 4.5955 |
| 30 | 34,539 | 802,567 | 7,399.457 | 22.2363 | 85 | 1,637.7 | 8,696.2 | 1,343.599 | 4.3101 |
| 31 | 33,344 | 768,028 | 7,371.575 | 22.0338 | 86 | 1,400.9 | 7,058.6 | 1,162.224 | 4.0385 |
| 32 | 32,187 | 734,684 | 7,342.639 | 21.8255 | 87 | 1,181.8 | 5,657.6 | 990.493 | 3.7873 |
| 33 | 31,069 | 702,497 | 7,312.754 | 21.6111 | 88 | 982.66 | 4,475.83 | 831.302 | 3.5548 |
| 34 | 29,987 | 671,429 | 7,281.396 | 21.3909 | 89 | 805.64 | 3,493.17 | 687.512 | 3.3359 |
| 35 | 28,940 | 641,442 | 7,248.699 | 21.1646 | 90 | 651.50 | 2,687.53 | 560.614 | 3.1252 |
| 36 | 27,927 | 612,502 | 7,214.499 | 20.9322 | 91 | 518.87 | 2,036.03 | 450.022 | 2.9239 |
| 37 | 26,947 | 584,575 | 7,178.654 | 20.6936 | 92 | 405.83 | 1,517.16 | 354.528 | 2.7384 |
| 38 | 25,997 | 557,628 | 7,140.505 | 20.4493 | 93 | 311.26 | 1,111.33 | 273.683 | 2.5704 |
| 39 | 25,078 | 531,630 | 7,099.986 | 20.1992 | 94 | 233.98 | 800.06 | 206.922 | 2.4194 |
| 40 | 24,187 | 506,553 | 7,057.049 | 19.9433 | 95 | 172.34 | 566.09 | 153.195 | 2.2847 |
| 41 | 23,324 | 482,366 | 7,011.903 | 19.6813 | 96 | 124.39 | 393.75 | 111.071 | 2.1655 |
| 42 | 22,488 | 459,042 | 6,964.512 | 19.4131 | 97 | 88.011 | 269.362 | 78.902 | 2.0605 |
| 43 | 21,677 | 436,554 | 6,914.394 | 19.1390 | 98 | 61.132 | 181.351 | 54.999 | 1.9666 |
| 44 | 20,891 | 414,877 | 6,861.130 | 18.8593 | 99 | 41.677 | 120.219 | 37.611 | 1.8846 |
| 45 | 20,128 | 393,986 | 6,804.775 | 18.5741 | 100 | 27.956 | 78.542 | 25.300 | 1.8095 |
| 46 | 19,388 | 373,858 | 6,744.984 | 18.2834 | 101 | 18.431 | 50.586 | 16.720 | 1.7447 |
| 47 | 18,669 | 354,471 | 6,682.053 | 17.9871 | 102 | 11.971 | 32.155 | 10.884 | 1.6860 |
| 48 | 17,972 | 335,802 | 6,616.071 | 17.6850 | 103 | 7.6628 | 20.1838 | 6.9803 | 1.6340 |
| 49 | 17,295 | 317,830 | 6,547.132 | 17.3770 | 104 | 4.8334 | 12.5210 | 4.4100 | 1.5905 |
| 50 | 16,638 | 300,535 | 6,475.332 | 17.0628 | 105 | 3.0233 | 7.6876 | 2.7633 | 1.5428 |
| 51 | 16,001 | 283,897 | 6,400.424 | 16.7427 | 106 | 1.8517 | 4.6643 | 1.6940 | 1.5189 |
| 52 | 15,381 | 267,896 | 6,322.031 | 16.4170 | 107 | 1.1340 | 2.8126 | 1.0388 | 1.4803 |
| 53 | 14,779 | 252,515 | 6,240.314 | 16.0855 | 108 | .68171 | 1.67860 | .62494 | 1.4423 |
| 54 | 14,194 | 237,735 | 6,155.119 | 15.7484 | 109 | .39989 | .99689 | .36618 | 1.4929 |

TABLE 36. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 4 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,403,295 | 7,565.591 | 23.0329 | 55 | 10,453 | 162,627 | 4,198.409 | 14.5575 |
| 1 | 94,681 | 2,303,295 | 6,092.514 | 23.3270 | 56 | 9,981.0 | 152,173.7 | 4,128.126 | 14.2464 |
| 2 | 90,947 | 2,208,614 | 6,000.058 | 23.2847 | 57 | 9,524.4 | 142,192.7 | 4,055.414 | 13.9294 |
| 3 | 87,391 | 2,117,667 | 5,942.273 | 23.2321 | 58 | 9,083.0 | 132,668.3 | 3,980.357 | 13.6062 |
| 4 | 83,984 | 2,030,276 | 5,896.114 | 23.1747 | 59 | 8,656.4 | 123,585.4 | 3,903.145 | 13.2767 |
| 5 | 80,716 | 1,946,292 | 5,858.305 | 23.1129 | 60 | 8,244.2 | 114,928.9 | 3,823.865 | 12.9406 |
| 6 | 77,580 | 1,865,577 | 5,827.483 | 23.0470 | 61 | 7,845.7 | 106,684.7 | 3,742.424 | 12.5979 |
| 7 | 74,570 | 1,787,996 | 5,800.886 | 22.9774 | 62 | 7,460.2 | 98,839.0 | 3,658.666 | 12.2489 |
| 8 | 71,679 | 1,713,426 | 5,777.504 | 22.9043 | 63 | 7,086.9 | 91,378.9 | 3,572.298 | 11.8941 |
| 9 | 68,901 | 1,641,748 | 5,757.129 | 22.8275 | 64 | 6,725.1 | 84,292.0 | 3,483.077 | 11.5340 |
| 10 | 66,234 | 1,572,847 | 5,739.564 | 22.7469 | 65 | 6,374.0 | 77,566.9 | 3,390.646 | 11.1693 |
| 11 | 63,671 | 1,506,613 | 5,723.974 | 22.6626 | 66 | 6,033.0 | 71,192.9 | 3,294.858 | 10.8005 |
| 12 | 61,207 | 1,442,942 | 5,708.984 | 22.5749 | 67 | 5,701.7 | 65,159.9 | 3,195.531 | 10.4282 |
| 13 | 58,838 | 1,381,736 | 5,693.969 | 22.4839 | 68 | 5,379.2 | 59,458.2 | 3,092.314 | 10.0534 |
| 14 | 56,557 | 1,322,898 | 5,676.645 | 22.3904 | 69 | 5,064.9 | 54,079.0 | 2,984.985 | 9.6771 |
| 15 | 54,362 | 1,266,341 | 5,656.100 | 22.2948 | 70 | 4,758.7 | 49,014.1 | 2,873.565 | 9.2998 |
| 16 | 52,247 | 1,211,979 | 5,632.075 | 22.1973 | 71 | 4,460.7 | 44,255.4 | 2,758.587 | 8.9211 |
| 17 | 50,209 | 1,159,732 | 5,604.352 | 22.0979 | 72 | 4,170.8 | 39,794.6 | 2,640.254 | 8.5412 |
| 18 | 48,249 | 1,109,523 | 5,574.735 | 21.9959 | 73 | 3,888.2 | 35,623.8 | 2,518.023 | 8.1621 |
| 19 | 46,364 | 1,061,274 | 5,545.307 | 21.8903 | 74 | 3,611.7 | 31,735.7 | 2,391.105 | 7.7869 |
| 20 | 44,552 | 1,014,911 | 5,516.554 | 21.7806 | 75 | 3,340.7 | 28,124.0 | 2,258.988 | 7.4186 |
| 21 | 42,810 | 970,359 | 5,488.908 | 21.6664 | 76 | 3,075.5 | 24,783.3 | 2,122.308 | 7.0583 |
| 22 | 41,137 | 927,549 | 5,462.325 | 21.5476 | 77 | 2,817.1 | 21,707.8 | 1,982.151 | 6.7058 |
| 23 | 39,530 | 886,411 | 5,436.764 | 21.4240 | 78 | 2,566.1 | 18,890.7 | 1,839.547 | 6.3616 |
| 24 | 37,984 | 846,882 | 5,411.796 | 21.2956 | 79 | 2,323.6 | 16,324.6 | 1,695.751 | 6.0255 |
| 25 | 36,498 | 808,898 | 5,387.038 | 21.1625 | 80 | 2,090.3 | 14,001.0 | 1,551.845 | 5.6979 |
| 26 | 35,071 | 772,399 | 5,363.233 | 21.0239 | 81 | 1,866.7 | 11,910.6 | 1,408.593 | 5.3806 |
| 27 | 33,698 | 737,328 | 5,339.649 | 20.8802 | 82 | 1,653.2 | 10,043.9 | 1,266.880 | 5.0755 |
| 28 | 32,379 | 703,630 | 5,316.306 | 20.7311 | 83 | 1,451.3 | 8,390.7 | 1,128.573 | 4.7816 |
| 29 | 31,110 | 671,251 | 5,292.898 | 20.5765 | 84 | 1,262.4 | 6,939.4 | 995.475 | 4.4971 |
| 30 | 29,890 | 640,141 | 5,269.158 | 20.4166 | 85 | 1,087.2 | 5,677.1 | 868.886 | 4.2216 |
| 31 | 28,716 | 610,251 | 5,245.145 | 20.2510 | 86 | 925.58 | 4,589.84 | 749.052 | 3.9589 |
| 32 | 27,587 | 581,534 | 5,220.345 | 20.0800 | 87 | 777.07 | 3,664.25 | 636.135 | 3.7155 |
| 33 | 26,501 | 553,947 | 5,194.854 | 19.9033 | 88 | 643.01 | 2,887.18 | 531.967 | 3.4901 |
| 34 | 25,455 | 527,447 | 5,168.235 | 19.7210 | 89 | 524.64 | 2,244.17 | 438.329 | 3.2775 |
| 35 | 24,448 | 501,992 | 5,140.613 | 19.5331 | 90 | 422.22 | 1,719.53 | 356.088 | 3.0725 |
| 36 | 23,479 | 477,544 | 5,111.860 | 19.3393 | 91 | 334.66 | 1,297.30 | 284.761 | 2.8765 |
| 37 | 22,546 | 454,065 | 5,081.870 | 19.1396 | 92 | 260.49 | 962.65 | 223.466 | 2.6955 |
| 38 | 21,647 | 431,519 | 5,050.105 | 18.9344 | 93 | 198.83 | 702.16 | 171.824 | 2.5315 |
| 39 | 20,781 | 409,872 | 5,016.528 | 18.7236 | 94 | 148.74 | 503.33 | 129.383 | 2.3839 |
| 40 | 19,946 | 389,091 | 4,981.119 | 18.5071 | 95 | 109.03 | 354.59 | 95.392 | 2.2522 |
| 41 | 19,142 | 369,145 | 4,944.068 | 18.2846 | 96 | 78.315 | 245.555 | 68.871 | 2.1355 |
| 42 | 18,367 | 350,003 | 4,905.360 | 18.0561 | 97 | 55.146 | 167.240 | 48.714 | 2.0327 |
| 43 | 17,620 | 331,636 | 4,864.623 | 17.8217 | 98 | 38.120 | 112.094 | 33.809 | 1.9406 |
| 44 | 16,899 | 314,016 | 4,821.536 | 17.5819 | 99 | 25.864 | 73.974 | 23.018 | 1.8601 |
| 45 | 16,204 | 297,117 | 4,776.168 | 17.3363 | 100 | 17.266 | 48.110 | 15.415 | 1.7865 |
| 46 | 15,533 | 280,914 | 4,728.266 | 17.0854 | 101 | 11.328 | 30.845 | 10.142 | 1.7229 |
| 47 | 14,885 | 265,381 | 4,678.090 | 16.8287 | 102 | 7.3225 | 19.5166 | 6.5719 | 1.6653 |
| 48 | 14,260 | 250,496 | 4,625.735 | 16.5661 | 103 | 4.6646 | 12.1941 | 4.1956 | 1.6142 |
| 49 | 13,657 | 236,236 | 4,571.296 | 16.2974 | 104 | 2.9281 | 7.5295 | 2.6385 | 1.5715 |
| 50 | 13,076 | 222,578 | 4,514.871 | 16.0225 | 105 | 1.8227 | 4.6015 | 1.6457 | 1.5245 |
| 51 | 12,514 | 209,503 | 4,456.285 | 15.7414 | 106 | 1.1110 | 2.7788 | 1.0042 | 1.5011 |
| 52 | 11,972 | 196,989 | 4,395.270 | 15.4545 | 107 | .67708 | 1.66774 | .61294 | 1.4631 |
| 53 | 11,448 | 185,017 | 4,331.973 | 15.1615 | 108 | .40509 | .99065 | .36699 | 1.4455 |
| 54 | 10,942 | 173,569 | 4,266.299 | 14.8626 | 109 | .23649 | .58555 | .21396 | 1.4260 |

TABLE 37. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 4.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,182,499 | 6,016,770 | 20.8250 | 55 | 8,029.5 | 118,698.8 | 2,918.108 | 13.7828 |
| 1 | 94,228 | 2,082,499 | 4,550.742 | 21.1007 | 56 | 7,630.0 | 110,669.3 | 2,864.380 | 13.5044 |
| 2 | 90,079 | 1,988,272 | 4,459.169 | 21.0726 | 57 | 7,246.2 | 103,039.3 | 2,809.060 | 13.2198 |
| 3 | 86,143 | 1,898,193 | 4,402.209 | 21.0355 | 58 | 6,877.3 | 95,793.1 | 2,752.230 | 12.9289 |
| 4 | 82,388 | 1,812,051 | 4,356.927 | 20.9942 | 59 | 6,523.0 | 88,915.8 | 2,694.048 | 12.6312 |
| 5 | 78,803 | 1,729,663 | 4,320.014 | 20.9492 | 60 | 6,182.6 | 82,392.9 | 2,634.593 | 12.3265 |
| 6 | 75,380 | 1,650,860 | 4,290.066 | 20.9006 | 61 | 5,855.6 | 76,210.2 | 2,573.810 | 12.0150 |
| 7 | 72,108 | 1,575,480 | 4,264.347 | 20.8489 | 62 | 5,541.2 | 70,354.7 | 2,511.596 | 11.6966 |
| 8 | 68,980 | 1,503,372 | 4,241.845 | 20.7942 | 63 | 5,238.8 | 64,813.4 | 2,447.752 | 11.3719 |
| 9 | 65,990 | 1,434,392 | 4,222.331 | 20.7364 | 64 | 4,947.5 | 59,574.7 | 2,382.113 | 11.0413 |
| 10 | 63,132 | 1,368,401 | 4,205.589 | 20.6753 | 65 | 4,666.8 | 54,627.1 | 2,314.438 | 10.7055 |
| 11 | 60,399 | 1,305,269 | 4,190.800 | 20.6109 | 66 | 4,396.0 | 49,960.3 | 2,244.642 | 10.3648 |
| 12 | 57,784 | 1,244,871 | 4,176.648 | 20.5437 | 67 | 4,134.7 | 45,564.3 | 2,172.612 | 10.0199 |
| 13 | 55,281 | 1,187,087 | 4,162.541 | 20.4736 | 68 | 3,882.2 | 41,429.6 | 2,098.120 | 9.6718 |
| 14 | 52,884 | 1,131,806 | 4,146.342 | 20.4015 | 69 | 3,637.9 | 37,547.4 | 2,021.031 | 9.3212 |
| 15 | 50,588 | 1,078,922 | 4,127.224 | 20.3276 | 70 | 3,401.6 | 33,909.5 | 1,941.386 | 8.9687 |
| 16 | 48,387 | 1,028,334 | 4,104.972 | 20.2521 | 71 | 3,173.3 | 30,507.9 | 1,859.591 | 8.6138 |
| 17 | 46,278 | 979,946 | 4,079.421 | 20.1752 | 72 | 2,952.9 | 27,334.6 | 1,775.813 | 8.2569 |
| 18 | 44,258 | 933,668 | 4,052.253 | 20.0960 | 73 | 2,739.6 | 24,381.7 | 1,689.688 | 7.8997 |
| 19 | 42,325 | 889,410 | 4,025.388 | 20.0137 | 74 | 2,532.6 | 21,642.1 | 1,600.689 | 7.5452 |
| 20 | 40,477 | 847,085 | 3,999.266 | 19.9278 | 75 | 2,331.4 | 19,109.4 | 1,508.488 | 7.1966 |
| 21 | 38,709 | 806,608 | 3,974.268 | 19.8380 | 76 | 2,136.1 | 16,778.0 | 1,413.559 | 6.8547 |
| 22 | 37,018 | 767,900 | 3,950.347 | 19.7441 | 77 | 1,947.2 | 14,642.0 | 1,316.680 | 6.5195 |
| 23 | 35,401 | 730,882 | 3,927.456 | 19.6459 | 78 | 1,765.2 | 12,694.8 | 1,218.582 | 6.1915 |
| 24 | 33,854 | 695,481 | 3,905.203 | 19.5435 | 79 | 1,590.8 | 10,929.5 | 1,120.136 | 5.8705 |
| 25 | 32,374 | 661,627 | 3,883.243 | 19.4368 | 80 | 1,424.2 | 9,338.7 | 1,022.088 | 5.5570 |
| 26 | 30,959 | 629,253 | 3,862.228 | 19.3252 | 81 | 1,265.8 | 7,914.5 | 924.952 | 5.2527 |
| 27 | 29,605 | 598,293 | 3,841.509 | 19.2090 | 82 | 1,115.6 | 6,648.7 | 829.319 | 4.9596 |
| 28 | 28,310 | 568,688 | 3,821.099 | 19.0878 | 83 | 974.70 | 5,533.12 | 736.431 | 4.6767 |
| 29 | 27,071 | 540,378 | 3,800.731 | 18.9618 | 84 | 843.76 | 4,558.42 | 647.469 | 4.4025 |
| 30 | 25,884 | 513,307 | 3,780.172 | 18.8308 | 85 | 723.22 | 3,714.65 | 563.263 | 4.1362 |
| 31 | 24,749 | 487,423 | 3,759.476 | 18.6947 | 86 | 612.75 | 2,991.43 | 483.931 | 3.8820 |
| 32 | 23,662 | 462,674 | 3,738.205 | 18.5535 | 87 | 511.97 | 2,378.68 | 409.536 | 3.6462 |
| 33 | 22,621 | 439,012 | 3,716.445 | 18.4070 | 88 | 421.62 | 1,866.71 | 341.234 | 3.4275 |
| 34 | 21,625 | 416,391 | 3,693.832 | 18.2555 | 89 | 342.36 | 1,445.09 | 280.130 | 3.2210 |
| 35 | 20,670 | 394,766 | 3,670.478 | 18.0985 | 90 | 274.21 | 1,102.74 | 226.720 | 3.0216 |
| 36 | 19,756 | 374,096 | 3,646.285 | 17.9361 | 91 | 216.30 | 828.53 | 180.619 | 2.8305 |
| 37 | 18,880 | 354,341 | 3,621.171 | 17.7682 | 92 | 167.56 | 612.23 | 141.192 | 2.6539 |
| 38 | 18,040 | 335,461 | 3,594.699 | 17.5950 | 93 | 127.28 | 444.68 | 108.133 | 2.4936 |
| 39 | 17,236 | 317,420 | 3,566.850 | 17.4165 | 94 | 94.762 | 317.394 | 81.095 | 2.3494 |
| 40 | 16,464 | 300,185 | 3,537.622 | 17.2325 | 95 | 69.130 | 222.632 | 59.543 | 2.2205 |
| 41 | 15,725 | 283,720 | 3,507.185 | 17.0429 | 96 | 49.418 | 153.502 | 42.807 | 2.1062 |
| 42 | 15,016 | 267,996 | 3,475.540 | 16.8473 | 97 | 34.631 | 104.084 | 30.149 | 2.0055 |
| 43 | 14,336 | 252,980 | 3,442.395 | 16.6461 | 98 | 23.824 | 69.453 | 20.834 | 1.9152 |
| 44 | 13,684 | 238,643 | 3,407.505 | 16.4396 | 99 | 16.087 | 45.629 | 14.122 | 1.8364 |
| 45 | 13,058 | 224,959 | 3,370.944 | 16.2275 | 100 | 10.688 | 29.541 | 9.416 | 1.7640 |
| 46 | 12,457 | 211,901 | 3,332.525 | 16.0100 | 101 | 6.9787 | 18.8537 | 6.1668 | 1.7016 |
| 47 | 11,881 | 199,444 | 3,292.476 | 15.7868 | 102 | 4.4895 | 11.8751 | 3.9781 | 1.6451 |
| 48 | 11,328 | 187,563 | 3,250.887 | 15.5578 | 103 | 2.8462 | 7.3856 | 2.5282 | 1.5949 |
| 49 | 10,797 | 176,235 | 3,207.850 | 15.3227 | 104 | 1.7781 | 4.5393 | 1.5826 | 1.5529 |
| 50 | 10,288 | 165,438 | 3,163.455 | 15.0813 | 105 | 1.1016 | 2.7613 | .9827 | 1.5067 |
| 51 | 9,798.7 | 155,150.5 | 3,117.582 | 14.8338 | 106 | .66823 | 1.65970 | .59676 | 1.4837 |
| 52 | 9,329.2 | 145,351.8 | 3,070.035 | 14.5803 | 107 | .40529 | .99146 | .36259 | 1.4463 |
| 53 | 8,878.4 | 136,022.6 | 3,020.946 | 14.3207 | 108 | .24132 | .58617 | .21608 | 1.4290 |
| 54 | 8,445.4 | 127,144.2 | 2,970.257 | 14.0549 | 109 | .14020 | .34484 | .12535 | 1.4595 |

TABLE 38. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,996,800 | 4,914.296 | 18.9680 | 55 | 6,175.5 | 86,911.1 | 2,036.923 | 13.0734 |
| 1 | 93,779 | 1,896,800 | 3,455.248 | 19.2263 | 56 | 5,840.3 | 80,735.5 | 1,995.797 | 12.8238 |
| 2 | 89,223 | 1,803,021 | 3,364.545 | 19.2081 | 57 | 5,520.1 | 74,895.2 | 1,953.654 | 12.5677 |
| 3 | 84,918 | 1,713,798 | 3,308.396 | 19.1818 | 58 | 5,214.1 | 69,375.1 | 1,910.568 | 12.3052 |
| 4 | 80,830 | 1,628,880 | 3,263.970 | 19.1520 | 59 | 4,921.9 | 64,160.9 | 1,866.666 | 12.0357 |
| 5 | 76,945 | 1,548,051 | 3,227.928 | 19.1190 | 60 | 4,642.9 | 59,239.0 | 1,822.017 | 11.7590 |
| 6 | 73,251 | 1,471,106 | 3,198.825 | 19.0829 | 61 | 4,376.4 | 54,596.1 | 1,776.588 | 11.4751 |
| 7 | 69,738 | 1,397,854 | 3,173.952 | 19.0442 | 62 | 4,121.7 | 50,219.7 | 1,730.312 | 11.1841 |
| 8 | 66,396 | 1,328,116 | 3,152.293 | 19.0030 | 63 | 3,878.2 | 46,097.9 | 1,683.049 | 10.8865 |
| 9 | 63,216 | 1,261,720 | 3,133.599 | 18.9590 | 64 | 3,645.2 | 42,219.8 | 1,634.689 | 10.5824 |
| 10 | 60,189 | 1,198,505 | 3,117.637 | 18.9123 | 65 | 3,422.0 | 38,574.6 | 1,585.066 | 10.2727 |
| 11 | 57,309 | 1,138,315 | 3,103.605 | 18.8627 | 66 | 3,208.1 | 35,152.7 | 1,534.131 | 9.9576 |
| 12 | 54,567 | 1,081,006 | 3,090.241 | 18.8107 | 67 | 3,003.0 | 31,944.6 | 1,481.817 | 9.6376 |
| 13 | 51,955 | 1,026,439 | 3,076.983 | 18.7563 | 68 | 2,806.1 | 28,941.6 | 1,427.972 | 9.3137 |
| 14 | 49,466 | 974,484 | 3,061.831 | 18.7001 | 69 | 2,617.1 | 26,135.5 | 1,372.515 | 8.9866 |
| 15 | 47,093 | 925,019 | 3,044.033 | 18.6426 | 70 | 2,435.4 | 23,518.4 | 1,315.492 | 8.6568 |
| 16 | 44,829 | 877,926 | 3,023.418 | 18.5837 | 71 | 2,261.2 | 21,083.0 | 1,257.210 | 8.3240 |
| 17 | 42,671 | 833,097 | 2,999.858 | 18.5237 | 72 | 2,094.1 | 18,821.8 | 1,197.797 | 7.9881 |
| 18 | 40,614 | 790,425 | 2,974.927 | 18.4618 | 73 | 1,933.6 | 16,727.7 | 1,137.012 | 7.6512 |
| 19 | 38,656 | 749,811 | 2,950.391 | 18.3972 | 74 | 1,779.0 | 14,754.2 | 1,074.497 | 7.3161 |
| 20 | 36,791 | 711,156 | 2,926.647 | 18.3295 | 75 | 1,629.8 | 13,015.2 | 1,010.041 | 6.9857 |
| 21 | 35,017 | 674,364 | 2,904.034 | 18.2584 | 76 | 1,486.2 | 11,385.4 | 943.995 | 6.6610 |
| 22 | 33,328 | 639,348 | 2,882.497 | 18.1837 | 77 | 1,348.3 | 9,899.2 | 876.913 | 6.3420 |
| 23 | 31,720 | 606,020 | 2,861.986 | 18.1052 | 78 | 1,216.5 | 8,550.9 | 809.310 | 6.0291 |
| 24 | 30,190 | 574,300 | 2,842.142 | 18.0230 | 79 | 1,091.0 | 7,334.4 | 741.791 | 5.7224 |
| 25 | 28,733 | 544,110 | 2,822.652 | 17.9370 | 80 | 972.17 | 6,243.37 | 674.863 | 5.4221 |
| 26 | 27,346 | 515,378 | 2,804.090 | 17.8466 | 81 | 859.89 | 5,271.21 | 608.875 | 5.1301 |
| 27 | 26,025 | 488,032 | 2,785.876 | 17.7521 | 82 | 754.28 | 4,411.32 | 544.217 | 4.8484 |
| 28 | 24,768 | 462,006 | 2,768.020 | 17.6531 | 83 | 655.86 | 3,657.04 | 481.715 | 4.5760 |
| 29 | 23,571 | 437,238 | 2,750.285 | 17.5497 | 84 | 565.05 | 3,001.18 | 422.139 | 4.3113 |
| 30 | 22,431 | 413,667 | 2,732.469 | 17.4418 | 85 | 482.02 | 2,436.13 | 366.016 | 4.0540 |
| 31 | 21,345 | 391,236 | 2,714.620 | 17.3292 | 86 | 406.45 | 1,954.11 | 313.394 | 3.8078 |
| 32 | 20,310 | 369,891 | 2,696.361 | 17.2121 | 87 | 337.98 | 1,547.66 | 264.281 | 3.5792 |
| 33 | 19,324 | 349,581 | 2,677.773 | 17.0901 | 88 | 277.01 | 1,209.68 | 219.406 | 3.3669 |
| 34 | 18,385 | 330,256 | 2,658.547 | 16.9633 | 89 | 223.86 | 932.67 | 179.451 | 3.1662 |
| 35 | 17,490 | 311,871 | 2,638.787 | 16.8316 | 90 | 178.45 | 708.81 | 144.693 | 2.9721 |
| 36 | 16,637 | 294,381 | 2,618.413 | 16.6948 | 91 | 140.09 | 530.36 | 114.835 | 2.7859 |
| 37 | 15,823 | 277,745 | 2,597.365 | 16.5529 | 92 | 108.00 | 390.27 | 89.420 | 2.6135 |
| 38 | 15,048 | 261,922 | 2,575.284 | 16.4060 | 93 | 81.654 | 282.267 | 68.213 | 2.4569 |
| 39 | 14,308 | 246,874 | 2,552.166 | 16.2542 | 94 | 60.502 | 200.613 | 50.949 | 2.3158 |
| 40 | 13,603 | 232,566 | 2,528.018 | 16.0972 | 95 | 43.927 | 140.111 | 37.255 | 2.1896 |
| 41 | 12,930 | 218,963 | 2,502.991 | 15.9348 | 96 | 31.252 | 96.184 | 26.671 | 2.0777 |
| 42 | 12,288 | 206,033 | 2,477.094 | 15.7668 | 97 | 21.797 | 64.932 | 18.705 | 1.9790 |
| 43 | 11,676 | 193,745 | 2,450.099 | 15.5934 | 98 | 14.923 | 43.136 | 12.869 | 1.8905 |
| 44 | 11,092 | 182,069 | 2,421.819 | 15.4148 | 99 | 10.029 | 28.212 | 8.685 | 1.8131 |
| 45 | 10,534 | 170,977 | 2,392.325 | 15.2308 | 100 | 6.6311 | 18.1836 | 5.7652 | 1.7422 |
| 46 | 10,002 | 160,443 | 2,361.480 | 15.0417 | 101 | 4.3092 | 11.5525 | 3.7591 | 1.6809 |
| 47 | 9,493.4 | 150,441.6 | 2,329.479 | 14.8470 | 102 | 2.7590 | 7.2433 | 2.4141 | 1.6253 |
| 48 | 9,008.2 | 140,948.2 | 2,296.407 | 14.6466 | 103 | 1.7408 | 4.4843 | 1.5273 | 1.5760 |
| 49 | 8,545.2 | 131,940.0 | 2,262.345 | 14.4402 | 104 | 1.0823 | 2.7435 | .9517 | 1.5348 |
| 50 | 8,103.3 | 123,394.8 | 2,227.376 | 14.2277 | 105 | .66733 | 1.66115 | .58822 | 1.4893 |
| 51 | 7,681.5 | 115,291.5 | 2,191.415 | 14.0090 | 106 | .40289 | .99382 | .35557 | 1.4667 |
| 52 | 7,278.6 | 107,610.0 | 2,154.319 | 13.7844 | 107 | .24319 | .59093 | .21505 | 1.4299 |
| 53 | 6,893.9 | 100,331.4 | 2,116.202 | 13.5537 | 108 | .14411 | .34773 | .12755 | 1.4129 |
| 54 | 6,526.4 | 93,437.5 | 2,077.030 | 13.3168 | 109 | .08333 | .20361 | .07363 | 1.4434 |

TABLE 39. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 5.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,839,118 | 4,121.804 | 17.3912 | 55 | 4,755.6 | 63,831.7 | 1,427.841 | 12.4225 |
| 1 | 93,335 | 1,739,118 | 2,669.671 | 17.6332 | 56 | 4,476.1 | 59,076.1 | 1,396.321 | 12.1981 |
| 2 | 88,379 | 1,645,784 | 2,579.826 | 17.6219 | 57 | 4,210.6 | 54,600.0 | 1,364.176 | 11.9672 |
| 3 | 83,716 | 1,557,405 | 2,524.471 | 17.6034 | 58 | 3,958.4 | 50,389.4 | 1,331.466 | 11.7297 |
| 4 | 79,308 | 1,473,688 | 2,480.881 | 17.5818 | 59 | 3,718.9 | 46,431.0 | 1,298.295 | 11.4852 |
| 5 | 75,138 | 1,394,380 | 2,445.685 | 17.5575 | 60 | 3,491.4 | 42,712.1 | 1,264.720 | 11.2335 |
| 6 | 71,193 | 1,319,242 | 2,417.400 | 17.5305 | 61 | 3,275.4 | 39,220.7 | 1,230.720 | 10.9743 |
| 7 | 67,457 | 1,248,049 | 2,393.340 | 17.5013 | 62 | 3,070.2 | 35,945.3 | 1,196.250 | 10.7079 |
| 8 | 63,920 | 1,180,591 | 2,372.489 | 17.4699 | 63 | 2,875.1 | 32,875.1 | 1,161.212 | 10.4345 |
| 9 | 60,570 | 1,116,671 | 2,354.578 | 17.4361 | 64 | 2,689.5 | 30,000.0 | 1,125.530 | 10.1544 |
| 10 | 57,397 | 1,056,102 | 2,339.357 | 17.4000 | 65 | 2,512.9 | 27,310.5 | 1,089.090 | 9.8683 |
| 11 | 54,391 | 998,705 | 2,326.039 | 17.3615 | 66 | 2,344.6 | 24,797.7 | 1,051.864 | 9.5763 |
| 12 | 51,543 | 944,314 | 2,313.415 | 17.3209 | 67 | 2,184.3 | 22,453.0 | 1,013.811 | 9.2791 |
| 13 | 48,843 | 892,771 | 2,300.951 | 17.2782 | 68 | 2,031.5 | 20,268.7 | 974.830 | 8.9772 |
| 14 | 46,283 | 843,927 | 2,286.774 | 17.2341 | 69 | 1,885.6 | 18,237.2 | 934.873 | 8.6717 |
| 15 | 43,854 | 797,644 | 2,270.200 | 17.1888 | 70 | 1,746.4 | 16,351.6 | 893.982 | 8.3628 |
| 16 | 41,548 | 753,791 | 2,251.094 | 17.1425 | 71 | 1,613.8 | 14,605.1 | 852.386 | 8.0502 |
| 17 | 39,360 | 712,242 | 2,229.362 | 17.0954 | 72 | 1,487.5 | 12,991.3 | 810.184 | 7.7339 |
| 18 | 37,286 | 672,882 | 2,206.474 | 17.0467 | 73 | 1,366.9 | 11,503.9 | 767.212 | 7.4158 |
| 19 | 35,319 | 635,596 | 2,184.056 | 16.9957 | 74 | 1,251.7 | 10,136.9 | 723.227 | 7.0986 |
| 20 | 33,457 | 600,277 | 2,162.464 | 16.9420 | 75 | 1,141.3 | 8,885.2 | 678.090 | 6.7852 |
| 21 | 31,692 | 566,820 | 2,141.998 | 16.8854 | 76 | 1,035.8 | 7,743.9 | 632.059 | 6.4765 |
| 22 | 30,020 | 535,128 | 2,122.599 | 16.8256 | 77 | 935.24 | 6,708.17 | 585.528 | 6.1726 |
| 23 | 28,437 | 505,108 | 2,104.211 | 16.7624 | 78 | 839.82 | 5,772.93 | 538.858 | 5.8740 |
| 24 | 26,937 | 476,671 | 2,086.505 | 16.6960 | 79 | 749.64 | 4,933.11 | 492.467 | 5.5806 |
| 25 | 25,515 | 449,735 | 2,069.197 | 16.6262 | 80 | 664.80 | 4,183.47 | 446.700 | 5.2929 |
| 26 | 24,169 | 424,220 | 2,052.792 | 16.5526 | 81 | 585.23 | 3,518.67 | 401.789 | 5.0125 |
| 27 | 22,893 | 400,051 | 2,036.771 | 16.4752 | 82 | 510.92 | 2,933.44 | 357.992 | 4.7415 |
| 28 | 21,683 | 377,159 | 2,021.139 | 16.3939 | 83 | 442.15 | 2,422.52 | 315.856 | 4.4790 |
| 29 | 20,538 | 355,475 | 2,005.686 | 16.3085 | 84 | 379.13 | 1,980.37 | 275.883 | 4.2235 |
| 30 | 19,451 | 334,938 | 1,990.236 | 16.2192 | 85 | 321.88 | 1,601.25 | 238.406 | 3.9746 |
| 31 | 18,422 | 315,486 | 1,974.831 | 16.1255 | 86 | 270.13 | 1,279.37 | 203.433 | 3.7361 |
| 32 | 17,446 | 297,064 | 1,959.148 | 16.0277 | 87 | 223.56 | 1,009.24 | 170.947 | 3.5144 |
| 33 | 16,521 | 279,618 | 1,943.257 | 15.9255 | 88 | 182.36 | 785.68 | 141.404 | 3.3083 |
| 34 | 15,643 | 263,098 | 1,926.899 | 15.8190 | 89 | 146.68 | 603.31 | 115.225 | 3.1132 |
| 35 | 14,811 | 247,455 | 1,910.165 | 15.7079 | 90 | 116.36 | 456.64 | 92.559 | 2.9242 |
| 36 | 14,021 | 232,644 | 1,892.994 | 15.5921 | 91 | 90.920 | 340.270 | 73.181 | 2.7425 |
| 37 | 13,273 | 218,623 | 1,875.339 | 15.4716 | 92 | 69.764 | 249.350 | 56.765 | 2.5742 |
| 38 | 12,562 | 205,350 | 1,856.905 | 15.3465 | 93 | 52.493 | 179.586 | 43.131 | 2.4211 |
| 39 | 11,888 | 192,788 | 1,837.697 | 15.2167 | 94 | 38.711 | 127.093 | 32.085 | 2.2831 |
| 40 | 11,249 | 180,899 | 1,817.728 | 15.0821 | 95 | 27.972 | 88.382 | 23.365 | 2.1596 |
| 41 | 10,641 | 169,651 | 1,797.130 | 14.9424 | 96 | 19.807 | 60.409 | 16.657 | 2.0500 |
| 42 | 10,066 | 159,009 | 1,775.918 | 14.7975 | 97 | 13.749 | 40.603 | 11.632 | 1.9532 |
| 43 | 9,518.8 | 148,943.9 | 1,753.910 | 14.6474 | 98 | 9.3687 | 26.8541 | 7.9687 | 1.8664 |
| 44 | 8,999.6 | 139,425.2 | 1,730.964 | 14.4924 | 99 | 6.2661 | 17.4854 | 5.3545 | 1.7905 |
| 45 | 8,506.6 | 130,425.6 | 1,707.147 | 14.3323 | 100 | 4.1235 | 11.2194 | 3.5386 | 1.7208 |
| 46 | 8,038.3 | 121,919.0 | 1,682.357 | 14.1672 | 101 | 2.6670 | 7.0958 | 2.2970 | 1.6606 |
| 47 | 7,593.7 | 113,880.7 | 1,656.760 | 13.9968 | 102 | 1.6995 | 4.4289 | 1.4686 | 1.6060 |
| 48 | 7,171.5 | 106,287.0 | 1,630.431 | 13.8208 | 103 | 1.0672 | 2.7294 | .9249 | 1.5576 |
| 49 | 6,770.6 | 99,115.6 | 1,603.442 | 13.6391 | 104 | .66037 | 1.66220 | .57371 | 1.5171 |
| 50 | 6,390.1 | 92,345.0 | 1,575.867 | 13.4513 | 105 | .40523 | 1.00183 | .35300 | 1.4722 |
| 51 | 6,028.7 | 85,954.9 | 1,547.643 | 13.2576 | 106 | .24349 | .59659 | .21239 | 1.4501 |
| 52 | 5,685.4 | 79,926.2 | 1,518.667 | 13.0581 | 107 | .14628 | .35309 | .12787 | 1.4338 |
| 53 | 5,359.4 | 74,240.8 | 1,489.034 | 12.8524 | 108 | .08627 | .20681 | .07549 | 1.3971 |
| 54 | 5,049.7 | 68,881.4 | 1,458.726 | 12.6407 | 109 | .04965 | .12053 | .04336 | 1.4277 |

