

# World Population

*An Analysis of Vital Data*

Nathan Keyfitz and Wilhelm Flieger



Standard Book Number: 226-43234-3

Library of Congress Catalog Card Number: 68-14010

The University of Chicago Press, Chicago 60637  
The University of Chicago Press, Ltd., London

© 1968 by The University of Chicago

All rights reserved. Published 1968. Second Impression 1970

Printed in the United States of America

**TABLE 1**  
DATA

|       | AGE AT LAST BIRTHDAY | BOTH SEXES | POPULATION |      |         |      | BIRTHS           |            | DEATHS |         | AGE AT LAST BIRTHDAY |
|-------|----------------------|------------|------------|------|---------|------|------------------|------------|--------|---------|----------------------|
|       |                      |            | MALES      |      | FEMALES |      | BY AGE OF MOTHER | BOTH SEXES | MALES  | FEMALES |                      |
|       |                      |            | Number     | %    | Number  | %    |                  |            |        |         |                      |
|       | 0                    | 202571     | 102895     | 1.9  | 99676   | 2.0  | 0                | 19854      | 11287  | 8517    | 0                    |
|       | 1-4                  | 870340     | 439585     | 8.2  | 430755  | 8.6  | 0                | 5390       | 2893   | 2497    | 1-4                  |
|       | 5-9                  | 1130712    | 571588     | 10.6 | 559124  | 11.2 | 0                | 2249       | 1270   | 979     | 5-9                  |
|       | 10-14                | 1073242    | 542568     | 10.1 | 530674  | 10.6 | 74               | 1672       | 861    | 811     | 10-14                |
|       | 15-19                | 1039394    | 525196     | 9.8  | 514198  | 10.3 | 15129            | 2537       | 1327   | 1210    | 15-19                |
|       | 20-24                | 911445     | 463796     | 8.6  | 447649  | 9.0  | 61110            | 3003       | 1536   | 1467    | 20-24                |
|       | 25-29                | 787072     | 410262     | 7.6  | 376810  | 7.5  | 65567            | 2833       | 1390   | 1443    | 25-29                |
|       | 30-34                | 709195     | 368281     | 6.9  | 340914  | 6.8  | 49290            | 2706       | 1305   | 1401    | 30-34                |
|       | 35-39                | 688426     | 359066     | 6.7  | 329360  | 6.6  | 33939            | 3146       | 1574   | 1572    | 35-39                |
|       | 40-44                | 645753     | 347427     | 6.5  | 298326  | 6.0  | 13342            | 3525       | 1894   | 1631    | 40-44                |
|       | 45-49                | 585095     | 321306     | 6.0  | 263789  | 5.3  | 1404             | 4118       | 2315   | 1803    | 45-49                |
|       | 50-54                | 489028     | 267396     | 5.0  | 221632  | 4.4  | 24               | 4888       | 2840   | 2048    | 50-54                |
|       | 55-59                | 367765     | 199492     | 3.7  | 168273  | 3.4  | 0                | 5400       | 3099   | 2301    | 55-59                |
|       | 60-64                | 295129     | 157115     | 2.9  | 138010  | 2.8  | 0                | 6427       | 3619   | 2808    | 60-64                |
|       | 65-69                | 231572     | 120880     | 2.3  | 110692  | 2.2  | 0                | 7860       | 4368   | 3492    | 65-69                |
|       | 70-74                | 171873     | 88685      | 1.7  | 83188   | 1.7  | 0                | 9254       | 5033   | 4171    | 70-74                |
|       | 75-79                | 98901      | 50135      | 0.9  | 48766   | 1.0  | 0                | 8679       | 4581   | 4098    | 75-79                |
|       | 80-84                | 49333      | 23950      | 0.4  | 25383   | 0.5  | 123186 M.        | 6770       | 3400   | 3370    | 80-84                |
|       | 85+                  | 25379      | 11244      | 0.2  | 14135   | 0.3  | 116693 F.        | 5855       | 2672   | 3183    | 85+                  |
| TOTAL |                      | 10372225   | 5370871    |      | 5001354 |      | 239879           | 106066     | 57264  | 48802   | TOTAL                |

**TABLE 2**  
MALE LIFE TABLE

| $x$ | $nq_x$   | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$  | $e_x$  | $nM_x$   | $x$ |
|-----|----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.101591 | 100000 | 10159   | 92613  | 0.109694 | 0.2729  | 5899946 | 0.0000 | 58.999 | 0.109694 | 0   |
| 1   | 0.025835 | 89841  | 2321    | 352683 | 0.006581 | 1.1216  | 5807334 | 0.0000 | 64.640 | 0.006581 | 1   |
| 5   | 0.011048 | 87520  | 967     | 435182 | 0.002222 | 2.5000  | 5454651 | 0.0000 | 62.325 | 0.002222 | 5   |
| 10  | 0.007906 | 86553  | 684     | 431077 | 0.001587 | 2.5345  | 5019469 | 0.0065 | 57.993 | 0.001587 | 10  |
| 15  | 0.012582 | 85869  | 1080    | 426790 | 0.002531 | 2.6369  | 4588392 | 0.0132 | 53.435 | 0.002527 | 15  |
| 20  | 0.016445 | 84788  | 1394    | 420522 | 0.003316 | 2.5479  | 4161602 | 0.0215 | 49.082 | 0.003312 | 20  |
| 25  | 0.016803 | 83394  | 1401    | 413476 | 0.003389 | 2.5069  | 3741080 | 0.0197 | 44.860 | 0.003388 | 25  |
| 30  | 0.017575 | 81993  | 1441    | 406433 | 0.003545 | 2.5500  | 3327603 | 0.0096 | 40.584 | 0.003543 | 30  |
| 35  | 0.021691 | 80552  | 1747    | 398532 | 0.004384 | 2.5811  | 2921171 | 0.0014 | 36.265 | 0.004384 | 35  |
| 40  | 0.026921 | 78804  | 2121    | 388922 | 0.005455 | 2.5959  | 2522639 | 0.0055 | 32.011 | 0.005452 | 40  |
| 45  | 0.035517 | 76683  | 2724    | 376967 | 0.007225 | 2.6325  | 2133717 | 0.0186 | 27.825 | 0.007205 | 45  |
| 50  | 0.052106 | 73959  | 3854    | 360696 | 0.010884 | 2.6383  | 1756750 | 0.0368 | 23.753 | 0.010621 | 50  |
| 55  | 0.075348 | 70106  | 5282    | 338002 | 0.015628 | 2.6285  | 1396054 | 0.0371 | 19.914 | 0.015534 | 55  |
| 60  | 0.109731 | 64823  | 7113    | 307242 | 0.023152 | 2.6277  | 1058053 | 0.0288 | 16.322 | 0.023033 | 60  |
| 65  | 0.167099 | 57710  | 9643    | 265469 | 0.036325 | 2.6064  | 750810  | 0.0288 | 13.010 | 0.036135 | 65  |
| 70  | 0.250480 | 48067  | 12040   | 211028 | 0.057053 | 2.5659  | 485341  | 0.0288 | 10.097 | 0.056751 | 70  |
| 75  | 0.373337 | 36027  | 13450   | 146444 | 0.091845 | 2.4951  | 274313  | 0.0288 | 7.614  | 0.091373 | 75  |
| 80  | 0.519335 | 22577  | 11725   | 82201  | 0.142638 | 2.4538  | 127869  | 0.0288 | 5.664  | 0.141962 | 80  |
| 85+ | 1.000000 | 10852  | 10852   | 45668  | 0.237625 | 4.2083  | 45668   | 0.0288 | 4.208  | 0.237637 | 85+ |