TABLE 40. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 6 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,704,019 | 3,546.093 | 16.0402 | 55 | 3,666.6 | 47,020.7 | 1,005.058 | 11.8240 |
| 1 | 92,894 | 1,604,019 | 2,100.810 | 16.2671 | 56 | 3,434.9 | 43,354.1 | 980.871 | 11.6217 |
| 2 | 87,547 | 1,511,125 | 2,011.810 | 16.2607 | 57 | 3,215.9 | 39,919.2 | 956.319 | 11.4131 |
| 3 | 82,537 | 1,423,578 | 1,957.235 | 16.2477 | 58 | 3,009.0 | 36,703.3 | 931.455 | 11.1978 |
| 4 | 77,822 | 1,341,040 | 1,914.462 | 16.2321 | 59 | 2,813.6 | 33,694.3 | 906.359 | 10.9756 |
| 5 | 73,383 | 1,263,218 | 1,880.088 | 16.2140 | 60 | 2,629.0 | 30,880.7 | 881.076 | 10.7460 |
| 6 | 69,202 | 1,189,835 | 1,852.595 | 16.1937 | 61 | 2,454.7 | 28,251.7 | 855.595 | 10.5090 |
| 7 | 65,261 | 1,120,633 | 1,829.318 | 16.1715 | 62 | 2,290.1 | 25,796.9 | 829.884 | 10.2646 |
| 8 | 61,547 | 1,055,372 | 1,809.240 | 16.1473 | 63 | 2,134.4 | 23,506.8 | 803.871 | 10.0131 |
| 9 | 58,046 | 993,825 | 1,792.075 | 16.1212 | 64 | 1,987.3 | 21,372.4 | 777.506 | 9.7547 |
| 10 | 54,746 | 935,778 | 1,777.557 | 16.0930 | 65 | 1,848.0 | 19,385.1 | 750.708 | 9.4899 |
| 11 | 51,635 | 881,032 | 1,764.914 | 16.0628 | 66 | 1,716.1 | 17,537.1 | 723.461 | 9.2190 |
| 12 | 48,700 | 829,398 | 1,752.987 | 16.0307 | 67 | 1,591.3 | 15,821.0 | 695.740 | 8.9424 |
| 13 | 45,932 | 780,697 | 1,741.266 | 15.9969 | 68 | 1,472.9 | 14,229.7 | 667.477 | 8.6608 |
| 14 | 43,319 | 734,766 | 1,727.997 | 15.9619 | 69 | 1,360.7 | 12,756.8 | 638.642 | 8.3750 |
| 15 | 40,851 | 691,447 | 1,712.558 | 15.9260 | 70 | 1,254.3 | 11,396.1 | 609.273 | 8.0854 |
| 16 | 38,521 | 650,596 | 1,694.844 | 15.8894 | 71 | 1,153.6 | 10,141.8 | 579.539 | 7.7914 |
| 17 | 36,321 | 612,075 | 1,674.790 | 15.8520 | 72 | 1,058.3 | 8,988.2 | 549.513 | 7.4932 |
| 18 | 34,244 | 575,755 | 1,653.770 | 15.8135 | 73 | 967.95 | 7,929.88 | 519.084 | 7.1925 |
| 19 | 32,285 | 541,511 | 1,633.278 | 15.7729 | 74 | 882.16 | 6,961.93 | 488.085 | 6.8919 |
| 20 | 30,438 | 509,226 | 1,613.634 | 15.7301 | 75 | 800.56 | 6,079.77 | 456.424 | 6.5944 |
| 21 | 28,696 | 478,788 | 1,595.102 | 15.6847 | 76 | 723.11 | 5,279.21 | 424.288 | 6.3007 |
| 22 | 27,055 | 450,092 | 1,577.619 | 15.6365 | 77 | 649.85 | 4,556.10 | 391.956 | 6.0110 |
| 23 | 25,507 | 423,038 | 1,561.126 | 15.5854 | 78 | 580.79 | 3,906.25 | 359.681 | 5.7258 |
| 24 | 24,047 | 397,531 | 1,545.320 | 15.5314 | 79 | 515.98 | 3,325.46 | 327.749 | 5.4449 |
| 25 | 22,671 | 373,484 | 1,529.942 | 15.4744 | 80 | 455.42 | 2,809.48 | 296.396 | 5.1689 |
| 26 | 21,373 | 350,813 | 1,515.434 | 15.4140 | 81 | 399.02 | 2,354.06 | 265.775 | 4.8995 |
| 27 | 20,149 | 329,440 | 1,501.333 | 15.3503 | 82 | 346.72 | 1,955.03 | 236.054 | 4.6387 |
| 28 | 18,995 | 309,292 | 1,487.639 | 15.2830 | 83 | 298.63 | 1,608.32 | 207.595 | 4.3856 |
| 29 | 17,906 | 290,297 | 1,474.166 | 15.2122 | 84 | 254.86 | 1,309.68 | 180.724 | 4.1389 |
| 30 | 16,879 | 272,391 | 1,460.760 | 15.1377 | 85 | 215.36 | 1,054.83 | 155.650 | 3.8980 |
| 31 | 15,910 | 255,512 | 1,447.455 | 15.0594 | 86 | 179.88 | 839.47 | 132.361 | 3.6669 |
| 32 | 14,996 | 239,601 | 1,433.974 | 14.9773 | 87 | 148.17 | 659.59 | 110.831 | 3.4517 |
| 33 | 14,134 | 224,605 | 1,420.379 | 14.8913 | 88 | 120.29 | 511.43 | 91.344 | 3.2515 |
| 34 | 13,320 | 210,471 | 1,406.450 | 14.8012 | 89 | 96.296 | 391.134 | 74.157 | 3.0618 |
| 35 | 12,552 | 197,151 | 1,392.268 | 14.7070 | 90 | 76.035 | 294.838 | 59.346 | 2.8776 |
| 36 | 11,827 | 184,599 | 1,377.785 | 14.6086 | 91 | 59.129 | 218.802 | 46.744 | 2.7004 |
| 37 | 11,143 | 172,773 | 1,362.963 | 14.5057 | 92 | 45.156 | 159.673 | 36.118 | 2.5360 |
| 38 | 10,496 | 161,630 | 1,347.561 | 14.3986 | 93 | 33.817 | 114.517 | 27.335 | 2.3864 |
| 39 | 9,886.3 | 151,133.7 | 1,331.587 | 14.2871 | 94 | 24.821 | 80.700 | 20.253 | 2.2513 |
| 40 | 9,310.2 | 141,247.3 | 1,315.059 | 14.1713 | 95 | 17.851 | 55.879 | 14.688 | 2.1303 |
| 41 | 8,766.2 | 131,937.1 | 1,298.091 | 14.0506 | 96 | 12.580 | 38.028 | 10.427 | 2.0229 |
| 42 | 8,252.6 | 123,170.9 | 1,280.699 | 13.9250 | 97 | 8.6912 | 25.4484 | 7.2508 | 1.9280 |
| 43 | 7,767.5 | 114,918.3 | 1,262.741 | 13.7947 | 98 | 5.8945 | 16.7571 | 4.9460 | 1.8429 |
| 44 | 7,309.2 | 107,150.7 | 1,244.104 | 13.6596 | 99 | 3.9238 | 10.8627 | 3.3090 | 1.7684 |
| 45 | 6,876.3 | 99,841.5 | 1,224.852 | 13.5197 | 100 | 2.5700 | 6.9388 | 2.1772 | 1.7000 |
| 46 | 6,467.1 | 92,965.2 | 1,204.908 | 13.3751 | 101 | 1.6543 | 4.3689 | 1.4070 | 1.6408 |
| 47 | 6,080.5 | 86,498.1 | 1,184.411 | 13.2254 | 102 | 1.0492 | 2.7145 | .8956 | 1.5872 |
| 48 | 5,715.4 | 80,417.6 | 1,163.427 | 13.0704 | 103 | .65575 | 1.66531 | .56149 | 1.5395 |
| 49 | 5,370.4 | 74,702.2 | 1,142.020 | 12.9099 | 104 | .40386 | 1.00955 | .34671 | 1.4997 |
| 50 | 5,044.7 | 69,331.8 | 1,120.251 | 12.7435 | 105 | .24666 | .60569 | .21237 | 1.4556 |
| 51 | 4,737.0 | 64,287.1 | 1,098.075 | 12.5714 | 106 | .14751 | .35903 | .12719 | 1.4339 |
| 52 | 4,446.2 | 59,550.1 | 1,075.414 | 12.3936 | 107 | .08820 | .21151 | .07623 | 1.3981 |
| 53 | 4,171.4 | 55,104.0 | 1,052.350 | 12.2098 | 108 | .05177 | .12331 | .04479 | 1.3817 |
| 54 | 3,911.8 | 50,932.5 | 1,028.871 | 12.0201 | 109 | .02965 | .07153 | .02560 | 1.4123 |

TABLE 41. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 6.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|---------|
| 0 | 100,000 | 1,587,291 | 3,123.089 | 14.8729 | 55 | 2,830.5 | 34,737.1 | 710.363 | 11.2726 |
| 1 | 92,458 | 1,487,291 | 1,684.591 | 15.0861 | 56 | 2,639.1 | 31,906.6 | 697.779 | 11.0898 |
| 2 | 86,727 | 1,394,833 | 1,596.425 | 15.0830 | 57 | 2,459.3 | 29,267.5 | 673.004 | 10.9008 |
| 3 | 81,380 | 1,308,106 | 1,542.615 | 15.0740 | 58 | 2,290.3 | 26,808.2 | 654.079 | 10.7053 |
| 4 | 76,371 | 1,226,726 | 1,500.640 | 15.0627 | 59 | 2,131.5 | 24,518.0 | 635.067 | 10.5028 |
| 5 | 71,676 | 1,150,354 | 1,467.065 | 15.0493 | 60 | 1,982.3 | 22,386.5 | 616.004 | 10.2931 |
| 6 | 67,275 | 1,078,678 | 1,440.337 | 15.0338 | 61 | 1,842.2 | 20,404.2 | 596.881 | 10.0759 |
| 7 | 63,147 | 1,011,403 | 1,417.814 | 15.0167 | 62 | 1,710.6 | 18,562.0 | 577.676 | 9.8514 |
| 8 | 59,273 | 948,256 | 1,398.470 | 14.9980 | 63 | 1,586.8 | 16,851.4 | 558.338 | 9.6196 |
| 9 | 55,639 | 888,983 | 1,382.026 | 14.9776 | 64 | 1,470.5 | 15,264.6 | 538.829 | 9.3807 |
| 10 | 52,230 | 833,344 | 1,368.175 | 14.9554 | 65 | 1,361.0 | 13,754.1 | 519.093 | 9.1354 |
| 11 | 49,030 | 781,114 | 1,356.170 | 14.9314 | 66 | 1,257.9 | 12,433.1 | 499.120 | 8.8836 |
| 12 | 46,026 | 732,084 | 1,344.897 | 14.9059 | 67 | 1,160.9 | 11,175.2 | 478.896 | 8.6259 |
| 13 | 43,206 | 686,058 | 1,333.872 | 14.8788 | 68 | 1,069.6 | 10,014.2 | 458.372 | 8.3629 |
| 14 | 40,557 | 642,852 | 1,321.449 | 14.8508 | 69 | 983.45 | 8,944.65 | 437.533 | 8.0952 |
| 15 | 38,067 | 602,296 | 1,307.062 | 14.8220 | 70 | 902.30 | 7,961.20 | 416.406 | 7.8232 |
| 16 | 35,727 | 564,229 | 1,290.633 | 14.7927 | 71 | 825.94 | 7,058.90 | 395.117 | 7.5465 |
| 17 | 33,528 | 528,502 | 1,272.121 | 14.7630 | 72 | 754.14 | 6,232.96 | 373.721 | 7.2650 |
| 18 | 31,462 | 494,974 | 1,252.808 | 14.7322 | 73 | 686.53 | 5,478.82 | 352.139 | 6.9805 |
| 19 | 29,523 | 463,511 | 1,234.069 | 14.6997 | 74 | 622.74 | 4,792.30 | 330.255 | 6.6955 |
| 20 | 27,704 | 433,988 | 1,216.189 | 14.6653 | 75 | 562.49 | 4,169.55 | 308.010 | 6.4127 |
| 21 | 25,996 | 406,284 | 1,199.401 | 14.6287 | 76 | 505.69 | 3,607.06 | 285.537 | 6.1330 |
| 22 | 24,394 | 380,288 | 1,183.638 | 14.5896 | 77 | 452.32 | 3,101.38 | 263.032 | 5.8566 |
| 23 | 22,890 | 355,894 | 1,168.837 | 14.5480 | 78 | 402.35 | 2,649.06 | 240.673 | 5.5839 |
| 24 | 21,479 | 333,004 | 1,154.718 | 14.5038 | 79 | 355.78 | 2,246.71 | 218.656 | 5.3149 |
| 25 | 20,154 | 311,525 | 1,141.047 | 14.4570 | 80 | 312.55 | 1,890.93 | 197.139 | 5.0500 |
| 26 | 18,911 | 291,371 | 1,128.210 | 14.4071 | 81 | 272.56 | 1,578.38 | 176.223 | 4.7910 |
| 27 | 17,745 | 272,459 | 1,115.792 | 14.3544 | 82 | 235.72 | 1,305.82 | 156.017 | 4.5398 |
| 28 | 16,650 | 254,715 | 1,103.788 | 14.2984 | 83 | 202.07 | 1,070.11 | 136.760 | 4.2957 |
| 29 | 15,622 | 238,065 | 1,092.034 | 14.2393 | 84 | 171.64 | 868.04 | 118.663 | 4.0573 |
| 30 | 14,657 | 222,443 | 1,080.393 | 14.1769 | 85 | 144.36 | 696.40 | 101.855 | 3.8241 |
| 31 | 13,751 | 207,786 | 1,068.894 | 14.1110 | 86 | 120.01 | 552.04 | 86.317 | 3.5999 |
| 32 | 12,900 | 194,036 | 1,057.298 | 14.0417 | 87 | 98.388 | 432.029 | 72.020 | 3.3911 |
| 33 | 12,101 | 181,136 | 1,045.658 | 13.9688 | 88 | 79.504 | 333.641 | 59.141 | 3.1965 |
| 34 | 11,350 | 169,035 | 1,033.788 | 13.8923 | 89 | 63.346 | 254.137 | 47.835 | 3.0119 |
| 35 | 10,646 | 157,684 | 1,021.760 | 13.8120 | 90 | 49.783 | 190.791 | 38.138 | 2.8325 |
| 36 | 9,983.7 | 147,038.8 | 1,009.534 | 13.7278 | 91 | 38.532 | 141.008 | 29.926 | 2.6595 |
| 37 | 9,361.9 | 137,055.0 | 997.081 | 13.6396 | 92 | 29.288 | 102.477 | 23.034 | 2.4989 |
| 38 | 8,777.7 | 127,693.1 | 984.200 | 13.5475 | 93 | 21.831 | 73.188 | 17.364 | 2.3525 |
| 39 | 8,228.7 | 118,915.4 | 970.905 | 13.4514 | 94 | 15.948 | 51.358 | 12.813 | 2.2203 |
| 40 | 7,712.7 | 110,686.8 | 957.213 | 13.3512 | 95 | 11.416 | 35.410 | 9.255 | 2.1018 |
| 41 | 7,228.0 | 102,974.0 | 943.223 | 13.2465 | 96 | 8.0072 | 23.9940 | 6.5428 | 1.9965 |
| 42 | 6,772.6 | 95,746.0 | 928.950 | 13.1373 | 97 | 5.5060 | 15.9868 | 4.5303 | 1.9035 |
| 43 | 6,344.6 | 88,973.4 | 914.281 | 13.0235 | 98 | 3.7167 | 10.4808 | 3.0770 | 1.8199 |
| 44 | 5,942.2 | 82,628.8 | 899.130 | 12.9054 | 99 | 2.4625 | 6.7641 | 2.0497 | 1.7468 |
| 45 | 5,564.0 | 76,686.6 | 883.552 | 12.7827 | 100 | 1.6053 | 4.3015 | 1.3428 | 1.6796 |
| 46 | 5,208.3 | 71,122.7 | 867.490 | 12.6556 | 101 | 1.0285 | 2.6963 | .8639 | 1.6215 |
| 47 | 4,874.0 | 65,914.3 | 851.060 | 12.5237 | 102 | .64923 | 1.66774 | .54744 | 1.5688 |
| 48 | 4,559.8 | 61,040.3 | 834.319 | 12.3867 | 103 | .40386 | 1.01851 | .34170 | 1.5219 |
| 49 | 4,264.5 | 56,480.6 | 817.321 | 12.2444 | 104 | .24756 | .61465 | .21004 | 1.4828 |
| 50 | 3,987.0 | 52,216.1 | 800.115 | 12.0965 | 105 | .15049 | .36708 | .12808 | 1.4393 |
| 51 | 3,726.2 | 48,229.1 | 782.671 | 11.9431 | 106 | .08957 | .21659 | .07635 | 1.4180 |
| 52 | 3,481.1 | 44,502.8 | 764.929 | 11.7843 | 107 | .05330 | .12701 | .04555 | 1.3827 |
| 53 | 3,250.6 | 41,021.8 | 746.956 | 11.6196 | 108 | .03114 | .07370 | .02664 | 1.3666 |
| 54 | 3,034.0 | 37,771.1 | 728.746 | 11.4492 | 109 | .01775 | .04256 | .01515 | 1.3492 |

TABLE 42. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 7 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|---------|
| 0 | 100,000 | 1,485,642 | 2,808.474 | 13.8564 | 55 | 2,187.7 | 25,734.3 | 504.102 | 10.7634 |
| 1 | 92,026 | 1,385,642 | 1,376.699 | 14.0570 | 56 | 2,030.2 | 23,546.7 | 489.806 | 10.5980 |
| 2 | 85,918 | 1,293,616 | 1,289.355 | 14.0563 | 57 | 1,883.0 | 21,516.4 | 475.430 | 10.4264 |
| 3 | 80,245 | 1,207,697 | 1,236.295 | 14.0502 | 58 | 1,745.4 | 19,633.4 | 461.007 | 10.2484 |
| 4 | 74,954 | 1,127,453 | 1,195.099 | 14.0420 | 59 | 1,616.8 | 17,887.9 | 446.586 | 10.0636 |
| 5 | 70,017 | 1,052,499 | 1,162.302 | 14.0320 | 60 | 1,496.7 | 16,271.1 | 432.193 | 9.8716 |
| 6 | 65,411 | 982,482 | 1,136.314 | 14.0202 | 61 | 1,384.4 | 14,774.5 | 417.823 | 9.6723 |
| 7 | 61,110 | 917,071 | 1,114.518 | 14.0069 | 62 | 1,279.4 | 13,390.1 | 403.458 | 9.4655 |
| 8 | 57,093 | 855,961 | 1,095.894 | 13.9923 | 63 | 1,181.3 | 12,110.6 | 389.061 | 9.2516 |
| 9 | 53,342 | 798,868 | 1,080.120 | 13.9762 | 64 | 1,089.6 | 10,929.3 | 374.605 | 9.0305 |
| 10 | 49,840 | 745,525 | 1,066.903 | 13.9585 | 65 | 1,003.8 | 9,839.7 | 360.049 | 8.8028 |
| 11 | 46,568 | 695,686 | 1,055.500 | 13.9392 | 66 | 923.44 | 8,835.92 | 345.388 | 8.5685 |
| 12 | 43,511 | 649,118 | 1,044.844 | 13.9186 | 67 | 848.25 | 7,912.48 | 330.610 | 8.3280 |
| 13 | 40,654 | 605,607 | 1,034.470 | 13.8968 | 68 | 777.83 | 7,064.23 | 315.685 | 8.0820 |
| 14 | 37,982 | 564,954 | 1,022.835 | 13.8741 | 69 | 711.86 | 6,286.40 | 300.601 | 7.8309 |
| 15 | 35,484 | 526,971 | 1,009.425 | 13.8509 | 70 | 650.07 | 5,574.54 | 285.380 | 7.5753 |
| 16 | 33,148 | 491,487 | 994.182 | 13.8273 | 71 | 592.28 | 4,924.47 | 270.114 | 7.3145 |
| 17 | 30,962 | 458,340 | 977.087 | 13.8033 | 72 | 538.26 | 4,332.19 | 254.842 | 7.0486 |
| 18 | 28,919 | 427,378 | 959.335 | 13.7786 | 73 | 487.71 | 3,793.94 | 239.510 | 6.7791 |
| 19 | 27,010 | 398,459 | 942.192 | 13.7525 | 74 | 440.33 | 3,306.23 | 224.037 | 6.5085 |
| 20 | 25,226 | 371,450 | 925.911 | 13.7247 | 75 | 395.87 | 2,865.89 | 208.381 | 6.2395 |
| 21 | 23,561 | 346,223 | 910.696 | 13.6949 | 76 | 354.23 | 2,470.02 | 192.639 | 5.9730 |
| 22 | 22,005 | 322,662 | 896.476 | 13.6630 | 77 | 315.36 | 2,115.80 | 176.948 | 5.7090 |
| 23 | 20,552 | 300,657 | 883.186 | 13.6288 | 78 | 279.22 | 1,800.43 | 161.432 | 5.4481 |
| 24 | 19,195 | 280,105 | 870.569 | 13.5925 | 79 | 245.74 | 1,521.21 | 146.224 | 5.1903 |
| 25 | 17,927 | 260,910 | 858.408 | 13.5538 | 80 | 214.87 | 1,275.47 | 131.431 | 4.9359 |
| 26 | 16,743 | 242,982 | 847.043 | 13.5124 | 81 | 186.50 | 1,060.60 | 117.119 | 4.6867 |
| 27 | 15,637 | 226,239 | 836.100 | 13.4684 | 82 | 160.54 | 874.09 | 103.357 | 4.4447 |
| 28 | 14,603 | 210,602 | 825.572 | 13.4216 | 83 | 136.98 | 713.55 | 90.303 | 4.2090 |
| 29 | 13,638 | 195,999 | 815.311 | 13.3719 | 84 | 115.81 | 576.57 | 78.092 | 3.9785 |
| 30 | 12,735 | 182,361 | 805.196 | 13.3193 | 85 | 96.947 | 460.758 | 66.804 | 3.7527 |
| 31 | 11,892 | 169,626 | 795.251 | 13.2635 | 86 | 80.219 | 363.811 | 56.418 | 3.5352 |
| 32 | 11,104 | 157,734 | 785.269 | 13.2047 | 87 | 65.459 | 283.592 | 46.906 | 3.3323 |
| 33 | 10,368 | 146,629 | 775.296 | 13.1427 | 88 | 52.648 | 218.132 | 38.378 | 3.1432 |
| 34 | 9,679.5 | 136,261.6 | 765.174 | 13.0774 | 89 | 41.752 | 165.485 | 30.926 | 2.9635 |
| 35 | 9,036.0 | 126,582.1 | 754.964 | 13.0086 | 90 | 32.659 | 123.733 | 24.564 | 2.7886 |
| 36 | 8,434.6 | 117,546.1 | 744.635 | 12.9362 | 91 | 25.160 | 91.074 | 19.202 | 2.6198 |
| 37 | 7,872.3 | 109,111.5 | 734.164 | 12.8602 | 92 | 19.035 | 65.914 | 14.723 | 2.4628 |
| 38 | 7,346.5 | 101,239.2 | 723.383 | 12.7806 | 93 | 14.122 | 46.879 | 11.055 | 2.3196 |
| 39 | 6,854.8 | 93,892.7 | 712.308 | 12.6973 | 94 | 10.268 | 32.757 | 8.125 | 2.1902 |
| 40 | 6,395.0 | 87,037.9 | 700.955 | 12.6103 | 95 | 7.3157 | 22.4890 | 5.8445 | 2.0741 |
| 41 | 5,965.1 | 80,642.9 | 689.409 | 12.5191 | 96 | 5.1074 | 15.1733 | 4.1148 | 1.9708 |
| 42 | 5,563.1 | 74,677.8 | 677.685 | 12.4237 | 97 | 3.4956 | 10.0659 | 2.8371 | 1.8796 |
| 43 | 5,187.2 | 69,114.6 | 665.692 | 12.3240 | 98 | 2.3486 | 6.5702 | 1.9188 | 1.7975 |
| 44 | 4,835.5 | 63,927.4 | 653.363 | 12.2204 | 99 | 1.5488 | 4.2216 | 1.2726 | 1.7257 |
| 45 | 4,506.6 | 59,091.9 | 640.745 | 12.1124 | 100 | 1.0049 | 2.6728 | .8301 | 1.6597 |
| 46 | 4,198.8 | 54,585.3 | 627.796 | 12.0002 | 101 | .64084 | 1.66789 | .53173 | 1.6026 |
| 47 | 3,910.9 | 50,386.5 | 614.613 | 11.8835 | 102 | .40263 | 1.02705 | .33544 | 1.5508 |
| 48 | 3,641.7 | 46,475.6 | 601.243 | 11.7621 | 103 | .24929 | .62441 | .20844 | 1.5047 |
| 49 | 3,389.9 | 42,833.9 | 587.730 | 11.6356 | 104 | .15210 | .37511 | .12756 | 1.4662 |
| 50 | 3,154.6 | 39,443.9 | 574.117 | 11.5038 | 105 | .09202 | .22301 | .07743 | 1.4233 |
| 51 | 2,934.5 | 36,289.4 | 560.379 | 11.3667 | 106 | .05452 | .13098 | .04595 | 1.4024 |
| 52 | 2,728.6 | 33,354.9 | 546.473 | 11.2243 | 107 | .03229 | .07646 | .02729 | 1.3676 |
| 53 | 2,536.0 | 30,626.4 | 532.451 | 11.0764 | 108 | .01878 | .04416 | .01589 | 1.3518 |
| 54 | 2,356.0 | 28,090.3 | 518.310 | 10.9229 | 109 | .01065 | .02538 | .00899 | 1.3824 |

TABLE 43. UNITED STATES WHITE FEMALES: 1960-71--ACTUARIAL FUNCTIONS AT 7.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|---------|
| 0 | 100,000 | 1,396,477 | 2,571.406 | 12.9648 | 55 | 1,692.9 | 19,116.5 | 359.149 | 10.2924 |
| 1 | 91,598 | 1,296,477 | 1,146.290 | 13.1540 | 56 | 1,563.7 | 17,423.7 | 348.138 | 10.1423 |
| 2 | 85,121 | 1,204,878 | 1,059.757 | 13.1549 | 57 | 1,443.6 | 15,859.9 | 337.117 | 9.9862 |
| 3 | 79,130 | 1,119,757 | 1,007.434 | 13.1509 | 58 | 1,331.9 | 14,416.3 | 326.111 | 9.8239 |
| 4 | 73,569 | 1,040,627 | 966.999 | 13.1449 | 59 | 1,228.0 | 13,084.4 | 315.157 | 9.6549 |
| 5 | 68,404 | 967,058 | 934.957 | 13.1374 | 60 | 1,131.5 | 11,856.4 | 304.276 | 9.4788 |
| 6 | 63,606 | 898,654 | 909.687 | 13.1283 | 61 | 1,041.7 | 10,724.9 | 293.463 | 9.2955 |
| 7 | 59,148 | 835,048 | 888.590 | 13.1180 | 62 | 958.28 | 9,683.20 | 282.704 | 9.1048 |
| 8 | 55,003 | 775,900 | 870.648 | 13.1065 | 63 | 880.69 | 8,724.93 | 271.971 | 8.9070 |
| 9 | 51,151 | 720,897 | 855.522 | 13.0936 | 64 | 808.52 | 7,844.24 | 261.245 | 8.7020 |
| 10 | 47,569 | 669,746 | 842.907 | 13.0794 | 65 | 741.36 | 7,035.72 | 250.494 | 8.4903 |
| 11 | 44,240 | 622,177 | 832.075 | 13.0637 | 66 | 678.86 | 6,294.36 | 239.716 | 8.2720 |
| 12 | 41,143 | 577,937 | 821.998 | 13.0470 | 67 | 620.68 | 5,615.51 | 228.903 | 8.0473 |
| 13 | 38,263 | 536,794 | 812.234 | 13.0291 | 68 | 566.51 | 4,994.82 | 218.033 | 7.8169 |
| 14 | 35,583 | 498,531 | 801.335 | 13.0105 | 69 | 516.05 | 4,428.32 | 207.097 | 7.5812 |
| 15 | 33,088 | 462,948 | 788.830 | 12.9916 | 70 | 469.06 | 3,912.27 | 196.115 | 7.3406 |
| 16 | 30,765 | 429,861 | 774.682 | 12.9724 | 71 | 425.37 | 3,443.20 | 185.150 | 7.0945 |
| 17 | 28,603 | 399,096 | 758.890 | 12.9530 | 72 | 384.78 | 3,017.83 | 174.233 | 6.8430 |
| 18 | 26,591 | 370,493 | 742.567 | 12.9331 | 73 | 347.03 | 2,633.05 | 163.324 | 6.5875 |
| 19 | 24,720 | 343,902 | 726.877 | 12.9119 | 74 | 311.86 | 2,286.02 | 152.365 | 6.3304 |
| 20 | 22,981 | 319,182 | 712.046 | 12.8892 | 75 | 279.06 | 1,974.17 | 141.329 | 6.0743 |
| 21 | 21,363 | 296,201 | 698.249 | 12.8649 | 76 | 248.55 | 1,695.11 | 130.282 | 5.8201 |
| 22 | 19,860 | 274,838 | 685.416 | 12.8387 | 77 | 220.25 | 1,446.56 | 119.325 | 5.5679 |
| 23 | 18,463 | 254,978 | 673.477 | 12.8105 | 78 | 194.10 | 1,226.31 | 108.539 | 5.3181 |
| 24 | 17,163 | 236,515 | 662.195 | 12.7803 | 79 | 170.03 | 1,032.22 | 98.017 | 5.0707 |
| 25 | 15,955 | 219,352 | 651.373 | 12.7482 | 80 | 147.98 | 862.19 | 87.829 | 4.8263 |
| 26 | 14,832 | 203,397 | 641.305 | 12.7136 | 81 | 127.85 | 714.20 | 78.018 | 4.5864 |
| 27 | 13,787 | 188,565 | 631.656 | 12.6767 | 82 | 109.54 | 586.36 | 68.628 | 4.3530 |
| 28 | 12,816 | 174,778 | 622.416 | 12.6372 | 83 | 93.029 | 476.820 | 59.763 | 4.1255 |
| 29 | 11,913 | 161,962 | 613.453 | 12.5953 | 84 | 78.285 | 383.791 | 51.509 | 3.9025 |
| 30 | 11,073 | 150,048 | 604.658 | 12.5507 | 85 | 65.229 | 305.506 | 43.914 | 3.6836 |
| 31 | 10,292 | 138,975 | 596.051 | 12.5032 | 86 | 53.722 | 240.277 | 36.959 | 3.4726 |
| 32 | 9,565.4 | 128,683.3 | 587.452 | 12.4531 | 87 | 43.634 | 186.555 | 30.618 | 3.2755 |
| 33 | 8,889.5 | 119,118.0 | 578.902 | 12.3999 | 88 | 34.931 | 142.921 | 24.960 | 3.0916 |
| 34 | 8,260.6 | 110,228.5 | 570.263 | 12.3438 | 89 | 27.573 | 107.990 | 20.038 | 2.9166 |
| 35 | 7,675.6 | 101,967.9 | 561.591 | 12.2846 | 90 | 21.467 | 80.418 | 15.857 | 2.7460 |
| 36 | 7,131.4 | 94,292.3 | 552.858 | 12.2221 | 91 | 16.461 | 58.950 | 12.348 | 2.5812 |
| 37 | 6,625.0 | 87,160.9 | 544.045 | 12.1563 | 92 | 12.396 | 42.489 | 9.432 | 2.4277 |
| 38 | 6,153.8 | 80,535.8 | 535.015 | 12.0872 | 93 | 9.1536 | 30.0931 | 7.0541 | 2.2876 |
| 39 | 5,715.2 | 74,382.0 | 525.781 | 12.0147 | 94 | 6.6248 | 20.9395 | 5.1639 | 2.1608 |
| 40 | 5,307.1 | 68,666.8 | 516.360 | 11.9387 | 95 | 4.6980 | 14.3147 | 3.6993 | 2.0470 |
| 41 | 4,927.3 | 63,359.7 | 506.822 | 11.8590 | 96 | 3.2646 | 9.6167 | 2.5937 | 1.9457 |
| 42 | 4,573.9 | 58,432.5 | 497.183 | 11.7753 | 97 | 2.2240 | 6.3521 | 1.7808 | 1.8562 |
| 43 | 4,244.9 | 53,858.6 | 487.369 | 11.6877 | 98 | 1.4873 | 4.1281 | 1.1993 | 1.7756 |
| 44 | 3,938.7 | 49,613.7 | 477.326 | 11.5963 | 99 | .97622 | 2.64086 | .79198 | 1.7052 |
| 45 | 3,653.7 | 45,674.9 | 467.097 | 11.5009 | 100 | .63047 | 1.66463 | .51434 | 1.6403 |
| 46 | 3,388.4 | 42,021.2 | 456.647 | 11.4016 | 101 | .40018 | 1.03415 | .32803 | 1.5842 |
| 47 | 3,141.4 | 38,632.8 | 446.058 | 11.2981 | 102 | .25026 | .63396 | .20603 | 1.5332 |
| 48 | 2,911.5 | 35,491.5 | 435.368 | 11.1900 | 103 | .15423 | .38370 | .12746 | 1.4879 |
| 49 | 2,697.6 | 32,580.0 | 424.615 | 11.0772 | 104 | .09366 | .22947 | .07765 | 1.4500 |
| 50 | 2,498.6 | 29,882.3 | 413.833 | 10.9594 | 105 | .05640 | .13581 | .04693 | 1.4077 |
| 51 | 2,313.5 | 27,383.7 | 403.002 | 10.8365 | 106 | .03326 | .07940 | .02772 | 1.3872 |
| 52 | 2,141.2 | 25,070.2 | 392.089 | 10.7086 | 107 | .01961 | .04614 | .01639 | 1.3529 |
| 53 | 1,980.8 | 22,929.0 | 381.137 | 10.5754 | 108 | .01135 | .02653 | .00950 | 1.3374 |
| 54 | 1,831.6 | 20,948.2 | 370.144 | 10.4368 | 109 | .00641 | .01518 | .00535 | 1.3679 |