**TABLE 3**  
FEMALE LIFE TABLE

| $x$ | $nq_x$    | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$  | $e_x$  | $nM_x$   | $x$ |
|-----|-----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.080542  | 100000 | 8054    | 94260  | 0.085447 | 0.2873  | 6135847 | 0.0000 | 61.358 | 0.085447 | 0   |
| 1   | 0.022808  | 91946  | 2097    | 361776 | 0.005797 | 1.1358  | 6041588 | 0.0000 | 65.708 | 0.005797 | 1   |
| 5   | 0.008717  | 89849  | 783     | 447285 | 0.001751 | 2.5000  | 5579811 | 0.0000 | 63.215 | 0.001751 | 5   |
| 10  | 0.007617  | 89065  | 678     | 443684 | 0.001529 | 2.5778  | 5232526 | 0.0066 | 58.749 | 0.001528 | 10  |
| 15  | 0.011728  | 88387  | 1037    | 439499 | 0.002359 | 2.6498  | 4788842 | 0.0146 | 54.180 | 0.002353 | 15  |
| 20  | 0.016299  | 87350  | 1424    | 433317 | 0.003286 | 2.5871  | 4349343 | 0.0279 | 49.792 | 0.003277 | 20  |
| 25  | 0.018989  | 85927  | 1632    | 425615 | 0.003834 | 2.5372  | 3916026 | 0.0235 | 45.574 | 0.003830 | 25  |
| 30  | 0.020351  | 84295  | 1715    | 417253 | 0.004111 | 2.5385  | 3490410 | 0.0093 | 41.407 | 0.004110 | 30  |
| 35  | 0.023600  | 82580  | 1949    | 408122 | 0.004775 | 2.5494  | 3073157 | 0.0086 | 37.214 | 0.004773 | 35  |
| 40  | 0.027012  | 80631  | 2178    | 397854 | 0.005474 | 2.5665  | 2665035 | 0.0166 | 33.052 | 0.005467 | 40  |
| 45  | 0.033710  | 78453  | 2645    | 385916 | 0.006853 | 2.5999  | 2267181 | 0.0227 | 28.899 | 0.006835 | 45  |
| 50  | 0.045451  | 75808  | 3446    | 370880 | 0.009290 | 2.6314  | 1881265 | 0.0353 | 24.816 | 0.009241 | 50  |
| 55  | 0.065683  | 72363  | 4818    | 350421 | 0.013750 | 2.6356  | 1510385 | 0.0333 | 20.872 | 0.013674 | 55  |
| 60  | 0.097442  | 67544  | 6582    | 322135 | 0.020431 | 2.6318  | 1159964 | 0.0238 | 17.173 | 0.020346 | 60  |
| 65  | 0.147313  | 60963  | 8981    | 283424 | 0.031686 | 2.6182  | 837829  | 0.0238 | 13.743 | 0.031547 | 65  |
| 70  | 0.224610  | 51982  | 11676   | 231782 | 0.050374 | 2.5908  | 554405  | 0.0238 | 10.665 | 0.050139 | 70  |
| 75  | 0.349028  | 40306  | 14068   | 166660 | 0.084412 | 2.5212  | 322624  | 0.0238 | 8.004  | 0.084034 | 75  |
| 80  | 0.499575  | 26238  | 13108   | 98226  | 0.133447 | 2.4851  | 155963  | 0.0238 | 5.944  | 0.132765 | 80  |
| 85+ | *1.000000 | 13130  | 13130   | 57737  | 0.227417 | 4.3972  | 57737   | 0.0238 | 4.397  | 0.225186 | 85+ |

**TABLE 4**  
OBSERVED AND PROJECTED VITAL RATES

|                    | OBSERVED POPULATION |       |         | PROJECTED POPULATION |         |       |         | STABLE POPULATION |         |       |         |
|--------------------|---------------------|-------|---------|----------------------|---------|-------|---------|-------------------|---------|-------|---------|
|                    | BOTH SEXES          | MALES | FEMALES | 1936                 |         | 1941  |         | 1946              |         | MALES | FEMALES |
| RATES PER THOUSAND |                     |       |         | MALES                | FEMALES | MALES | FEMALES | MALES             | FEMALES |       |         |
| Birth              | 23.13               | 22.94 | 23.33   | 23.83                | 24.08   | 24.46 | 24.54   | 24.56             | 24.47   | 23.04 | 22.23   |
| Death              | 10.23               | 10.66 | 9.76    | 11.14                | 10.04   | 11.66 | 10.42   | 12.13             | 10.78   | 14.00 | 13.20   |
| Increase           | 12.90               | 12.27 | 13.57   | 12.69                | 14.04   | 12.79 | 14.11   | 12.43             | 13.70   |       | 9.0345  |
| PERCENTAGE         |                     |       |         |                      |         |       |         |                   |         |       |         |
| under 15           | 31.59               | 30.84 | 32.40   | 29.31                | 30.54   | 28.35 | 29.29   | 28.81             | 29.49   | 28.27 | 28.02   |
| 15-64              | 62.84               | 63.66 | 61.96   | 64.83                | 63.57   | 65.37 | 64.57   | 64.18             | 63.82   | 62.83 | 62.42   |
| 65 and over        | 5.56                | 5.49  | 5.64    | 5.86                 | 5.89    | 6.28  | 6.15    | 7.01              | 6.69    | 8.90  | 9.56    |
| DEP. RATIO X 100   | 59.12               | 57.07 | 61.39   | 54.26                | 57.31   | 52.98 | 54.87   | 55.81             | 56.69   | 59.15 | 60.21   |

**TABLE 1**  
DATA

|  | AGE AT LAST BIRTHDAY | BOTH SEXES | POPULATION |     |         |     | BIRTHS           |            | DEATHS |         | AGE AT LAST BIRTHDAY |
|--|----------------------|------------|------------|-----|---------|-----|------------------|------------|--------|---------|----------------------|
|  |                      |            | MALES      |     | FEMALES |     | BY AGE OF MOTHER | BOTH SEXES | MALES  | FEMALES |                      |
|  |                      |            | Number     | %   | Number  | %   |                  |            |        |         |                      |
|  | 0                    | 215532     | 109545     | 1.9 | 105987  | 1.9 | 0                | 14563      | 8346   | 6217    | 0                    |
|  | 1-4                  | 839289     | 425898     | 7.2 | 413391  | 7.4 | 0                | 3394       | 1854   | 1540    | 1-4                  |
|  | 5-9                  | 1046465    | 529475     | 9.0 | 516990  | 9.2 | 0                | 1470       | 829    | 641     | 5-9                  |
|  | 10-14                | 1099278    | 555521     | 9.4 | 543757  | 9.7 | 74               | 1245       | 707    | 538     | 10-14                |
|  | 15-19                | 1117963    | 564142     | 9.6 | 553821  | 9.9 | 16925            | 1921       | 1110   | 811     | 15-19                |
|  | 20-24                | 1031228    | 517190     | 8.8 | 514038  | 9.2 | 71059            | 2376       | 1340   | 1036    | 20-24                |
|  | 25-29                | 966564     | 487820     | 8.3 | 478744  | 8.5 | 76815            | 2423       | 1241   | 1182    | 25-29                |
|  | 30-34                | 843819     | 431232     | 7.3 | 412587  | 7.4 | 51285            | 2323       | 1191   | 1132    | 30-34                |
|  | 35-39                | 760143     | 396444     | 6.7 | 363699  | 6.5 | 29512            | 2675       | 1422   | 1253    | 35-39                |
|  | 40-44                | 677047     | 348763     | 5.9 | 328284  | 5.9 | 10552            | 3110       | 1713   | 1397    | 40-44                |
|  | 45-49                | 635157     | 332402     | 5.6 | 302755  | 5.4 | 1071             | 4085       | 2335   | 1750    | 45-49                |
|  | 50-54                | 591494     | 315552     | 5.3 | 275942  | 4.9 | 21               | 5629       | 3370   | 2259    | 50-54                |
|  | 55-59                | 506776     | 274987     | 4.7 | 231789  | 4.1 | 0                | 7263       | 4402   | 2861    | 55-59                |
|  | 60-64                | 407363     | 218542     | 3.7 | 188821  | 3.4 | 0                | 8751       | 5303   | 3448    | 60-64                |
|  | 65-69                | 308305     | 162740     | 2.8 | 145565  | 2.6 | 0                | 10382      | 6056   | 4326    | 65-69                |
|  | 70-74                | 217584     | 111326     | 1.9 | 106258  | 1.9 |                  | 11462      | 6473   | 4989    | 70-74                |
|  | 75-79                | 135962     | 67309      | 1.1 | 68653   | 1.2 |                  | 11761      | 6280   | 5481    | 75-79                |
|  | 80-84                | 71640      | 34128      | 0.6 | 37512   | 0.7 | 132345 M.        | 9707       | 4955   | 4752    | 80-84                |
|  | 85+                  | 35879      | 15986      | 0.3 | 19893   | 0.4 | 124969 F.        | 8309       | 3828   | 4481    | 85+                  |
|  | TOTAL                | 11507488   | 5899002    |     | 5608486 |     | 257314           | 112849     | 62755  | 50094   | TOTAL                |

**TABLE 2**  
MALE LIFE TABLE

| $x$ | $nq_x$   | $l_x$  | $n d_x$ | $nL_x$ | $n m_x$  | $n a_x$ | $T_x$   | $r_x$  | $e_x$  | $n M_x$  | $x$ |
|-----|----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.072170 | 100000 | 7217    | 94726  | 0.076188 | 0.2693  | 6228243 | 0.0000 | 62.282 | 0.076188 | 0   |
| 1   | 0.017197 | 92783  | 1596    | 366534 | 0.004353 | 1.1183  | 6133517 | 0.0000 | 66.106 | 0.004353 | 1   |
| 5   | 0.007798 | 91187  | 711     | 454159 | 0.001566 | 2.5003  | 5766983 | 0.0000 | 63.243 | 0.001566 | 5   |
| 10  | 0.006344 | 90476  | 574     | 450982 | 0.001273 | 2.5617  | 5312823 | 0.0000 | 58.721 | 0.001273 | 10  |
| 15  | 0.009799 | 89902  | 881     | 447429 | 0.001969 | 2.6354  | 4861841 | 0.0052 | 54.079 | 0.001968 | 15  |
| 20  | 0.012880 | 89021  | 1147    | 442288 | 0.002592 | 2.5418  | 4414412 | 0.0121 | 49.588 | 0.002591 | 20  |
| 25  | 0.012642 | 87875  | 1111    | 436606 | 0.002545 | 2.5085  | 3972124 | 0.0156 | 45.202 | 0.002544 | 25  |
| 30  | 0.013736 | 86764  | 1192    | 430926 | 0.002766 | 2.5724  | 3535518 | 0.0179 | 40.749 | 0.002762 | 30  |
| 35  | 0.017821 | 85572  | 1525    | 424225 | 0.003595 | 2.6164  | 3104592 | 0.0176 | 36.280 | 0.003587 | 35  |
| 40  | 0.024320 | 84047  | 2044    | 415398 | 0.004921 | 2.6335  | 2680367 | 0.0126 | 31.891 | 0.004912 | 40  |
| 45  | 0.034569 | 82003  | 2835    | 403363 | 0.007028 | 2.6533  | 2264968 | 0.0027 | 27.621 | 0.007025 | 45  |
| 50  | 0.052161 | 79168  | 4130    | 386137 | 0.010694 | 2.6499  | 1861606 | 0.0080 | 23.515 | 0.010680 | 50  |
| 55  | 0.077383 | 75039  | 5807    | 361478 | 0.016064 | 2.6380  | 1475469 | 0.0202 | 19.663 | 0.016008 | 55  |
| 60  | 0.115195 | 69232  | 7975    | 327202 | 0.024374 | 2.6228  | 1113990 | 0.0256 | 16.091 | 0.024265 | 60  |
| 65  | 0.171518 | 61257  | 10507   | 281059 | 0.037382 | 2.5991  | 786789  | 0.0256 | 12.844 | 0.037213 | 65  |
| 70  | 0.255662 | 50750  | 12975   | 222111 | 0.058416 | 2.5614  | 505729  | 0.0256 | 9.965  | 0.058145 | 70  |
| 75  | 0.379422 | 37775  | 14333   | 152917 | 0.093729 | 2.4911  | 283618  | 0.0256 | 7.508  | 0.093301 | 75  |
| 80  | 0.527417 | 23443  | 12364   | 84796  | 0.145808 | 2.4452  | 130701  | 0.0256 | 5.575  | 0.145189 | 80  |
| 85+ | 1.000000 | 11079  | 11079   | 45905  | 0.241336 | 4.1436  | 45905   | 0.0256 | 4.144  | 0.239460 | 85+ |

**TABLE 3**  
FEMALE LIFE TABLE

| $x$ | $nq_x$    | $l_x$  | $n d_x$ | $nL_x$ | $n m_x$  | $n a_x$ | $T_x$   | $r_x$  | $e_x$  | $n M_x$  | $x$ |
|-----|-----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.056286  | 100000 | 5629    | 95956  | 0.058658 | 0.2815  | 6578505 | 0.0000 | 65.785 | 0.058658 | 0   |
| 1   | 0.014744  | 94371  | 1391    | 373492 | 0.003725 | 1.1299  | 6482549 | 0.0000 | 68.692 | 0.003725 | 1   |
| 5   | 0.006180  | 92980  | 575     | 463464 | 0.001240 | 2.5003  | 6109056 | 0.0000 | 65.703 | 0.001240 | 5   |
| 10  | 0.004935  | 92405  | 456     | 460907 | 0.000989 | 2.5442  | 5645593 | 0.0000 | 61.096 | 0.000989 | 10  |
| 15  | 0.007301  | 91949  | 671     | 458164 | 0.001465 | 2.6429  | 5184686 | 0.0042 | 56.386 | 0.001464 | 15  |
| 20  | 0.010042  | 91278  | 917     | 454190 | 0.002018 | 2.5997  | 4726521 | 0.0126 | 51.782 | 0.002015 | 20  |
| 25  | 0.012286  | 90361  | 1110    | 449095 | 0.002472 | 2.5567  | 4272331 | 0.0196 | 47.280 | 0.002469 | 25  |
| 30  | 0.013652  | 89251  | 1218    | 443293 | 0.002749 | 2.5678  | 3823236 | 0.0246 | 42.837 | 0.002744 | 30  |
| 35  | 0.017114  | 88033  | 1507    | 436524 | 0.003451 | 2.5839  | 3379943 | 0.0194 | 38.394 | 0.003445 | 35  |
| 40  | 0.021096  | 86526  | 1825    | 428258 | 0.004262 | 2.6041  | 2943419 | 0.0139 | 34.018 | 0.004255 | 40  |
| 45  | 0.028556  | 84701  | 2419    | 417768 | 0.005790 | 2.6282  | 2515161 | 0.0114 | 29.695 | 0.005780 | 45  |
| 50  | 0.040277  | 82282  | 3314    | 403613 | 0.008211 | 2.6469  | 2097393 | 0.0182 | 25.490 | 0.008186 | 50  |
| 55  | 0.060216  | 78968  | 4755    | 383622 | 0.012395 | 2.6407  | 1693780 | 0.0253 | 21.449 | 0.012343 | 55  |
| 60  | 0.087944  | 74213  | 6527    | 355724 | 0.018347 | 2.6495  | 1310157 | 0.0250 | 17.654 | 0.018261 | 60  |
| 65  | 0.139430  | 67686  | 9438    | 316051 | 0.029861 | 2.6284  | 954433  | 0.0250 | 14.101 | 0.029719 | 65  |
| 70  | 0.211933  | 58249  | 12345   | 261618 | 0.047187 | 2.6001  | 638383  | 0.0250 | 10.960 | 0.046952 | 70  |
| 75  | 0.334827  | 45904  | 15370   | 191598 | 0.080220 | 2.5327  | 376764  | 0.0250 | 8.208  | 0.079836 | 75  |
| 80  | 0.483371  | 30534  | 14759   | 115857 | 0.127393 | 2.5057  | 185166  | 0.0250 | 6.064  | 0.126679 | 80  |
| 85+ | *1.000000 | 15775  | 15775   | 69309  | 0.227600 | 4.3937  | 69309   | 0.0250 | 4.394  | 0.225255 | 85+ |

**TABLE 4**  
OBSERVED AND PROJECTED VITAL RATES

|                    | OBSERVED POPULATION |         |       | PROJECTED POPULATION |         |       |         | STABLE POPULATION |         |            |         |
|--------------------|---------------------|---------|-------|----------------------|---------|-------|---------|-------------------|---------|------------|---------|
|                    | BOTH SEXES          |         |       | 1946                 |         | 1951  |         | 1956              |         | POPULATION |         |
|                    | MALES               | FEMALES |       | MALES                | FEMALES | MALES | FEMALES | MALES             | FEMALES | MALES      | FEMALES |
| RATES PER THOUSAND |                     |         |       |                      |         |       |         |                   |         |            |         |
| Birth              | 22.36               | 22.44   | 22.28 | 22.90                | 22.57   | 22.63 | 22.14   | 21.66             | 21.04   | 20.69      | 19.73   |
| Death              | 9.81                | 10.64   | 8.93  | 11.23                | 9.38    | 11.60 | 9.71    | 11.91             | 10.03   | 13.34      | 12.38   |
| Increase           | 12.55               | 11.80   | 13.35 | 11.67                | 13.18   | 11.03 | 12.43   | 9.75              | 11.01   |            | 7.3450  |
| PERCENTAGE         |                     |         |       |                      |         |       |         |                   |         |            |         |
| under 15           | 27.81               | 27.47   | 28.17 | 27.01                | 27.33   | 27.58 | 27.59   | 28.42             | 28.16   | 26.77      | 26.04   |
| 15-64              | 65.50               | 65.89   | 65.09 | 65.82                | 65.49   | 64.66 | 64.74   | 63.36             | 63.61   | 63.74      | 63.02   |
| 65 and over        | 6.69                | 6.64    | 6.74  | 7.18                 | 7.18    | 7.76  | 7.67    | 8.22              | 8.23    | 9.49       | 10.93   |
| DEP. RATIO X 100   | 52.67               | 51.76   | 53.64 | 51.94                | 52.70   | 54.67 | 54.47   | 57.83             | 57.21   | 56.88      | 58.67   |

**TABLE 1**  
DATA

|  | AGE AT LAST BIRTHDAY | BOTH SEXES | POPULATION |      |         |     | BIRTHS           |            | DEATHS |         | AGE AT LAST BIRTHDAY |
|--|----------------------|------------|------------|------|---------|-----|------------------|------------|--------|---------|----------------------|
|  |                      |            | MALES      |      | FEMALES |     | BY AGE OF MOTHER | BOTH SEXES | MALES  | FEMALES |                      |
|  |                      |            | Number     | %    | Number  | %   |                  |            |        |         |                      |
|  | 0                    | 341783     | 174657     | 2.5  | 167126  | 2.5 | 0                | 14421      | 8270   | 6151    | 0                    |
|  | 1-4                  | 1322007    | 674640     | 9.8  | 647367  | 9.6 | 0                | 2456       | 1369   | 1087    | 1-4                  |
|  | 5-9                  | 1354259    | 691915     | 10.0 | 662344  | 9.8 | 0                | 1123       | 674    | 449     | 5-9                  |
|  | 10-14                | 1098506    | 558781     | 8.1  | 539725  | 8.0 | 103              | 735        | 451    | 284     | 10-14                |
|  | 15-19                | 1028711    | 517411     | 7.5  | 511300  | 7.6 | 24593            | 1093       | 711    | 382     | 15-19                |
|  | 20-24                | 1060125    | 522880     | 7.6  | 537245  | 8.0 | 102514           | 1471       | 966    | 505     | 20-24                |
|  | 25-29                | 1104189    | 538796     | 7.8  | 565393  | 8.4 | 113305           | 1558       | 941    | 617     | 25-29                |
|  | 30-34                | 1018517    | 499921     | 7.2  | 518596  | 7.7 | 75714            | 1734       | 1002   | 732     | 30-34                |
|  | 35-39                | 976584     | 491583     | 7.1  | 485001  | 7.2 | 42069            | 2247       | 1258   | 989     | 35-39                |
|  | 40-44                | 850750     | 435889     | 6.3  | 414861  | 6.1 | 12750            | 2969       | 1728   | 1241    | 40-44                |
|  | 45-49                | 731037     | 380292     | 5.5  | 350745  | 5.2 | 1011             | 4025       | 2432   | 1593    | 45-49                |
|  | 50-54                | 650217     | 334038     | 4.8  | 316179  | 4.7 | 20               | 5516       | 3462   | 2054    | 50-54                |
|  | 55-59                | 559445     | 286799     | 4.2  | 272646  | 4.0 | 0                | 7395       | 4661   | 2734    | 55-59                |
|  | 60-64                | 496719     | 259197     | 3.8  | 237522  | 3.5 | 0                | 10180      | 6401   | 3779    | 60-64                |
|  | 65-69                | 424509     | 223186     | 3.2  | 201323  | 3.0 | 0                | 12942      | 7936   | 5006    | 65-69                |
|  | 70-74                | 308988     | 157119     | 2.3  | 151869  | 2.2 | 0                | 14770      | 8484   | 6286    | 70-74                |
|  | 75-79                | 184428     | 92052      | 1.3  | 92376   | 1.4 | 0                | 14431      | 7923   | 6478    | 75-79                |
|  | 80-84                | 94927      | 45049      | 0.7  | 49878   | 0.7 | 191510 M.        | 11833      | 6060   | 5773    | 80-84                |
|  | 85+                  | 51545      | 22297      | 0.3  | 29248   | 0.4 | 180569 F.        | 11211      | 5109   | 6102    | 85+                  |
|  | TOTAL                | 13657246   | 6906502    |      | 6750744 |     | 372079           | 122080     | 69838  | 52242   | TOTAL                |