TABLE 44. UNITED STATES WHITE FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 8 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,317,731 | 2,390.279 | 12.1773 | 55 | 1,311.5 | 14,238.0 | 256.872 | 9.8559 |
| 1 | 91,174 | 1,217,731 | 971.760 | 12.3561 | 56 | 1,205.9 | 12,926.4 | 248.380 | 9.7194 |
| 2 | 84,335 | 1,126,557 | 886.027 | 12.3582 | 57 | 1,108.1 | 11,720.5 | 239.921 | 9.5771 |
| 3 | 78,036 | 1,042,222 | 834.427 | 12.3556 | 58 | 1,017.6 | 10,612.4 | 231.512 | 9.4287 |
| 4 | 72,216 | 964,186 | 794.736 | 12.3514 | 59 | 933.91 | 9,594.81 | 223.182 | 9.2738 |
| 5 | 66,835 | 891,970 | 763.429 | 12.3458 | 60 | 856.49 | 8,660.90 | 214.945 | 9.1120 |
| 6 | 61,860 | 825,135 | 738.852 | 12.3388 | 61 | 784.90 | 7,804.41 | 206.798 | 8.9432 |
| 7 | 57,257 | 763,275 | 718.430 | 12.3306 | 62 | 718.69 | 7,019.51 | 198.728 | 8.7671 |
| 8 | 52,999 | 706,018 | 701.142 | 12.3214 | 63 | 657.44 | 6,300.81 | 190.716 | 8.5838 |
| 9 | 49,058 | 653,019 | 686.634 | 12.3111 | 64 | 600.77 | 5,643.37 | 182.746 | 8.3935 |
| 10 | 45,412 | 603,961 | 674.591 | 12.2995 | 65 | 548.32 | 5,042.60 | 174.794 | 8.1964 |
| 11 | 42,038 | 558,548 | 664.298 | 12.2867 | 66 | 499.77 | 4,494.28 | 166.860 | 7.9927 |
| 12 | 38,915 | 516,510 | 654.767 | 12.2729 | 67 | 454.83 | 3,994.51 | 158.936 | 7.7825 |
| 13 | 36,023 | 477,595 | 645.575 | 12.2581 | 68 | 413.21 | 3,539.68 | 151.007 | 7.5664 |
| 14 | 33,344 | 441,572 | 635.361 | 12.2428 | 69 | 374.66 | 3,126.48 | 143.068 | 7.3449 |
| 15 | 30,863 | 408,228 | 623.697 | 12.2272 | 70 | 338.97 | 2,751.82 | 135.132 | 7.1182 |
| 16 | 28,564 | 377,365 | 610.562 | 12.2114 | 71 | 305.97 | 2,412.85 | 127.245 | 6.8858 |
| 17 | 26,433 | 348,801 | 595.968 | 12.1956 | 72 | 275.49 | 2,106.87 | 119.429 | 6.6476 |
| 18 | 24,460 | 322,368 | 580.953 | 12.1794 | 73 | 247.31 | 1,831.38 | 111.654 | 6.4051 |
| 19 | 22,634 | 297,908 | 566.586 | 12.1621 | 74 | 221.22 | 1,584.07 | 103.880 | 6.1606 |
| 20 | 20,944 | 275,274 | 553.070 | 12.1435 | 75 | 197.04 | 1,362.85 | 96.088 | 5.9166 |
| 21 | 19,380 | 254,331 | 540.555 | 12.1235 | 76 | 174.68 | 1,165.81 | 88.325 | 5.6739 |
| 22 | 17,933 | 234,951 | 528.966 | 12.1018 | 77 | 154.08 | 991.13 | 80.659 | 5.4327 |
| 23 | 16,594 | 217,018 | 518.236 | 12.0784 | 78 | 135.15 | 837.05 | 73.148 | 5.1934 |
| 24 | 15,354 | 200,424 | 508.144 | 12.0532 | 79 | 117.85 | 701.90 | 65.855 | 4.9560 |
| 25 | 14,207 | 185,070 | 498.507 | 12.0263 | 80 | 102.09 | 584.05 | 58.827 | 4.7209 |
| 26 | 13,146 | 170,863 | 489.583 | 11.9972 | 81 | 87.791 | 481.962 | 52.090 | 4.4899 |
| 27 | 12,164 | 157,717 | 481.070 | 11.9661 | 82 | 74.870 | 394.172 | 45.672 | 4.2648 |
| 28 | 11,255 | 145,553 | 472.957 | 11.9327 | 83 | 63.292 | 319.302 | 39.640 | 4.0449 |
| 29 | 10,413 | 134,298 | 465.122 | 11.8970 | 84 | 53.014 | 256.009 | 34.051 | 3.8291 |
| 30 | 9,634.1 | 123,885.0 | 457.470 | 11.8590 | 85 | 43.968 | 202.995 | 28.931 | 3.6169 |
| 31 | 8,913.0 | 114,250.9 | 450.016 | 11.8184 | 86 | 36.045 | 159.027 | 24.265 | 3.4119 |
| 32 | 8,245.4 | 105,337.8 | 442.604 | 11.7753 | 87 | 29.140 | 122.982 | 20.030 | 3.2204 |
| 33 | 7,627.3 | 97,092.4 | 435.267 | 11.7296 | 88 | 23.220 | 93.842 | 16.269 | 3.0414 |
| 34 | 7,054.9 | 89,465.1 | 427.890 | 11.6812 | 89 | 18.244 | 70.622 | 13.013 | 2.8710 |
| 35 | 6,525.0 | 82,410.2 | 420.517 | 11.6300 | 90 | 14.139 | 52.378 | 10.259 | 2.7046 |
| 36 | 6,034.3 | 75,885.2 | 413.128 | 11.5757 | 91 | 10.791 | 38.240 | 7.959 | 2.5436 |
| 37 | 5,579.8 | 69,850.9 | 405.706 | 11.5184 | 92 | 8.0886 | 27.4484 | 6.0554 | 2.3935 |
| 38 | 5,159.0 | 64,271.1 | 398.135 | 11.4582 | 93 | 5.9453 | 19.3598 | 4.5112 | 2.2563 |
| 39 | 4,769.1 | 59,112.1 | 390.430 | 11.3948 | 94 | 4.2829 | 13.4145 | 3.2892 | 2.1321 |
| 40 | 4,408.0 | 54,343.0 | 382.604 | 11.3282 | 95 | 3.0231 | 9.1316 | 2.3467 | 2.0206 |
| 41 | 4,073.6 | 49,935.0 | 374.719 | 11.2582 | 96 | 2.0910 | 6.1085 | 1.6386 | 1.9213 |
| 42 | 3,763.9 | 45,861.4 | 366.787 | 11.1845 | 97 | 1.4179 | 4.0175 | 1.1203 | 1.8334 |
| 43 | 3,477.1 | 42,097.5 | 358.748 | 11.1071 | 98 | .94382 | 2.59956 | .75126 | 1.7543 |
| 44 | 3,211.3 | 38,620.4 | 350.560 | 11.0263 | 99 | .61664 | 1.65573 | .49400 | 1.6851 |
| 45 | 2,965.2 | 35,409.1 | 342.258 | 10.9417 | 100 | .39640 | 1.03909 | .31943 | 1.6213 |
| 46 | 2,737.1 | 32,443.9 | 333.817 | 10.8535 | 101 | .25044 | .64268 | .20284 | 1.5661 |
| 47 | 2,525.8 | 29,706.8 | 325.303 | 10.7613 | 102 | .15589 | .39223 | .12684 | 1.5160 |
| 48 | 2,330.2 | 27,181.0 | 316.748 | 10.6649 | 103 | .09563 | .23634 | .07812 | 1.4714 |
| 49 | 2,149.0 | 24,850.9 | 308.182 | 10.5640 | 104 | .05780 | .14070 | .04738 | 1.4342 |
| 50 | 1,981.3 | 22,701.9 | 299.632 | 10.4583 | 105 | .03465 | .08290 | .02851 | 1.3925 |
| 51 | 1,825.9 | 20,720.6 | 291.084 | 10.3479 | 106 | .02033 | .04825 | .01676 | 1.3723 |
| 52 | 1,682.1 | 18,894.7 | 282.511 | 10.2327 | 107 | .01193 | .02791 | .00986 | 1.3385 |
| 53 | 1,549.0 | 17,212.6 | 273.947 | 10.1124 | 108 | .00687 | .01597 | .00569 | 1.3232 |
| 54 | 1,425.7 | 15,663.6 | 265.390 | 9.9869 | 109 | .00386 | .00909 | .00319 | 1.3537 |

TABLE 45. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 3 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,695,665 | 21,485.489 | 25.9566 | 55 | 13,007 | 172,599 | 7,979.339 | 12.2702 |
| 1 | 93,586 | 2,595,665 | 17,984.518 | 26.7355 | 56 | 12,319 | 159,593 | 7,670.625 | 11.9551 |
| 2 | 90,657 | 2,502,078 | 17,780.917 | 26.5994 | 57 | 11,650 | 147,274 | 7,360.516 | 11.6415 |
| 3 | 87,876 | 2,411,421 | 17,640.900 | 26.4410 | 58 | 11,000 | 135,624 | 7,049.355 | 11.3299 |
| 4 | 85,222 | 2,323,545 | 17,545.832 | 26.2646 | 59 | 10,367 | 124,624 | 6,737.292 | 11.0211 |
| 5 | 82,660 | 2,238,323 | 17,466.472 | 26.0786 | 60 | 9,752.4 | 114,257.2 | 6,424.474 | 10.7159 |
| 6 | 80,185 | 2,155,663 | 17,398.636 | 25.8836 | 61 | 9,155.0 | 104,504.9 | 6,111.209 | 10.4150 |
| 7 | 77,790 | 2,075,478 | 17,339.280 | 25.6805 | 62 | 8,575.6 | 95,349.8 | 5,798.429 | 10.1187 |
| 8 | 75,473 | 1,997,688 | 17,287.969 | 25.4689 | 63 | 8,014.6 | 86,774.2 | 5,487.149 | 9.8271 |
| 9 | 73,230 | 1,922,215 | 17,242.750 | 25.2492 | 64 | 7,473.0 | 78,759.7 | 5,179.053 | 9.5392 |
| 10 | 71,059 | 1,848,985 | 17,204.801 | 25.0205 | 65 | 6,952.4 | 71,286.6 | 4,876.124 | 9.2535 |
| 11 | 68,955 | 1,777,926 | 17,170.848 | 24.7838 | 66 | 6,454.0 | 64,334.2 | 4,580.170 | 8.9681 |
| 12 | 66,914 | 1,708,971 | 17,137.883 | 24.5399 | 67 | 5,977.6 | 57,880.2 | 4,291.732 | 8.6829 |
| 13 | 64,927 | 1,642,058 | 17,099.740 | 24.2910 | 68 | 5,521.8 | 51,902.7 | 4,010.087 | 8.3996 |
| 14 | 62,985 | 1,577,131 | 17,048.843 | 24.0399 | 69 | 5,084.6 | 46,380.8 | 3,733.654 | 8.1219 |
| 15 | 61,080 | 1,514,146 | 16,978.880 | 23.7895 | 70 | 4,663.5 | 41,296.3 | 3,460.725 | 7.8552 |
| 16 | 59,211 | 1,453,066 | 16,888.521 | 23.5405 | 71 | 4,257.6 | 36,632.8 | 3,190.596 | 7.6041 |
| 17 | 57,376 | 1,393,855 | 16,778.408 | 23.2933 | 72 | 3,867.6 | 32,375.2 | 2,924.644 | 7.3708 |
| 18 | 55,576 | 1,336,479 | 16,649.181 | 23.0479 | 73 | 3,496.2 | 28,507.6 | 2,665.861 | 7.1539 |
| 19 | 53,809 | 1,280,903 | 16,500.907 | 22.8047 | 74 | 3,147.4 | 25,011.4 | 2,418.879 | 6.9468 |
| 20 | 52,075 | 1,227,094 | 16,334.251 | 22.5640 | 75 | 2,824.0 | 21,864.0 | 2,187.152 | 6.7423 |
| 21 | 50,369 | 1,175,020 | 16,145.571 | 22.3280 | 76 | 2,525.4 | 19,040.1 | 1,970.848 | 6.5394 |
| 22 | 48,691 | 1,124,650 | 15,934.204 | 22.0977 | 77 | 2,250.1 | 16,514.7 | 1,769.060 | 6.3396 |
| 23 | 47,045 | 1,075,959 | 15,706.193 | 21.8709 | 78 | 1,997.2 | 14,264.6 | 1,581.723 | 6.1423 |
| 24 | 45,443 | 1,028,914 | 15,474.492 | 21.6419 | 79 | 1,766.1 | 12,267.4 | 1,408.845 | 5.9458 |
| 25 | 43,894 | 983,471 | 15,249.062 | 21.4057 | 80 | 1,556.3 | 10,501.2 | 1,250.399 | 5.7477 |
| 26 | 42,401 | 939,578 | 15,034.372 | 21.1595 | 81 | 1,366.5 | 8,945.0 | 1,105.967 | 5.5459 |
| 27 | 40,960 | 897,177 | 14,828.635 | 20.9037 | 82 | 1,196.0 | 7,578.5 | 975.308 | 5.3363 |
| 28 | 39,568 | 856,217 | 14,629.765 | 20.6391 | 83 | 1,043.0 | 6,382.4 | 857.054 | 5.1196 |
| 29 | 38,219 | 816,649 | 14,432.869 | 20.3677 | 84 | 905.53 | 5,339.49 | 750.011 | 4.8965 |
| 30 | 36,907 | 778,430 | 14,234.703 | 20.0914 | 85 | 782.12 | 4,433.96 | 652.975 | 4.6692 |
| 31 | 35,632 | 741,523 | 14,034.709 | 19.8103 | 86 | 670.17 | 3,651.84 | 563.803 | 4.4491 |
| 32 | 34,394 | 705,890 | 13,834.327 | 19.5235 | 87 | 569.27 | 2,981.67 | 482.424 | 4.2377 |
| 33 | 33,191 | 671,496 | 13,632.618 | 19.2314 | 88 | 478.87 | 2,412.40 | 408.609 | 4.0377 |
| 34 | 32,019 | 638,305 | 13,427.633 | 18.9352 | 89 | 398.73 | 1,933.53 | 342.417 | 3.8492 |
| 35 | 30,877 | 606,286 | 13,218.668 | 18.6352 | 90 | 328.38 | 1,534.79 | 283.678 | 3.6738 |
| 36 | 29,765 | 575,409 | 13,005.093 | 18.3320 | 91 | 267.35 | 1,206.41 | 232.217 | 3.5124 |
| 37 | 28,680 | 545,644 | 12,787.354 | 18.0253 | 92 | 215.08 | 939.06 | 187.725 | 3.3662 |
| 38 | 27,621 | 516,964 | 12,564.249 | 17.7160 | 93 | 170.86 | 723.98 | 149.777 | 3.2372 |
| 39 | 26,588 | 489,343 | 12,335.643 | 17.4044 | 94 | 134.01 | 553.12 | 117.904 | 3.1273 |
| 40 | 25,579 | 462,754 | 12,101.127 | 17.0909 | 95 | 103.81 | 419.11 | 91.604 | 3.0372 |
| 41 | 24,594 | 437,175 | 11,861.239 | 16.7753 | 96 | 79.353 | 315.294 | 70.170 | 2.9733 |
| 42 | 23,633 | 412,580 | 11,616.490 | 16.4575 | 97 | 60.212 | 235.940 | 53.340 | 2.9185 |
| 43 | 22,695 | 388,947 | 11,366.527 | 16.1379 | 98 | 45.431 | 175.728 | 40.313 | 2.8680 |
| 44 | 21,779 | 366,252 | 11,111.587 | 15.8167 | 99 | 34.086 | 130.297 | 30.291 | 2.8226 |
| 45 | 20,884 | 344,473 | 10,851.115 | 15.4943 | 100 | 25.444 | 96.211 | 22.642 | 2.7813 |
| 46 | 20,011 | 323,589 | 10,585.649 | 15.1709 | 101 | 18.893 | 70.767 | 16.832 | 2.7456 |
| 47 | 19,158 | 303,578 | 10,315.702 | 14.8462 | 102 | 13.978 | 51.874 | 12.467 | 2.7111 |
| 48 | 18,325 | 284,420 | 10,040.791 | 14.5210 | 103 | 10.285 | 37.896 | 9.182 | 2.6844 |
| 49 | 17,511 | 266,095 | 9,760.965 | 14.1956 | 104 | 7.5356 | 27.6105 | 6.7314 | 2.6640 |
| 50 | 16,716 | 248,584 | 9,475.832 | 13.8709 | 105 | 5.5207 | 20.0749 | 4.9360 | 2.6363 |
| 51 | 15,939 | 231,868 | 9,185.715 | 13.5471 | 106 | 4.0091 | 14.5542 | 3.5851 | 2.6303 |
| 52 | 15,179 | 215,929 | 8,890.287 | 13.2250 | 107 | 2.9192 | 10.5451 | 2.6121 | 2.6123 |
| 53 | 14,437 | 200,749 | 8,590.104 | 12.9050 | 108 | 2.1359 | 7.6259 | 1.9138 | 2.5703 |
| 54 | 13,713 | 186,312 | 8,286.099 | 12.5869 | 109 | 1.5153 | 5.4899 | 1.3554 | 2.6228 |

TABLE 46. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 3.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,435,080 | 17,654.315 | 23.3508 | 55 | 9,965.3 | 126,366.2 | 5,692.011 | 11.6807 |
| 1 | 93,134 | 2,335,080 | 14,170.257 | 24.0722 | 56 | 9,392.9 | 116,400.9 | 5,456.625 | 11.3925 |
| 2 | 89,783 | 2,241,945 | 13,968.619 | 23.9707 | 57 | 8,839.9 | 107,008.0 | 5,221.317 | 11.1051 |
| 3 | 86,609 | 2,152,162 | 13,800.622 | 23.8492 | 58 | 8,306.0 | 98,168.1 | 4,986.352 | 10.8189 |
| 4 | 83,587 | 2,065,553 | 13,737.378 | 23.7114 | 59 | 7,790.7 | 89,862.0 | 4,751.844 | 10.5346 |
| 5 | 80,683 | 1,981,966 | 13,659.916 | 23.5649 | 60 | 7,293.3 | 82,071.4 | 4,517.904 | 10.2530 |
| 6 | 77,889 | 1,901,283 | 13,594.023 | 23.4103 | 61 | 6,813.5 | 74,778.1 | 4,284.762 | 9.9750 |
| 7 | 75,197 | 1,823,394 | 13,536.645 | 23.2481 | 62 | 6,351.4 | 67,964.6 | 4,053.105 | 9.7007 |
| 8 | 72,605 | 1,748,197 | 13,487.283 | 23.0782 | 63 | 5,907.2 | 61,613.2 | 3,823.672 | 9.4302 |
| 9 | 70,107 | 1,675,592 | 13,443.993 | 22.9007 | 64 | 5,481.5 | 55,706.0 | 3,597.684 | 9.1626 |
| 10 | 67,700 | 1,605,486 | 13,407.838 | 22.7148 | 65 | 5,075.0 | 50,224.5 | 3,376.559 | 8.8965 |
| 11 | 65,378 | 1,537,786 | 13,375.646 | 22.5214 | 66 | 4,688.4 | 45,149.6 | 3,161.569 | 8.6301 |
| 12 | 63,136 | 1,472,408 | 13,344.542 | 22.3212 | 67 | 4,321.3 | 40,461.2 | 2,953.051 | 8.3632 |
| 13 | 60,965 | 1,409,272 | 13,308.735 | 22.1160 | 68 | 3,972.5 | 36,139.9 | 2,750.428 | 8.0974 |
| 14 | 58,856 | 1,348,306 | 13,261.166 | 21.9085 | 69 | 3,640.3 | 32,167.3 | 2,552.515 | 7.8365 |
| 15 | 56,801 | 1,289,450 | 13,196.105 | 21.7013 | 70 | 3,322.7 | 28,527.0 | 2,358.055 | 7.5854 |
| 16 | 54,796 | 1,232,650 | 13,112.483 | 21.4951 | 71 | 3,018.8 | 25,204.3 | 2,166.519 | 7.3490 |
| 17 | 52,842 | 1,177,853 | 13,011.072 | 21.2902 | 72 | 2,729.1 | 22,185.5 | 1,978.857 | 7.1293 |
| 18 | 50,937 | 1,125,012 | 12,892.632 | 21.0865 | 73 | 2,455.1 | 19,456.4 | 1,797.134 | 6.9249 |
| 19 | 49,079 | 1,074,075 | 12,757.392 | 20.8847 | 74 | 2,199.5 | 17,001.3 | 1,624.537 | 6.7298 |
| 20 | 47,268 | 1,024,996 | 12,606.119 | 20.6849 | 75 | 1,963.9 | 14,801.8 | 1,463.383 | 6.5369 |
| 21 | 45,499 | 977,728 | 12,435.684 | 20.4890 | 76 | 1,747.8 | 12,837.9 | 1,313.681 | 6.3451 |
| 22 | 43,770 | 932,229 | 12,245.678 | 20.2982 | 77 | 1,549.7 | 11,090.1 | 1,174.700 | 6.1562 |
| 23 | 42,086 | 888,459 | 12,041.700 | 20.1105 | 78 | 1,368.9 | 9,540.4 | 1,046.296 | 5.9693 |
| 24 | 40,457 | 846,373 | 11,835.422 | 19.9204 | 79 | 1,204.7 | 8,171.4 | 928.374 | 5.7830 |
| 25 | 38,889 | 805,916 | 11,635.696 | 19.7236 | 80 | 1,056.4 | 6,966.7 | 820.819 | 5.5947 |
| 26 | 37,385 | 767,027 | 11,446.404 | 19.5172 | 81 | 923.12 | 5,910.33 | 723.250 | 5.4026 |
| 27 | 35,940 | 729,643 | 11,265.884 | 19.3018 | 82 | 804.06 | 4,987.22 | 635.412 | 5.2025 |
| 28 | 34,551 | 693,703 | 11,092.231 | 19.0778 | 83 | 697.76 | 4,183.15 | 556.298 | 4.9951 |
| 29 | 33,211 | 659,152 | 10,921.132 | 18.8472 | 84 | 602.89 | 3,485.40 | 485.029 | 4.7811 |
| 30 | 31,917 | 625,941 | 10,749.762 | 18.6116 | 85 | 518.21 | 2,882.50 | 420.736 | 4.5624 |
| 31 | 30,665 | 594,024 | 10,577.647 | 18.3711 | 86 | 441.89 | 2,364.29 | 361.939 | 4.3504 |
| 32 | 29,457 | 563,359 | 10,406.031 | 18.1249 | 87 | 373.55 | 1,922.40 | 308.539 | 4.1463 |
| 33 | 28,289 | 533,902 | 10,234.112 | 17.8733 | 88 | 312.71 | 1,548.85 | 260.336 | 3.9530 |
| 34 | 27,158 | 505,613 | 10,060.246 | 17.6173 | 89 | 259.12 | 1,236.14 | 217.321 | 3.7705 |
| 35 | 26,063 | 478,455 | 9,883.859 | 17.3573 | 90 | 212.37 | 977.02 | 179.332 | 3.6005 |
| 36 | 25,003 | 452,391 | 9,704.453 | 17.0937 | 91 | 172.07 | 764.65 | 146.212 | 3.4438 |
| 37 | 23,975 | 427,389 | 9,522.432 | 16.8263 | 92 | 137.75 | 552.58 | 117.715 | 3.3017 |
| 38 | 22,979 | 403,413 | 9,336.827 | 16.5559 | 93 | 108.91 | 454.82 | 93.527 | 3.1762 |
| 39 | 22,013 | 380,435 | 9,147.564 | 16.2827 | 94 | 85.008 | 345.916 | 73.310 | 3.0692 |
| 40 | 21,075 | 358,422 | 8,954.346 | 16.0071 | 95 | 65.531 | 260.908 | 56.708 | 2.9814 |
| 41 | 20,166 | 337,347 | 8,757.657 | 15.7289 | 96 | 49.850 | 195.377 | 43.243 | 2.9193 |
| 42 | 19,284 | 317,182 | 8,557.952 | 15.4480 | 97 | 37.643 | 145.527 | 32.722 | 2.8660 |
| 43 | 18,429 | 297,898 | 8,354.977 | 15.1648 | 98 | 28.265 | 107.884 | 24.617 | 2.8169 |
| 44 | 17,600 | 279,469 | 8,148.961 | 14.8793 | 99 | 21.104 | 79.619 | 18.411 | 2.7727 |
| 45 | 16,795 | 261,869 | 7,939.492 | 14.5921 | 100 | 15.677 | 58.515 | 13.699 | 2.7325 |
| 46 | 16,015 | 245,074 | 7,727.038 | 14.3032 | 101 | 11.585 | 42.838 | 10.136 | 2.6977 |
| 47 | 15,258 | 229,060 | 7,512.041 | 14.0124 | 102 | 8.5296 | 31.2530 | 7.4727 | 2.6641 |
| 48 | 14,524 | 213,802 | 7,294.149 | 13.7204 | 103 | 6.2459 | 22.7234 | 5.4775 | 2.6381 |
| 49 | 13,812 | 199,278 | 7,073.433 | 13.4276 | 104 | 4.5540 | 16.4775 | 3.9968 | 2.6183 |
| 50 | 13,121 | 185,465 | 6,849.616 | 13.1346 | 105 | 3.3202 | 11.9235 | 2.9170 | 2.5912 |
| 51 | 12,451 | 172,344 | 6,622.988 | 12.8417 | 106 | 2.3994 | 8.6033 | 2.1085 | 2.5855 |
| 52 | 11,800 | 159,893 | 6,393.326 | 12.5499 | 107 | 1.7387 | 6.2038 | 1.5289 | 2.5800 |
| 53 | 11,169 | 148,093 | 6,161.095 | 12.2592 | 108 | 1.2660 | 4.4651 | 1.1150 | 2.5768 |
| 54 | 10,557 | 136,923 | 5,927.043 | 11.9695 | 109 | .89389 | 3.19906 | .78571 | 2.5788 |

TABLE 47. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 4 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 2,216,010 | 14,768.836 | 21.1601 | 55 | 7,644.9 | 92,793.4 | 4,075.967 | 11.1379 |
| 1 | 92,687 | 2,116,010 | 11,301.528 | 21.8297 | 56 | 7,171.2 | 85,148.5 | 3,896.256 | 10.8737 |
| 2 | 88,922 | 2,023,324 | 11,101.824 | 21.7539 | 57 | 6,716.6 | 77,977.3 | 3,717.469 | 10.6096 |
| 3 | 85,366 | 1,934,402 | 10,965.808 | 21.6601 | 58 | 6,280.6 | 71,260.7 | 3,539.800 | 10.3462 |
| 4 | 81,991 | 1,849,036 | 10,874.344 | 21.5517 | 59 | 5,862.6 | 64,980.1 | 3,363.330 | 10.0839 |
| 5 | 78,762 | 1,767,045 | 10,798.726 | 21.4352 | 60 | 5,461.9 | 59,117.5 | 3,188.134 | 9.8237 |
| 6 | 75,669 | 1,688,283 | 10,734.711 | 21.3115 | 61 | 5,078.1 | 53,655.7 | 3,014.375 | 9.5662 |
| 7 | 72,703 | 1,612,614 | 10,679.237 | 21.1809 | 62 | 4,710.9 | 48,577.6 | 2,842.552 | 9.3117 |
| 8 | 69,859 | 1,539,911 | 10,631.742 | 21.0431 | 63 | 4,360.4 | 43,866.7 | 2,673.197 | 9.0603 |
| 9 | 67,131 | 1,470,052 | 10,590.289 | 20.8983 | 64 | 4,026.7 | 39,566.3 | 2,507.187 | 8.8112 |
| 10 | 64,514 | 1,402,921 | 10,555.836 | 20.7459 | 65 | 3,710.1 | 35,479.6 | 2,345.531 | 8.5629 |
| 11 | 62,002 | 1,338,407 | 10,525.305 | 20.5863 | 66 | 3,411.0 | 31,769.5 | 2,189.115 | 8.3138 |
| 12 | 59,588 | 1,276,405 | 10,495.949 | 20.4203 | 67 | 3,128.8 | 28,358.5 | 2,038.137 | 8.0636 |
| 13 | 57,263 | 1,216,816 | 10,462.317 | 20.2496 | 68 | 2,862.5 | 25,229.6 | 1,892.133 | 7.8138 |
| 14 | 55,016 | 1,159,553 | 10,417.851 | 20.0766 | 69 | 2,610.5 | 22,367.1 | 1,750.208 | 7.5682 |
| 15 | 52,840 | 1,104,537 | 10,357.328 | 19.9036 | 70 | 2,371.3 | 19,756.7 | 1,611.430 | 7.3316 |
| 16 | 50,730 | 1,051,698 | 10,279.911 | 19.7313 | 71 | 2,144.1 | 17,385.4 | 1,475.396 | 7.1086 |
| 17 | 48,685 | 1,000,968 | 10,186.477 | 19.5600 | 72 | 1,929.0 | 15,241.3 | 1,342.754 | 6.9013 |
| 18 | 46,704 | 952,283 | 10,077.879 | 19.3897 | 73 | 1,726.9 | 13,312.3 | 1,214.927 | 6.7086 |
| 19 | 44,784 | 905,578 | 9,954.472 | 19.2208 | 74 | 1,539.7 | 11,585.4 | 1,094.103 | 6.5245 |
| 20 | 42,925 | 860,794 | 9,817.099 | 19.0536 | 75 | 1,368.2 | 10,045.7 | 981.832 | 6.3422 |
| 21 | 41,120 | 817,869 | 9,663.069 | 18.8900 | 76 | 1,211.8 | 8,677.5 | 878.041 | 6.1609 |
| 22 | 39,367 | 776,750 | 9,492.177 | 18.7309 | 77 | 1,069.3 | 7,465.7 | 782.147 | 5.9819 |
| 23 | 37,670 | 737,383 | 9,309.600 | 18.5746 | 78 | 939.99 | 6,396.41 | 693.975 | 5.8048 |
| 24 | 36,038 | 699,712 | 9,125.853 | 18.4160 | 79 | 823.25 | 5,456.42 | 613.392 | 5.6279 |
| 25 | 34,475 | 663,674 | 8,948.797 | 18.2510 | 80 | 718.44 | 4,633.17 | 540.246 | 5.4489 |
| 26 | 32,982 | 629,200 | 8,781.798 | 18.0772 | 81 | 624.78 | 3,914.72 | 474.210 | 5.2658 |
| 27 | 31,555 | 596,218 | 8,623.303 | 17.8947 | 82 | 541.58 | 3,289.95 | 415.046 | 5.0747 |
| 28 | 30,189 | 564,663 | 8,471.571 | 17.7040 | 83 | 467.72 | 2,748.36 | 362.014 | 4.8761 |
| 29 | 28,879 | 534,474 | 8,322.789 | 17.5070 | 84 | 402.19 | 2,280.64 | 314.471 | 4.6706 |
| 30 | 27,620 | 505,594 | 8,174.487 | 17.3051 | 85 | 344.04 | 1,878.45 | 271.787 | 4.4601 |
| 31 | 26,410 | 477,974 | 8,026.257 | 17.0983 | 86 | 291.96 | 1,534.42 | 232.940 | 4.2557 |
| 32 | 25,247 | 451,564 | 7,879.167 | 16.8858 | 87 | 245.62 | 1,242.46 | 197.828 | 4.0586 |
| 33 | 24,129 | 426,317 | 7,732.527 | 16.6680 | 88 | 204.63 | 996.85 | 166.286 | 3.8715 |
| 34 | 23,054 | 402,188 | 7,584.938 | 16.4457 | 89 | 168.74 | 792.22 | 138.274 | 3.6948 |
| 35 | 22,018 | 379,134 | 7,435.929 | 16.2193 | 90 | 137.63 | 623.48 | 113.655 | 3.5299 |
| 36 | 21,020 | 357,116 | 7,285.099 | 15.9891 | 91 | 110.98 | 485.84 | 92.293 | 3.3778 |
| 37 | 20,060 | 336,096 | 7,132.806 | 15.7549 | 92 | 88.420 | 374.863 | 74.002 | 3.2396 |
| 38 | 19,133 | 316,036 | 6,978.260 | 15.5174 | 93 | 69.568 | 286.443 | 58.551 | 3.1174 |
| 39 | 18,241 | 296,903 | 6,821.426 | 15.2769 | 94 | 54.040 | 216.875 | 45.699 | 3.0132 |
| 40 | 17,380 | 278,662 | 6,662.085 | 15.0336 | 95 | 41.459 | 162.835 | 35.196 | 2.9277 |
| 41 | 16,550 | 261,282 | 6,500.661 | 14.7875 | 96 | 31.386 | 121.376 | 26.718 | 2.8672 |
| 42 | 15,750 | 244,732 | 6,337.550 | 14.5382 | 97 | 23.586 | 89.990 | 20.125 | 2.8153 |
| 43 | 14,980 | 228,982 | 6,172.565 | 14.2863 | 98 | 17.625 | 66.404 | 15.071 | 2.7676 |
| 44 | 14,237 | 214,002 | 6,005.914 | 14.0317 | 99 | 13.097 | 48.779 | 11.220 | 2.7245 |
| 45 | 13,521 | 199,765 | 5,837.284 | 13.7749 | 100 | 9.6822 | 35.6820 | 8.3098 | 2.6853 |
| 46 | 12,830 | 186,245 | 5,667.073 | 13.5160 | 101 | 7.1204 | 25.9998 | 6.1204 | 2.6515 |
| 47 | 12,165 | 173,414 | 5,495.653 | 13.2547 | 102 | 5.2173 | 18.8794 | 4.4912 | 2.6186 |
| 48 | 11,525 | 161,249 | 5,322.760 | 12.9917 | 103 | 3.8021 | 13.6621 | 3.2766 | 2.5933 |
| 49 | 10,907 | 149,724 | 5,148.467 | 12.7272 | 104 | 2.7588 | 9.8600 | 2.3796 | 2.5740 |
| 50 | 10,312 | 138,817 | 4,972.577 | 12.4621 | 105 | 2.0017 | 7.1012 | 1.7286 | 2.5476 |
| 51 | 9,737.9 | 128,505.6 | 4,795.333 | 12.1965 | 106 | 1.4396 | 5.0995 | 1.2435 | 2.5222 |
| 52 | 9,184.6 | 118,767.7 | 4,616.580 | 11.9312 | 107 | 1.0382 | 3.6599 | .8974 | 2.5252 |
| 53 | 8,651.4 | 109,583.1 | 4,436.696 | 11.6665 | 108 | .75232 | 2.62167 | .65148 | 2.4848 |
| 54 | 8,138.3 | 100,931.7 | 4,256.274 | 11.4021 | 109 | .52862 | 1.86935 | .45672 | 2.5363 |