**TABLE 2**  
MALE LIFE TABLE

| $x$ | $nq_x$   | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$   | $e_x$  | $nM_x$   | $x$ |
|-----|----------|--------|---------|--------|----------|---------|---------|---------|--------|----------|-----|
| 0   | 0.045643 | 100000 | 4564    | 96529  | 0.047284 | 0.2396  | 6617769 | 0.0018  | 66.178 | 0.047350 | 0   |
| 1   | 0.008051 | 95436  | 768     | 379510 | 0.002025 | 1.0942  | 6521240 | 0.0018  | 68.331 | 0.002029 | 1   |
| 5   | 0.004816 | 94667  | 456     | 472197 | 0.000966 | 2.5000  | 6141730 | 0.00406 | 64.877 | 0.000974 | 5   |
| 10  | 0.004040 | 94211  | 381     | 470145 | 0.000809 | 2.6025  | 5669533 | 0.0281  | 60.179 | 0.000807 | 10  |
| 15  | 0.006854 | 93831  | 643     | 467645 | 0.001375 | 2.6543  | 5199388 | 0.0053  | 55.412 | 0.001374 | 15  |
| 20  | 0.009195 | 93188  | 857     | 463829 | 0.001847 | 2.5388  | 4731743 | 0.0000  | 50.776 | 0.001847 | 20  |
| 25  | 0.008695 | 92331  | 803     | 459659 | 0.001747 | 2.5147  | 4267914 | 0.0027  | 46.224 | 0.001746 | 25  |
| 30  | 0.009979 | 91528  | 913     | 455430 | 0.002006 | 2.5802  | 3808255 | 0.0071  | 41.608 | 0.002004 | 30  |
| 35  | 0.012741 | 90615  | 1155    | 450364 | 0.002564 | 2.6536  | 3352826 | 0.0110  | 37.001 | 0.002559 | 35  |
| 40  | 0.019726 | 89460  | 1765    | 443226 | 0.003981 | 2.6912  | 2902462 | 0.0215  | 32.444 | 0.003964 | 40  |
| 45  | 0.031638 | 87695  | 2774    | 432071 | 0.006421 | 2.6912  | 2459236 | 0.0199  | 28.043 | 0.006395 | 45  |
| 50  | 0.050767 | 84921  | 4311    | 414565 | 0.010399 | 2.6712  | 2027165 | 0.0175  | 23.871 | 0.010364 | 50  |
| 55  | 0.078379 | 80610  | 6318    | 388166 | 0.016277 | 2.6444  | 1612600 | 0.0086  | 20.005 | 0.016252 | 55  |
| 60  | 0.116992 | 74292  | 8692    | 350658 | 0.024786 | 2.6069  | 1224434 | 0.0232  | 16.481 | 0.024696 | 60  |
| 65  | 0.164297 | 65600  | 10778   | 301980 | 0.035691 | 2.5858  | 873776  | 0.0232  | 13.320 | 0.035558 | 65  |
| 70  | 0.239469 | 54822  | 13128   | 242132 | 0.054219 | 2.5642  | 571797  | 0.0232  | 10.430 | 0.053997 | 70  |
| 75  | 0.355460 | 41694  | 14821   | 171481 | 0.086427 | 2.5042  | 329664  | 0.0232  | 7.907  | 0.086071 | 75  |
| 80  | 0.499657 | 26873  | 13427   | 99437  | 0.135035 | 2.4787  | 158183  | 0.0232  | 5.886  | 0.134520 | 80  |
| 85+ | 1.000000 | 13446  | 13446   | 58746  | 0.228882 | 4.3691  | 58746   | 0.0232  | 4.369  | 0.229135 | 85+ |

**TABLE 3**  
FEMALE LIFE TABLE

| $x$ | $nq_x$    | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$  | $e_x$  | $nM_x$   | $x$ |
|-----|-----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.035762  | 100000 | 3576    | 97306  | 0.036752 | 0.2467  | 7080770 | 0.0018 | 70.808 | 0.036805 | 0   |
| 1   | 0.006669  | 96424  | 643     | 383830 | 0.001675 | 1.0995  | 6983464 | 0.0018 | 72.425 | 0.001679 | 1   |
| 5   | 0.003344  | 95781  | 320     | 478103 | 0.000670 | 2.5000  | 6599634 | 0.0402 | 68.904 | 0.000678 | 5   |
| 10  | 0.002630  | 95460  | 251     | 476682 | 0.000527 | 2.5288  | 6121531 | 0.0253 | 64.126 | 0.000526 | 10  |
| 15  | 0.003729  | 95209  | 355     | 475200 | 0.000747 | 2.6137  | 5644849 | 0.0000 | 59.289 | 0.000747 | 15  |
| 20  | 0.004689  | 94854  | 445     | 473193 | 0.000940 | 2.5744  | 5169649 | 0.0000 | 54.501 | 0.000940 | 20  |
| 25  | 0.005443  | 94410  | 514     | 470809 | 0.001092 | 2.5880  | 4696456 | 0.0024 | 49.746 | 0.001091 | 25  |
| 30  | 0.007048  | 93896  | 662     | 467915 | 0.001414 | 2.6370  | 4225648 | 0.0139 | 45.004 | 0.001411 | 30  |
| 35  | 0.010180  | 93234  | 949     | 463946 | 0.002046 | 2.6571  | 3757733 | 0.0202 | 40.304 | 0.002039 | 35  |
| 40  | 0.014928  | 92285  | 1378    | 458209 | 0.003007 | 2.6665  | 3293786 | 0.0293 | 35.692 | 0.002991 | 40  |
| 45  | 0.022549  | 90907  | 2050    | 449718 | 0.004558 | 2.6498  | 2835577 | 0.0226 | 31.192 | 0.004542 | 45  |
| 50  | 0.032096  | 88857  | 2852    | 437610 | 0.006517 | 2.6591  | 2385859 | 0.0184 | 26.850 | 0.006496 | 50  |
| 55  | 0.049160  | 86005  | 4228    | 420175 | 0.010063 | 2.6700  | 1948249 | 0.0181 | 22.653 | 0.010028 | 55  |
| 60  | 0.077070  | 81777  | 6303    | 394106 | 0.015992 | 2.6548  | 1528073 | 0.0272 | 18.686 | 0.015910 | 60  |
| 65  | 0.118065  | 75475  | 8911    | 356410 | 0.025002 | 2.6474  | 1133967 | 0.0272 | 15.024 | 0.024866 | 65  |
| 70  | 0.189376  | 66564  | 12606   | 302830 | 0.041626 | 2.6209  | 777558  | 0.0272 | 11.681 | 0.041391 | 70  |
| 75  | 0.300750  | 53958  | 16228   | 230159 | 0.070508 | 2.5577  | 474728  | 0.0272 | 8.798  | 0.070126 | 75  |
| 80  | 0.453312  | 37730  | 17104   | 146809 | 0.116502 | 2.5536  | 244570  | 0.0272 | 6.482  | 0.115743 | 80  |
| 85+ | *1.000000 | 20627  | 20627   | 97761  | 0.210992 | 4.7395  | 97761   | 0.0272 | 4.740  | 0.208630 | 85+ |

**TABLE 4**  
OBSERVED AND PROJECTED VITAL RATES

| RATES PER THOUSAND | OBSERVED POPULATION |       |         | PROJECTED POPULATION |       |       |       | STABLE POPULATION |       |       |         |
|--------------------|---------------------|-------|---------|----------------------|-------|-------|-------|-------------------|-------|-------|---------|
|                    | BOTH SEXES          | MALES | FEMALES | 1956                 |       | 1961  |       | 1966              |       | MALES | FEMALES |
| Birth              | 27.24               | 27.73 | 26.75   | 25.59                | 24.53 | 24.15 | 23.01 | 24.31             | 23.06 | 26.28 | 25.15   |
| Death              | 8.94                | 10.11 | 7.74    | 10.27                | 7.97  | 10.33 | 8.20  | 10.37             | 8.43  | 9.33  | 8.20    |
| Increase           | 18.31               | 17.62 | 19.01   | 15.32                | 16.55 | 13.82 | 14.82 | 13.94             | 14.63 |       | 16.9500 |
| PERCENTAGE         |                     |       |         |                      |       |       |       |                   |       |       |         |
| under 15           | 30.14               | 30.41 | 29.87   | 32.59                | 31.71 | 33.03 | 31.93 | 32.13             | 30.86 | 32.92 | 31.89   |
| 15-64              | 62.06               | 61.78 | 62.36   | 59.49                | 60.25 | 59.22 | 59.84 | 60.23             | 60.71 | 60.48 | 60.00   |
| 65 and over        | 7.79                | 7.81  | 7.77    | 7.91                 | 8.04  | 7.75  | 8.23  | 7.64              | 8.43  | 6.60  | 8.11    |
| DEP. RATIO X 100   | 61.12               | 61.87 | 60.37   | 68.09                | 65.99 | 68.86 | 67.11 | 66.02             | 64.72 | 65.35 | 66.65   |

| AGE AT LAST BIRTHDAY | BOTH SEXES | POPULATION |      |         |      | BIRTHS           |            | DEATHS |         | AGE AT LAST BIRTHDAY |
|----------------------|------------|------------|------|---------|------|------------------|------------|--------|---------|----------------------|
|                      |            | MALES      |      | FEMALES |      | BY AGE OF MOTHER | BOTH SEXES | MALES  | FEMALES |                      |
|                      |            | Number     | %    | Number  | %    |                  |            |        |         |                      |
| 0                    | 448929     | 229759     | 2.6  | 219170  | 2.5  | 0                | 12245      | 7048   | 5197    | 0                    |
| 1-4                  | 1735735    | 887878     | 9.9  | 847857  | 9.6  | 0                | 1932       | 1088   | 844     | 1-4                  |
| 5-9                  | 2012447    | 1029803    | 11.5 | 982644  | 11.2 | 0                | 1066       | 659    | 407     | 5-9                  |
| 10-14                | 1797782    | 918594     | 10.2 | 879188  | 10.0 | 214              | 780        | 514    | 266     | 10-14                |
| 15-19                | 1392569    | 709148     | 7.9  | 683421  | 7.8  | 39110            | 1167       | 833    | 334     | 15-19                |
| 20-24                | 1152255    | 571012     | 6.4  | 581243  | 6.6  | 135694           | 1282       | 949    | 333     | 20-24                |
| 25-29                | 1177583    | 596857     | 6.6  | 580726  | 6.6  | 127276           | 1288       | 888    | 400     | 25-29                |
| 30-34                | 1241886    | 628717     | 7.0  | 613169  | 7.0  | 88618            | 1545       | 1001   | 544     | 30-34                |
| 35-39                | 1244326    | 617079     | 6.9  | 627247  | 7.1  | 50312            | 2265       | 1407   | 858     | 35-39                |
| 40-44                | 1094841    | 546795     | 6.1  | 548046  | 6.2  | 15384            | 2994       | 1861   | 1133    | 40-44                |
| 45-49                | 993351     | 503630     | 5.6  | 489721  | 5.6  | 1089             | 4579       | 2926   | 1653    | 45-49                |
| 50-54                | 846382     | 433483     | 4.8  | 412899  | 4.7  | 13               | 6254       | 4103   | 2151    | 50-54                |
| 55-59                | 693304     | 355398     | 4.0  | 337906  | 3.8  | 0                | 8224       | 5481   | 2743    | 55-59                |
| 60-64                | 572566     | 286870     | 3.2  | 285696  | 3.2  | 0                | 10592      | 6888   | 3704    | 60-64                |
| 65-69                | 477321     | 234650     | 2.6  | 242671  | 2.8  | 0                | 13419      | 8304   | 5115    | 65-69                |
| 70-74                | 394727     | 192143     | 2.1  | 202584  | 2.3  | 0                | 17354      | 10393  | 6961    | 70-74                |
| 75-79                | 269259     | 131452     | 1.5  | 137807  | 1.6  | 0                | 18865      | 10750  | 8115    | 75-79                |
| 80-84                | 144477     | 67812      | 0.8  | 76665   | 0.9  | 235040 M.        | 16206      | 8480   | 7726    | 80-84                |
| 85+                  | 79548      | 34508      | 0.4  | 45040   | 0.5  | 222670 F.        | 15935      | 7252   | 8683    | 85+                  |
| TOTAL                | 17769288   | 8975588    |      | 8793700 |      | 457710           | 137992     | 80825  | 57167   | TOTAL                |

TABLE 2  
MALE LIFE TABLE

| $x$ | $nq_x$    | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$  | $e_x$  | $nM_x$   | $x$ |
|-----|-----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.029915  | 100000 | 2992    | 97705  | 0.030618 | 0.2328  | 6840611 | 0.0024 | 68.406 | 0.030676 | 0   |
| 1   | 0.004868  | 97008  | 472     | 386659 | 0.001221 | 1.0893  | 6742906 | 0.0024 | 69.508 | 0.001225 | 1   |
| 5   | 0.003184  | 96536  | 307     | 481913 | 0.000638 | 2.5000  | 6356246 | 0.0188 | 65.843 | 0.000640 | 5   |
| 10  | 0.002815  | 96229  | 271     | 480521 | 0.000564 | 2.6998  | 5874334 | 0.0366 | 61.045 | 0.000560 | 10  |
| 15  | 0.005910  | 95958  | 567     | 478480 | 0.001185 | 2.6907  | 5393813 | 0.0464 | 56.210 | 0.001175 | 15  |
| 20  | 0.008281  | 95391  | 790     | 475007 | 0.001663 | 2.5353  | 4915332 | 0.0157 | 51.528 | 0.001662 | 20  |
| 25  | 0.007411  | 94601  | 701     | 471243 | 0.001488 | 2.4866  | 4440325 | 0.0000 | 46.937 | 0.001488 | 25  |
| 30  | 0.007930  | 93900  | 745     | 467712 | 0.001592 | 2.6000  | 3969082 | 0.0000 | 42.269 | 0.001592 | 30  |
| 35  | 0.011362  | 93155  | 1058    | 463300 | 0.002284 | 2.6606  | 3501370 | 0.0116 | 37.586 | 0.002280 | 35  |
| 40  | 0.016946  | 92097  | 1561    | 456904 | 0.003416 | 2.7064  | 3038071 | 0.0167 | 32.988 | 0.003403 | 40  |
| 45  | 0.028771  | 90536  | 2605    | 446696 | 0.005831 | 2.7025  | 2581166 | 0.0172 | 28.510 | 0.005810 | 45  |
| 50  | 0.046547  | 87931  | 4093    | 430187 | 0.009514 | 2.6865  | 2134470 | 0.0249 | 24.274 | 0.009465 | 50  |
| 55  | 0.074770  | 83838  | 6269    | 404508 | 0.015497 | 2.6575  | 1704283 | 0.0253 | 20.328 | 0.015422 | 55  |
| 60  | 0.113859  | 77570  | 8832    | 366804 | 0.024078 | 2.6172  | 1299775 | 0.0168 | 16.756 | 0.024011 | 60  |
| 65  | 0.163466  | 68738  | 11236   | 316627 | 0.035488 | 2.5915  | 932971  | 0.0168 | 13.573 | 0.035389 | 65  |
| 70  | 0.239451  | 57501  | 13769   | 253845 | 0.054241 | 2.5552  | 616345  | 0.0168 | 10.719 | 0.054090 | 70  |
| 75  | 0.340276  | 43733  | 14881   | 181464 | 0.082007 | 2.5002  | 362500  | 0.0168 | 8.289  | 0.081779 | 75  |
| 80  | 0.477755  | 28851  | 13784   | 109836 | 0.125495 | 2.5028  | 181037  | 0.0168 | 6.275  | 0.125051 | 80  |
| 85+ | *1.000000 | 15068  | 15068   | 71200  | 0.211622 | 4.7254  | 71200   | 0.0168 | 4.725  | 0.210154 | 85+ |