TABLE 48. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 4.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 2,030,225 | 12,574.034 | 19.3023 | 55 | 5,872.4 | 68,337.0 | 2,929.608 | 10.6371 |
| 1 | 92,243 | 1,930,225 | 9,123.316 | 19.9254 | 56 | 5,482.1 | 62,464.7 | 2,792.226 | 10.3943 |
| 2 | 88,073 | 1,837,982 | 8,925.518 | 19.8688 | 57 | 5,110.0 | 56,982.6 | 2,656.205 | 10.1512 |
| 3 | 84,146 | 1,749,909 | 8,791.445 | 19.7960 | 58 | 4,755.4 | 51,872.6 | 2,521.681 | 9.9081 |
| 4 | 80,433 | 1,665,763 | 8,701.719 | 19.7099 | 59 | 4,417.7 | 47,117.2 | 2,388.704 | 9.6656 |
| 5 | 76,896 | 1,585,330 | 8,627.893 | 19.6166 | 60 | 4,096.1 | 42,699.5 | 2,257.318 | 9.4245 |
| 6 | 73,522 | 1,508,434 | 8,565.694 | 19.5167 | 61 | 3,790.0 | 38,603.4 | 2,127.634 | 9.1857 |
| 7 | 70,303 | 1,434,912 | 8,512.051 | 19.4105 | 62 | 3,499.2 | 34,813.5 | 2,000.008 | 8.9491 |
| 8 | 67,229 | 1,364,609 | 8,466.344 | 19.2978 | 63 | 3,223.3 | 31,314.3 | 1,874.818 | 8.7150 |
| 9 | 64,295 | 1,297,380 | 8,426.643 | 19.1787 | 64 | 2,962.3 | 28,091.0 | 1,752.687 | 8.4827 |
| 10 | 61,493 | 1,233,085 | 8,393.803 | 19.0524 | 65 | 2,716.4 | 25,128.7 | 1,634.328 | 8.2506 |
| 11 | 58,816 | 1,171,592 | 8,364.841 | 18.9196 | 66 | 2,485.5 | 22,442.3 | 1,520.354 | 8.0173 |
| 12 | 56,256 | 1,112,776 | 8,337.127 | 18.7807 | 67 | 2,269.0 | 19,926.8 | 1,410.869 | 7.7823 |
| 13 | 53,802 | 1,056,520 | 8,305.528 | 18.6373 | 68 | 2,065.9 | 17,657.8 | 1,305.497 | 7.5474 |
| 14 | 51,443 | 1,002,718 | 8,263.950 | 18.4918 | 69 | 1,875.0 | 15,591.9 | 1,203.559 | 7.3158 |
| 15 | 49,172 | 951,275 | 8,207.627 | 18.3460 | 70 | 1,695.0 | 13,717.0 | 1,104.359 | 7.0924 |
| 16 | 46,982 | 902,104 | 8,135.929 | 18.2008 | 71 | 1,525.3 | 12,021.9 | 1,007.585 | 6.8818 |
| 17 | 44,873 | 855,121 | 8,049.811 | 18.0564 | 72 | 1,365.7 | 10,496.6 | 913.675 | 6.6860 |
| 18 | 42,841 | 810,248 | 7,950.195 | 17.9128 | 73 | 1,216.8 | 9,131.0 | 823.608 | 6.5040 |
| 19 | 40,884 | 767,407 | 7,837.537 | 17.7705 | 74 | 1,079.7 | 7,914.1 | 738.883 | 6.3301 |
| 20 | 38,998 | 726,523 | 7,712.729 | 17.6296 | 75 | 954.84 | 6,834.47 | 660.531 | 6.1577 |
| 21 | 37,180 | 687,525 | 7,573.457 | 17.4919 | 76 | 841.63 | 5,879.63 | 588.445 | 5.9860 |
| 22 | 35,425 | 650,345 | 7,419.678 | 17.3584 | 77 | 739.11 | 5,037.99 | 522.161 | 5.8163 |
| 23 | 33,736 | 614,920 | 7,256.170 | 17.2274 | 78 | 646.63 | 4,298.88 | 461.507 | 5.6482 |
| 24 | 32,119 | 581,184 | 7,092.402 | 17.0944 | 79 | 563.61 | 3,652.26 | 406.338 | 5.4801 |
| 25 | 30,579 | 549,064 | 6,935.353 | 16.9554 | 80 | 489.50 | 3,088.65 | 356.501 | 5.3097 |
| 26 | 29,115 | 518,485 | 6,787.933 | 16.8082 | 81 | 423.65 | 2,599.74 | 311.723 | 5.1351 |
| 27 | 27,722 | 489,370 | 6,648.689 | 16.6527 | 82 | 365.48 | 2,175.49 | 271.797 | 4.9524 |
| 28 | 26,396 | 461,648 | 6,516.024 | 16.4896 | 83 | 314.12 | 1,810.01 | 236.181 | 4.7621 |
| 29 | 25,129 | 435,252 | 6,386.561 | 16.3204 | 84 | 268.82 | 1,495.89 | 204.403 | 4.5647 |
| 30 | 23,919 | 410,123 | 6,258.134 | 16.1464 | 85 | 228.85 | 1,227.07 | 176.011 | 4.3619 |
| 31 | 22,761 | 386,204 | 6,130.383 | 15.9677 | 86 | 193.28 | 998.22 | 150.293 | 4.1647 |
| 32 | 21,655 | 363,443 | 6,004.221 | 15.7834 | 87 | 161.82 | 804.94 | 127.160 | 3.9742 |
| 33 | 20,597 | 341,788 | 5,879.046 | 15.5939 | 88 | 134.17 | 643.12 | 106.478 | 3.7932 |
| 34 | 19,585 | 321,191 | 5,753.665 | 15.4000 | 89 | 110.11 | 508.95 | 88.199 | 3.6219 |
| 35 | 18,615 | 301,606 | 5,627.683 | 15.2019 | 90 | 89.384 | 398.831 | 72.210 | 3.4620 |
| 36 | 17,687 | 282,990 | 5,500.771 | 14.9999 | 91 | 71.729 | 309.446 | 58.403 | 3.3141 |
| 37 | 16,798 | 265,303 | 5,373.241 | 14.7939 | 92 | 56.875 | 237.717 | 46.638 | 3.1797 |
| 38 | 15,946 | 248,506 | 5,244.444 | 14.5845 | 93 | 44.534 | 180.843 | 36.747 | 3.0607 |
| 39 | 15,129 | 232,560 | 5,114.367 | 14.3719 | 94 | 34.429 | 136.308 | 28.559 | 2.9592 |
| 40 | 14,346 | 217,431 | 4,982.841 | 14.1563 | 95 | 26.287 | 101.880 | 21.899 | 2.8757 |
| 41 | 13,596 | 203,085 | 4,850.234 | 13.9376 | 96 | 19.805 | 75.593 | 16.550 | 2.8169 |
| 42 | 12,877 | 189,490 | 4,716.882 | 13.7157 | 97 | 14.812 | 55.788 | 12.410 | 2.7664 |
| 43 | 12,188 | 176,613 | 4,582.643 | 13.4907 | 98 | 11.015 | 40.976 | 9.251 | 2.7199 |
| 44 | 11,528 | 164,425 | 4,447.698 | 13.2628 | 99 | 8.1460 | 29.9607 | 6.8558 | 2.6780 |
| 45 | 10,896 | 152,897 | 4,311.803 | 13.0325 | 100 | 5.9935 | 21.8147 | 5.0541 | 2.6397 |
| 46 | 10,290 | 142,001 | 4,175.291 | 12.7997 | 101 | 4.3866 | 15.8212 | 3.7053 | 2.6067 |
| 47 | 9,710.2 | 131,710.7 | 4,038.467 | 12.5641 | 102 | 3.1988 | 11.4346 | 2.7064 | 2.5747 |
| 48 | 9,154.7 | 122,000.5 | 3,901.127 | 12.3265 | 103 | 2.3199 | 8.2359 | 1.9653 | 2.5500 |
| 49 | 8,622.7 | 112,845.8 | 3,763.338 | 12.0870 | 104 | 1.6753 | 5.9159 | 1.4205 | 2.5313 |
| 50 | 8,113.0 | 104,223.0 | 3,624.951 | 11.8464 | 105 | 1.2097 | 4.2406 | 1.0271 | 2.5054 |
| 51 | 7,624.9 | 96,110.0 | 3,486.167 | 11.6048 | 106 | .86588 | 3.03088 | .73536 | 2.5003 |
| 52 | 7,157.2 | 88,485.1 | 3,346.870 | 11.3630 | 107 | .62144 | 2.16499 | .52822 | 2.4838 |
| 53 | 6,709.5 | 81,327.9 | 3,207.363 | 11.1213 | 108 | .44817 | 1.54354 | .38170 | 2.4441 |
| 54 | 6,281.3 | 74,618.4 | 3,068.108 | 10.8794 | 109 | .31340 | 1.09537 | .26623 | 2.4951 |

TABLE 49. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,871,356 | 10,887,807 | 17.7136 | 55 | 4,516.4 | 50,467.0 | 2,113.255 | 10.1740 |
| 1 | 91,804 | 1,771,356 | 7,453,522 | 18.2950 | 56 | 4,196.2 | 45,950.5 | 2,008.097 | 9.9505 |
| 2 | 87,236 | 1,679,552 | 7,257,603 | 18.2529 | 57 | 3,892.8 | 41,754.3 | 1,904.476 | 9.7261 |
| 3 | 82,950 | 1,592,316 | 7,125,436 | 18.1961 | 58 | 3,605.4 | 37,861.5 | 1,802.485 | 9.5013 |
| 4 | 78,912 | 1,509,366 | 7,037,407 | 18.1272 | 59 | 3,333.4 | 34,256.1 | 1,702.146 | 9.2767 |
| 5 | 75,082 | 1,430,454 | 6,965,322 | 18.0518 | 60 | 3,076.0 | 30,922.7 | 1,603.480 | 9.0529 |
| 6 | 71,446 | 1,355,372 | 6,904,879 | 17.9705 | 61 | 2,832.6 | 27,846.7 | 1,506.555 | 8.8308 |
| 7 | 67,992 | 1,283,925 | 6,852,999 | 17.8834 | 62 | 2,602.6 | 25,014.1 | 1,411.624 | 8.6166 |
| 8 | 64,711 | 1,215,933 | 6,809,005 | 17.7903 | 63 | 2,386.2 | 22,411.4 | 1,318.947 | 8.3923 |
| 9 | 61,591 | 1,151,223 | 6,770,973 | 17.6914 | 64 | 2,182.5 | 20,025.2 | 1,228.965 | 8.1752 |
| 10 | 58,627 | 1,089,631 | 6,739,663 | 17.5859 | 65 | 1,991.8 | 17,842.7 | 1,142.178 | 7.9579 |
| 11 | 55,808 | 1,031,005 | 6,712,183 | 17.4743 | 66 | 1,813.8 | 15,850.8 | 1,059.004 | 7.7390 |
| 12 | 53,124 | 975,197 | 6,686,012 | 17.3570 | 67 | 1,647.9 | 14,037.0 | 979.486 | 7.5180 |
| 13 | 50,565 | 922,073 | 6,656,314 | 17.2356 | 68 | 1,493.3 | 12,389.1 | 903.321 | 7.2966 |
| 14 | 48,118 | 871,508 | 6,617,424 | 17.1120 | 69 | 1,348.8 | 10,895.8 | 829.988 | 7.0779 |
| 15 | 45,774 | 823,391 | 6,564,993 | 16.9881 | 70 | 1,213.6 | 9,547.0 | 758.964 | 6.8668 |
| 16 | 43,528 | 777,617 | 6,498,567 | 16.8648 | 71 | 1,086.8 | 8,333.4 | 690.008 | 6.6676 |
| 17 | 41,376 | 734,089 | 6,419,161 | 16.7420 | 72 | 968.49 | 7,246.58 | 623.411 | 6.4824 |
| 18 | 39,314 | 692,713 | 6,327,746 | 16.6200 | 73 | 858.80 | 6,278.09 | 559.843 | 6.3103 |
| 19 | 37,339 | 653,399 | 6,224,855 | 16.4991 | 74 | 758.39 | 5,419.29 | 500.330 | 6.1458 |
| 20 | 35,448 | 616,060 | 6,111,411 | 16.3795 | 75 | 667.50 | 4,660.90 | 445.557 | 5.9826 |
| 21 | 33,634 | 580,612 | 5,985,423 | 16.2628 | 76 | 585.56 | 3,993.40 | 395.403 | 5.8197 |
| 22 | 31,894 | 546,978 | 5,846,973 | 16.1501 | 77 | 511.78 | 3,407.83 | 349.506 | 5.6587 |
| 23 | 30,228 | 515,085 | 5,700,466 | 16.0398 | 78 | 445.61 | 2,896.05 | 307.707 | 5.4990 |
| 24 | 28,643 | 484,857 | 5,554,424 | 15.9277 | 79 | 386.56 | 2,450.44 | 269.869 | 5.3391 |
| 25 | 27,140 | 456,214 | 5,415,041 | 15.8100 | 80 | 334.13 | 2,063.88 | 235.851 | 5.1769 |
| 26 | 25,717 | 429,074 | 5,284,827 | 15.6845 | 81 | 287.80 | 1,729.75 | 205.432 | 5.0102 |
| 27 | 24,370 | 403,357 | 5,162,420 | 15.5514 | 82 | 247.10 | 1,441.95 | 178.437 | 4.8354 |
| 28 | 23,093 | 378,987 | 5,046,353 | 15.4111 | 83 | 211.37 | 1,194.85 | 154.472 | 4.6529 |
| 29 | 21,881 | 355,894 | 4,933,626 | 15.2650 | 84 | 180.02 | 983.48 | 133.191 | 4.4631 |
| 30 | 20,728 | 334,013 | 4,822,333 | 15.1143 | 85 | 152.53 | 803.45 | 114.267 | 4.2676 |
| 31 | 19,631 | 313,285 | 4,712,153 | 14.9591 | 86 | 128.20 | 650.93 | 97.208 | 4.0772 |
| 32 | 18,587 | 293,655 | 4,603,862 | 14.7986 | 87 | 106.83 | 522.72 | 81.937 | 3.8931 |
| 33 | 17,595 | 275,067 | 4,496,931 | 14.6329 | 88 | 88.153 | 415.893 | 68.349 | 3.7178 |
| 34 | 16,651 | 257,472 | 4,390,332 | 14.4629 | 89 | 72.003 | 327.740 | 56.396 | 3.5518 |
| 35 | 15,751 | 240,821 | 4,283,733 | 14.2889 | 90 | 58.169 | 255.737 | 45.991 | 3.3965 |
| 36 | 14,894 | 225,070 | 4,176,858 | 14.1110 | 91 | 46.457 | 197.568 | 37.049 | 3.2527 |
| 37 | 14,078 | 210,175 | 4,069,975 | 13.9290 | 92 | 36.661 | 151.111 | 29.465 | 3.1219 |
| 38 | 13,300 | 196,097 | 3,962,544 | 13.7436 | 93 | 28.570 | 114.451 | 23.120 | 3.0060 |
| 39 | 12,559 | 182,796 | 3,854,561 | 13.5548 | 94 | 21.981 | 85.881 | 17.892 | 2.9070 |
| 40 | 11,852 | 170,237 | 3,745,896 | 13.3631 | 95 | 16.703 | 63.899 | 13.660 | 2.8256 |
| 41 | 11,179 | 158,385 | 3,636,859 | 13.1681 | 96 | 12.525 | 47.196 | 10.277 | 2.7683 |
| 42 | 10,538 | 147,206 | 3,527,732 | 12.9697 | 97 | 9.3225 | 34.6716 | 7.6715 | 2.7191 |
| 43 | 9,926.4 | 136,668.3 | 3,418,402 | 12.7681 | 98 | 6.9000 | 25.3491 | 5.6929 | 2.6738 |
| 44 | 9,344.3 | 126,741.9 | 3,309,020 | 12.5635 | 99 | 5.0783 | 18.4491 | 4.1998 | 2.6329 |
| 45 | 8,789.8 | 117,397.6 | 3,199,393 | 12.3562 | 100 | 3.7186 | 13.3708 | 3.0819 | 2.5957 |
| 46 | 8,261.6 | 108,607.8 | 3,089,792 | 12.1461 | 101 | 2.7086 | 9.6522 | 2.2490 | 2.5635 |
| 47 | 7,758.9 | 100,346.2 | 2,980,464 | 11.9331 | 102 | 1.9658 | 6.9436 | 1.6351 | 2.5322 |
| 48 | 7,280.2 | 92,587.4 | 2,871,247 | 11.7177 | 103 | 1.4189 | 4.9778 | 1.1819 | 2.5082 |
| 49 | 6,824.4 | 85,307.2 | 2,762,194 | 11.5002 | 104 | 1.0198 | 3.5589 | .8503 | 2.4899 |
| 50 | 6,390.5 | 78,482.8 | 2,653,189 | 11.2812 | 105 | .73287 | 2.53909 | .61196 | 2.4646 |
| 51 | 5,977.4 | 72,092.3 | 2,544,392 | 11.0609 | 106 | .52206 | 1.80621 | .43605 | 2.4498 |
| 52 | 5,584.0 | 66,114.9 | 2,435,714 | 10.8400 | 107 | .37290 | 1.28415 | .31175 | 2.4437 |
| 53 | 5,209.8 | 60,530.9 | 2,327,390 | 10.6186 | 108 | .26764 | .91125 | .22425 | 2.4077 |
| 54 | 4,854.1 | 55,321.1 | 2,219,776 | 10.3967 | 109 | .18627 | .64361 | .15562 | 2.4552 |

TABLE 5C. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 5.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|--------|
| 0 | 100,000 | 1,734,436 | 9,579.174 | 16.3444 | 55 | 3,477.9 | 37,370.7 | 1,529.707 | 9.7451 |
| 1 | 91,369 | 1,634,436 | 6,161.164 | 16.8884 | 56 | 3,216.0 | 33,892.8 | 1,449.113 | 9.5387 |
| 2 | 86,411 | 1,543,067 | 5,967.098 | 16.8572 | 57 | 2,969.3 | 30,676.8 | 1,370.073 | 9.3312 |
| 3 | 81,776 | 1,456,656 | 5,836.801 | 16.8127 | 58 | 2,737.1 | 27,707.4 | 1,292.645 | 9.1229 |
| 4 | 77,427 | 1,374,880 | 5,750.429 | 16.7572 | 59 | 2,518.6 | 24,970.3 | 1,216.832 | 8.9144 |
| 5 | 73,320 | 1,297,453 | 5,680.037 | 16.6958 | 60 | 2,313.1 | 22,451.7 | 1,142.636 | 8.7063 |
| 6 | 69,439 | 1,224,133 | 5,621.292 | 16.6290 | 61 | 2,120.0 | 20,139.6 | 1,070.095 | 8.4995 |
| 7 | 65,768 | 1,154,695 | 5,571.100 | 16.5570 | 62 | 1,938.7 | 18,018.6 | 999.383 | 8.2940 |
| 8 | 62,297 | 1,088,926 | 5,528.755 | 16.4795 | 63 | 1,769.0 | 16,079.9 | 930.678 | 8.0900 |
| 9 | 59,013 | 1,026,629 | 5,492.315 | 16.3966 | 64 | 1,610.4 | 14,310.9 | 864.286 | 7.8868 |
| 10 | 55,907 | 967,615 | 5,462.458 | 16.3076 | 65 | 1,462.7 | 12,700.6 | 800.555 | 7.6831 |
| 11 | 52,966 | 911,709 | 5,436.377 | 16.2130 | 66 | 1,325.6 | 11,237.9 | 739.767 | 7.4774 |
| 12 | 50,180 | 858,742 | 5,411.656 | 16.1132 | 67 | 1,198.7 | 9,912.3 | 681.927 | 7.2693 |
| 13 | 47,536 | 808,562 | 5,383.737 | 16.0094 | 68 | 1,081.1 | 8,713.6 | 626.787 | 7.0603 |
| 14 | 45,022 | 761,026 | 5,347.349 | 15.9035 | 69 | 971.86 | 7,632.55 | 573.950 | 6.8536 |
| 15 | 42,626 | 716,004 | 5,298.524 | 15.7975 | 70 | 870.26 | 6,660.69 | 523.019 | 6.6537 |
| 16 | 40,342 | 673,378 | 5,236.960 | 15.6917 | 71 | 775.68 | 5,790.43 | 473.805 | 6.4650 |
| 17 | 38,166 | 633,036 | 5,163.715 | 15.5866 | 72 | 687.93 | 5,014.76 | 426.500 | 6.2896 |
| 18 | 36,092 | 594,871 | 5,079.792 | 15.4821 | 73 | 607.13 | 4,326.82 | 381.561 | 6.1267 |
| 19 | 34,116 | 558,779 | 4,985.782 | 15.3786 | 74 | 533.60 | 3,719.69 | 339.687 | 5.9709 |
| 20 | 32,235 | 524,662 | 4,882.620 | 15.2763 | 75 | 467.43 | 3,186.09 | 301.331 | 5.8162 |
| 21 | 30,440 | 492,428 | 4,768.594 | 15.1769 | 76 | 408.11 | 2,718.66 | 266.377 | 5.6616 |
| 22 | 28,729 | 461,988 | 4,643.884 | 15.0811 | 77 | 355.00 | 2,310.55 | 234.540 | 5.5087 |
| 23 | 27,100 | 433,259 | 4,512.541 | 14.9877 | 78 | 307.63 | 1,955.56 | 205.684 | 5.3568 |
| 24 | 25,556 | 406,159 | 4,382.236 | 14.8927 | 79 | 265.60 | 1,647.92 | 179.686 | 5.2046 |
| 25 | 24,100 | 380,603 | 4,258.462 | 14.7924 | 80 | 228.49 | 1,382.33 | 156.424 | 5.0499 |
| 26 | 22,729 | 356,503 | 4,143.377 | 14.6850 | 81 | 195.87 | 1,153.84 | 135.721 | 4.8907 |
| 27 | 21,436 | 333,774 | 4,035.706 | 14.5705 | 82 | 167.38 | 957.96 | 117.436 | 4.7234 |
| 28 | 20,217 | 312,338 | 3,934.094 | 14.4492 | 83 | 142.49 | 790.59 | 101.279 | 4.5482 |
| 29 | 19,065 | 292,121 | 3,835.875 | 14.3224 | 84 | 120.79 | 648.09 | 87.001 | 4.3655 |
| 30 | 17,974 | 273,056 | 3,739.365 | 14.1913 | 85 | 101.85 | 527.30 | 74.364 | 4.1771 |
| 31 | 16,942 | 255,081 | 3,644.273 | 14.0558 | 86 | 85.207 | 425.450 | 63.027 | 3.9932 |
| 32 | 15,966 | 238,139 | 3,551.254 | 13.9153 | 87 | 70.663 | 340.243 | 52.925 | 3.8150 |
| 33 | 15,042 | 222,173 | 3,459.838 | 13.7699 | 88 | 58.034 | 269.580 | 43.980 | 3.6452 |
| 34 | 14,167 | 207,130 | 3,369.139 | 13.6202 | 89 | 47.177 | 211.547 | 36.148 | 3.4841 |
| 35 | 13,339 | 192,963 | 3,278.869 | 13.4666 | 90 | 37.932 | 164.370 | 29.363 | 3.3333 |
| 36 | 12,553 | 179,624 | 3,188.795 | 13.3092 | 91 | 30.151 | 126.438 | 23.559 | 3.1935 |
| 37 | 11,809 | 167,071 | 3,099.140 | 13.1478 | 92 | 23.680 | 96.287 | 18.661 | 3.0661 |
| 38 | 11,104 | 155,262 | 3,009.453 | 12.9829 | 93 | 18.367 | 72.606 | 14.582 | 2.9531 |
| 39 | 10,435 | 144,159 | 2,919.732 | 12.8148 | 94 | 14.064 | 54.240 | 11.237 | 2.8565 |
| 40 | 9,801.2 | 133,723.5 | 2,829.873 | 12.6435 | 95 | 10.636 | 40.175 | 8.542 | 2.7771 |
| 41 | 9,200.5 | 123,922.3 | 2,740.133 | 12.4690 | 96 | 7.9379 | 29.5389 | 6.3979 | 2.7213 |
| 42 | 8,631.5 | 114,721.8 | 2,650.745 | 12.2911 | 97 | 5.8804 | 21.6010 | 4.7543 | 2.6734 |
| 43 | 8,092.4 | 106,090.3 | 2,561.616 | 12.1099 | 98 | 4.3317 | 15.7206 | 3.5121 | 2.6292 |
| 44 | 7,581.8 | 97,997.9 | 2,472.866 | 11.9255 | 99 | 3.1730 | 11.3889 | 2.5792 | 2.5894 |
| 45 | 7,098.0 | 90,416.1 | 2,384.339 | 11.7383 | 100 | 2.3124 | 8.2160 | 1.8841 | 2.5530 |
| 46 | 6,639.9 | 83,318.1 | 2,296.253 | 11.5482 | 101 | 1.6764 | 5.9036 | 1.3686 | 2.5216 |
| 47 | 6,206.2 | 76,678.3 | 2,208.802 | 11.3550 | 102 | 1.2109 | 4.2272 | .9905 | 2.4911 |
| 48 | 5,795.8 | 70,472.0 | 2,121.854 | 11.1593 | 103 | .86986 | 3.01634 | .71261 | 2.4676 |
| 49 | 5,407.2 | 64,676.3 | 2,035.448 | 10.9611 | 104 | .62220 | 2.14648 | .51030 | 2.4498 |
| 50 | 5,039.3 | 59,269.1 | 1,949.490 | 10.7613 | 105 | .44503 | 1.52427 | .36557 | 2.4251 |
| 51 | 4,691.2 | 54,229.7 | 1,864.103 | 10.5598 | 106 | .31552 | 1.07924 | .25925 | 2.4025 |
| 52 | 4,361.8 | 49,538.5 | 1,779.212 | 10.3574 | 107 | .22430 | .76372 | .18448 | 2.4049 |
| 53 | 4,050.2 | 45,176.7 | 1,694.999 | 10.1542 | 108 | .16022 | .53941 | .13210 | 2.3666 |
| 54 | 3,755.8 | 41,126.5 | 1,611.735 | 9.9502 | 109 | .11098 | .37919 | .09121 | 2.4166 |

TABLE 51. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 6 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|--------|
| 0 | 100,000 | 1,615,560 | 8,553.226 | 15.1556 | 55 | 2,681.5 | 27,745.6 | 1,111.044 | 9.3468 |
| 1 | 90,938 | 1,515,560 | 5,751.339 | 15.6659 | 56 | 2,467.9 | 25,064.0 | 1,049.198 | 9.1559 |
| 2 | 85,598 | 1,424,622 | 4,959.100 | 15.6432 | 57 | 2,267.9 | 22,596.1 | 988.830 | 8.9636 |
| 3 | 80,624 | 1,339,024 | 4,830.638 | 15.6082 | 58 | 2,080.6 | 20,328.2 | 929.973 | 8.7702 |
| 4 | 75,976 | 1,258,399 | 4,745.884 | 15.5631 | 59 | 1,905.5 | 18,247.6 | 872.615 | 8.5763 |
| 5 | 71,607 | 1,182,423 | 4,677.137 | 15.5127 | 60 | 1,741.8 | 16,342.1 | 816.746 | 8.3825 |
| 6 | 67,496 | 1,110,817 | 4,620.035 | 15.4574 | 61 | 1,588.8 | 14,600.3 | 762.380 | 8.1895 |
| 7 | 63,627 | 1,043,320 | 4,571.486 | 15.3974 | 62 | 1,446.1 | 13,011.5 | 709.635 | 7.9974 |
| 8 | 59,985 | 979,693 | 4,530.704 | 15.3323 | 63 | 1,313.3 | 11,565.4 | 658.628 | 7.8065 |
| 9 | 56,555 | 919,708 | 4,495.782 | 15.2623 | 64 | 1,189.9 | 10,252.1 | 609.572 | 7.6161 |
| 10 | 53,325 | 863,153 | 4,467.304 | 15.1866 | 65 | 1,075.7 | 9,062.2 | 562.704 | 7.4248 |
| 11 | 50,282 | 809,828 | 4,442.545 | 15.1058 | 66 | 970.28 | 7,986.58 | 518.210 | 7.2312 |
| 12 | 47,412 | 759,546 | 4,419.187 | 15.0200 | 67 | 873.22 | 7,016.30 | 476.074 | 7.0349 |
| 13 | 44,702 | 712,134 | 4,392.932 | 14.9306 | 68 | 783.82 | 6,143.07 | 436.095 | 6.8374 |
| 14 | 42,138 | 667,431 | 4,358.875 | 14.8392 | 69 | 701.32 | 5,359.26 | 397.966 | 6.6417 |
| 15 | 39,707 | 625,293 | 4,313.393 | 14.7475 | 70 | 625.04 | 4,657.94 | 361.386 | 6.4522 |
| 16 | 37,403 | 585,586 | 4,256.314 | 14.6563 | 71 | 554.48 | 4,032.89 | 326.206 | 6.2732 |
| 17 | 35,218 | 548,183 | 4,188.726 | 14.5654 | 72 | 489.44 | 3,478.41 | 292.550 | 6.1069 |
| 18 | 33,147 | 512,965 | 4,111.650 | 14.4753 | 73 | 429.92 | 2,988.97 | 260.728 | 5.9525 |
| 19 | 31,185 | 479,818 | 4,025.717 | 14.3861 | 74 | 376.07 | 2,559.05 | 231.217 | 5.8047 |
| 20 | 29,326 | 448,633 | 3,931.864 | 14.2980 | 75 | 327.88 | 2,182.98 | 204.313 | 5.6579 |
| 21 | 27,563 | 419,307 | 3,828.615 | 14.2127 | 76 | 284.92 | 1,855.11 | 179.909 | 5.5111 |
| 22 | 25,890 | 391,744 | 3,716.226 | 14.1308 | 77 | 246.67 | 1,570.19 | 157.788 | 5.3656 |
| 23 | 24,307 | 365,853 | 3,598.417 | 14.0513 | 78 | 212.75 | 1,323.52 | 137.832 | 5.2211 |
| 24 | 22,815 | 341,546 | 3,482.090 | 13.9703 | 79 | 182.81 | 1,110.78 | 119.938 | 5.0761 |
| 25 | 21,414 | 318,731 | 3,372.115 | 13.8846 | 80 | 156.53 | 927.96 | 104.001 | 4.9284 |
| 26 | 20,100 | 297,318 | 3,270.343 | 13.7922 | 81 | 133.55 | 771.44 | 89.886 | 4.7763 |
| 27 | 18,867 | 277,218 | 3,175.575 | 13.6932 | 82 | 113.58 | 637.88 | 77.477 | 4.6160 |
| 28 | 17,710 | 258,351 | 3,086.564 | 13.5877 | 83 | 96.242 | 524.301 | 66.565 | 4.4477 |
| 29 | 16,622 | 240,641 | 3,000.929 | 13.4772 | 84 | 81.196 | 428.058 | 56.967 | 4.2719 |
| 30 | 15,597 | 224,019 | 2,917.182 | 13.3625 | 85 | 68.146 | 346.862 | 48.512 | 4.0900 |
| 31 | 14,632 | 208,421 | 2,835.055 | 13.2437 | 86 | 56.739 | 278.716 | 40.962 | 3.9123 |
| 32 | 13,724 | 193,789 | 2,755.097 | 13.1201 | 87 | 46.832 | 221.977 | 34.268 | 3.7398 |
| 33 | 12,869 | 180,064 | 2,676.887 | 12.9919 | 88 | 38.281 | 175.145 | 28.367 | 3.5753 |
| 34 | 12,064 | 167,195 | 2,599.657 | 12.8596 | 89 | 30.972 | 136.864 | 23.225 | 3.4189 |
| 35 | 11,304 | 155,132 | 2,523.155 | 12.7234 | 90 | 24.786 | 105.892 | 18.792 | 3.2723 |
| 36 | 10,588 | 143,827 | 2,447.178 | 12.5836 | 91 | 19.608 | 81.106 | 15.017 | 3.1363 |
| 37 | 9,913.7 | 133,239.1 | 2,371.913 | 12.4398 | 92 | 15.328 | 61.498 | 11.847 | 3.0122 |
| 38 | 9,277.7 | 123,325.4 | 2,296.975 | 12.2927 | 93 | 11.832 | 46.170 | 9.219 | 2.9021 |
| 39 | 8,677.9 | 114,047.7 | 2,222.363 | 12.1423 | 94 | 9.0178 | 34.3378 | 7.0741 | 2.8078 |
| 40 | 8,112.3 | 105,369.8 | 2,147.988 | 11.9889 | 95 | 6.7877 | 25.3200 | 5.3545 | 2.7303 |
| 41 | 7,579.2 | 97,257.5 | 2,074.062 | 11.8322 | 96 | 5.0417 | 18.5323 | 3.9927 | 2.6758 |
| 42 | 7,076.9 | 89,678.3 | 2,000.774 | 11.6720 | 97 | 3.7173 | 13.4906 | 2.9537 | 2.6292 |
| 43 | 6,603.6 | 82,601.4 | 1,928.042 | 11.5086 | 98 | 2.7254 | 9.7733 | 2.1722 | 2.5861 |
| 44 | 6,157.7 | 75,997.8 | 1,855.961 | 11.3419 | 99 | 1.9869 | 7.0480 | 1.5880 | 2.5472 |
| 45 | 5,737.6 | 69,840.1 | 1,784.401 | 11.1723 | 100 | 1.4412 | 5.0611 | 1.1547 | 2.5117 |
| 46 | 5,342.0 | 64,102.5 | 1,713.533 | 10.9998 | 101 | 1.0399 | 3.6199 | .8350 | 2.4811 |
| 47 | 4,969.6 | 58,760.5 | 1,643.508 | 10.8241 | 102 | .74756 | 2.58001 | .60152 | 2.4512 |
| 48 | 4,619.0 | 53,790.9 | 1,574.213 | 10.6456 | 103 | .53450 | 1.83245 | .43077 | 2.4283 |
| 49 | 4,289.0 | 49,171.9 | 1,505.677 | 10.4647 | 104 | .38051 | 1.29795 | .30705 | 2.4110 |
| 50 | 3,978.4 | 44,882.9 | 1,437.816 | 10.2818 | 105 | .27088 | .91743 | .21895 | 2.3868 |
| 51 | 3,686.1 | 40,904.6 | 1,370.724 | 10.0970 | 106 | .19114 | .64654 | .15454 | 2.3625 |
| 52 | 3,411.0 | 37,218.5 | 1,304.337 | 9.9112 | 107 | .13524 | .45540 | .10946 | 2.3372 |
| 53 | 3,152.4 | 33,807.5 | 1,238.791 | 9.7243 | 108 | .09615 | .32015 | .07803 | 2.3126 |
| 54 | 2,909.5 | 30,655.0 | 1,174.289 | 9.5363 | 109 | .06628 | .22400 | .05361 | 2.2879 |