TABLE 3  
FEMALE LIFE TABLE

| $x$ | $nq_x$   | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$  | $e_x$  | $nM_x$   | $x$ |
|-----|----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.023246 | 100000 | 2325    | 98229  | 0.023666 | 0.2383  | 7429419 | 0.0025 | 74.294 | 0.023712 | 0   |
| 1   | 0.003957 | 97675  | 387     | 389578 | 0.000992 | 1.0933  | 7331189 | 0.0025 | 75.057 | 0.000995 | 1   |
| 5   | 0.002058 | 97289  | 200     | 485944 | 0.000412 | 2.5000  | 6941611 | 0.0188 | 71.351 | 0.000414 | 5   |
| 10  | 0.001515 | 97089  | 147     | 485084 | 0.000303 | 2.5532  | 6455668 | 0.0359 | 66.492 | 0.000303 | 10  |
| 15  | 0.002452 | 96942  | 238     | 484141 | 0.000491 | 2.6138  | 5970584 | 0.0409 | 61.589 | 0.000489 | 15  |
| 20  | 0.002864 | 96704  | 277     | 482847 | 0.000574 | 2.5705  | 5486443 | 0.0157 | 56.734 | 0.000573 | 20  |
| 25  | 0.003438 | 96427  | 332     | 481337 | 0.000689 | 2.5933  | 5003597 | 0.0000 | 51.890 | 0.000689 | 25  |
| 30  | 0.004427 | 96095  | 425     | 479481 | 0.000887 | 2.6576  | 4522260 | 0.0000 | 47.060 | 0.000887 | 30  |
| 35  | 0.006830 | 95670  | 653     | 476832 | 0.001370 | 2.6775  | 4042779 | 0.0098 | 42.258 | 0.001368 | 35  |
| 40  | 0.010335 | 95017  | 982     | 472822 | 0.002077 | 2.6971  | 3565947 | 0.0226 | 37.530 | 0.002067 | 40  |
| 45  | 0.016826 | 94035  | 1582    | 466512 | 0.003392 | 2.6858  | 3093125 | 0.0248 | 32.893 | 0.003375 | 45  |
| 50  | 0.025888 | 92452  | 2393    | 456700 | 0.005241 | 2.6763  | 2626614 | 0.0317 | 28.410 | 0.005210 | 50  |
| 55  | 0.040055 | 90059  | 3607    | 441917 | 0.008163 | 2.6776  | 2169913 | 0.0283 | 24.094 | 0.008118 | 55  |
| 60  | 0.063248 | 86452  | 5468    | 419540 | 0.013033 | 2.6740  | 1727996 | 0.0259 | 19.988 | 0.012965 | 60  |
| 65  | 0.100933 | 80984  | 8174    | 385768 | 0.021189 | 2.6570  | 1308456 | 0.0259 | 16.157 | 0.021078 | 65  |
| 70  | 0.159711 | 72810  | 11629   | 336577 | 0.034550 | 2.6375  | 922688  | 0.0259 | 12.673 | 0.034361 | 70  |
| 75  | 0.259037 | 61181  | 15848   | 267675 | 0.059207 | 2.5876  | 586110  | 0.0259 | 9.580  | 0.058887 | 75  |
| 80  | 0.403532 | 45333  | 18293   | 180668 | 0.101254 | 2.6275  | 318436  | 0.0259 | 7.024  | 0.100776 | 80  |
| 85+ | 1.000000 | 27040  | 27040   | 137768 | 0.196270 | 5.0950  | 137768  | 0.0259 | 5.095  | 0.192783 | 85+ |

| RATES PER THOUSAND | OBSERVED POPULATION |       |         | PROJECTED POPULATION |       |       |       | STABLE POPULATION |       |       |         |
|--------------------|---------------------|-------|---------|----------------------|-------|-------|-------|-------------------|-------|-------|---------|
|                    | BOTH SEXES          | MALES | FEMALES | 1966                 |       | 1971  |       | 1976              |       | MALES | FEMALES |
| Birth              | 25.76               | 26.19 | 25.32   | 25.64                | 24.61 | 26.87 | 25.66 | 28.17             | 26.81 | 28.83 | 27.58   |
| Death              | 7.77                | 9.00  | 6.50    | 9.05                 | 6.80  | 9.01  | 7.00  | 8.88              | 7.09  | 7.57  | 6.32    |
| Increase           | 17.99               | 17.18 | 18.82   | 16.58                | 17.81 | 17.86 | 18.66 | 19.29             | 19.71 |       | 21.2615 |
| PERCENTAGE         |                     |       |         |                      |       |       |       |                   |       |       |         |
| under 15           | 33.74               | 34.16 | 33.31   | 33.93                | 32.83 | 33.59 | 32.35 | 33.79             | 32.42 | 35.71 | 34.45   |
| 15-64              | 58.58               | 58.48 | 58.68   | 58.94                | 59.00 | 59.40 | 59.40 | 59.20             | 59.11 | 58.67 | 58.16   |
| 65 and over        | 7.68                | 7.36  | 8.01    | 7.13                 | 8.16  | 7.00  | 8.25  | 7.01              | 8.46  | 5.61  | 7.40    |
| DEP. RATIO X 100   | 70.71               | 71.00 | 70.42   | 69.66                | 69.48 | 68.34 | 68.36 | 68.93             | 69.17 | 70.44 | 71.94   |

**TABLE 1**  
DATA

| AGE AT LAST BIRTHDAY | BOTH SEXES | POPULATION |      |         |      | BIRTHS           |        | DEATHS |         | AGE AT LAST BIRTHDAY |
|----------------------|------------|------------|------|---------|------|------------------|--------|--------|---------|----------------------|
|                      |            | MALES      |      | FEMALES |      | BY AGE OF MOTHER |        | MALES  | FEMALES |                      |
|                      |            | Number     | %    | Number  | %    |                  |        |        |         |                      |
| 0                    | 445625     | 227875     | 2.5  | 217750  | 2.4  | 0                | 11542  | 6620   | 4922    | 0                    |
| 1-4                  | 1765133    | 902758     | 9.7  | 862375  | 9.5  | 0                | 1862   | 1085   | 777     | 1-4                  |
| 5-9                  | 2079233    | 1063983    | 11.5 | 1015250 | 11.1 | 0                | 1160   | 708    | 452     | 5-9                  |
| 10-14                | 1902666    | 972958     | 10.5 | 929708  | 10.2 | 189              | 784    | 520    | 264     | 10-14                |
| 15-19                | 1554309    | 793567     | 8.6  | 760742  | 8.3  | 40203            | 1320   | 895    | 425     | 15-19                |
| 20-24                | 1221466    | 608333     | 6.6  | 613133  | 6.7  | 139356           | 1456   | 1075   | 381     | 20-24                |
| 25-29                | 1146608    | 575408     | 6.2  | 571200  | 6.3  | 121293           | 1283   | 882    | 401     | 25-29                |
| 30-34                | 1214417    | 617250     | 6.7  | 597167  | 6.5  | 84121            | 1529   | 995    | 534     | 30-34                |
| 35-39                | 1255050    | 626133     | 6.7  | 628917  | 6.9  | 47552            | 2239   | 1410   | 829     | 35-39                |
| 40-44                | 1150525    | 570383     | 6.1  | 580142  | 6.4  | 14920            | 3116   | 1936   | 1180    | 40-44                |
| 45-49                | 1022558    | 514283     | 5.5  | 508275  | 5.6  | 1020             | 4644   | 2957   | 1687    | 45-49                |
| 50-54                | 896484     | 455717     | 4.9  | 440767  | 4.8  | 10               | 6551   | 4296   | 2255    | 50-54                |
| 55-59                | 736016     | 375233     | 4.0  | 360783  | 4.0  | 0                | 8647   | 5800   | 2847    | 55-59                |
| 60-64                | 596717     | 298817     | 3.2  | 297900  | 3.3  | 0                | 11158  | 7236   | 3922    | 60-64                |
| 65-69                | 487492     | 237775     | 2.6  | 249717  | 2.7  | 0                | 13711  | 8531   | 5180    | 65-69                |
| 70-74                | 397325     | 189875     | 2.0  | 207450  | 2.3  | 0                | 17385  | 10306  | 7079    | 70-74                |
| 75-79                | 284950     | 135875     | 1.5  | 149075  | 1.6  |                  | 19859  | 11220  | 8639    | 75-79                |
| 80-84                | 157233     | 73750      | 0.8  | 83483   | 0.9  | 230055 M.        | 17795  | 9216   | 8569    | 80-84                |
| 85+                  | 88442      | 38767      | 0.4  | 49675   | 0.5  | 218609 F.        | 17806  | 8164   | 9642    | 85+                  |
| TOTAL                | 18402249   | 9278740    |      | 9123509 |      | 448664           | 143837 | 83852  | 59985   | TOTAL                |