TABLE 52. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 6.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,511,633 | 7,740.690 | 14.1163 | 55 | 2,070.0 | 20,651.8 | 809.607 | 8.9765 |
| 1 | 90,511 | 1,411,633 | 4,354.774 | 14.5963 | 56 | 1,896.2 | 18,581.7 | 762.089 | 8.7995 |
| 2 | 84,796 | 1,321,123 | 4,164.336 | 14.5800 | 57 | 1,734.3 | 16,685.5 | 715.924 | 8.6210 |
| 3 | 79,494 | 1,236,326 | 4,037.675 | 14.5524 | 58 | 1,583.6 | 14,951.2 | 671.126 | 8.4410 |
| 4 | 74,559 | 1,156,832 | 3,954.501 | 14.5156 | 59 | 1,443.5 | 13,367.6 | 627.673 | 8.2603 |
| 5 | 69,942 | 1,082,273 | 3,887.352 | 14.4740 | 60 | 1,313.3 | 11,924.1 | 585.547 | 8.0794 |
| 6 | 65,617 | 1,012,331 | 3,831.840 | 14.4278 | 61 | 1,192.4 | 10,610.8 | 544.748 | 7.8990 |
| 7 | 61,566 | 946,714 | 3,784.864 | 14.3773 | 62 | 1,080.2 | 9,418.4 | 505.350 | 7.7193 |
| 8 | 57,769 | 885,148 | 3,745.589 | 14.3223 | 63 | 976.34 | 8,338.23 | 467.430 | 7.5403 |
| 9 | 54,209 | 827,380 | 3,712.116 | 14.2626 | 64 | 880.45 | 7,361.89 | 431.131 | 7.3615 |
| 10 | 50,874 | 773,170 | 3,684.946 | 14.1978 | 65 | 792.19 | 6,481.44 | 396.614 | 7.1816 |
| 11 | 47,745 | 722,296 | 3,661.437 | 14.1281 | 66 | 711.23 | 5,689.25 | 363.999 | 6.9990 |
| 12 | 44,809 | 674,551 | 3,639.361 | 14.0539 | 67 | 637.08 | 4,978.02 | 333.258 | 6.8138 |
| 13 | 42,050 | 629,742 | 3,614.664 | 13.9762 | 68 | 569.17 | 4,340.94 | 304.227 | 6.6268 |
| 14 | 39,451 | 587,692 | 3,582.779 | 13.8966 | 69 | 506.87 | 3,771.77 | 276.670 | 6.4413 |
| 15 | 37,001 | 548,241 | 3,540.397 | 13.8169 | 70 | 449.62 | 3,264.90 | 250.356 | 6.2614 |
| 16 | 34,690 | 511,240 | 3,487.458 | 13.7374 | 71 | 396.99 | 2,815.28 | 225.168 | 6.0915 |
| 17 | 32,510 | 476,550 | 3,425.066 | 13.6584 | 72 | 348.78 | 2,418.28 | 201.185 | 5.9336 |
| 18 | 30,455 | 444,040 | 3,354.250 | 13.5801 | 73 | 304.92 | 2,069.50 | 178.615 | 5.7870 |
| 19 | 28,518 | 413,585 | 3,275.667 | 13.5026 | 74 | 265.48 | 1,764.58 | 157.782 | 5.6468 |
| 20 | 26,692 | 385,067 | 3,190.244 | 13.4263 | 75 | 230.37 | 1,499.10 | 138.878 | 5.5073 |
| 21 | 24,969 | 358,375 | 3,096.711 | 13.3526 | 76 | 199.25 | 1,268.73 | 121.813 | 5.3676 |
| 22 | 23,344 | 333,405 | 2,995.375 | 13.2822 | 77 | 171.69 | 1,069.48 | 106.415 | 5.2292 |
| 23 | 21,814 | 310,061 | 2,889.651 | 13.2141 | 78 | 147.39 | 897.79 | 92.591 | 5.0915 |
| 24 | 20,378 | 288,248 | 2,785.748 | 13.1448 | 79 | 126.05 | 750.41 | 80.252 | 4.9532 |
| 25 | 19,037 | 267,869 | 2,687.979 | 13.0711 | 80 | 107.42 | 624.36 | 69.315 | 4.8122 |
| 26 | 17,785 | 248,833 | 2,597.927 | 12.9912 | 81 | 91.223 | 516.934 | 59.674 | 4.6667 |
| 27 | 16,616 | 231,048 | 2,514.467 | 12.9052 | 82 | 77.220 | 425.710 | 51.238 | 4.5129 |
| 28 | 15,524 | 214,432 | 2,436.444 | 12.8131 | 83 | 65.123 | 348.490 | 43.854 | 4.3512 |
| 29 | 14,502 | 198,908 | 2,361.734 | 12.7162 | 84 | 54.684 | 283.367 | 37.390 | 4.1819 |
| 30 | 13,544 | 184,406 | 2,289.014 | 12.6155 | 85 | 45.679 | 228.683 | 31.722 | 4.0063 |
| 31 | 12,646 | 170,862 | 2,218.034 | 12.5109 | 86 | 37.855 | 183.003 | 26.685 | 3.8344 |
| 32 | 11,806 | 158,216 | 2,149.254 | 12.4017 | 87 | 31.099 | 145.149 | 22.240 | 3.6674 |
| 33 | 11,018 | 146,410 | 2,082.294 | 12.2881 | 88 | 25.301 | 114.050 | 18.340 | 3.5078 |
| 34 | 10,280 | 135,392 | 2,016.483 | 12.1706 | 89 | 20.374 | 88.750 | 14.958 | 3.3560 |
| 35 | 9,587.6 | 125,112.5 | 1,951.598 | 12.0494 | 90 | 16.228 | 68.375 | 12.055 | 3.2134 |
| 36 | 8,938.3 | 115,524.9 | 1,887.462 | 11.9247 | 91 | 12.778 | 52.147 | 9.595 | 3.0810 |
| 37 | 8,329.5 | 106,586.6 | 1,824.224 | 11.7963 | 92 | 9.9415 | 39.3695 | 7.5387 | 2.9601 |
| 38 | 7,758.5 | 98,257.1 | 1,761.557 | 11.6645 | 93 | 7.6383 | 29.4280 | 5.8422 | 2.8527 |
| 39 | 7,222.8 | 90,498.6 | 1,699.455 | 11.5295 | 94 | 5.7941 | 21.7896 | 4.4642 | 2.7607 |
| 40 | 6,720.4 | 83,275.8 | 1,637.841 | 11.3915 | 95 | 4.3408 | 15.9955 | 3.3645 | 2.6849 |
| 41 | 6,249.3 | 76,555.4 | 1,576.887 | 11.2503 | 96 | 3.2091 | 11.6547 | 2.4977 | 2.6318 |
| 42 | 5,807.7 | 70,306.1 | 1,516.742 | 11.1056 | 97 | 2.3550 | 8.4457 | 1.8395 | 2.5863 |
| 43 | 5,393.9 | 64,498.4 | 1,457.334 | 10.9578 | 98 | 1.7185 | 6.0907 | 1.3467 | 2.5443 |
| 44 | 5,006.1 | 59,104.5 | 1,398.735 | 10.8066 | 99 | 1.2469 | 4.3723 | .9801 | 2.5064 |
| 45 | 4,642.6 | 54,098.5 | 1,340.832 | 10.6526 | 100 | .90021 | 3.12532 | .70947 | 2.4717 |
| 46 | 4,302.2 | 49,455.9 | 1,283.758 | 10.4955 | 101 | .64648 | 2.22511 | .51068 | 2.4418 |
| 47 | 3,983.5 | 45,153.7 | 1,227.627 | 10.3352 | 102 | .46257 | 1.57862 | .36622 | 2.4127 |
| 48 | 3,685.1 | 41,170.2 | 1,172.344 | 10.1721 | 103 | .32918 | 1.11604 | .26107 | 2.3903 |
| 49 | 3,405.7 | 37,485.1 | 1,117.921 | 10.0064 | 104 | .23325 | .78685 | .18522 | 2.3734 |
| 50 | 3,144.2 | 34,079.4 | 1,064.288 | 9.8386 | 105 | .16527 | .55360 | .13148 | 2.3497 |
| 51 | 2,899.6 | 30,935.1 | 1,011.512 | 9.6689 | 106 | .11607 | .38833 | .09237 | 2.3456 |
| 52 | 2,670.6 | 28,035.5 | 959.535 | 9.4977 | 107 | .08174 | .27225 | .06512 | 2.3308 |
| 53 | 2,456.6 | 25,364.9 | 908.458 | 9.3254 | 108 | .05784 | .19051 | .04621 | 2.2938 |
| 54 | 2,256.6 | 22,908.4 | 858.430 | 9.1517 | 109 | .03968 | .13267 | .03159 | 2.3429 |

TABLE 53. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 7 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,420,186 | 7,090.622 | 13.2019 | 55 | 1,599.9 | 15,409.6 | 591.825 | 8.6314 |
| 1 | 90,088 | 1,320,186 | 3,720.528 | 13.6544 | 56 | 1,458.7 | 13,809.6 | 555.270 | 8.4671 |
| 2 | 84,006 | 1,230,098 | 3,531.865 | 13.6431 | 57 | 1,327.9 | 12,350.9 | 519.922 | 8.3009 |
| 3 | 78,385 | 1,146,093 | 3,406.972 | 13.6213 | 58 | 1,206.9 | 11,023.0 | 485.781 | 8.1332 |
| 4 | 73,175 | 1,067,708 | 3,325.342 | 13.5911 | 59 | 1,095.0 | 9,816.1 | 452.820 | 7.9645 |
| 5 | 68,323 | 994,532 | 3,259.747 | 13.5564 | 60 | 991.55 | 8,721.10 | 421.015 | 7.7954 |
| 6 | 63,799 | 926,210 | 3,205.773 | 13.5176 | 61 | 896.03 | 7,729.54 | 390.355 | 7.6265 |
| 7 | 59,580 | 862,411 | 3,160.313 | 13.4749 | 62 | 807.94 | 6,833.52 | 360.887 | 7.4580 |
| 8 | 55,644 | 802,831 | 3,122.462 | 13.4280 | 63 | 726.85 | 6,025.58 | 332.656 | 7.2900 |
| 9 | 51,972 | 747,187 | 3,090.390 | 13.3768 | 64 | 652.40 | 5,298.73 | 305.759 | 7.1218 |
| 10 | 48,546 | 695,215 | 3,064.464 | 13.3208 | 65 | 584.27 | 4,646.32 | 280.301 | 6.9524 |
| 11 | 45,348 | 646,669 | 3,042.135 | 13.2603 | 66 | 522.10 | 4,062.05 | 256.360 | 6.7802 |
| 12 | 42,360 | 601,322 | 3,021.266 | 13.1955 | 67 | 465.48 | 3,539.95 | 233.899 | 6.6049 |
| 13 | 39,566 | 558,962 | 2,998.028 | 13.1275 | 68 | 413.92 | 3,074.47 | 212.786 | 6.4277 |
| 14 | 36,947 | 519,396 | 2,968.166 | 13.0577 | 69 | 366.89 | 2,660.55 | 192.839 | 6.2515 |
| 15 | 34,491 | 482,449 | 2,928.660 | 12.9878 | 70 | 323.93 | 2,293.65 | 173.881 | 6.0806 |
| 16 | 32,185 | 447,958 | 2,879.543 | 12.9181 | 71 | 284.68 | 1,969.72 | 155.819 | 5.9191 |
| 17 | 30,022 | 415,773 | 2,821.927 | 12.8489 | 72 | 248.94 | 1,685.04 | 138.702 | 5.7689 |
| 18 | 27,993 | 385,751 | 2,756.837 | 12.7803 | 73 | 216.62 | 1,436.10 | 122.668 | 5.6296 |
| 19 | 26,090 | 357,758 | 2,684.944 | 12.7126 | 74 | 187.72 | 1,219.49 | 107.937 | 5.4964 |
| 20 | 24,305 | 331,668 | 2,607.160 | 12.6460 | 75 | 162.13 | 1,031.77 | 94.633 | 5.3638 |
| 21 | 22,630 | 307,363 | 2,522.389 | 12.5820 | 76 | 139.57 | 869.64 | 82.679 | 5.2308 |
| 22 | 21,058 | 284,733 | 2,430.975 | 12.5211 | 77 | 119.70 | 730.07 | 71.943 | 5.0989 |
| 23 | 19,586 | 263,675 | 2,336.049 | 12.4625 | 78 | 102.28 | 610.36 | 62.350 | 4.9676 |
| 24 | 18,212 | 244,089 | 2,243.193 | 12.4029 | 79 | 87.066 | 508.082 | 53.827 | 4.8356 |
| 25 | 16,933 | 225,877 | 2,156.228 | 12.3393 | 80 | 73.851 | 421.015 | 46.308 | 4.7009 |
| 26 | 15,746 | 208,944 | 2,076.501 | 12.2699 | 81 | 62.422 | 347.164 | 39.710 | 4.5616 |
| 27 | 14,642 | 193,198 | 2,002.956 | 12.1947 | 82 | 52.593 | 284.742 | 33.965 | 4.4141 |
| 28 | 13,616 | 178,556 | 1,934.523 | 12.1139 | 83 | 44.147 | 232.149 | 28.960 | 4.2586 |
| 29 | 12,660 | 164,940 | 1,869.302 | 12.0287 | 84 | 36.897 | 188.002 | 24.598 | 4.0953 |
| 30 | 11,768 | 152,281 | 1,806.114 | 11.9398 | 85 | 30.677 | 151.105 | 20.792 | 3.9256 |
| 31 | 10,937 | 140,512 | 1,744.728 | 11.8473 | 86 | 25.303 | 120.428 | 17.425 | 3.7593 |
| 32 | 10,162 | 129,575 | 1,685.521 | 11.7504 | 87 | 20.690 | 95.124 | 14.467 | 3.5975 |
| 33 | 9,440.2 | 119,412.6 | 1,628.151 | 11.6494 | 88 | 16.754 | 74.434 | 11.885 | 3.4427 |
| 34 | 8,766.5 | 109,972.4 | 1,572.028 | 11.5446 | 89 | 13.429 | 57.680 | 9.655 | 3.2952 |
| 35 | 8,137.9 | 101,206.0 | 1,516.954 | 11.4364 | 90 | 10.646 | 44.251 | 7.751 | 3.1566 |
| 36 | 7,551.3 | 93,068.1 | 1,462.769 | 11.3247 | 91 | 8.3436 | 33.6049 | 6.1451 | 3.0276 |
| 37 | 7,004.1 | 85,516.7 | 1,409.594 | 11.2094 | 92 | 6.4611 | 25.2614 | 4.8085 | 2.9097 |
| 38 | 6,493.5 | 78,512.6 | 1,357.144 | 11.0910 | 93 | 4.9411 | 18.8002 | 3.7111 | 2.8049 |
| 39 | 6,016.9 | 72,019.1 | 1,305.411 | 10.9694 | 94 | 3.7306 | 13.8592 | 2.8239 | 2.7150 |
| 40 | 5,572.2 | 66,002.2 | 1,254.324 | 10.8449 | 95 | 2.7818 | 10.1286 | 2.1192 | 2.6411 |
| 41 | 5,157.4 | 60,429.9 | 1,204.020 | 10.7172 | 96 | 2.0469 | 7.3468 | 1.5663 | 2.5892 |
| 42 | 4,770.6 | 55,272.6 | 1,154.616 | 10.5861 | 97 | 1.4951 | 5.2999 | 1.1484 | 2.5449 |
| 43 | 4,409.9 | 50,502.0 | 1,106.045 | 10.4519 | 98 | 1.0859 | 3.8048 | .8370 | 2.5038 |
| 44 | 4,073.7 | 46,092.1 | 1,058.359 | 10.3145 | 99 | .78426 | 2.71892 | .60639 | 2.4668 |
| 45 | 3,760.3 | 42,018.3 | 1,011.460 | 10.1741 | 100 | .56354 | 1.93465 | .43698 | 2.4330 |
| 46 | 3,468.3 | 38,258.0 | 965.448 | 10.0307 | 101 | .40281 | 1.37111 | .31311 | 2.4038 |
| 47 | 3,196.4 | 34,789.7 | 920.409 | 9.8841 | 102 | .28687 | .96829 | .22353 | 2.3753 |
| 48 | 2,943.1 | 31,593.3 | 876.256 | 9.7347 | 103 | .20320 | .68141 | .15862 | 2.3534 |
| 49 | 2,707.3 | 28,650.2 | 832.994 | 9.5825 | 104 | .14330 | .47821 | .11202 | 2.3369 |
| 50 | 2,487.8 | 25,942.9 | 790.560 | 9.4282 | 105 | .10106 | .33490 | .07915 | 2.3137 |
| 51 | 2,283.4 | 23,455.2 | 748.998 | 9.2718 | 106 | .07064 | .23383 | .05535 | 2.3098 |
| 52 | 2,093.3 | 21,171.7 | 708.257 | 9.1139 | 107 | .04952 | .16318 | .03884 | 2.2954 |
| 53 | 1,916.5 | 19,078.4 | 668.408 | 8.9547 | 108 | .03487 | .11366 | .02744 | 2.2590 |
| 54 | 1,752.3 | 17,161.9 | 629.560 | 8.7939 | 109 | .02382 | .07878 | .01866 | 2.3076 |

TABLE 54. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 7.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,339,231 | 6,565.279 | 12.3923 | 55 | 1,238.1 | 11,525.5 | 433.955 | 8.3093 |
| 1 | 89,669 | 1,239,231 | 3,210.860 | 12.8201 | 56 | 1,123.5 | 10,287.5 | 405.800 | 8.1564 |
| 2 | 83,226 | 1,149,562 | 3,023.948 | 12.8125 | 57 | 1,018.0 | 9,163.9 | 378.701 | 8.0015 |
| 3 | 77,296 | 1,066,336 | 2,900.789 | 12.7954 | 58 | 920.97 | 8,145.89 | 352.648 | 7.8449 |
| 4 | 71,823 | 989,040 | 2,820.668 | 12.7704 | 59 | 831.68 | 7,224.93 | 327.613 | 7.6872 |
| 5 | 66,748 | 917,216 | 2,756.584 | 12.7414 | 60 | 749.61 | 6,393.25 | 303.569 | 7.5288 |
| 6 | 62,039 | 850,468 | 2,704.100 | 12.7086 | 61 | 674.24 | 5,643.64 | 280.498 | 7.3704 |
| 7 | 57,667 | 788,429 | 2,660.098 | 12.6722 | 62 | 605.13 | 4,969.40 | 258.427 | 7.2121 |
| 8 | 53,607 | 730,762 | 2,623.653 | 12.6318 | 63 | 541.87 | 4,364.27 | 237.381 | 7.0542 |
| 9 | 49,836 | 677,155 | 2,592.879 | 12.5876 | 64 | 484.10 | 3,822.41 | 217.423 | 6.8959 |
| 10 | 46,335 | 627,319 | 2,568.134 | 12.5389 | 65 | 431.53 | 3,338.30 | 198.620 | 6.7361 |
| 11 | 43,081 | 580,984 | 2,546.921 | 12.4860 | 66 | 383.82 | 2,906.78 | 181.020 | 6.5733 |
| 12 | 40,055 | 537,904 | 2,527.188 | 12.4290 | 67 | 340.61 | 2,522.96 | 164.585 | 6.4073 |
| 13 | 37,239 | 497,848 | 2,505.317 | 12.3690 | 68 | 301.47 | 2,182.35 | 149.208 | 6.2392 |
| 14 | 34,613 | 460,609 | 2,477.342 | 12.3075 | 69 | 265.97 | 1,880.89 | 134.748 | 6.0717 |
| 15 | 32,161 | 425,996 | 2,440.503 | 12.2457 | 70 | 233.74 | 1,614.92 | 121.069 | 5.9091 |
| 16 | 29,872 | 393,835 | 2,394.917 | 12.1842 | 71 | 204.46 | 1,381.18 | 108.096 | 5.7553 |
| 17 | 27,734 | 363,963 | 2,341.691 | 12.1231 | 72 | 177.96 | 1,176.72 | 95.860 | 5.6124 |
| 18 | 25,740 | 336,229 | 2,281.840 | 12.0627 | 73 | 154.13 | 998.76 | 84.451 | 5.4799 |
| 19 | 23,878 | 310,489 | 2,216.042 | 12.0031 | 74 | 132.95 | 844.63 | 74.018 | 5.3532 |
| 20 | 22,141 | 286,611 | 2,145.182 | 11.9446 | 75 | 114.29 | 711.69 | 64.640 | 5.2269 |
| 21 | 20,520 | 264,470 | 2,068.317 | 11.8886 | 76 | 97.931 | 597.394 | 56.252 | 5.1002 |
| 22 | 19,006 | 243,950 | 1,985.814 | 11.8357 | 77 | 83.601 | 499.464 | 48.754 | 4.9744 |
| 23 | 17,594 | 224,945 | 1,900.540 | 11.7850 | 78 | 71.099 | 415.863 | 42.085 | 4.8491 |
| 24 | 16,284 | 207,350 | 1,817.514 | 11.7335 | 79 | 60.242 | 344.764 | 36.189 | 4.7230 |
| 25 | 15,070 | 191,066 | 1,740.115 | 11.6783 | 80 | 50.861 | 284.522 | 31.010 | 4.5941 |
| 26 | 13,948 | 175,996 | 1,669.490 | 11.6178 | 81 | 42.790 | 233.661 | 26.488 | 4.4670 |
| 27 | 12,910 | 162,048 | 1,604.643 | 11.5518 | 82 | 35.884 | 190.871 | 22.568 | 4.3191 |
| 28 | 11,950 | 149,138 | 1,544.585 | 11.4806 | 83 | 29.981 | 154.987 | 19.168 | 4.1695 |
| 29 | 11,059 | 137,188 | 1,487.611 | 11.4052 | 84 | 24.941 | 125.006 | 16.220 | 4.0120 |
| 30 | 10,232 | 126,129 | 1,432.671 | 11.3265 | 85 | 20.640 | 100.065 | 13.659 | 3.8480 |
| 31 | 9,465.4 | 115,896.7 | 1,379.545 | 11.2443 | 86 | 16.946 | 79.424 | 11.404 | 3.6870 |
| 32 | 8,754.0 | 106,431.4 | 1,328.544 | 11.1580 | 87 | 13.792 | 62.479 | 9.433 | 3.5301 |
| 33 | 8,094.1 | 97,677.4 | 1,279.354 | 11.0678 | 88 | 11.116 | 48.687 | 7.719 | 3.3799 |
| 34 | 7,481.5 | 89,583.3 | 1,231.458 | 10.9740 | 89 | 8.8683 | 37.5708 | 6.2471 | 3.2365 |
| 35 | 6,912.7 | 82,101.9 | 1,184.676 | 10.8769 | 90 | 6.9979 | 28.7025 | 4.9954 | 3.1016 |
| 36 | 6,384.6 | 75,189.2 | 1,138.863 | 10.7766 | 91 | 5.4589 | 21.7046 | 3.9446 | 2.9760 |
| 37 | 5,894.4 | 68,804.5 | 1,094.112 | 10.6728 | 92 | 4.2076 | 16.2457 | 3.0742 | 2.8610 |
| 38 | 5,439.3 | 62,910.1 | 1,050.178 | 10.5659 | 93 | 3.2028 | 12.0381 | 2.3629 | 2.7587 |
| 39 | 5,016.6 | 57,470.9 | 1,007.045 | 10.4560 | 94 | 2.4069 | 8.8353 | 1.7905 | 2.6709 |
| 40 | 4,624.2 | 52,454.2 | 964.650 | 10.3433 | 95 | 1.7864 | 6.4284 | 1.3379 | 2.5986 |
| 41 | 4,260.1 | 47,830.0 | 923.098 | 10.2275 | 96 | 1.3084 | 4.6420 | .9845 | 2.5480 |
| 42 | 3,922.2 | 43,569.9 | 882.479 | 10.1084 | 97 | .95120 | 3.33367 | .71862 | 2.5047 |
| 43 | 3,608.8 | 39,647.7 | 842.731 | 9.9862 | 98 | .68765 | 2.38247 | .52143 | 2.4646 |
| 44 | 3,318.2 | 36,038.8 | 803.889 | 9.8609 | 99 | .49433 | 1.69481 | .37608 | 2.4285 |
| 45 | 3,048.7 | 32,720.6 | 765.865 | 9.7326 | 100 | .35355 | 1.20048 | .26980 | 2.3954 |
| 46 | 2,798.9 | 29,671.9 | 728.735 | 9.6014 | 101 | .25154 | .84692 | .19245 | 2.3669 |
| 47 | 2,567.4 | 26,873.0 | 692.558 | 9.4669 | 102 | .17831 | .59538 | .13677 | 2.3390 |
| 48 | 2,353.0 | 24,305.6 | 657.258 | 9.3296 | 103 | .12571 | .41707 | .09661 | 2.3176 |
| 49 | 2,154.4 | 21,952.6 | 622.831 | 9.1896 | 104 | .08824 | .29135 | .06792 | 2.3016 |
| 50 | 1,970.5 | 19,798.2 | 589.220 | 9.0474 | 105 | .06194 | .20310 | .04777 | 2.2788 |
| 51 | 1,800.2 | 17,827.7 | 556.453 | 8.9029 | 106 | .04310 | .14116 | .03325 | 2.2751 |
| 52 | 1,642.7 | 16,027.5 | 524.482 | 8.7569 | 107 | .03007 | .09806 | .02322 | 2.2610 |
| 53 | 1,496.9 | 14,384.8 | 493.357 | 8.6094 | 108 | .02108 | .06799 | .01633 | 2.2553 |
| 54 | 1,362.3 | 12,887.8 | 463.155 | 8.4603 | 109 | .01433 | .04691 | .01105 | 2.2735 |

TABLE 55. UNITED STATES NEGRO MALES: 1969-71--ACTUARIAL FUNCTIONS AT 8 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|--------|----------|---------|--------|
| 0 | 100,000 | 1,267,157 | 6,136.490 | 11.6716 | 55 | 959.18 | 8,640.51 | 319.145 | 8.0082 |
| 1 | 89,254 | 1,167,157 | 2,797.601 | 12.0769 | 56 | 866.42 | 7,681.33 | 297.433 | 7.8656 |
| 2 | 82,457 | 1,077,904 | 2,612.416 | 12.0723 | 57 | 781.44 | 6,814.91 | 276.632 | 7.7210 |
| 3 | 76,228 | 995,447 | 2,490.959 | 12.0588 | 58 | 703.65 | 6,033.47 | 256.726 | 7.5745 |
| 4 | 70,503 | 919,219 | 2,412.311 | 12.0381 | 59 | 632.49 | 5,329.82 | 237.688 | 7.4267 |
| 5 | 65,218 | 848,716 | 2,349.697 | 12.0136 | 60 | 567.44 | 4,697.33 | 219.487 | 7.2782 |
| 6 | 60,336 | 783,499 | 2,298.654 | 11.9857 | 61 | 508.02 | 4,129.89 | 202.103 | 7.1294 |
| 7 | 55,824 | 723,163 | 2,256.059 | 11.9544 | 62 | 453.84 | 3,621.87 | 185.550 | 6.9806 |
| 8 | 51,653 | 667,339 | 2,220.941 | 11.9195 | 63 | 404.51 | 3,168.03 | 169.839 | 6.8318 |
| 9 | 47,798 | 615,686 | 2,191.427 | 11.8811 | 64 | 359.71 | 2,763.53 | 155.009 | 6.6825 |
| 10 | 44,234 | 567,888 | 2,167.804 | 11.8384 | 65 | 319.16 | 2,403.81 | 141.103 | 6.5316 |
| 11 | 40,937 | 523,655 | 2,147.646 | 11.7918 | 66 | 282.56 | 2,084.65 | 128.146 | 6.3776 |
| 12 | 37,886 | 482,718 | 2,128.982 | 11.7414 | 67 | 249.59 | 1,802.08 | 116.102 | 6.2202 |
| 13 | 35,059 | 444,832 | 2,108.391 | 11.6881 | 68 | 219.89 | 1,552.49 | 104.887 | 6.0604 |
| 14 | 32,436 | 409,773 | 2,082.175 | 11.6334 | 69 | 193.10 | 1,332.61 | 94.388 | 5.9011 |
| 15 | 29,999 | 377,337 | 2,047.814 | 11.5784 | 70 | 168.91 | 1,139.51 | 84.503 | 5.7462 |
| 16 | 27,734 | 347,338 | 2,005.490 | 11.5238 | 71 | 147.07 | 970.60 | 75.172 | 5.5997 |
| 17 | 25,631 | 319,604 | 1,956.301 | 11.4696 | 72 | 127.41 | 823.53 | 66.410 | 5.4635 |
| 18 | 23,677 | 293,974 | 1,901.246 | 11.4160 | 73 | 109.84 | 696.12 | 58.280 | 5.3373 |
| 19 | 21,863 | 270,296 | 1,841.001 | 11.3632 | 74 | 94.307 | 586.273 | 50.879 | 5.2166 |
| 20 | 20,179 | 248,433 | 1,776.422 | 11.3115 | 75 | 80.699 | 491.966 | 44.257 | 5.0963 |
| 21 | 18,614 | 228,255 | 1,706.694 | 11.2622 | 76 | 68.827 | 411.266 | 38.362 | 4.9754 |
| 22 | 17,161 | 209,640 | 1,632.198 | 11.2160 | 77 | 58.483 | 342.440 | 33.118 | 4.8553 |
| 23 | 15,813 | 192,479 | 1,555.556 | 11.1720 | 78 | 49.508 | 283.956 | 28.474 | 4.7356 |
| 24 | 14,568 | 176,666 | 1,481.280 | 11.1273 | 79 | 41.753 | 234.449 | 24.387 | 4.6151 |
| 25 | 13,420 | 162,098 | 1,412.359 | 11.0792 | 80 | 35.088 | 192.695 | 20.814 | 4.4918 |
| 26 | 12,363 | 148,679 | 1,349.761 | 11.0261 | 81 | 29.383 | 157.607 | 17.709 | 4.3638 |
| 27 | 11,390 | 136,316 | 1,292.550 | 10.9680 | 82 | 24.527 | 128.224 | 15.029 | 4.2278 |
| 28 | 10,494 | 124,926 | 1,239.810 | 10.9050 | 83 | 20.398 | 103.697 | 12.716 | 4.0837 |
| 29 | 9,666.5 | 114,432.0 | 1,190.010 | 10.8381 | 84 | 16.890 | 83.299 | 10.720 | 3.9318 |
| 30 | 8,902.6 | 104,765.5 | 1,142.209 | 10.7679 | 85 | 13.913 | 66.409 | 8.994 | 3.7732 |
| 31 | 8,197.2 | 95,862.9 | 1,096.201 | 10.6947 | 86 | 11.370 | 52.496 | 7.481 | 3.6173 |
| 32 | 7,546.0 | 87,665.8 | 1,052.238 | 10.6175 | 87 | 9.2106 | 41.1264 | 6.1642 | 3.4651 |
| 33 | 6,944.8 | 80,119.8 | 1,010.032 | 10.5366 | 88 | 7.3893 | 31.9158 | 5.0252 | 3.3192 |
| 34 | 6,389.5 | 73,174.9 | 969.127 | 10.4524 | 89 | 5.8679 | 24.5264 | 4.0511 | 3.1798 |
| 35 | 5,876.4 | 66,785.4 | 929.358 | 10.3650 | 90 | 4.6088 | 18.6585 | 3.2267 | 3.0484 |
| 36 | 5,402.4 | 60,909.0 | 890.593 | 10.2745 | 91 | 3.5786 | 14.0497 | 2.5379 | 2.9260 |
| 37 | 4,964.5 | 55,506.6 | 852.903 | 10.1807 | 92 | 2.7456 | 10.4711 | 1.9699 | 2.8138 |
| 38 | 4,559.9 | 50,542.1 | 816.071 | 10.0840 | 93 | 2.0802 | 7.7256 | 1.5079 | 2.7139 |
| 39 | 4,186.2 | 45,982.2 | 780.078 | 9.9843 | 94 | 1.5560 | 5.6454 | 1.1378 | 2.6281 |
| 40 | 3,840.9 | 41,796.0 | 744.865 | 9.8819 | 95 | 1.1495 | 4.0893 | .8466 | 2.5574 |
| 41 | 3,522.0 | 37,955.2 | 710.512 | 9.7766 | 96 | .83802 | 2.93980 | .62026 | 2.5080 |
| 42 | 3,227.7 | 34,433.2 | 677.086 | 9.6680 | 97 | .60644 | 2.10177 | .45075 | 2.4657 |
| 43 | 2,956.0 | 31,205.5 | 644.528 | 9.5565 | 98 | .43638 | 1.49533 | .32562 | 2.4266 |
| 44 | 2,705.4 | 28,249.4 | 612.859 | 9.4418 | 99 | .31225 | 1.05894 | .23381 | 2.3913 |
| 45 | 2,474.2 | 25,544.0 | 582.001 | 9.3244 | 100 | .22229 | .74669 | .16698 | 2.3590 |
| 46 | 2,260.9 | 23,069.9 | 552.008 | 9.2039 | 101 | .15742 | .52439 | .11857 | 2.3311 |
| 47 | 2,064.3 | 20,809.0 | 522.920 | 9.0803 | 102 | .11107 | .36697 | .08389 | 2.3038 |
| 48 | 1,883.2 | 18,744.7 | 494.669 | 8.9538 | 103 | .07794 | .25589 | .05899 | 2.2829 |
| 49 | 1,716.2 | 16,861.5 | 467.243 | 8.8247 | 104 | .05446 | .17794 | .04128 | 2.2672 |
| 50 | 1,562.5 | 15,145.2 | 440.592 | 8.6932 | 105 | .03805 | .12348 | .02890 | 2.2449 |
| 51 | 1,420.9 | 13,582.8 | 414.730 | 8.5595 | 106 | .02635 | .08543 | .02002 | 2.2415 |
| 52 | 1,290.5 | 12,161.9 | 389.614 | 8.4242 | 107 | .01830 | .05907 | .01392 | 2.2277 |
| 53 | 1,170.6 | 10,871.4 | 365.275 | 8.2873 | 108 | .01277 | .04077 | .00975 | 2.1925 |
| 54 | 1,060.3 | 9,700.9 | 341.768 | 8.1487 | 109 | .00864 | .02800 | .00656 | 2.2403 |

TABLE 56. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 3 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,849,730 | 16,998.157 | 27.4973 | 55 | 15,579 | 242,783 | 8,508.088 | 14.5835 |
| 1 | 94,249 | 2,749,730 | 14,159.322 | 28.1753 | 56 | 14,905 | 227,203 | 8,287.824 | 14.2430 |
| 2 | 91,324 | 2,655,481 | 13,980.229 | 28.0775 | 57 | 14,247 | 212,298 | 8,063.959 | 13.9008 |
| 3 | 88,545 | 2,564,157 | 13,860.345 | 27.9590 | 58 | 13,604 | 198,051 | 7,835.991 | 13.5578 |
| 4 | 85,886 | 2,475,613 | 13,781.270 | 27.8242 | 59 | 12,976 | 184,446 | 7,603.298 | 13.2149 |
| 5 | 83,326 | 2,389,726 | 13,722.613 | 27.6791 | 60 | 12,360 | 171,471 | 7,365.672 | 12.8731 |
| 6 | 80,848 | 2,306,400 | 13,671.526 | 27.5275 | 61 | 11,758 | 159,111 | 7,123.596 | 12.5323 |
| 7 | 78,452 | 2,225,552 | 13,630.058 | 27.3683 | 62 | 11,169 | 147,353 | 6,876.892 | 12.1933 |
| 8 | 76,132 | 2,147,100 | 13,595.324 | 27.2023 | 63 | 10,592 | 136,184 | 6,625.413 | 11.8573 |
| 9 | 73,886 | 2,070,967 | 13,566.201 | 27.0294 | 64 | 10,027 | 125,592 | 6,369.345 | 11.5249 |
| 10 | 71,708 | 1,997,082 | 13,540.157 | 26.8504 | 65 | 9,475.3 | 115,564.8 | 6,109.315 | 11.1965 |
| 11 | 69,595 | 1,925,374 | 13,516.317 | 26.6653 | 66 | 8,937.5 | 106,089.5 | 5,847.477 | 10.8702 |
| 12 | 67,546 | 1,855,779 | 13,493.873 | 26.4744 | 67 | 8,414.8 | 97,152.0 | 5,585.123 | 10.5454 |
| 13 | 65,554 | 1,788,233 | 13,469.359 | 26.2789 | 68 | 7,907.1 | 88,737.3 | 5,322.505 | 10.2225 |
| 14 | 63,616 | 1,722,679 | 13,440.931 | 26.0793 | 69 | 7,412.8 | 80,830.2 | 5,058.560 | 9.9041 |
| 15 | 61,729 | 1,659,063 | 13,406.912 | 25.8765 | 70 | 6,930.3 | 73,417.3 | 4,791.946 | 9.5937 |
| 16 | 59,891 | 1,597,334 | 13,366.406 | 25.6708 | 71 | 6,457.6 | 66,487.0 | 4,521.081 | 9.2959 |
| 17 | 58,099 | 1,537,444 | 13,319.215 | 25.4624 | 72 | 5,995.0 | 60,029.4 | 4,246.558 | 9.0133 |
| 18 | 56,354 | 1,479,344 | 13,266.350 | 25.2509 | 73 | 5,545.4 | 54,034.4 | 3,971.593 | 8.7440 |
| 19 | 54,655 | 1,422,990 | 13,208.751 | 25.0358 | 74 | 5,114.2 | 48,489.0 | 3,701.944 | 8.4812 |
| 20 | 53,003 | 1,368,335 | 13,148.400 | 24.8163 | 75 | 4,705.7 | 43,374.8 | 3,442.327 | 8.2176 |
| 21 | 51,395 | 1,315,332 | 13,084.432 | 24.5926 | 76 | 4,320.5 | 38,669.1 | 3,194.186 | 7.9502 |
| 22 | 49,830 | 1,263,937 | 13,016.586 | 24.3648 | 77 | 3,956.8 | 34,348.6 | 2,956.353 | 7.6809 |
| 23 | 48,308 | 1,214,107 | 12,945.649 | 24.1326 | 78 | 3,613.6 | 30,351.8 | 2,728.438 | 7.4103 |
| 24 | 46,828 | 1,165,799 | 12,872.351 | 23.8955 | 79 | 3,289.8 | 26,778.2 | 2,509.872 | 7.1397 |
| 25 | 45,389 | 1,118,971 | 12,797.844 | 23.6528 | 80 | 2,984.3 | 23,488.4 | 2,300.209 | 6.8706 |
| 26 | 43,992 | 1,073,582 | 12,722.262 | 23.4042 | 81 | 2,697.3 | 20,504.0 | 2,100.120 | 6.6016 |
| 27 | 42,632 | 1,029,591 | 12,644.379 | 23.1504 | 82 | 2,428.9 | 17,806.7 | 1,910.288 | 6.3311 |
| 28 | 41,311 | 986,958 | 12,564.831 | 22.8908 | 83 | 2,178.9 | 15,377.8 | 1,730.973 | 6.0577 |
| 29 | 40,025 | 945,647 | 12,482.084 | 22.6263 | 84 | 1,946.6 | 13,158.9 | 1,562.141 | 5.7806 |
| 30 | 38,774 | 905,622 | 12,396.390 | 22.3566 | 85 | 1,731.4 | 11,252.3 | 1,403.658 | 5.4990 |
| 31 | 37,555 | 866,848 | 12,307.197 | 22.0820 | 86 | 1,529.9 | 9,520.9 | 1,252.546 | 5.2234 |
| 32 | 36,369 | 829,293 | 12,214.769 | 21.8022 | 87 | 1,341.6 | 7,991.1 | 1,108.891 | 4.9562 |
| 33 | 35,213 | 792,924 | 12,117.873 | 21.5181 | 88 | 1,166.3 | 6,649.5 | 972.611 | 4.7014 |
| 34 | 34,084 | 757,711 | 12,015.015 | 21.2305 | 89 | 1,003.6 | 5,483.2 | 843.901 | 4.4635 |
| 35 | 32,982 | 723,627 | 11,905.556 | 20.9400 | 90 | 853.82 | 4,479.56 | 723.346 | 4.2465 |
| 36 | 31,905 | 690,645 | 11,789.281 | 20.6468 | 91 | 717.00 | 3,625.74 | 611.393 | 4.0568 |
| 37 | 30,853 | 658,740 | 11,666.677 | 20.3507 | 92 | 593.82 | 2,908.75 | 509.095 | 3.8984 |
| 38 | 29,826 | 627,886 | 11,537.562 | 20.0520 | 93 | 485.46 | 2,314.93 | 418.032 | 3.7686 |
| 39 | 28,821 | 598,061 | 11,402.104 | 19.7506 | 94 | 392.60 | 1,829.47 | 339.313 | 3.6599 |
| 40 | 27,841 | 569,240 | 11,260.781 | 19.4464 | 95 | 314.69 | 1,436.87 | 272.840 | 3.5660 |
| 41 | 26,883 | 541,399 | 11,113.753 | 19.1393 | 96 | 249.83 | 1,122.18 | 217.147 | 3.4918 |
| 42 | 25,948 | 514,516 | 10,961.760 | 18.8290 | 97 | 197.18 | 872.35 | 171.774 | 3.4241 |
| 43 | 25,035 | 488,569 | 10,804.656 | 18.5156 | 98 | 154.73 | 675.17 | 135.065 | 3.3635 |
| 44 | 24,143 | 463,534 | 10,641.778 | 18.1997 | 99 | 120.75 | 520.44 | 105.588 | 3.3102 |
| 45 | 23,271 | 439,391 | 10,473.066 | 17.8816 | 100 | 93.815 | 399.691 | 82.174 | 3.2604 |
| 46 | 22,418 | 416,120 | 10,298.485 | 17.5615 | 101 | 72.543 | 305.876 | 63.634 | 3.2165 |
| 47 | 21,585 | 393,702 | 10,118.271 | 17.2393 | 102 | 55.863 | 233.333 | 49.067 | 3.1769 |
| 48 | 20,771 | 372,116 | 9,932.658 | 16.9152 | 103 | 42.856 | 177.470 | 37.687 | 3.1411 |
| 49 | 19,976 | 351,345 | 9,742.348 | 16.5886 | 104 | 32.731 | 134.614 | 28.810 | 3.1127 |
| 50 | 19,199 | 331,370 | 9,547.773 | 16.2595 | 105 | 24.955 | 101.883 | 21.988 | 3.0826 |
| 51 | 18,441 | 312,170 | 9,348.677 | 15.9280 | 106 | 18.956 | 76.928 | 16.715 | 3.0582 |
| 52 | 17,700 | 293,729 | 9,145.060 | 15.5946 | 107 | 14.385 | 57.972 | 12.696 | 3.0301 |
| 53 | 16,977 | 276,029 | 8,936.936 | 15.2594 | 108 | 10.885 | 43.587 | 9.615 | 3.0044 |
| 54 | 16,270 | 259,052 | 8,724.335 | 14.9225 | 109 | 8.2150 | 32.7022 | 7.2625 | 2.9808 |

TABLE 57. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 3.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,556,276 | 13,555.869 | 24.5628 | 55 | 11,937 | 176,505 | 5,967.795 | 13.7869 |
| 1 | 93,793 | 2,456,276 | 10,730.748 | 25.1882 | 56 | 11,365 | 164,569 | 5,799.849 | 13.4803 |
| 2 | 90,444 | 2,362,483 | 10,553.381 | 25.1209 | 57 | 10,811 | 153,204 | 5,629.983 | 13.1714 |
| 3 | 87,267 | 2,272,039 | 10,435.226 | 25.0354 | 58 | 10,273 | 142,393 | 5,457.838 | 12.8608 |
| 4 | 84,239 | 2,184,772 | 10,357.668 | 24.9354 | 59 | 9,750.8 | 132,120.0 | 5,282.976 | 12.5497 |
| 5 | 81,333 | 2,100,533 | 10,300.414 | 24.8264 | 60 | 9,243.4 | 122,369.2 | 5,105.267 | 12.2386 |
| 6 | 78,533 | 2,019,200 | 10,250.790 | 24.7115 | 61 | 8,750.6 | 113,125.8 | 4,925.107 | 11.9278 |
| 7 | 75,837 | 1,940,667 | 10,210.705 | 24.5899 | 62 | 8,272.0 | 104,375.2 | 4,742.388 | 11.6179 |
| 8 | 73,239 | 1,864,830 | 10,177.291 | 24.4622 | 63 | 7,806.9 | 96,103.2 | 4,557.033 | 11.3100 |
| 9 | 70,735 | 1,791,591 | 10,149.409 | 24.3283 | 64 | 7,355.1 | 88,296.3 | 4,369.207 | 11.0048 |
| 10 | 68,318 | 1,720,856 | 10,124.597 | 24.1890 | 65 | 6,916.5 | 80,941.3 | 4,179.397 | 10.7026 |
| 11 | 65,985 | 1,652,538 | 10,101.993 | 24.0442 | 66 | 6,492.4 | 74,024.7 | 3,989.189 | 10.4017 |
| 12 | 63,732 | 1,586,553 | 10,080.816 | 23.8940 | 67 | 6,083.2 | 67,532.3 | 3,799.528 | 10.1014 |
| 13 | 61,554 | 1,522,821 | 10,057.798 | 23.7395 | 68 | 5,688.6 | 61,449.0 | 3,610.593 | 9.8022 |
| 14 | 59,446 | 1,461,267 | 10,031.233 | 23.5814 | 69 | 5,307.2 | 55,760.5 | 3,421.621 | 9.5065 |
| 15 | 57,404 | 1,401,821 | 9,999.598 | 23.4202 | 70 | 4,937.8 | 50,453.2 | 3,231.660 | 9.2177 |
| 16 | 55,425 | 1,344,417 | 9,962.112 | 23.2563 | 71 | 4,578.8 | 45,515.4 | 3,039.603 | 8.9405 |
| 17 | 53,508 | 1,288,991 | 9,918.650 | 23.0898 | 72 | 4,230.2 | 40,936.6 | 2,845.892 | 8.6772 |
| 18 | 51,650 | 1,235,483 | 9,870.198 | 22.9204 | 73 | 3,894.1 | 36,706.4 | 2,652.807 | 8.4262 |
| 19 | 49,851 | 1,183,834 | 9,817.662 | 22.7476 | 74 | 3,574.0 | 32,812.3 | 2,464.369 | 8.1809 |
| 20 | 48,110 | 1,133,983 | 9,762.882 | 22.5706 | 75 | 3,272.6 | 29,238.4 | 2,283.819 | 7.9344 |
| 21 | 46,425 | 1,085,873 | 9,705.099 | 22.3896 | 76 | 2,990.2 | 25,965.8 | 2,112.083 | 7.6838 |
| 22 | 44,795 | 1,039,447 | 9,644.110 | 22.2048 | 77 | 2,725.2 | 22,975.7 | 1,948.276 | 7.4307 |
| 23 | 43,216 | 994,653 | 9,580.650 | 22.0157 | 78 | 2,476.9 | 20,250.4 | 1,792.059 | 7.1759 |
| 24 | 41,690 | 951,437 | 9,515.394 | 21.8219 | 79 | 2,244.0 | 17,773.6 | 1,642.973 | 6.9204 |
| 25 | 40,214 | 909,747 | 9,449.383 | 21.6228 | 80 | 2,025.8 | 15,529.6 | 1,500.651 | 6.6659 |
| 26 | 38,787 | 869,533 | 9,382.743 | 21.4180 | 81 | 1,822.1 | 13,503.8 | 1,365.485 | 6.4110 |
| 27 | 37,407 | 830,746 | 9,314.406 | 21.2081 | 82 | 1,632.9 | 11,681.6 | 1,237.866 | 6.1539 |
| 28 | 36,073 | 793,339 | 9,244.944 | 20.9927 | 83 | 1,457.7 | 10,048.7 | 1,117.900 | 5.8935 |
| 29 | 34,781 | 757,266 | 9,173.039 | 20.7724 | 84 | 1,296.0 | 8,591.0 | 1,005.494 | 5.6288 |
| 30 | 33,531 | 722,485 | 9,098.933 | 20.5469 | 85 | 1,147.2 | 7,295.0 | 900.487 | 5.3591 |
| 31 | 32,320 | 688,954 | 9,022.169 | 20.3166 | 86 | 1,008.7 | 6,147.8 | 800.848 | 5.0945 |
| 32 | 31,148 | 656,634 | 8,943.013 | 20.0811 | 87 | 880.37 | 5,139.08 | 706.583 | 4.8374 |
| 33 | 30,012 | 625,486 | 8,860.428 | 19.8411 | 88 | 761.60 | 4,258.71 | 617.590 | 4.5918 |
| 34 | 28,910 | 595,474 | 8,773.184 | 19.5975 | 89 | 652.21 | 3,497.11 | 533.946 | 4.3620 |
| 35 | 27,840 | 566,564 | 8,680.791 | 19.3507 | 90 | 552.18 | 2,844.90 | 455.980 | 4.1521 |
| 36 | 26,801 | 538,724 | 8,583.118 | 19.1010 | 91 | 461.46 | 2,292.72 | 383.928 | 3.9684 |
| 37 | 25,792 | 511,923 | 8,480.626 | 18.8481 | 92 | 380.33 | 1,831.26 | 318.407 | 3.8149 |
| 38 | 24,812 | 486,131 | 8,373.213 | 18.5922 | 93 | 309.43 | 1,450.92 | 260.363 | 3.6890 |
| 39 | 23,861 | 461,319 | 8,261.067 | 18.3334 | 94 | 249.03 | 1,141.50 | 210.431 | 3.5837 |
| 40 | 22,938 | 437,457 | 8,144.631 | 18.0714 | 95 | 198.65 | 892.46 | 168.470 | 3.4927 |
| 41 | 22,042 | 414,519 | 8,024.079 | 17.8062 | 96 | 156.94 | 693.21 | 133.483 | 3.4207 |
| 42 | 21,172 | 392,478 | 7,900.060 | 17.5374 | 97 | 123.27 | 536.87 | 105.117 | 3.3551 |
| 43 | 20,329 | 371,306 | 7,772.488 | 17.2651 | 98 | 96.265 | 413.596 | 82.279 | 3.2964 |
| 44 | 19,510 | 350,977 | 7,640.867 | 16.9899 | 99 | 74.760 | 317.331 | 64.029 | 3.2447 |
| 45 | 18,714 | 331,467 | 7,505.191 | 16.7120 | 100 | 57.804 | 242.572 | 49.601 | 3.1964 |
| 46 | 17,942 | 312,753 | 7,365.472 | 16.4317 | 101 | 44.481 | 184.767 | 38.233 | 3.1538 |
| 47 | 17,191 | 294,811 | 7,221.943 | 16.1488 | 102 | 34.089 | 140.286 | 29.345 | 3.1153 |
| 48 | 16,463 | 277,620 | 7,074.827 | 15.8633 | 103 | 26.025 | 106.197 | 22.434 | 3.0806 |
| 49 | 15,756 | 261,157 | 6,924.718 | 15.5750 | 104 | 19.780 | 80.173 | 17.069 | 3.0531 |
| 50 | 15,071 | 245,401 | 6,771.985 | 15.2835 | 105 | 15.009 | 60.392 | 12.966 | 3.0239 |
| 51 | 14,405 | 230,330 | 6,616.460 | 14.9892 | 106 | 11.345 | 45.384 | 9.810 | 3.0003 |
| 52 | 13,760 | 215,925 | 6,458.170 | 14.6922 | 107 | 8.5676 | 34.0384 | 7.4166 | 2.9729 |
| 53 | 13,134 | 202,165 | 6,297.159 | 14.3929 | 108 | 6.4519 | 25.4708 | 5.5906 | 2.9478 |
| 54 | 12,526 | 189,031 | 6,133.478 | 14.0913 | 109 | 4.8458 | 19.0188 | 4.2026 | 2.9248 |

TABLE 58. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 4 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|------------|---------|-----|---------|-----------|-----------|---------|
| 0 | 100,000 | 2,312,495 | 11,057.890 | 22.1249 | 55 | 9,157.3 | 128,756.7 | 4,205.075 | 13.0606 |
| 1 | 93,342 | 2,212,495 | 8,246.351 | 22.7030 | 56 | 8,676.8 | 119,599.5 | 4,076.853 | 12.7838 |
| 2 | 89,577 | 2,119,153 | 8,070.686 | 22.6574 | 57 | 8,214.0 | 110,922.6 | 3,947.788 | 12.5040 |
| 3 | 86,015 | 2,029,576 | 7,954.227 | 22.5956 | 58 | 7,768.0 | 102,708.6 | 3,817.622 | 12.2221 |
| 4 | 82,631 | 1,943,561 | 7,878.150 | 22.5211 | 59 | 7,337.6 | 94,940.6 | 3,686.035 | 11.9389 |
| 5 | 79,397 | 1,860,931 | 7,822.258 | 22.4384 | 60 | 6,922.3 | 87,603.0 | 3,552.951 | 11.6552 |
| 6 | 76,295 | 1,781,534 | 7,774.049 | 22.3507 | 61 | 6,521.8 | 80,680.7 | 3,418.678 | 11.3710 |
| 7 | 73,321 | 1,705,240 | 7,735.293 | 22.2570 | 62 | 6,135.4 | 74,159.0 | 3,283.154 | 11.0870 |
| 8 | 70,469 | 1,631,918 | 7,703.143 | 22.1579 | 63 | 5,762.6 | 68,023.5 | 3,146.335 | 10.8063 |
| 9 | 67,732 | 1,561,449 | 7,676.445 | 22.0533 | 64 | 5,403.0 | 62,260.9 | 3,008.358 | 10.5234 |
| 10 | 65,103 | 1,493,717 | 7,652.800 | 21.9437 | 65 | 5,056.4 | 56,857.9 | 2,869.595 | 10.2447 |
| 11 | 62,578 | 1,428,613 | 7,631.264 | 21.8293 | 66 | 4,723.6 | 51,801.5 | 2,731.210 | 9.9666 |
| 12 | 60,151 | 1,366,035 | 7,611.377 | 21.7100 | 67 | 4,404.6 | 47,077.9 | 2,593.885 | 9.6884 |
| 13 | 57,816 | 1,305,884 | 7,589.756 | 21.5869 | 68 | 4,099.0 | 42,673.3 | 2,457.744 | 9.4106 |
| 14 | 55,568 | 1,248,068 | 7,564.925 | 21.4604 | 69 | 3,805.9 | 38,574.3 | 2,322.231 | 9.1355 |
| 15 | 53,401 | 1,192,500 | 7,535.496 | 21.3311 | 70 | 3,523.9 | 34,768.4 | 2,186.664 | 8.8664 |
| 16 | 51,312 | 1,139,100 | 7,500.792 | 21.1993 | 71 | 3,252.0 | 31,244.5 | 2,050.259 | 8.6079 |
| 17 | 49,299 | 1,087,787 | 7,460.748 | 21.0652 | 72 | 2,990.0 | 27,992.6 | 1,913.342 | 8.3621 |
| 18 | 47,358 | 1,038,489 | 7,416.322 | 20.9284 | 73 | 2,739.2 | 25,002.6 | 1,777.523 | 8.1278 |
| 19 | 45,489 | 991,130 | 7,368.383 | 20.7885 | 74 | 2,501.9 | 22,263.4 | 1,645.610 | 7.8986 |
| 20 | 43,689 | 945,642 | 7,318.637 | 20.6446 | 75 | 2,279.9 | 19,761.5 | 1,519.826 | 7.6678 |
| 21 | 41,957 | 901,952 | 7,266.416 | 20.4971 | 76 | 2,073.1 | 17,481.6 | 1,400.759 | 7.4325 |
| 22 | 40,288 | 859,995 | 7,211.561 | 20.3460 | 77 | 1,880.4 | 15,408.5 | 1,287.734 | 7.1944 |
| 23 | 38,682 | 819,707 | 7,154.760 | 20.1909 | 78 | 1,700.8 | 13,528.1 | 1,180.465 | 6.9541 |
| 24 | 37,136 | 781,025 | 7,096.632 | 20.0314 | 79 | 1,533.5 | 11,827.4 | 1,078.585 | 6.7127 |
| 25 | 35,649 | 743,889 | 7,038.113 | 19.8669 | 80 | 1,377.7 | 10,293.9 | 981.794 | 6.4717 |
| 26 | 34,219 | 708,240 | 6,979.321 | 19.6971 | 81 | 1,233.2 | 8,916.2 | 890.312 | 6.2299 |
| 27 | 32,843 | 674,020 | 6,919.322 | 19.5224 | 82 | 1,099.9 | 7,682.9 | 804.353 | 5.9854 |
| 28 | 31,519 | 641,177 | 6,858.629 | 19.3424 | 83 | 977.13 | 6,583.07 | 723.938 | 5.7371 |
| 29 | 30,244 | 609,658 | 6,796.102 | 19.1577 | 84 | 864.56 | 5,605.94 | 648.952 | 5.4841 |
| 30 | 29,017 | 579,413 | 6,731.972 | 18.9680 | 85 | 761.60 | 4,741.37 | 579.239 | 5.2255 |
| 31 | 27,835 | 550,396 | 6,665.861 | 18.7736 | 86 | 666.48 | 3,979.77 | 513.408 | 4.9714 |
| 32 | 26,697 | 522,561 | 6,598.017 | 18.5741 | 87 | 578.86 | 3,313.30 | 451.427 | 4.7238 |
| 33 | 25,599 | 495,865 | 6,527.575 | 18.3703 | 88 | 498.36 | 2,734.44 | 393.193 | 4.4868 |
| 34 | 24,541 | 470,266 | 6,453.517 | 18.1627 | 89 | 424.73 | 2,236.07 | 338.723 | 4.2647 |
| 35 | 23,519 | 445,725 | 6,375.465 | 17.9519 | 90 | 357.86 | 1,811.35 | 288.194 | 4.0616 |
| 36 | 22,532 | 422,206 | 6,293.348 | 17.7380 | 91 | 297.63 | 1,453.48 | 241.723 | 3.8836 |
| 37 | 21,580 | 399,674 | 6,207.596 | 17.5209 | 92 | 244.12 | 1,155.86 | 199.667 | 3.7347 |
| 38 | 20,660 | 378,094 | 6,118.157 | 17.3006 | 93 | 197.66 | 911.74 | 162.590 | 3.6127 |
| 39 | 19,773 | 357,434 | 6,025.227 | 17.0772 | 94 | 158.31 | 714.08 | 130.848 | 3.5106 |
| 40 | 18,916 | 337,661 | 5,929.206 | 16.8504 | 95 | 125.68 | 555.77 | 104.301 | 3.4222 |
| 41 | 18,090 | 318,745 | 5,830.269 | 16.6203 | 96 | 98.814 | 430.089 | 82.272 | 3.3525 |
| 42 | 17,293 | 300,656 | 5,728.974 | 16.3863 | 97 | 77.241 | 331.275 | 64.499 | 3.2889 |
| 43 | 16,524 | 283,363 | 5,625.280 | 16.1487 | 98 | 60.028 | 254.035 | 50.258 | 3.2319 |
| 44 | 15,782 | 266,839 | 5,518.808 | 15.9080 | 99 | 46.394 | 194.006 | 38.932 | 3.1817 |
| 45 | 15,066 | 251,057 | 5,409.584 | 15.6642 | 100 | 35.699 | 147.612 | 30.022 | 3.1349 |
| 46 | 14,374 | 235,992 | 5,297.646 | 15.4177 | 101 | 27.339 | 111.913 | 23.035 | 3.0935 |
| 47 | 13,707 | 221,617 | 5,183.208 | 15.1682 | 102 | 20.851 | 84.574 | 17.598 | 3.0561 |
| 48 | 13,063 | 207,910 | 5,066.475 | 14.9159 | 103 | 15.842 | 63.723 | 13.391 | 3.0224 |
| 49 | 12,442 | 194,847 | 4,947.938 | 14.6604 | 104 | 11.983 | 47.881 | 10.141 | 2.9957 |
| 50 | 11,843 | 182,405 | 4,827.910 | 14.4013 | 105 | 9.0484 | 35.8979 | 7.6678 | 2.9673 |
| 51 | 11,266 | 170,562 | 4,706.275 | 14.1391 | 106 | 6.8070 | 26.8495 | 5.7743 | 2.9444 |
| 52 | 10,710 | 159,295 | 4,583.074 | 13.8738 | 107 | 5.1158 | 20.0425 | 4.3449 | 2.9178 |
| 53 | 10,173 | 148,586 | 4,458.356 | 13.6056 | 108 | 3.8339 | 14.9267 | 3.2598 | 2.8933 |
| 54 | 9,655.7 | 138,412.5 | 4,332.180 | 13.3347 | 109 | 2.8657 | 11.0927 | 2.4390 | 2.8709 |

TABLE 59. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 4.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 2,107,953 | 9,226.908 | 20.0795 | 55 | 7,034.0 | 94,232.6 | 2,976.148 | 12.3967 |
| 1 | 92,896 | 2,007,953 | 6,428.821 | 20.6151 | 56 | 6,633.1 | 87,198.6 | 2,878.127 | 12.1460 |
| 2 | 88,721 | 1,915,057 | 6,254.833 | 20.5851 | 57 | 6,249.3 | 80,565.5 | 2,779.935 | 11.8920 |
| 3 | 84,786 | 1,826,336 | 6,140.038 | 20.5405 | 58 | 5,881.6 | 74,316.2 | 2,681.377 | 11.6354 |
| 4 | 81,060 | 1,741,550 | 6,065.406 | 20.4846 | 59 | 5,529.2 | 68,434.6 | 2,582.222 | 11.3770 |
| 5 | 77,515 | 1,660,489 | 6,010.839 | 20.4215 | 60 | 5,191.3 | 62,905.5 | 2,482.417 | 11.1176 |
| 6 | 74,130 | 1,582,974 | 5,963.998 | 20.3539 | 61 | 4,867.5 | 57,714.2 | 2,382.203 | 10.8570 |
| 7 | 70,901 | 1,508,844 | 5,926.521 | 20.2811 | 62 | 4,557.2 | 52,846.7 | 2,281.539 | 10.5962 |
| 8 | 67,817 | 1,437,943 | 5,895.581 | 20.2034 | 63 | 4,259.9 | 48,289.5 | 2,180.400 | 10.3360 |
| 9 | 64,871 | 1,370,127 | 5,870.011 | 20.1209 | 64 | 3,974.9 | 44,029.6 | 2,078.893 | 10.0769 |
| 10 | 62,055 | 1,305,256 | 5,847.473 | 20.0340 | 65 | 3,702.1 | 40,054.7 | 1,977.295 | 9.8193 |
| 11 | 59,362 | 1,243,201 | 5,827.139 | 19.9427 | 66 | 3,441.9 | 36,352.6 | 1,876.460 | 9.5618 |
| 12 | 56,787 | 1,183,839 | 5,808.269 | 19.8470 | 67 | 3,194.1 | 32,910.7 | 1,776.875 | 9.3036 |
| 13 | 54,321 | 1,127,052 | 5,787.956 | 19.7479 | 68 | 2,958.3 | 29,716.6 | 1,678.622 | 9.0452 |
| 14 | 51,959 | 1,072,731 | 5,764.737 | 19.6458 | 69 | 2,733.6 | 26,758.3 | 1,581.289 | 8.7888 |
| 15 | 49,694 | 1,020,772 | 5,737.351 | 19.5411 | 70 | 2,518.9 | 24,024.8 | 1,484.384 | 8.5376 |
| 16 | 47,522 | 971,078 | 5,705.210 | 19.4343 | 71 | 2,313.4 | 21,505.8 | 1,387.347 | 8.2961 |
| 17 | 45,439 | 923,556 | 5,668.302 | 19.3253 | 72 | 2,116.9 | 19,192.4 | 1,290.410 | 8.0664 |
| 18 | 43,441 | 878,117 | 5,627.550 | 19.2139 | 73 | 1,930.8 | 17,075.5 | 1,194.712 | 7.8473 |
| 19 | 41,527 | 834,676 | 5,583.787 | 19.0997 | 74 | 1,754.4 | 15,145.5 | 1,102.210 | 7.6328 |
| 20 | 39,693 | 793,149 | 5,538.591 | 18.9819 | 75 | 1,591.1 | 13,351.1 | 1,014.429 | 7.4164 |
| 21 | 37,937 | 753,456 | 5,491.373 | 18.8608 | 76 | 1,439.9 | 11,800.0 | 931.732 | 7.1952 |
| 22 | 36,254 | 715,519 | 5,442.012 | 18.7364 | 77 | 1,299.7 | 10,360.1 | 853.608 | 6.9709 |
| 23 | 34,642 | 679,265 | 5,391.143 | 18.6083 | 78 | 1,170.0 | 9,060.4 | 779.817 | 6.7441 |
| 24 | 33,098 | 644,623 | 5,339.335 | 18.4761 | 79 | 1,049.8 | 7,890.4 | 710.068 | 6.5158 |
| 25 | 31,621 | 611,525 | 5,287.429 | 18.3392 | 80 | 938.69 | 6,840.57 | 644.121 | 6.2874 |
| 26 | 30,207 | 579,904 | 5,235.529 | 18.1974 | 81 | 836.24 | 5,901.88 | 582.088 | 6.0577 |
| 27 | 28,854 | 549,697 | 5,182.818 | 18.0510 | 82 | 742.22 | 5,065.65 | 524.080 | 5.8250 |
| 28 | 27,558 | 520,843 | 5,129.752 | 17.8996 | 83 | 656.25 | 4,323.43 | 470.073 | 5.5881 |
| 29 | 26,317 | 493,284 | 5,075.344 | 17.7438 | 84 | 577.87 | 3,667.18 | 419.953 | 5.3460 |
| 30 | 25,128 | 466,967 | 5,019.808 | 17.5832 | 85 | 506.61 | 3,089.31 | 373.580 | 5.0980 |
| 31 | 23,989 | 441,839 | 4,962.831 | 17.4181 | 86 | 441.22 | 2,582.70 | 329.999 | 4.8536 |
| 32 | 22,898 | 417,849 | 4,904.640 | 17.2482 | 87 | 381.38 | 2,141.48 | 289.163 | 4.6151 |
| 33 | 21,852 | 394,951 | 4,844.509 | 17.0739 | 88 | 326.77 | 1,760.10 | 250.979 | 4.3863 |
| 34 | 20,848 | 373,099 | 4,781.595 | 16.8961 | 89 | 277.16 | 1,433.33 | 215.435 | 4.1715 |
| 35 | 19,884 | 352,251 | 4,715.604 | 16.7150 | 90 | 232.41 | 1,156.17 | 182.620 | 3.9748 |
| 36 | 18,959 | 332,367 | 4,646.510 | 16.5309 | 91 | 192.36 | 923.77 | 152.584 | 3.8022 |
| 37 | 18,071 | 313,408 | 4,574.701 | 16.3434 | 92 | 157.03 | 731.40 | 125.532 | 3.6578 |
| 38 | 17,218 | 295,337 | 4,500.164 | 16.1528 | 93 | 126.53 | 574.37 | 101.797 | 3.5394 |
| 39 | 16,400 | 278,119 | 4,423.087 | 15.9590 | 94 | 100.86 | 447.84 | 81.574 | 3.4403 |
| 40 | 15,614 | 261,720 | 4,343.828 | 15.7618 | 95 | 79.684 | 346.983 | 64.743 | 3.3545 |
| 41 | 14,860 | 246,106 | 4,262.553 | 15.5612 | 96 | 62.353 | 267.298 | 50.842 | 3.2869 |
| 42 | 14,138 | 231,245 | 4,179.739 | 15.3567 | 97 | 48.506 | 204.945 | 39.681 | 3.2251 |
| 43 | 13,444 | 217,107 | 4,095.369 | 15.1484 | 98 | 37.517 | 156.439 | 30.780 | 3.1698 |
| 44 | 12,779 | 203,663 | 4,009.154 | 14.9369 | 99 | 28.857 | 118.922 | 23.736 | 3.1211 |
| 45 | 12,141 | 190,884 | 3,921.133 | 14.7222 | 100 | 22.099 | 90.065 | 18.220 | 3.0756 |
| 46 | 11,528 | 178,743 | 3,831.357 | 14.5045 | 101 | 16.843 | 67.967 | 13.916 | 3.0354 |
| 47 | 10,941 | 167,214 | 3,740.015 | 14.2838 | 102 | 12.784 | 51.124 | 10.582 | 2.9991 |
| 48 | 10,377 | 156,274 | 3,647.286 | 14.0599 | 103 | 9.6664 | 38.3401 | 8.0154 | 2.9663 |
| 49 | 9,836.2 | 145,896.8 | 3,553.576 | 13.8326 | 104 | 7.2768 | 28.6737 | 6.0420 | 2.9404 |
| 50 | 9,318.2 | 136,060.6 | 3,459.140 | 13.6016 | 105 | 5.4684 | 21.3970 | 4.5470 | 2.9128 |
| 51 | 8,821.7 | 126,742.4 | 3,363.898 | 13.3671 | 106 | 4.0941 | 15.9285 | 3.4082 | 2.8906 |
| 52 | 8,345.8 | 117,920.7 | 3,267.891 | 13.1293 | 107 | 3.0622 | 11.8344 | 2.5526 | 2.8646 |
| 53 | 7,889.7 | 109,574.9 | 3,171.168 | 12.8883 | 108 | 2.2839 | 8.7722 | 1.9062 | 2.8408 |
| 54 | 7,452.6 | 101,685.2 | 3,073.782 | 12.6443 | 109 | 1.6989 | 6.4882 | 1.4195 | 2.8189 |