**TABLE 2**  
MALE LIFE TABLE

| $x$ | $nq_x$    | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$  | $i_x$  | $nM_x$   | $x$ |
|-----|-----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.028421  | 100000 | 2842    | 97831  | 0.029051 | 0.2367  | 6846132 | 0.0000 | 68.461 | 0.029051 | 0   |
| 1   | 0.004791  | 97158  | 465     | 387278 | 0.001202 | 1.0921  | 6748302 | 0.0000 | 69.457 | 0.001202 | 1   |
| 5   | 0.003313  | 96692  | 320     | 482661 | 0.000664 | 2.5003  | 6561024 | 0.0142 | 65.786 | 0.000665 | 5   |
| 10  | 0.002683  | 96372  | 259     | 481261 | 0.000537 | 2.6820  | 5878362 | 0.0286 | 60.997 | 0.000534 | 10  |
| 15  | 0.005683  | 96114  | 546     | 479324 | 0.001140 | 2.7225  | 5397101 | 0.0458 | 56.153 | 0.001128 | 15  |
| 20  | 0.008810  | 95567  | 842     | 475768 | 0.001770 | 2.5438  | 4917778 | 0.0306 | 51.459 | 0.001767 | 20  |
| 25  | 0.007635  | 94725  | 723     | 471801 | 0.001533 | 2.4749  | 4442009 | 0.0000 | 46.894 | 0.001533 | 25  |
| 30  | 0.008029  | 94002  | 755     | 468191 | 0.001612 | 2.5889  | 3970209 | 0.0000 | 42.235 | 0.001612 | 30  |
| 35  | 0.011211  | 93247  | 1045    | 463791 | 0.002254 | 2.6601  | 3502018 | 0.0056 | 37.556 | 0.002252 | 35  |
| 40  | 0.016897  | 92202  | 1558    | 457435 | 0.003406 | 2.7053  | 3038226 | 0.0161 | 32.952 | 0.003394 | 40  |
| 45  | 0.028474  | 90644  | 2581    | 447294 | 0.005770 | 2.7036  | 2580791 | 0.0165 | 28.472 | 0.005750 | 45  |
| 50  | 0.046336  | 88063  | 4080    | 430888 | 0.009470 | 2.6896  | 2133498 | 0.0216 | 24.227 | 0.009427 | 50  |
| 55  | 0.074953  | 83983  | 6295    | 405183 | 0.015536 | 2.6600  | 1702610 | 0.0262 | 20.273 | 0.015457 | 55  |
| 60  | 0.114740  | 77688  | 8914    | 367214 | 0.024274 | 2.6188  | 1297427 | 0.0143 | 16.701 | 0.024215 | 60  |
| 65  | 0.165469  | 68774  | 11380   | 316434 | 0.035963 | 2.5891  | 930213  | 0.0143 | 13.526 | 0.035878 | 65  |
| 70  | 0.240085  | 57394  | 13779   | 253266 | 0.054407 | 2.5540  | 613779  | 0.0143 | 10.694 | 0.054278 | 70  |
| 75  | 0.342868  | 43615  | 14954   | 180666 | 0.082772 | 2.4985  | 360513  | 0.0143 | 8.266  | 0.082576 | 75  |
| 80  | 0.477194  | 28661  | 13677   | 109117 | 0.125339 | 2.5005  | 179846  | 0.0143 | 6.275  | 0.124962 | 80  |
| 85+ | *1.000000 | 14984  | 14984   | 70729  | 0.211850 | 4.7203  | 70729   | 0.0143 | 4.720  | 0.210591 | 85+ |

**TABLE 3**  
FEMALE LIFE TABLE

| $x$ | $nq_x$   | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$  | $i_x$  | $nM_x$   | $x$ |
|-----|----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.022215 | 100000 | 2222    | 98296  | 0.022600 | 0.2330  | 7442124 | 0.0002 | 74.421 | 0.022604 | 0   |
| 1   | 0.003594 | 97778  | 351     | 390091 | 0.000901 | 1.0895  | 7343828 | 0.0002 | 75.107 | 0.000901 | 1   |
| 5   | 0.002216 | 97427  | 216     | 486596 | 0.000444 | 2.5000  | 6953736 | 0.0144 | 71.374 | 0.000445 | 5   |
| 10  | 0.001422 | 97211  | 138     | 485722 | 0.000285 | 2.5849  | 6467141 | 0.0285 | 66.527 | 0.000284 | 10  |
| 15  | 0.002804 | 97073  | 272     | 484718 | 0.000562 | 2.6243  | 5981418 | 0.0411 | 61.618 | 0.000559 | 15  |
| 20  | 0.003106 | 96801  | 301     | 483266 | 0.000622 | 2.5457  | 5496700 | 0.0280 | 56.784 | 0.000621 | 20  |
| 25  | 0.003505 | 96500  | 338     | 481682 | 0.000702 | 2.5791  | 5013434 | 0.0019 | 51.953 | 0.000702 | 25  |
| 30  | 0.004462 | 96162  | 429     | 479797 | 0.000894 | 2.6413  | 4531753 | 0.0000 | 47.126 | 0.000894 | 30  |
| 35  | 0.006572 | 95733  | 629     | 477203 | 0.001318 | 2.6779  | 4051955 | 0.0015 | 42.326 | 0.001318 | 35  |
| 40  | 0.010162 | 95104  | 966     | 473295 | 0.002042 | 2.7001  | 3574752 | 0.0192 | 37.588 | 0.002034 | 40  |
| 45  | 0.016545 | 94137  | 1557    | 467081 | 0.003335 | 2.6854  | 3101457 | 0.0241 | 32.946 | 0.003319 | 45  |
| 50  | 0.025414 | 92580  | 2353    | 457425 | 0.005144 | 2.6736  | 2634376 | 0.0290 | 28.455 | 0.005116 | 50  |
| 55  | 0.038994 | 90227  | 3518    | 443008 | 0.007942 | 2.6901  | 2176951 | 0.0308 | 24.128 | 0.007891 | 55  |
| 60  | 0.064469 | 86709  | 5564    | 420580 | 0.013229 | 2.6702  | 1733943 | 0.0244 | 19.997 | 0.013165 | 60  |
| 65  | 0.099371 | 81145  | 8063    | 386820 | 0.020845 | 2.6558  | 1313364 | 0.0244 | 16.185 | 0.020743 | 65  |
| 70  | 0.158641 | 73081  | 11594   | 338014 | 0.034299 | 2.6374  | 926543  | 0.0244 | 12.678 | 0.034124 | 70  |
| 75  | 0.255489 | 61487  | 15709   | 269656 | 0.058257 | 2.5950  | 588529  | 0.0244 | 9.572  | 0.057951 | 75  |
| 80  | 0.409668 | 45778  | 18754   | 181855 | 0.103125 | 2.6257  | 318873  | 0.0244 | 6.966  | 0.102644 | 80  |
| 85+ | 1.000000 | 27024  | 27024   | 137018 | 0.197232 | 5.0702  | 137018  | 0.0244 | 5.070  | 0.194102 | 85+ |

**TABLE 4**  
OBSERVED AND PROJECTED VITAL RATES

|                    | OBSERVED POPULATION |       |         | PROJECTED POPULATION |       |       |       | STABLE POPULATION |       |         |         |
|--------------------|---------------------|-------|---------|----------------------|-------|-------|-------|-------------------|-------|---------|---------|
|                    | BOTH SEXES          | MALES | FEMALES | 1968                 |       | 1973  |       | 1978              |       | MALES   | FEMALES |
| RATES PER THOUSAND |                     |       |         |                      |       |       |       |                   |       |         |         |
| Birth              | 24.38               | 24.79 | 23.96   | 25.18                | 24.16 | 26.68 | 25.47 | 27.77             | 26.42 | 27.80   | 26.54   |
| Death              | 7.82                | 9.04  | 6.57    | 9.04                 | 6.85  | 8.98  | 7.34  | 8.85              | 7.09  | 7.83    | 6.57    |
| Increase           | 16.56               | 15.76 | 17.39   | 16.14                | 17.31 | 17.70 | 18.43 | 18.92             | 19.33 | 19.9707 |         |
| PERCENTAGE         |                     |       |         |                      |       |       |       |                   |       |         |         |
| under 15           | 33.65               | 34.14 | 33.16   | 33.40                | 32.25 | 32.99 | 31.73 | 33.31             | 31.95 | 34.81   | 33.50   |
| 15-64              | 58.66               | 58.58 | 58.74   | 59.50                | 59.50 | 59.97 | 59.86 | 59.59             | 59.36 | 59.26   | 58.64   |
| 65 and over        | 7.69                | 7.29  | 8.10    | 7.09                 | 8.25  | 7.04  | 8.41  | 7.10              | 8.69  | 5.93    | 7.86    |
| DEP. RATIO X 100   | 70.48               | 70.72 | 70.25   | 68.06                | 68.06 | 66.74 | 67.06 | 67.81             | 68.47 | 68.75   | 70.52   |

**TABLE 1**  
DATA

| AGE AT LAST BIRTHDAY | BOTH SEXES | POPULATION |      |         |      | BIRTHS           |            | DEATHS |         | AGE AT LAST BIRTHDAY |
|----------------------|------------|------------|------|---------|------|------------------|------------|--------|---------|----------------------|
|                      |            | MALES      |      | FEMALES |      | BY AGE OF MOTHER | BOTH SEXES | MALES  | FEMALES |                      |
|                      |            | Number     | %    | Number  | %    |                  |            |        |         |                      |
| 0                    | 436432     | 222479     | 2.4  | 213953  | 2.3  | 0                | 10714      | 6208   | 4506    | 0                    |
| 1-4                  | 1772668    | 907330     | 9.6  | 865338  | 9.3  | 0                | 1819       | 1028   | 791     | 1-4                  |
| 5-9                  | 2118550    | 1083975    | 11.5 | 1034575 | 11.1 | 0                | 1096       | 690    | 406     | 5-9                  |
| 10-14                | 1944450    | 994858     | 10.5 | 949592  | 10.2 | 209              | 738        | 462    | 276     | 10-14                |
| 15-19                | 1645891    | 840258     | 8.9  | 805633  | 8.7  | 40418            | 1384       | 985    | 399     | 15-19                |
| 20-24                | 1279034    | 641642     | 6.8  | 637392  | 6.8  | 137329           | 1531       | 1153   | 378     | 20-24                |
| 25-29                | 1148034    | 573292     | 6.1  | 574742  | 6.2  | 118286           | 1211       | 844    | 367     | 25-29                |
| 30-34                | 1208209    | 614492     | 6.5  | 593717  | 6.4  | 80777            | 1582       | 1046   | 536     | 30-34                |
| 35-39                | 1256133    | 630125     | 6.7  | 626008  | 6.7  | 45164            | 2157       | 1368   | 789     | 35-39                |
| 40-44                | 1186541    | 587133     | 6.2  | 599408  | 6.4  | 14964            | 3330       | 2122   | 1208    | 40-44                |
| 45-49                | 1036475    | 519225     | 5.5  | 517250  | 5.6  | 1078             | 4631       | 2979   | 1652    | 45-49                |
| 50-54                | 922625     | 467208     | 4.9  | 455417  | 4.9  | 10               | 6758       | 4438   | 2320    | 50-54                |
| 55-59                | 762083     | 387133     | 4.1  | 374950  | 4.0  | 0                | 8709       | 5816   | 2893    | 55-59                |
| 60-64                | 612492     | 306575     | 3.2  | 305917  | 3.3  | 0                | 11579      | 7669   | 3910    | 60-64                |
| 65-69                | 496391     | 241133     | 2.5  | 255258  | 2.7  | 0                | 13722      | 8577   | 5145    | 65-69                |
| 70-74                | 397925     | 188800     | 2.0  | 209125  | 2.2  | 0                | 17129      | 10271  | 6858    | 70-74                |
| 75-79                | 291700     | 137258     | 1.5  | 154442  | 1.7  | 225272 M.        | 19573      | 11005  | 8568    | 75-79                |
| 80-84                | 163500     | 76575      | 0.8  | 86925   | 0.9  | 212963 F.        | 17655      | 9261   | 8394    | 80-84                |
| 85+                  | 92284      | 40542      | 0.4  | 51742   | 0.6  |                  | 17469      | 8049   | 9420    | 85+                  |
| TOTAL                | 18771417   | 9460033    |      | 9311384 |      | 438235           | 142787     | 83971  | 58816   | TOTAL                |