TABLE 6C. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,934,712 | 7,870.875 | 18.3471 | 55 | 5,409.9 | 69,183.4 | 2,115.434 | 11.7883 |
| 1 | 92,453 | 1,834,712 | 5,086.113 | 18.8447 | 56 | 5,077.2 | 63,773.5 | 2,040.405 | 11.5607 |
| 2 | 87,878 | 1,742,258 | 4,913.777 | 18.8258 | 57 | 4,760.7 | 58,656.2 | 1,965.602 | 11.3294 |
| 3 | 83,581 | 1,654,380 | 4,800.615 | 18.7938 | 58 | 4,459.2 | 53,935.6 | 1,890.879 | 11.0952 |
| 4 | 79,527 | 1,570,799 | 4,727.394 | 18.7517 | 59 | 4,172.1 | 49,476.3 | 1,816.060 | 10.8589 |
| 5 | 75,687 | 1,491,272 | 4,674.114 | 18.7031 | 60 | 3,898.5 | 45,304.3 | 1,741.111 | 10.6211 |
| 6 | 72,037 | 1,415,585 | 4,628.595 | 18.6507 | 61 | 3,637.9 | 41,405.8 | 1,666.212 | 10.3817 |
| 7 | 68,571 | 1,343,547 | 4,592.350 | 18.5936 | 62 | 3,389.8 | 37,767.9 | 1,591.335 | 10.1416 |
| 8 | 65,276 | 1,274,977 | 4,562.569 | 18.5322 | 63 | 3,153.5 | 34,378.1 | 1,516.463 | 9.9015 |
| 9 | 62,143 | 1,209,701 | 4,538.074 | 18.4664 | 64 | 2,928.6 | 31,224.6 | 1,441.676 | 9.6621 |
| 10 | 59,162 | 1,147,558 | 4,516.587 | 18.3968 | 65 | 2,714.6 | 28,296.0 | 1,367.179 | 9.4236 |
| 11 | 56,326 | 1,088,396 | 4,497.293 | 18.3233 | 66 | 2,511.8 | 25,581.4 | 1,293.593 | 9.1847 |
| 12 | 53,626 | 1,032,070 | 4,479.474 | 18.2458 | 67 | 2,319.8 | 23,069.6 | 1,221.267 | 8.9446 |
| 13 | 51,053 | 978,444 | 4,460.382 | 18.1653 | 68 | 2,138.3 | 20,749.8 | 1,150.246 | 8.7037 |
| 14 | 48,600 | 927,391 | 4,438.665 | 18.0821 | 69 | 1,966.5 | 18,611.5 | 1,080.226 | 8.4643 |
| 15 | 46,260 | 878,791 | 4,413.171 | 17.9966 | 70 | 1,803.5 | 16,645.0 | 1,010.846 | 8.2295 |
| 16 | 44,028 | 832,531 | 4,383.393 | 17.9092 | 71 | 1,648.4 | 14,841.5 | 941.702 | 8.0034 |
| 17 | 41,897 | 788,503 | 4,349.362 | 17.8200 | 72 | 1,501.2 | 13,153.1 | 872.958 | 7.7884 |
| 18 | 39,865 | 746,606 | 4,311.965 | 17.7285 | 73 | 1,362.2 | 11,691.9 | 805.416 | 7.5833 |
| 19 | 37,926 | 706,741 | 4,271.996 | 17.6346 | 74 | 1,232.3 | 10,329.7 | 740.441 | 7.3823 |
| 20 | 36,079 | 668,815 | 4,230.915 | 17.5374 | 75 | 1,112.3 | 9,097.4 | 679.075 | 7.1790 |
| 21 | 34,318 | 632,736 | 4,188.201 | 17.4372 | 76 | 1,001.8 | 7,985.1 | 621.539 | 6.9709 |
| 22 | 32,640 | 598,417 | 4,143.761 | 17.3340 | 77 | 899.98 | 6,983.33 | 567.444 | 6.7594 |
| 23 | 31,040 | 565,778 | 4,098.181 | 17.2274 | 78 | 806.27 | 6,083.34 | 516.591 | 6.5450 |
| 24 | 29,516 | 534,738 | 4,051.981 | 17.1171 | 79 | 720.04 | 5,277.07 | 468.754 | 6.3288 |
| 25 | 28,064 | 505,222 | 4,005.913 | 17.0024 | 80 | 640.74 | 4,557.03 | 423.739 | 6.1121 |
| 26 | 26,682 | 477,158 | 3,960.071 | 16.8832 | 81 | 568.09 | 3,916.29 | 381.598 | 5.8938 |
| 27 | 25,365 | 450,476 | 3,913.733 | 16.7598 | 82 | 501.82 | 3,348.20 | 342.378 | 5.6722 |
| 28 | 24,111 | 425,111 | 3,867.306 | 16.6316 | 83 | 441.58 | 2,846.38 | 306.038 | 5.4459 |
| 29 | 22,915 | 401,000 | 3,819.932 | 16.4993 | 84 | 386.99 | 2,404.80 | 272.473 | 5.2142 |
| 30 | 21,776 | 378,085 | 3,771.805 | 16.3626 | 85 | 337.65 | 2,017.81 | 241.566 | 4.9760 |
| 31 | 20,690 | 356,309 | 3,722.665 | 16.2215 | 86 | 292.67 | 1,680.16 | 212.658 | 4.7409 |
| 32 | 19,655 | 335,619 | 3,672.717 | 16.0759 | 87 | 251.77 | 1,387.50 | 185.700 | 4.5109 |
| 33 | 18,667 | 315,965 | 3,621.350 | 15.9261 | 88 | 214.69 | 1,135.72 | 160.613 | 4.2899 |
| 34 | 17,725 | 297,298 | 3,567.860 | 15.7729 | 89 | 181.23 | 921.03 | 137.371 | 4.0821 |
| 35 | 16,825 | 279,573 | 3,512.022 | 15.6165 | 90 | 151.24 | 739.80 | 116.016 | 3.8914 |
| 36 | 15,966 | 262,748 | 3,453.837 | 15.4571 | 91 | 124.59 | 588.56 | 96.562 | 3.7240 |
| 37 | 15,145 | 246,782 | 3,393.653 | 15.2944 | 92 | 101.22 | 463.97 | 79.125 | 3.5838 |
| 38 | 14,362 | 231,637 | 3,331.481 | 15.1287 | 93 | 81.172 | 362.749 | 63.899 | 3.4689 |
| 39 | 13,614 | 217,275 | 3,267.497 | 14.9598 | 94 | 64.395 | 281.577 | 50.987 | 3.3726 |
| 40 | 12,900 | 203,661 | 3,202.014 | 14.7875 | 95 | 50.633 | 217.182 | 40.291 | 3.2893 |
| 41 | 12,219 | 190,761 | 3,135.184 | 14.6118 | 96 | 39.432 | 166.548 | 31.501 | 3.2237 |
| 42 | 11,569 | 178,542 | 3,067.415 | 14.4322 | 97 | 30.529 | 127.116 | 24.476 | 3.1637 |
| 43 | 10,950 | 166,973 | 2,998.700 | 14.2489 | 98 | 23.500 | 96.587 | 18.901 | 3.1100 |
| 44 | 10,358 | 156,023 | 2,928.817 | 14.0623 | 99 | 17.990 | 73.087 | 14.509 | 3.0627 |
| 45 | 9,794.2 | 145,664.3 | 2,857.810 | 13.8725 | 100 | 13.711 | 55.097 | 11.087 | 3.0185 |
| 46 | 9,255.7 | 135,870.1 | 2,785.732 | 13.6796 | 101 | 10.400 | 41.386 | 8.429 | 2.9794 |
| 47 | 8,742.0 | 126,614.3 | 2,712.746 | 13.4835 | 102 | 7.8562 | 30.9861 | 6.3807 | 2.9441 |
| 48 | 8,252.0 | 117,872.3 | 2,639.005 | 13.2841 | 103 | 5.9121 | 23.1299 | 4.8107 | 2.9123 |
| 49 | 7,784.9 | 109,620.4 | 2,564.838 | 13.0812 | 104 | 4.4294 | 17.2177 | 3.6095 | 2.8871 |
| 50 | 7,339.8 | 101,835.5 | 2,490.454 | 12.8745 | 105 | 3.3128 | 12.7883 | 2.7039 | 2.8603 |
| 51 | 6,915.6 | 94,495.7 | 2,415.791 | 12.6642 | 106 | 2.4684 | 9.4755 | 2.0172 | 2.8387 |
| 52 | 6,511.4 | 87,580.2 | 2,340.886 | 12.4503 | 107 | 1.8375 | 7.0071 | 1.5038 | 2.8134 |
| 53 | 6,126.2 | 81,068.8 | 2,265.782 | 12.2331 | 108 | 1.3640 | 5.1696 | 1.1178 | 2.7901 |
| 54 | 5,759.2 | 74,942.6 | 2,190.524 | 12.0126 | 109 | 1.0097 | 3.8056 | .8285 | 2.7687 |

TABLE 61. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 5.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,786,675 | 6,855.830 | 16.8667 | 55 | 4,165.9 | 50,947.6 | 1,509.913 | 11.2295 |
| 1 | 92,015 | 1,686,675 | 4,884.266 | 17.3304 | 56 | 3,891.3 | 46,781.6 | 1,452.410 | 11.0222 |
| 2 | 87,047 | 1,594,659 | 3,913.561 | 17.3194 | 57 | 3,631.3 | 42,890.4 | 1,395.352 | 10.8112 |
| 3 | 82,398 | 1,507,612 | 3,801.999 | 17.2967 | 58 | 3,385.3 | 39,259.0 | 1,338.624 | 10.5969 |
| 4 | 78,030 | 1,425,214 | 3,730.157 | 17.2649 | 59 | 3,152.3 | 35,873.7 | 1,282.094 | 10.3802 |
| 5 | 73,910 | 1,347,184 | 3,678.128 | 17.2272 | 60 | 2,931.6 | 32,721.4 | 1,225.733 | 10.1617 |
| 6 | 70,013 | 1,273,273 | 3,633.888 | 17.1862 | 61 | 2,722.7 | 29,789.8 | 1,169.677 | 9.9413 |
| 7 | 66,328 | 1,203,260 | 3,598.828 | 17.1411 | 62 | 2,525.0 | 27,067.1 | 1,113.903 | 9.7197 |
| 8 | 62,841 | 1,136,932 | 3,570.152 | 17.0921 | 63 | 2,337.8 | 24,542.1 | 1,058.396 | 9.4978 |
| 9 | 59,542 | 1,074,091 | 3,546.688 | 17.0392 | 64 | 2,160.8 | 22,204.3 | 1,003.217 | 9.2760 |
| 10 | 56,417 | 1,014,549 | 3,526.198 | 16.9829 | 65 | 1,993.4 | 20,043.5 | 948.511 | 9.0548 |
| 11 | 53,458 | 958,131 | 3,507.886 | 16.9231 | 66 | 1,835.7 | 18,050.1 | 894.730 | 8.8326 |
| 12 | 50,654 | 904,673 | 3,491.055 | 16.8598 | 67 | 1,687.4 | 16,214.4 | 842.120 | 8.6090 |
| 13 | 47,995 | 854,019 | 3,473.106 | 16.7938 | 68 | 1,548.0 | 14,526.9 | 790.705 | 8.3841 |
| 14 | 45,473 | 806,024 | 3,452.786 | 16.7253 | 69 | 1,416.9 | 12,978.9 | 740.255 | 8.1602 |
| 15 | 43,079 | 760,551 | 3,429.045 | 16.6550 | 70 | 1,293.3 | 11,562.0 | 690.503 | 7.9402 |
| 16 | 40,805 | 717,472 | 3,401.448 | 16.5829 | 71 | 1,176.5 | 10,268.8 | 641.154 | 7.7283 |
| 17 | 38,647 | 676,667 | 3,370.057 | 16.5091 | 72 | 1,066.3 | 9,092.3 | 592.325 | 7.5267 |
| 18 | 36,597 | 638,021 | 3,335.725 | 16.4335 | 73 | 962.99 | 8,025.94 | 544.576 | 7.3344 |
| 19 | 34,653 | 601,423 | 3,299.205 | 16.3556 | 74 | 867.07 | 7,062.95 | 498.859 | 7.1458 |
| 20 | 32,809 | 566,770 | 3,261.848 | 16.2748 | 75 | 778.89 | 6,195.88 | 455.887 | 6.9547 |
| 21 | 31,060 | 533,961 | 3,223.189 | 16.1913 | 76 | 698.19 | 5,416.98 | 415.787 | 6.7586 |
| 22 | 29,401 | 502,901 | 3,183.159 | 16.1050 | 77 | 624.27 | 4,718.79 | 378.264 | 6.5589 |
| 23 | 27,827 | 473,500 | 3,142.297 | 16.0158 | 78 | 556.62 | 4,094.53 | 343.158 | 6.3561 |
| 24 | 26,335 | 445,673 | 3,101.075 | 15.9231 | 79 | 494.73 | 3,537.91 | 310.290 | 6.1512 |
| 25 | 24,921 | 419,338 | 3,060.167 | 15.8264 | 80 | 438.16 | 3,043.18 | 279.507 | 5.9454 |
| 26 | 23,582 | 394,416 | 3,019.651 | 15.7256 | 81 | 386.63 | 2,605.02 | 250.826 | 5.7377 |
| 27 | 22,312 | 370,835 | 2,978.891 | 15.6208 | 82 | 339.91 | 2,218.39 | 224.261 | 5.5264 |
| 28 | 21,108 | 348,523 | 2,938.247 | 15.5117 | 83 | 297.69 | 1,878.48 | 199.762 | 5.3101 |
| 29 | 19,966 | 327,416 | 2,896.969 | 15.3986 | 84 | 259.65 | 1,580.79 | 177.241 | 5.0821 |
| 30 | 18,883 | 307,450 | 2,855.235 | 15.2815 | 85 | 225.48 | 1,321.33 | 156.602 | 4.8593 |
| 31 | 17,857 | 288,566 | 2,812.824 | 15.1602 | 86 | 194.51 | 1,095.66 | 137.390 | 4.6329 |
| 32 | 16,883 | 270,710 | 2,769.920 | 15.0347 | 87 | 166.54 | 901.15 | 119.558 | 4.4111 |
| 33 | 15,959 | 253,827 | 2,726.006 | 14.9052 | 88 | 141.34 | 734.61 | 103.042 | 4.1975 |
| 34 | 15,081 | 237,868 | 2,680.495 | 14.7725 | 89 | 118.74 | 593.27 | 87.814 | 3.9963 |
| 35 | 14,248 | 222,787 | 2,633.211 | 14.6367 | 90 | 98.627 | 474.529 | 73.888 | 3.8114 |
| 36 | 13,456 | 208,539 | 2,584.172 | 14.4980 | 91 | 80.860 | 375.903 | 61.263 | 3.6488 |
| 37 | 12,704 | 195,083 | 2,533.689 | 14.3562 | 92 | 65.381 | 295.043 | 49.999 | 3.5127 |
| 38 | 11,990 | 182,379 | 2,481.786 | 14.2113 | 93 | 52.184 | 220.662 | 40.211 | 3.4010 |
| 39 | 11,311 | 170,390 | 2,428.622 | 14.0634 | 94 | 41.202 | 177.479 | 31.949 | 3.3075 |
| 40 | 10,668 | 159,078 | 2,374.472 | 13.9122 | 95 | 32.243 | 136.277 | 25.139 | 3.2265 |
| 41 | 10,057 | 148,411 | 2,319.470 | 13.7577 | 96 | 24.991 | 104.034 | 19.567 | 3.1628 |
| 42 | 9,476.7 | 138,354.1 | 2,263.959 | 13.5993 | 97 | 19.257 | 79.043 | 15.136 | 3.1046 |
| 43 | 8,926.7 | 128,877.3 | 2,207.940 | 13.4373 | 98 | 14.753 | 59.786 | 11.636 | 3.0524 |
| 44 | 8,404.6 | 119,950.7 | 2,151.239 | 13.2720 | 99 | 11.240 | 45.033 | 8.892 | 3.0064 |
| 45 | 7,909.1 | 111,546.1 | 2,093.899 | 13.1035 | 100 | 8.5261 | 33.7926 | 6.7644 | 2.9634 |
| 46 | 7,438.8 | 103,637.0 | 2,035.970 | 12.9319 | 101 | 6.4366 | 25.2665 | 5.1194 | 2.9254 |
| 47 | 6,992.7 | 96,198.1 | 1,977.588 | 12.7570 | 102 | 4.8392 | 18.8299 | 3.8575 | 2.8911 |
| 48 | 6,569.4 | 89,205.5 | 1,918.883 | 12.5789 | 103 | 3.6244 | 13.9907 | 2.8951 | 2.8601 |
| 49 | 6,168.2 | 82,636.1 | 1,860.119 | 12.3972 | 104 | 2.7026 | 10.3663 | 2.1621 | 2.8357 |
| 50 | 5,787.9 | 76,467.9 | 1,801.461 | 12.2116 | 105 | 2.0117 | 7.6637 | 1.6122 | 2.8095 |
| 51 | 5,427.6 | 70,680.0 | 1,742.863 | 12.0223 | 106 | 1.4919 | 5.6520 | 1.1972 | 2.7886 |
| 52 | 5,086.1 | 65,252.4 | 1,684.354 | 11.8295 | 107 | 1.1053 | 4.1601 | .8884 | 2.7659 |
| 53 | 4,762.6 | 60,166.2 | 1,625.967 | 11.6331 | 108 | .81654 | 3.05487 | .65728 | 2.7412 |
| 54 | 4,456.1 | 55,403.6 | 1,567.737 | 11.4333 | 109 | .60165 | 2.23833 | .48496 | 2.7203 |

TABLE 62. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 6 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|-----------|---------|
| 0 | 100,000 | 1,659,118 | 6,087.646 | 15.5912 | 55 | 3,212.0 | 37,628.9 | 1,082.072 | 10.7151 |
| 1 | 91,581 | 1,559,118 | 3,329.156 | 16.0244 | 56 | 2,986.1 | 34,416.8 | 1,037.945 | 10.5258 |
| 2 | 86,228 | 1,467,537 | 3,160.056 | 16.0192 | 57 | 2,773.5 | 31,430.8 | 994.367 | 10.3327 |
| 3 | 81,237 | 1,381,309 | 3,050.066 | 16.0034 | 58 | 2,573.4 | 28,657.3 | 951.245 | 10.1362 |
| 4 | 76,569 | 1,300,072 | 2,979.570 | 15.9792 | 59 | 2,384.9 | 26,084.0 | 908.476 | 9.9370 |
| 5 | 72,184 | 1,223,503 | 2,928.756 | 15.9499 | 60 | 2,207.5 | 23,699.0 | 866.036 | 9.7357 |
| 6 | 68,055 | 1,151,319 | 2,885.754 | 15.9175 | 61 | 2,040.5 | 21,491.5 | 824.025 | 9.5323 |
| 7 | 64,169 | 1,083,265 | 2,851.836 | 15.8815 | 62 | 1,883.4 | 19,451.0 | 782.422 | 9.3275 |
| 8 | 60,509 | 1,019,096 | 2,824.230 | 15.8421 | 63 | 1,735.6 | 17,567.6 | 741.214 | 9.1219 |
| 9 | 57,061 | 958,587 | 2,801.737 | 15.7992 | 64 | 1,596.6 | 15,832.0 | 700.442 | 8.9161 |
| 10 | 53,812 | 901,526 | 2,782.194 | 15.7533 | 65 | 1,466.0 | 14,235.4 | 660.211 | 8.7104 |
| 11 | 50,749 | 847,714 | 2,764.810 | 15.7042 | 66 | 1,343.6 | 12,769.4 | 620.847 | 8.5036 |
| 12 | 47,860 | 796,965 | 2,748.907 | 15.6520 | 67 | 1,229.3 | 11,425.8 | 582.521 | 8.2948 |
| 13 | 45,134 | 749,105 | 2,732.028 | 15.5973 | 68 | 1,122.4 | 10,196.5 | 545.243 | 8.0845 |
| 14 | 42,560 | 703,971 | 2,713.009 | 15.5405 | 69 | 1,022.5 | 9,074.1 | 508.837 | 7.8747 |
| 15 | 40,129 | 661,410 | 2,690.894 | 15.4820 | 70 | 928.86 | 8,051.63 | 473.103 | 7.6683 |
| 16 | 37,832 | 621,281 | 2,665.307 | 15.4220 | 71 | 841.00 | 7,122.77 | 437.827 | 7.4694 |
| 17 | 35,662 | 583,449 | 2,636.341 | 15.3606 | 72 | 758.66 | 6,281.77 | 403.086 | 7.2801 |
| 18 | 33,612 | 547,787 | 2,604.810 | 15.2975 | 73 | 681.90 | 5,523.11 | 369.275 | 7.0995 |
| 19 | 31,676 | 514,176 | 2,571.428 | 15.2325 | 74 | 611.09 | 4,841.21 | 337.055 | 6.9223 |
| 20 | 29,849 | 482,500 | 2,537.441 | 15.1648 | 75 | 546.35 | 4,230.12 | 306.912 | 6.7425 |
| 21 | 28,124 | 452,651 | 2,502.437 | 15.0947 | 76 | 487.43 | 3,683.77 | 278.917 | 6.5575 |
| 22 | 26,496 | 424,527 | 2,466.361 | 15.0222 | 77 | 433.77 | 3,196.34 | 252.844 | 6.3687 |
| 23 | 24,960 | 398,031 | 2,429.710 | 14.9469 | 78 | 384.94 | 2,762.57 | 228.566 | 6.1767 |
| 24 | 23,510 | 373,071 | 2,392.910 | 14.8685 | 79 | 340.53 | 2,377.63 | 205.943 | 5.9822 |
| 25 | 22,143 | 349,561 | 2,356.562 | 14.7865 | 80 | 300.16 | 2,037.10 | 184.855 | 5.7867 |
| 26 | 20,854 | 327,418 | 2,320.733 | 14.7006 | 81 | 263.62 | 1,736.94 | 165.300 | 5.5889 |
| 27 | 19,638 | 306,564 | 2,284.858 | 14.6111 | 82 | 230.67 | 1,473.32 | 147.272 | 5.3872 |
| 28 | 18,490 | 286,926 | 2,249.254 | 14.5176 | 83 | 201.06 | 1,242.66 | 130.725 | 5.1804 |
| 29 | 17,408 | 268,436 | 2,213.265 | 14.4205 | 84 | 174.54 | 1,041.59 | 115.586 | 4.9675 |
| 30 | 16,386 | 251,028 | 2,177.050 | 14.3195 | 85 | 150.86 | 867.05 | 101.778 | 4.7475 |
| 31 | 15,422 | 234,642 | 2,140.421 | 14.2147 | 86 | 129.52 | 716.19 | 88.984 | 4.5295 |
| 32 | 14,512 | 219,220 | 2,103.541 | 14.1059 | 87 | 110.37 | 586.67 | 77.166 | 4.3153 |
| 33 | 13,653 | 204,708 | 2,065.972 | 13.9934 | 88 | 93.232 | 476.296 | 66.272 | 4.1087 |
| 34 | 12,842 | 191,055 | 2,027.218 | 13.8778 | 89 | 77.957 | 383.064 | 56.274 | 3.9138 |
| 35 | 12,075 | 178,213 | 1,987.146 | 13.7592 | 90 | 64.445 | 305.107 | 47.175 | 3.7344 |
| 36 | 11,350 | 166,138 | 1,945.782 | 13.6379 | 91 | 52.586 | 240.663 | 38.964 | 3.5765 |
| 37 | 10,665 | 154,788 | 1,903.402 | 13.5137 | 92 | 42.319 | 188.077 | 31.673 | 3.4442 |
| 38 | 10,018 | 144,123 | 1,860.034 | 13.3865 | 93 | 33.618 | 145.757 | 25.367 | 3.3357 |
| 39 | 9,406.7 | 134,105.5 | 1,815.823 | 13.2564 | 94 | 26.418 | 112.140 | 20.070 | 3.2449 |
| 40 | 8,829.4 | 124,698.8 | 1,771.004 | 13.1231 | 95 | 20.576 | 85.722 | 15.724 | 3.1661 |
| 41 | 8,284.3 | 115,869.4 | 1,725.695 | 12.9866 | 96 | 15.873 | 65.146 | 12.185 | 3.1042 |
| 42 | 7,769.9 | 107,585.0 | 1,680.181 | 12.8464 | 97 | 12.173 | 49.273 | 9.384 | 3.0476 |
| 43 | 7,284.4 | 99,815.1 | 1,634.469 | 12.7026 | 98 | 9.2821 | 37.0995 | 7.1822 | 2.9969 |
| 44 | 6,826.0 | 92,530.8 | 1,588.417 | 12.5556 | 99 | 7.0385 | 27.8174 | 5.4639 | 2.9522 |
| 45 | 6,393.3 | 85,704.8 | 1,542.067 | 12.4054 | 100 | 5.3138 | 20.7789 | 4.1377 | 2.9103 |
| 46 | 5,984.8 | 79,311.5 | 1,495.461 | 12.2522 | 101 | 3.9927 | 15.4650 | 3.1173 | 2.8734 |
| 47 | 5,599.3 | 73,326.7 | 1,448.713 | 12.0957 | 102 | 2.9876 | 11.4724 | 2.3382 | 2.8400 |
| 48 | 5,235.6 | 67,727.4 | 1,401.927 | 11.9361 | 103 | 2.2271 | 8.4847 | 1.7468 | 2.8098 |
| 49 | 4,892.6 | 62,491.9 | 1,355.315 | 11.7728 | 104 | 1.6528 | 6.2577 | 1.2986 | 2.7861 |
| 50 | 4,569.3 | 57,599.3 | 1,309.007 | 11.6056 | 105 | 1.2245 | 4.6048 | .9638 | 2.7606 |
| 51 | 4,264.7 | 53,029.9 | 1,262.964 | 11.4347 | 106 | .90378 | 3.38034 | .71244 | 2.7402 |
| 52 | 3,977.5 | 48,765.3 | 1,217.209 | 11.2603 | 107 | .66642 | 2.47655 | .52624 | 2.7162 |
| 53 | 3,706.9 | 44,787.8 | 1,171.764 | 11.0822 | 108 | .49001 | 1.81012 | .38755 | 2.6940 |
| 54 | 3,452.0 | 41,080.8 | 1,126.655 | 10.9006 | 109 | .35935 | 1.32011 | .28463 | 2.6735 |

TABLE 63. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 6.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|---------|
| 0 | 100,000 | 1,548,351 | 5,499.692 | 14.4835 | 55 | 2,479.5 | 27,870.9 | 778.497 | 10.2404 |
| 1 | 91,151 | 1,448,351 | 2,754.152 | 14.8896 | 56 | 2,294.3 | 25,391.4 | 744.593 | 10.0671 |
| 2 | 85,420 | 1,357,200 | 2,586.637 | 14.8885 | 57 | 2,120.9 | 23,097.1 | 711.267 | 9.8900 |
| 3 | 80,099 | 1,271,780 | 2,478.189 | 14.8777 | 58 | 1,958.7 | 20,976.1 | 678.446 | 9.7093 |
| 4 | 75,141 | 1,191,681 | 2,409.007 | 14.8593 | 59 | 1,806.7 | 19,017.4 | 646.045 | 9.5259 |
| 5 | 70,505 | 1,116,540 | 2,359.375 | 14.8363 | 60 | 1,664.5 | 17,210.7 | 614.045 | 9.3401 |
| 6 | 66,160 | 1,046,035 | 2,317.570 | 14.8107 | 61 | 1,531.3 | 15,546.2 | 582.517 | 9.1520 |
| 7 | 62,089 | 979,875 | 2,284.751 | 14.7817 | 62 | 1,406.8 | 14,014.9 | 551.442 | 8.9622 |
| 8 | 58,273 | 917,786 | 2,258.165 | 14.7497 | 63 | 1,290.3 | 12,668.1 | 520.807 | 8.7713 |
| 9 | 54,695 | 859,513 | 2,236.605 | 14.7146 | 64 | 1,181.4 | 11,317.8 | 490.638 | 8.5800 |
| 10 | 51,338 | 804,817 | 2,217.960 | 14.6768 | 65 | 1,079.7 | 10,136.4 | 461.009 | 8.3885 |
| 11 | 48,188 | 753,479 | 2,201.453 | 14.6361 | 66 | 984.91 | 9,056.70 | 432.154 | 8.1955 |
| 12 | 45,232 | 705,291 | 2,186.423 | 14.5926 | 67 | 896.84 | 8,071.79 | 404.193 | 8.0003 |
| 13 | 42,456 | 660,058 | 2,170.546 | 14.5470 | 68 | 815.03 | 7,174.96 | 377.123 | 7.8033 |
| 14 | 39,847 | 617,603 | 2,152.740 | 14.4994 | 69 | 738.98 | 6,359.92 | 350.811 | 7.6064 |
| 15 | 37,394 | 577,756 | 2,132.132 | 14.4504 | 70 | 668.17 | 5,620.95 | 325.106 | 7.4125 |
| 16 | 35,088 | 540,362 | 2,108.401 | 14.4001 | 71 | 602.13 | 4,952.78 | 299.850 | 7.2254 |
| 17 | 32,920 | 505,273 | 2,081.662 | 14.3485 | 72 | 540.63 | 4,350.65 | 275.093 | 7.0474 |
| 18 | 30,882 | 472,353 | 2,052.692 | 14.2955 | 73 | 483.65 | 3,810.02 | 251.112 | 6.8777 |
| 19 | 28,966 | 441,472 | 2,022.165 | 14.2408 | 74 | 431.39 | 3,326.37 | 228.367 | 6.7109 |
| 20 | 27,168 | 412,505 | 1,991.231 | 14.1837 | 75 | 383.88 | 2,894.99 | 207.188 | 6.5414 |
| 21 | 25,478 | 385,338 | 1,959.521 | 14.1245 | 76 | 340.87 | 2,511.11 | 187.611 | 6.3668 |
| 22 | 23,890 | 359,860 | 1,926.993 | 14.0630 | 77 | 301.92 | 2,170.24 | 169.463 | 6.1882 |
| 23 | 22,399 | 335,970 | 1,894.101 | 13.9991 | 78 | 266.67 | 1,868.32 | 152.644 | 6.0060 |
| 24 | 20,999 | 313,570 | 1,861.231 | 13.9324 | 79 | 234.80 | 1,601.65 | 137.044 | 5.8214 |
| 25 | 19,685 | 292,571 | 1,828.918 | 13.8624 | 80 | 206.00 | 1,366.85 | 122.572 | 5.6354 |
| 26 | 18,452 | 272,886 | 1,797.215 | 13.7888 | 81 | 180.07 | 1,160.86 | 109.215 | 5.4469 |
| 27 | 17,294 | 254,433 | 1,765.621 | 13.7119 | 82 | 156.82 | 980.79 | 96.959 | 5.2543 |
| 28 | 16,208 | 237,139 | 1,734.412 | 13.6313 | 83 | 136.05 | 823.97 | 85.762 | 5.0563 |
| 29 | 15,187 | 220,931 | 1,703.014 | 13.5473 | 84 | 117.55 | 687.92 | 75.567 | 4.8520 |
| 30 | 14,229 | 205,744 | 1,671.567 | 13.4598 | 85 | 101.12 | 570.37 | 66.310 | 4.6404 |
| 31 | 13,329 | 191,515 | 1,639.911 | 13.3687 | 86 | 86.414 | 469.246 | 57.775 | 4.4302 |
| 32 | 12,483 | 178,187 | 1,608.187 | 13.2739 | 87 | 73.292 | 382.832 | 49.927 | 4.2233 |
| 33 | 11,689 | 165,703 | 1,576.021 | 13.1756 | 88 | 61.619 | 309.540 | 42.727 | 4.0234 |
| 34 | 10,943 | 154,014 | 1,542.997 | 13.0743 | 89 | 51.281 | 247.921 | 36.150 | 3.8345 |
| 35 | 10,241 | 143,071 | 1,509.010 | 12.9704 | 90 | 42.194 | 196.639 | 30.193 | 3.6604 |
| 36 | 9,581.1 | 132,830.1 | 1,474.093 | 12.8638 | 91 | 34.268 | 154.445 | 24.842 | 3.5070 |
| 37 | 8,960.7 | 123,249.0 | 1,438.485 | 12.7544 | 92 | 27.448 | 120.177 | 20.113 | 3.3783 |
| 38 | 8,377.6 | 114,288.2 | 1,402.218 | 12.6422 | 93 | 21.702 | 92.729 | 16.042 | 3.2728 |
| 39 | 7,829.5 | 105,910.7 | 1,365.420 | 12.5272 | 94 | 16.974 | 71.027 | 12.639 | 3.1844 |
| 40 | 7,314.5 | 98,081.2 | 1,328.291 | 12.4092 | 95 | 13.159 | 54.053 | 9.860 | 3.1078 |
| 41 | 6,830.7 | 90,766.8 | 1,290.932 | 12.2881 | 96 | 10.103 | 40.894 | 7.607 | 3.0477 |
| 42 | 6,376.4 | 83,936.1 | 1,253.581 | 12.1635 | 97 | 7.7120 | 30.7910 | 5.8327 | 2.9926 |
| 43 | 5,949.9 | 77,559.6 | 1,216.243 | 12.0354 | 98 | 5.8528 | 23.0790 | 4.4442 | 2.9433 |
| 44 | 5,549.3 | 71,609.7 | 1,178.805 | 11.9042 | 99 | 4.4172 | 17.2263 | 3.3659 | 2.8998 |
| 45 | 5,173.2 | 66,060.4 | 1,141.300 | 11.7698 | 100 | 3.3192 | 12.8090 | 2.5374 | 2.8591 |
| 46 | 4,819.9 | 60,887.2 | 1,103.765 | 11.6325 | 101 | 2.4822 | 9.4898 | 1.9030 | 2.8231 |
| 47 | 4,488.2 | 56,067.3 | 1,066.293 | 11.4920 | 102 | 1.8487 | 7.0076 | 1.4210 | 2.7906 |
| 48 | 4,177.0 | 51,579.1 | 1,028.967 | 11.3484 | 103 | 1.3716 | 5.1589 | 1.0568 | 2.7612 |
| 49 | 3,885.0 | 47,402.1 | 991.954 | 11.2012 | 104 | 1.0132 | 3.7873 | .7820 | 2.7381 |
| 50 | 3,611.3 | 43,517.0 | 955.355 | 11.0502 | 105 | .74707 | 2.77412 | .57776 | 2.7133 |
| 51 | 3,354.7 | 39,905.7 | 919.137 | 10.8955 | 106 | .54882 | 2.02704 | .42510 | 2.6935 |
| 52 | 3,114.1 | 36,551.0 | 883.313 | 10.7372 | 107 | .40278 | 1.47822 | .31256 | 2.6700 |
| 53 | 2,888.6 | 33,436.9 | 847.900 | 10.5753 | 108 | .29477 | 1.07544 | .22913 | 2.6484 |
| 54 | 2,677.4 | 30,548.2 | 812.914 | 10.4098 | 109 | .21515 | .78066 | .16751 | 2.6283 |

TABLE 64. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 7 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,451,463 | 5,044.452 | 13.5146 | 55 | 1,916.4 | 20,700.1 | 562.212 | 9.8014 |
| 1 | 90,725 | 1,351,463 | 2,311.742 | 13.8962 | 56 | 1,765.0 | 18,783.6 | 536.130 | 9.6425 |
| 2 | 84,624 | 1,260,738 | 2,145.789 | 13.8981 | 57 | 1,624.0 | 17,018.7 | 510.613 | 9.4796 |
| 3 | 78,981 | 1,176,114 | 2,038.853 | 13.8911 | 58 | 1,492.7 | 15,364.7 | 485.600 | 9.3131 |
| 4 | 73,746 | 1,097,133 | 1,970.956 | 13.8772 | 59 | 1,370.5 | 13,902.0 | 461.022 | 9.1437 |
| 5 | 68,873 | 1,023,387 | 1,922.473 | 13.8590 | 60 | 1,256.7 | 12,531.5 | 436.862 | 8.9719 |
| 6 | 64,327 | 954,514 | 1,881.826 | 13.8385 | 61 | 1,150.8 | 11,274.8 | 413.170 | 8.7976 |
| 7 | 60,087 | 890,188 | 1,850.066 | 13.8151 | 62 | 1,052.2 | 10,124.0 | 389.927 | 8.6213 |
| 8 | 56,130 | 830,101 | 1,824.457 | 13.7889 | 63 | 960.60 | 9,071.77 | 367.120 | 8.4439 |
| 9 | 52,437 | 773,971 | 1,803.788 | 13.7599 | 64 | 875.40 | 8,111.17 | 344.765 | 8.2657 |
| 10 | 48,989 | 721,533 | 1,785.995 | 13.7284 | 65 | 796.28 | 7,235.77 | 322.912 | 8.0870 |
| 11 | 45,769 | 672,544 | 1,770.317 | 13.6945 | 66 | 723.01 | 6,439.49 | 301.731 | 7.9066 |
| 12 | 42,760 | 626,776 | 1,756.109 | 13.6579 | 67 | 655.28 | 5,716.49 | 281.301 | 7.7238 |
| 13 | 39,948 | 584,016 | 1,741.170 | 13.6195 | 68 | 592.72 | 5,061.21 | 261.615 | 7.5389 |
| 14 | 37,318 | 544,068 | 1,724.494 | 13.5793 | 69 | 534.90 | 4,468.49 | 242.569 | 7.3539 |
| 15 | 34,857 | 506,750 | 1,705.284 | 13.5379 | 70 | 481.39 | 3,933.59 | 224.049 | 7.1714 |
| 16 | 32,555 | 471,893 | 1,683.267 | 13.4954 | 71 | 431.78 | 3,452.20 | 205.938 | 6.9952 |
| 17 | 30,400 | 439,338 | 1,658.574 | 13.4518 | 72 | 385.87 | 3,020.42 | 188.269 | 6.8276 |
| 18 | 28,385 | 408,938 | 1,631.946 | 13.4069 | 73 | 343.59 | 2,634.55 | 171.232 | 6.6678 |
| 19 | 26,500 | 380,553 | 1,604.019 | 13.3605 | 74 | 305.03 | 2,290.97 | 155.150 | 6.5107 |
| 20 | 24,738 | 354,053 | 1,575.851 | 13.3120 | 75 | 270.17 | 1,985.94 | 140.244 | 6.3508 |
| 21 | 23,091 | 329,315 | 1,547.111 | 13.2616 | 76 | 238.78 | 1,715.77 | 126.530 | 6.1857 |
| 22 | 21,551 | 306,224 | 1,517.768 | 13.2092 | 77 | 210.50 | 1,477.00 | 113.878 | 6.0165 |
| 23 | 20,112 | 284,673 | 1,488.236 | 13.1546 | 78 | 185.06 | 1,266.49 | 102.206 | 5.8437 |
| 24 | 18,767 | 264,561 | 1,458.861 | 13.0974 | 79 | 162.18 | 1,081.43 | 91.431 | 5.6682 |
| 25 | 17,510 | 245,794 | 1,430.118 | 13.0373 | 80 | 141.62 | 919.25 | 81.481 | 5.4910 |
| 26 | 16,337 | 228,284 | 1,402.050 | 12.9738 | 81 | 123.21 | 777.63 | 72.341 | 5.3112 |
| 27 | 15,240 | 211,948 | 1,374.209 | 12.9074 | 82 | 106.81 | 654.42 | 63.994 | 5.1272 |
| 28 | 14,216 | 196,708 | 1,346.836 | 12.8375 | 83 | 92.229 | 547.614 | 56.404 | 4.9375 |
| 29 | 13,258 | 182,492 | 1,319.426 | 12.7645 | 84 | 79.316 | 455.385 | 49.524 | 4.7414 |
| 30 | 12,363 | 169,234 | 1,292.102 | 12.6882 | 85 | 67.911 | 376.069 | 43.308 | 4.5377 |
| 31 | 11,527 | 156,871 | 1,264.724 | 12.6086 | 86 | 57.763 | 308.158 | 37.603 | 4.3349 |
| 32 | 10,746 | 145,343 | 1,237.415 | 12.5255 | 87 | 48.763 | 250.395 | 32.382 | 4.1350 |
| 33 | 10,015 | 134,597 | 1,209.856 | 12.4392 | 88 | 40.804 | 201.633 | 27.614 | 3.9414 |
| 34 | 9,331.9 | 124,582.1 | 1,181.694 | 12.3501 | 89 | 33.800 | 160.828 | 23.279 | 3.7582 |
| 35 | 8,692.6 | 115,250.2 | 1,152.846 | 12.2585 | 90 | 27.681 | 127.028 | 19.370 | 3.5891 |
| 36 | 8,094.4 | 106,557.6 | 1,123.347 | 12.1644 | 91 | 22.376 | 99.348 | 15.877 | 3.4399 |
| 37 | 7,534.9 | 98,463.2 | 1,093.404 | 12.0676 | 92 | 17.839 | 76.972 | 12.803 | 3.3148 |
| 38 | 7,011.6 | 90,928.3 | 1,063.051 | 11.9682 | 93 | 14.039 | 59.133 | 10.170 | 3.2122 |
| 39 | 6,522.3 | 83,916.6 | 1,032.397 | 11.8662 | 94 | 10.929 | 45.094 | 7.979 | 3.1262 |
| 40 | 6,064.8 | 77,394.4 | 1,001.611 | 11.7613 | 95 | 8.4326 | 34.1654 | 6.1975 | 3.0516 |
| 41 | 5,637.2 | 71,329.6 | 970.780 | 11.6534 | 96 | 6.4443 | 25.7328 | 4.7609 | 2.9931 |
| 42 | 5,237.7 | 65,692.4 | 940.099 | 11.5421 | 97 | 4.8961 | 19.2885 | 3.6343 | 2.9395 |
| 43 | 4,864.5 | 60,454.6 | 909.572 | 11.4276 | 98 | 3.6984 | 14.3923 | 2.7568 | 2.8915 |
| 44 | 4,515.8 | 55,590.1 | 879.106 | 11.3100 | 99 | 2.7782 | 10.6939 | 2.0786 | 2.8492 |
| 45 | 4,190.0 | 51,074.2 | 848.729 | 11.1895 | 100 | 2.0779 | 7.9157 | 1.5600 | 2.8095 |
| 46 | 3,885.7 | 46,884.2 | 818.469 | 11.0660 | 101 | 1.5467 | 5.8379 | 1.1647 | 2.7745 |
| 47 | 3,601.4 | 42,998.6 | 788.402 | 10.9394 | 102 | 1.1465 | 4.2912 | .8658 | 2.7428 |
| 48 | 3,336.0 | 39,397.2 | 758.591 | 10.8098 | 103 | .84666 | 3.14469 | .64094 | 2.7142 |
| 49 | 3,088.3 | 36,061.2 | 729.168 | 10.6767 | 104 | .62247 | 2.29802 | .47213 | 2.6918 |
| 50 | 2,857.3 | 32,972.9 | 700.211 | 10.5398 | 105 | .45685 | 1.67555 | .34723 | 2.6676 |
| 51 | 2,641.9 | 30,115.6 | 671.688 | 10.3994 | 106 | .33404 | 1.21869 | .25431 | 2.6483 |
| 52 | 2,441.0 | 27,473.7 | 643.609 | 10.2553 | 107 | .24401 | .88465 | .18613 | 2.6254 |
| 53 | 2,253.6 | 25,032.7 | 615.980 | 10.1077 | 108 | .17774 | .64063 | .13583 | 2.6042 |
| 54 | 2,079.0 | 22,779.1 | 588.813 | 9.9566 | 109 | .12913 | .46289 | .09884 | 2.5846 |

TABLE 65. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 7.5 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,366,142 | 4,687.783 | 12.6614 | 55 | 1,483.0 | 15,415.0 | 407.505 | 9.3947 |
| 1 | 90,303 | 1,266,142 | 1,967.783 | 13.0210 | 56 | 1,359.4 | 13,932.1 | 387.416 | 9.2485 |
| 2 | 83,839 | 1,175,839 | 1,803.370 | 13.0250 | 57 | 1,245.0 | 12,572.7 | 367.854 | 9.0984 |
| 3 | 77,884 | 1,092,000 | 1,697.920 | 13.0209 | 58 | 1,139.1 | 11,327.6 | 348.767 | 8.9447 |
| 4 | 72,384 | 1,014,116 | 1,631.277 | 13.0103 | 59 | 1,040.9 | 10,188.6 | 330.100 | 8.7879 |
| 5 | 67,286 | 941,732 | 1,583.911 | 12.9959 | 60 | 950.04 | 9,147.64 | 311.835 | 8.6287 |
| 6 | 62,552 | 874,446 | 1,544.385 | 12.9795 | 61 | 865.93 | 8,197.60 | 294.006 | 8.4668 |
| 7 | 58,157 | 811,894 | 1,513.645 | 12.9603 | 62 | 788.11 | 7,331.67 | 276.598 | 8.3029 |
| 8 | 54,075 | 753,737 | 1,488.974 | 12.9387 | 63 | 716.12 | 6,543.56 | 259.595 | 8.1375 |
| 9 | 50,283 | 699,661 | 1,469.154 | 12.9145 | 64 | 649.57 | 5,827.43 | 243.007 | 7.9712 |
| 10 | 46,758 | 649,379 | 1,452.172 | 12.8882 | 65 | 588.11 | 5,177.86 | 226.868 | 7.8042 |
| 11 | 43,481 | 602,621 | 1,437.278 | 12.8595 | 66 | 531.51 | 4,589.75 | 211.296 | 7.6353 |
| 12 | 40,434 | 559,140 | 1,423.842 | 12.8286 | 67 | 479.48 | 4,058.24 | 196.347 | 7.4638 |
| 13 | 37,599 | 518,707 | 1,409.782 | 12.7959 | 68 | 431.69 | 3,578.76 | 182.009 | 7.2901 |
| 14 | 34,960 | 481,108 | 1,394.160 | 12.7617 | 69 | 387.77 | 3,147.07 | 168.202 | 7.1159 |
| 15 | 32,503 | 446,148 | 1,376.247 | 12.7264 | 70 | 347.35 | 2,759.30 | 154.840 | 6.9439 |
| 16 | 30,215 | 413,645 | 1,355.812 | 12.6902 | 71 | 310.11 | 2,411.95 | 141.832 | 6.7778 |
| 17 | 28,084 | 383,431 | 1,333.001 | 12.6530 | 72 | 275.84 | 2,101.84 | 129.201 | 6.6198 |
| 18 | 26,100 | 355,347 | 1,308.516 | 12.6147 | 73 | 244.47 | 1,826.00 | 117.079 | 6.4691 |
| 19 | 24,254 | 329,246 | 1,282.956 | 12.5751 | 74 | 216.03 | 1,581.53 | 105.689 | 6.3209 |
| 20 | 22,536 | 304,993 | 1,257.296 | 12.5337 | 75 | 190.45 | 1,365.50 | 95.181 | 6.1699 |
| 21 | 20,938 | 282,457 | 1,231.237 | 12.4905 | 76 | 167.54 | 1,175.05 | 85.559 | 6.0136 |
| 22 | 19,450 | 261,519 | 1,204.754 | 12.4455 | 77 | 147.01 | 1,007.51 | 76.722 | 5.8532 |
| 23 | 18,067 | 242,069 | 1,178.225 | 12.3986 | 78 | 128.64 | 860.50 | 68.609 | 5.6890 |
| 24 | 16,780 | 224,002 | 1,151.959 | 12.3493 | 79 | 112.21 | 731.86 | 61.154 | 5.5220 |
| 25 | 15,584 | 207,222 | 1,126.378 | 12.2973 | 80 | 97.532 | 619.642 | 54.301 | 5.3532 |
| 26 | 14,472 | 191,639 | 1,101.515 | 12.2423 | 81 | 84.462 | 522.110 | 48.036 | 5.1816 |
| 27 | 13,437 | 177,167 | 1,076.967 | 12.1846 | 82 | 72.874 | 437.647 | 42.341 | 5.0055 |
| 28 | 12,476 | 163,729 | 1,052.943 | 12.1236 | 83 | 62.635 | 364.773 | 37.186 | 4.8238 |
| 29 | 11,582 | 151,254 | 1,029.000 | 12.0598 | 84 | 53.615 | 302.138 | 32.536 | 4.6353 |
| 30 | 10,750 | 139,672 | 1,005.242 | 11.9930 | 85 | 45.692 | 248.523 | 28.353 | 4.4391 |
| 31 | 9,976.1 | 128,922.2 | 981.547 | 11.9231 | 86 | 38.683 | 202.831 | 24.532 | 4.2434 |
| 32 | 9,256.6 | 118,946.1 | 958.024 | 11.8499 | 87 | 32.504 | 164.147 | 21.052 | 4.0501 |
| 33 | 8,587.1 | 109,689.5 | 934.394 | 11.7737 | 88 | 27.073 | 131.643 | 17.889 | 3.8625 |
| 34 | 7,964.0 | 101,102.3 | 910.361 | 11.6949 | 89 | 22.321 | 104.570 | 15.026 | 3.6848 |
| 35 | 7,383.9 | 93,138.3 | 885.856 | 11.6137 | 90 | 18.195 | 82.249 | 12.457 | 3.5204 |
| 36 | 6,843.8 | 85,754.4 | 860.914 | 11.5303 | 91 | 14.640 | 64.054 | 10.171 | 3.3753 |
| 37 | 6,341.1 | 78,910.7 | 835.716 | 11.4443 | 92 | 11.617 | 49.414 | 8.170 | 3.2536 |
| 38 | 5,873.3 | 72,569.5 | 810.290 | 11.3559 | 93 | 9.0997 | 37.9970 | 6.4627 | 3.1537 |
| 39 | 5,438.0 | 66,696.3 | 784.732 | 11.2649 | 94 | 7.0510 | 28.6974 | 5.0489 | 3.0700 |
| 40 | 5,033.0 | 61,258.3 | 759.184 | 11.1713 | 95 | 5.4152 | 21.6463 | 3.9050 | 2.9973 |
| 41 | 4,656.4 | 56,225.3 | 733.717 | 11.0748 | 96 | 4.1192 | 16.2311 | 2.9867 | 2.9404 |
| 42 | 4,306.3 | 51,568.9 | 708.492 | 10.9752 | 97 | 3.1150 | 12.1120 | 2.2700 | 2.8883 |
| 43 | 3,980.9 | 47,262.6 | 683.510 | 10.8723 | 98 | 2.3420 | 8.9970 | 1.7143 | 2.8415 |
| 44 | 3,678.3 | 43,281.7 | 658.694 | 10.7666 | 99 | 1.7511 | 6.6549 | 1.2868 | 2.8003 |
| 45 | 3,397.1 | 39,603.3 | 634.066 | 10.6580 | 100 | 1.3036 | 4.9038 | .9615 | 2.7617 |
| 46 | 3,135.7 | 36,206.2 | 609.647 | 10.5466 | 101 | .96582 | 3.60017 | .71465 | 2.7276 |
| 47 | 2,892.7 | 33,070.6 | 585.496 | 10.4322 | 102 | .71262 | 2.63435 | .52883 | 2.6967 |
| 48 | 2,667.1 | 30,177.8 | 561.662 | 10.3149 | 103 | .52380 | 1.92172 | .38973 | 2.6688 |
| 49 | 2,457.6 | 27,510.7 | 538.249 | 10.1941 | 104 | .38331 | 1.39792 | .28578 | 2.6470 |
| 50 | 2,263.2 | 25,053.1 | 515.312 | 10.0698 | 105 | .28001 | 1.01460 | .20923 | 2.6234 |
| 51 | 2,082.8 | 22,789.9 | 492.825 | 9.9419 | 106 | .20379 | .73459 | .15254 | 2.6046 |
| 52 | 1,915.5 | 20,707.1 | 470.790 | 9.8104 | 107 | .14817 | .53079 | .11114 | 2.5823 |
| 53 | 1,760.3 | 18,791.6 | 449.211 | 9.6755 | 108 | .10743 | .38262 | .08073 | 2.5616 |
| 54 | 1,616.3 | 17,031.4 | 428.089 | 9.5371 | 109 | .07768 | .27519 | .05848 | 2.5424 |

TABLE 66. UNITED STATES NEGRO FEMALES: 1969-71--ACTUARIAL FUNCTIONS AT 8 PERCENT INTEREST

| x | D_x | N_x | M_x | a_x | x | D_x | N_x | M_x | a_x |
|----|---------|-----------|-----------|---------|-----|---------|----------|---------|--------|
| 0 | 100,000 | 1,290,533 | 4,404.967 | 11.9053 | 55 | 1,148.9 | 11,508.9 | 296.418 | 9.0171 |
| 1 | 89,885 | 1,190,533 | 1,697.559 | 12.2450 | 56 | 1,048.3 | 10,359.9 | 280.926 | 8.8823 |
| 2 | 83,064 | 1,100,648 | 1,534.665 | 12.2506 | 57 | 955.66 | 9,311.62 | 265.910 | 8.7437 |
| 3 | 76,807 | 1,017,584 | 1,430.673 | 12.2485 | 58 | 870.29 | 8,355.96 | 251.327 | 8.6014 |
| 4 | 71,052 | 940,776 | 1,365.255 | 12.2406 | 59 | 791.62 | 7,485.67 | 237.131 | 8.4561 |
| 5 | 65,743 | 869,724 | 1,318.975 | 12.2292 | 60 | 719.16 | 6,694.05 | 223.304 | 8.3081 |
| 6 | 60,835 | 803,981 | 1,280.535 | 12.2158 | 61 | 652.46 | 5,974.89 | 209.871 | 8.1575 |
| 7 | 56,299 | 743,146 | 1,250.777 | 12.2001 | 62 | 591.07 | 5,322.43 | 196.815 | 8.0047 |
| 8 | 52,105 | 686,848 | 1,227.005 | 12.1821 | 63 | 534.99 | 4,731.36 | 184.123 | 7.8504 |
| 9 | 48,226 | 634,743 | 1,207.996 | 12.1618 | 64 | 482.67 | 4,196.77 | 171.797 | 7.6949 |
| 10 | 44,637 | 586,517 | 1,191.784 | 12.1396 | 65 | 434.98 | 3,714.10 | 159.860 | 7.5386 |
| 11 | 41,317 | 541,880 | 1,177.631 | 12.1152 | 66 | 391.29 | 3,279.12 | 148.396 | 7.3802 |
| 12 | 38,244 | 500,563 | 1,164.923 | 12.0888 | 67 | 351.35 | 2,887.83 | 137.442 | 7.2191 |
| 13 | 35,398 | 462,319 | 1,151.686 | 12.0608 | 68 | 314.87 | 2,536.47 | 126.984 | 7.0556 |
| 14 | 32,761 | 426,922 | 1,137.046 | 12.0314 | 69 | 281.52 | 2,221.60 | 116.960 | 6.8914 |
| 15 | 30,317 | 394,161 | 1,120.338 | 12.0011 | 70 | 251.01 | 1,940.08 | 107.303 | 6.7290 |
| 16 | 28,053 | 363,843 | 1,101.365 | 11.9700 | 71 | 223.06 | 1,689.06 | 97.947 | 6.5721 |
| 17 | 25,954 | 335,791 | 1,080.284 | 11.9381 | 72 | 197.50 | 1,466.00 | 88.903 | 6.4230 |
| 18 | 24,009 | 309,837 | 1,057.762 | 11.9052 | 73 | 174.23 | 1,268.51 | 80.264 | 6.2807 |
| 19 | 22,207 | 285,828 | 1,034.359 | 11.8712 | 74 | 153.24 | 1,094.28 | 72.184 | 6.1408 |
| 20 | 20,538 | 263,621 | 1,010.973 | 11.8355 | 75 | 134.47 | 941.04 | 64.766 | 5.9980 |
| 21 | 18,993 | 243,083 | 987.333 | 11.7982 | 76 | 117.75 | 806.56 | 58.003 | 5.8499 |
| 22 | 17,563 | 224,089 | 963.421 | 11.7594 | 77 | 102.84 | 688.82 | 51.821 | 5.6976 |
| 23 | 16,238 | 206,527 | 939.577 | 11.7188 | 78 | 89.577 | 585.972 | 46.171 | 5.5416 |
| 24 | 15,012 | 190,289 | 916.080 | 11.6762 | 79 | 77.774 | 496.395 | 41.004 | 5.3825 |
| 25 | 13,877 | 175,277 | 893.301 | 11.6310 | 80 | 67.286 | 418.621 | 36.277 | 5.2215 |
| 26 | 12,827 | 161,401 | 871.263 | 11.5830 | 81 | 57.999 | 351.335 | 31.975 | 5.0575 |
| 27 | 11,855 | 148,574 | 849.606 | 11.5325 | 82 | 49.810 | 293.335 | 28.082 | 4.8890 |
| 28 | 10,956 | 136,719 | 828.509 | 11.4791 | 83 | 42.614 | 243.525 | 24.575 | 4.7147 |
| 29 | 10,123 | 125,763 | 807.581 | 11.4231 | 84 | 36.308 | 200.911 | 21.426 | 4.5335 |
| 30 | 9,352.8 | 115,639.5 | 786.910 | 11.3642 | 85 | 30.799 | 164.603 | 18.606 | 4.3444 |
| 31 | 8,639.5 | 106,286.7 | 766.390 | 11.3024 | 86 | 25.954 | 133.804 | 16.043 | 4.1554 |
| 32 | 7,979.2 | 97,647.2 | 746.113 | 11.2377 | 87 | 21.707 | 107.850 | 13.719 | 3.9683 |
| 33 | 7,367.9 | 89,668.0 | 725.838 | 11.1701 | 88 | 17.997 | 86.142 | 11.616 | 3.7866 |
| 34 | 6,801.6 | 82,300.1 | 705.313 | 11.1001 | 89 | 14.769 | 68.146 | 9.722 | 3.6140 |
| 35 | 6,277.0 | 75,498.4 | 684.481 | 11.0279 | 90 | 11.983 | 53.376 | 8.030 | 3.4542 |
| 36 | 5,790.9 | 69,221.5 | 663.377 | 10.9535 | 91 | 9.5972 | 41.3929 | 6.5310 | 3.3130 |
| 37 | 5,340.7 | 63,430.6 | 642.154 | 10.8768 | 92 | 7.5804 | 31.7957 | 5.2251 | 3.1945 |
| 38 | 4,923.8 | 58,089.9 | 620.839 | 10.7978 | 93 | 5.9102 | 24.2154 | 4.1165 | 3.0972 |
| 39 | 4,537.7 | 53,166.1 | 599.512 | 10.7164 | 94 | 4.5584 | 18.3052 | 3.2025 | 3.0157 |
| 40 | 4,180.4 | 48,628.3 | 578.291 | 10.6325 | 95 | 3.4847 | 13.7467 | 2.4664 | 2.9449 |
| 41 | 3,849.7 | 44,448.0 | 557.237 | 10.5459 | 96 | 2.6384 | 10.2620 | 1.8782 | 2.8895 |
| 42 | 3,543.8 | 40,598.3 | 536.478 | 10.4563 | 97 | 1.9860 | 7.6237 | 1.4213 | 2.8387 |
| 43 | 3,260.8 | 37,054.5 | 516.016 | 10.3636 | 98 | 1.4863 | 5.6377 | 1.0687 | 2.7932 |
| 44 | 2,999.0 | 33,793.7 | 495.783 | 10.2682 | 99 | 1.1061 | 4.1514 | .7986 | 2.7531 |
| 45 | 2,756.9 | 30,794.7 | 475.796 | 10.1701 | 100 | .81963 | 3.04528 | .59405 | 2.7154 |
| 46 | 2,532.9 | 28,037.8 | 456.071 | 10.0693 | 101 | .60444 | 2.22564 | .43957 | 2.6822 |
| 47 | 2,325.9 | 25,504.9 | 436.652 | 9.9656 | 102 | .44391 | 1.62120 | .32382 | 2.6521 |
| 48 | 2,134.5 | 23,179.0 | 417.577 | 9.8590 | 103 | .32478 | 1.17729 | .23757 | 2.6248 |
| 49 | 1,957.8 | 21,044.4 | 398.925 | 9.7492 | 104 | .23657 | .85250 | .17342 | 2.6036 |
| 50 | 1,794.6 | 19,086.7 | 380.738 | 9.6358 | 105 | .17202 | .61593 | .12639 | 2.5806 |
| 51 | 1,643.9 | 17,292.1 | 362.990 | 9.5190 | 106 | .12461 | .44391 | .09173 | 2.5623 |
| 52 | 1,504.8 | 15,648.2 | 345.680 | 9.3988 | 107 | .09018 | .31930 | .06653 | 2.5405 |
| 53 | 1,376.5 | 14,143.4 | 328.805 | 9.2752 | 108 | .06508 | .22911 | .04811 | 2.5203 |
| 54 | 1,258.1 | 12,766.9 | 312.365 | 9.1481 | 109 | .04684 | .16402 | .03469 | 2.5014 |

APPENDIX I

EXPLANATION OF ACTUARIAL FUNCTIONS

Introduction

The actuarial functions in this report are to be used to calculate present values of future payments contingent upon the death or survival of a designated individual. A series of periodic payments to continue during the life of an individual is called a *life annuity*. A payment to be made on the death of an individual is called a *life insurance*. The present values for which formulas are given below are called *net premiums*. This implies that they are calculated on the following basic assumptions:¹

1. The life table used will represent exactly the mortality to be experienced by the group of lives concerned.
2. All net premiums received will be immediately invested and will earn exactly the assumed rate of interest until withdrawn to pay benefits.
3. All net premiums paid on behalf of the group of lives involved, plus all interest earned, will ultimately be paid to members of the group in the form of contractual benefit payments. In other words, any expenses, taxes, profits, losses, and the like will be taken care of outside the net premium structure.

This appendix is an introduction to the subject of actuarial calculations; for more detailed information, actuarial textbooks should be consulted.²⁻⁴

¹ Menge, W. O., and Fischer, C. H.: *The Mathematics of Life Insurance*. New York. The Macmillan Company, 1965.

² U.S. Bureau of the Census: *United States Life Tables and Actuarial Tables, 1939-1941*, by T. N. E. Greville. Washington. U.S. Government Printing Office, 1946. part IV.

³ Jordan, C. W. Jr.: *Life Contingencies*. Chicago. The Society of Actuaries, 1967.

⁴ Hooker, P. F., and Longley-Cook, L. H.: *Life and Other Contingencies*, Vol. 1. Cambridge, England. Cambridge University Press, 1953.

Life Annuities

Let i denote the assumed rate of interest expressed in decimal form (e.g., $i=.07$ if the rate is 7 percent). Then an amount of 1 monetary unit (e.g., one dollar) deposited now will accumulate at compound interest to $(1+i)^n$ at the end of n years. Conversely, the present value today of 1 due at the end of n years is $(1+i)^{-n} = v^n$ where v is used to denote the reciprocal of $1+i$.

Now, suppose that each of l_x persons deposits on his x th birthday a fixed sum, which is denoted by a_x , so calculated that the aggregate deposits, with accumulated compound interest, will be just sufficient to provide a payment of 1 monetary unit to each individual on each subsequent birthday as long as he or she survives. (In the life table l_x is the number of survivors to age x out of l_0 births.) This gives the equation

$$l_x a_x = v l_{x+1} + v^2 l_{x+2} + v^3 l_{x+3} + \dots$$

where the summation continues to the end of the life table. Dividing by l_x gives

$$a_x = (v l_{x+1} + v^2 l_{x+2} + \dots) / l_x$$

The preceding formula provides a means of calculating a_x , the present value at age x of a life annuity of 1 monetary unit per annum. However, it would be laborious to make this calculation for many different ages and interest rates. A shortcut is provided by tabulating certain auxiliary values called *commutation functions*. Thus one defines

$$D_x = v^x l_x$$

and

$$N_x = D_x + D_{x+1} + D_{x+2} + \dots$$

where the addition continues to the end of the life table. In terms of these auxiliary functions, the formula for a_x can now be written as

$$a_x = N_{x+1} / D_x$$

A life annuity, valued or paid for at age x under which the first payment is received at age $x+m+1$, is

called a *deferred life annuity* (deferred m years), and is denoted by ${}_m|a_x$. By reasoning similar to that previously employed, it is found that

$${}_m|a_x = N_{x+m+1}/D_x$$

The usual life annuity denoted by a_x is sometimes called an *immediate life annuity* to distinguish it from a deferred life annuity.

If the number of payments under the annuity is limited to a maximum of n (even though some annuitants may survive $n+1$ years or more), it is called a temporary life annuity for n years and denoted by $a_{x:\overline{n}}$. By the same kind of reasoning previously used for the whole life annuity, it is found that

$$a_{x:\overline{n}} = (N_{x+1} - N_{x+n+1})/D_x$$

Suppose that each of I_x individuals deposits on each birthday starting at age x a sum of 1 monetary unit in a fund (called a tontine fund) which accumulates at compound interest at the rate i until the participants attain age $x+n$, at which time the accumulated funds are divided equally among the survivors. The amount received by each survivor is called the value (at age $x+n$) of a *forborne annuity* of 1 monetary unit per annum and is denoted by ${}_n u_x$. By reasoning similar to that previously employed,

$${}_n u_x = (N_x - N_{x+n})/D_{x+n}$$

There is a *general life annuity formula*, of which the preceding formulas are particular cases. The value at age c of a life annuity of R per annum under which the first payment is made at age a and the last payment at age $b-1$ (all payments being contingent upon the survival of the annuitant) is

$$R(N_a - N_b)/D_c$$

Life Insurances

A *life insurance* is a contract to pay a designated sum on the death of a certain individual, called the *insured*. Here it is assumed for simplicity that the contract is entered into on a birthday and that the *sum insured* is paid on the birthday next following the date of death. If payment for the contract is made in a lump sum on the date of issue, the amount paid is called the *net single premium* for the contract. The net single premium at age x for whole life insurance of 1 monetary unit is denoted by A_x . If I_x persons all aged exactly x purchase life insurance contracts, and if the single premiums collected are just sufficient with accumulated compound interest to make the payments called for, then

$$I_x A_x = v d_x + v^2 d_{x+1} + v^3 d_{x+2} + \dots$$

where the summation continues to the end of the life table and $d_x = I_x - I_{x+1}$ is the number of deaths at age x . Introduction of two new commutation functions,

$$C_x = v^{x+1} d_x$$

and

$$M_x = C_x + C_{x+1} + C_{x+2} + \dots$$

continuing to the end of the life table, gives

$$A_x = M_x/D_x$$

Just as in the case of annuities, it is possible to calculate the single premium, denoted by ${}_m|A_x$, for a *deferred life insurance*, under which coverage is postponed to age $x+m$, or that for a *temporary life insurance*, denoted by $A_{x:\overline{n}}^1$, under which coverage begins at age x and ceases at age $x+n$. Reasoning similar to that previously employed gives

$${}_m|A_x = M_{x+m}/D_x$$

and

$$A_{x:\overline{n}}^1 = (M_x - M_{x+n})/D_x$$

In fact, there is a *general life insurance formula*,

$$R(M_a - M_b)/D_c$$

which gives the net single premium payable at age c for life insurance coverage commencing at age a and terminating at age b with sum insured R .

The superscript 1 in $A_{x:\overline{n}}^1$ indicates that the single premium is for temporary insurance (also called *term insurance*). The symbol $A_{x:\overline{n}}$ (without the 1) denotes the single premium for n -year *endowment insurance*, under which the sum insured is paid not only in case of death between ages x and $x+n$ but also at age $x+n$ if the insured is then living. It is not difficult to show that

$$A_{x:\overline{n}} = (M_x - M_{x+n} + D_{x+n})/D_x$$

Annual Premiums

An annuity in which the annual payments are made at the beginning of each year (rather than at the end) is called an *annuity-due*. As a practical matter, the distinction affects only the date of the first payment and that of the last payment if the annuity terminates otherwise than by death. Shifting now from annual to monthly time intervals, it may be helpful to think of salary payments as an immediate annuity and of rent payments as an annuity-due. It is customary to distinguish the present value of an annuity-due by placing a diaeresis over the symbol. For example, $\ddot{a}_x = N_x/D_x$ denotes the present value of a whole life annuity-due.

Most life insurance policies are paid for not by a single premium but by equal annual premiums. As these annual premiums are payable in advance, they constitute an annuity-due. The latter may be a whole life annuity or a temporary life annuity, depending on the plan of insurance.

If P_x denotes the net annual premium payable during the lifetime of the insured for whole life insurance of 1 monetary unit (or, as it is commonly called, the net annual premium for *ordinary life insurance*), then

$$P_x \ddot{a}_x = A_x$$

or $P_x = A_x / \ddot{a}_x$. If we substitute for A_x and \ddot{a}_x the ex-

pressions in terms of commutation functions, the factor D_x cancels out so that $P_x = M_x / N_x$.

Similarly, the net annual premium for an *n-payment life policy* (under which the number of premium payments is limited to a maximum of n) of 1 monetary unit is

$${}_n P_x = M_x / (N_x - N_{x+n})$$

The net annual premium (payable during the life of the contract) for an *n-year endowment insurance* of 1 is

$$P_{x:\overline{n}|} = (M_x - M_{x+n} + D_{x+n}) / (N_x - N_{x+n})$$

Net premium formulas for other plans of insurance can easily be devised.

APPENDIX II

NOTES ON METHODOLOGY

The actuarial functions shown in these tables were calculated by the following formulas:

$$D_x = v^x I_x$$

$$N_x = \sum_{z=x}^{100} D_z + N_{110}$$

$$M_x = D_x - dN_x$$

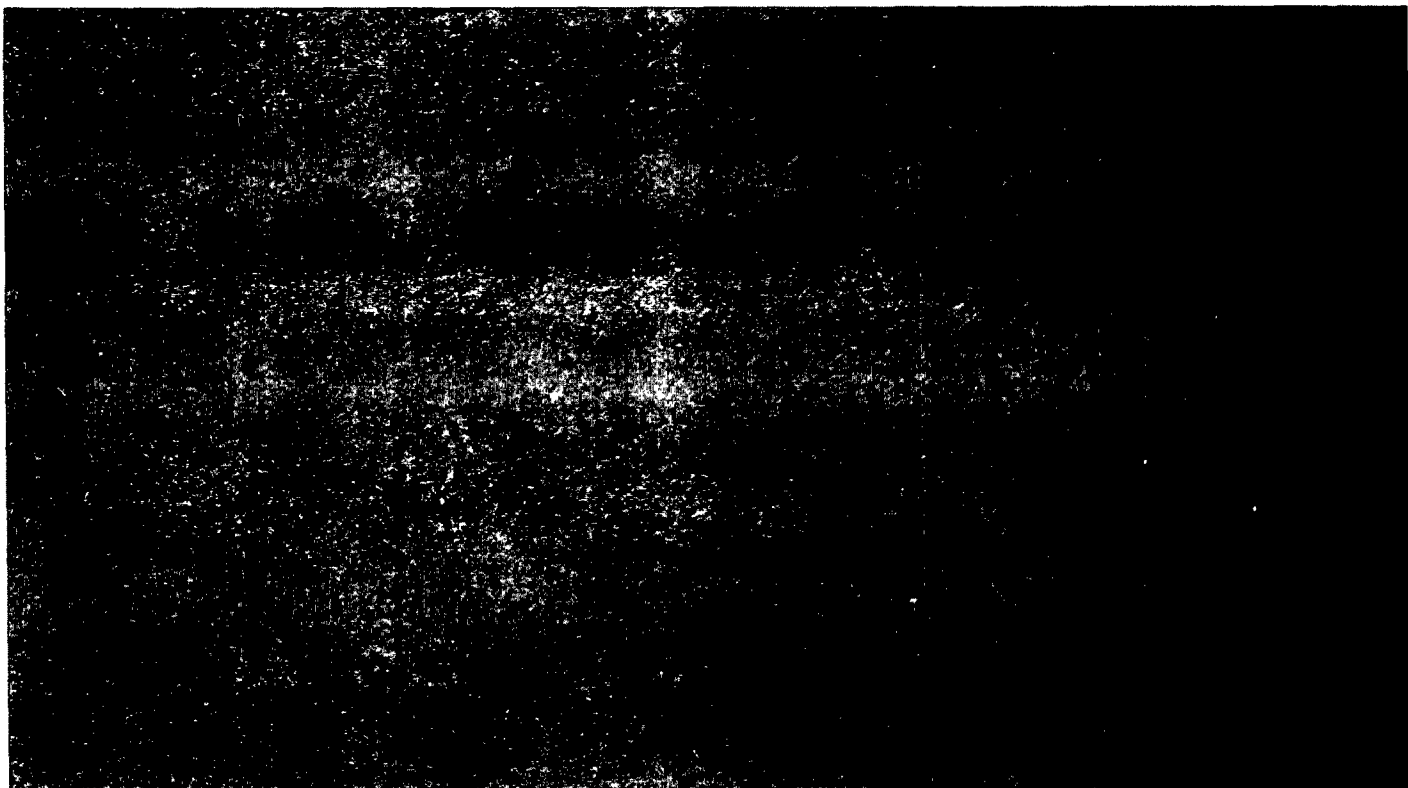
$$a_x = N_{x+1} / D_x$$

Here d is a constant given by $d=i/(1+i)$ where i is the interest rate expressed as a decimal fraction. (For the definitions of other symbols used, see appendix I.)

Values of N_{110} required in the second formula were obtained by the formula $N_{110} = D_{110} \ddot{a}_{110}'$ using values of \ddot{a}_{110} calculated specially by the Office of the Actuary of the Social Security Administration.

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DHEW Publication No. (HRA) 75-1150



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