**TABLE 2**  
MALE LIFE TABLE

| x   | $nq_x$   | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$  | $e_x$  | $nM_x$   | x   |
|-----|----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.027320 | 100000 | 2732    | 97909  | 0.027904 | 0.2347  | 6861347 | 0.0000 | 68.613 | 0.027904 | 0   |
| 1   | 0.004517 | 97268  | 439     | 387794 | 0.001133 | 1.0907  | 6763438 | 0.0000 | 69.534 | 0.001133 | 1   |
| 5   | 0.003171 | 96829  | 307     | 483375 | 0.000635 | 2.5000  | 6375644 | 0.0120 | 65.845 | 0.000637 | 5   |
| 10  | 0.002334 | 96522  | 225     | 482099 | 0.000467 | 2.7419  | 5892269 | 0.0248 | 61.046 | 0.000464 | 10  |
| 15  | 0.005905 | 96296  | 569     | 480192 | 0.001184 | 2.7316  | 5410169 | 0.0427 | 56.182 | 0.001172 | 15  |
| 20  | 0.008956 | 95728  | 857     | 476522 | 0.001799 | 2.5309  | 4929978 | 0.0366 | 51.500 | 0.001797 | 20  |
| 25  | 0.007334 | 94870  | 696     | 472600 | 0.001472 | 2.4823  | 4453456 | 0.0027 | 46.943 | 0.001472 | 25  |
| 30  | 0.008476 | 94175  | 798     | 468943 | 0.001702 | 2.5817  | 3980855 | 0.0000 | 42.271 | 0.001702 | 30  |
| 35  | 0.010805 | 93376  | 1009    | 464539 | 0.002172 | 2.6781  | 3511913 | 0.0022 | 37.610 | 0.002171 | 35  |
| 40  | 0.017979 | 92367  | 1661    | 458013 | 0.003626 | 2.6967  | 3047373 | 0.0156 | 32.992 | 0.003614 | 40  |
| 45  | 0.028412 | 90707  | 2577    | 447602 | 0.005758 | 2.6981  | 2589361 | 0.0168 | 28.546 | 0.005737 | 45  |
| 50  | 0.046650 | 88130  | 4111    | 431110 | 0.009536 | 2.6800  | 2141759 | 0.0196 | 24.302 | 0.009499 | 50  |
| 55  | 0.072960 | 84018  | 6130    | 405830 | 0.015105 | 2.6734  | 1710648 | 0.0262 | 20.360 | 0.015023 | 55  |
| 60  | 0.118300 | 77889  | 9214    | 367478 | 0.025074 | 2.6162  | 1304818 | 0.0141 | 16.752 | 0.025015 | 60  |
| 65  | 0.164119 | 68674  | 11271   | 316151 | 0.035650 | 2.5849  | 937340  | 0.0141 | 13.649 | 0.035570 | 65  |
| 70  | 0.240497 | 57404  | 13805   | 253194 | 0.054525 | 2.5499  | 621189  | 0.0141 | 10.821 | 0.054401 | 70  |
| 75  | 0.334436 | 43598  | 14581   | 181452 | 0.080356 | 2.4940  | 367995  | 0.0141 | 8.441  | 0.080177 | 75  |
| 80  | 0.461352 | 29017  | 13387   | 110454 | 0.121202 | 2.5163  | 186543  | 0.0141 | 6.429  | 0.120940 | 80  |
| 85+ | 1.000000 | 15630  | 15630   | 76090  | 0.205418 | 4.8681  | 76090   | 0.0141 | 4.868  | 0.198536 | 85+ |

**TABLE 3**  
FEMALE LIFE TABLE

| x   | $nq_x$   | $l_x$  | $n^d_x$ | $nL_x$ | $n^m_x$  | $n^a_x$ | $T_x$   | $r_x$  | $e_x$  | $nM_x$   | x   |
|-----|----------|--------|---------|--------|----------|---------|---------|--------|--------|----------|-----|
| 0   | 0.020730 | 100000 | 2073    | 98429  | 0.021061 | 0.2421  | 7495001 | 0.0000 | 74.950 | 0.021061 | 0   |
| 1   | 0.003647 | 97927  | 357     | 390671 | 0.000914 | 1.0960  | 7396572 | 0.0000 | 75.531 | 0.000914 | 1   |
| 5   | 0.001954 | 97570  | 191     | 487373 | 0.000391 | 2.5000  | 7005901 | 0.0123 | 71.804 | 0.000392 | 5   |
| 10  | 0.001455 | 97379  | 142     | 486553 | 0.000291 | 2.5751  | 6518528 | 0.0247 | 66.940 | 0.000291 | 10  |
| 15  | 0.002486 | 97238  | 242     | 485614 | 0.000498 | 2.6258  | 6031975 | 0.0394 | 62.033 | 0.000495 | 15  |
| 20  | 0.002966 | 96996  | 288     | 484274 | 0.000594 | 2.5484  | 5546361 | 0.0332 | 57.181 | 0.000593 | 20  |
| 25  | 0.003190 | 96708  | 308     | 482800 | 0.000639 | 2.5990  | 5062087 | 0.0064 | 52.344 | 0.000639 | 25  |
| 30  | 0.004504 | 96400  | 434     | 480974 | 0.000903 | 2.6413  | 4579287 | 0.0000 | 47.503 | 0.000903 | 30  |
| 35  | 0.006283 | 95966  | 603     | 478430 | 0.001260 | 2.6816  | 4098312 | 0.0000 | 42.706 | 0.001260 | 35  |
| 40  | 0.010064 | 95363  | 960     | 474601 | 0.002022 | 2.6955  | 3619883 | 0.0170 | 37.959 | 0.002015 | 40  |
| 45  | 0.015928 | 94403  | 1504    | 468544 | 0.003209 | 2.6926  | 3145282 | 0.0241 | 33.318 | 0.003194 | 45  |
| 50  | 0.025297 | 92899  | 2350    | 459027 | 0.005120 | 2.6729  | 2676737 | 0.0270 | 28.813 | 0.005094 | 50  |
| 55  | 0.038142 | 90549  | 3454    | 444753 | 0.007765 | 2.6859  | 2217711 | 0.0316 | 24.492 | 0.007716 | 55  |
| 60  | 0.062374 | 87095  | 5432    | 422821 | 0.012848 | 2.6704  | 1772957 | 0.0264 | 20.357 | 0.012781 | 60  |
| 65  | 0.096712 | 81663  | 7898    | 389789 | 0.020262 | 2.6543  | 1350136 | 0.0264 | 16.533 | 0.020156 | 65  |
| 70  | 0.152958 | 73765  | 11283   | 342175 | 0.032974 | 2.6379  | 960347  | 0.0264 | 13.019 | 0.032794 | 70  |
| 75  | 0.245963 | 62482  | 15368   | 275472 | 0.055789 | 2.5964  | 618173  | 0.0264 | 9.894  | 0.055477 | 75  |
| 80  | 0.390447 | 47114  | 18395   | 189555 | 0.097045 | 2.6512  | 342701  | 0.0264 | 7.274  | 0.096566 | 80  |
| 85+ | 1.000000 | 28718  | 28718   | 153145 | 0.187524 | 5.3327  | 153145  | 0.0264 | 5.333  | 0.182058 | 85+ |

**TABLE 4**  
OBSERVED AND PROJECTED VITAL RATES

| RATES PER THOUSAND | OBSERVED POPULATION |       |         | PROJECTED POPULATION |       |       |       | STABLE POPULATION |       |       |         |
|--------------------|---------------------|-------|---------|----------------------|-------|-------|-------|-------------------|-------|-------|---------|
|                    | BOTH SEXES          | MALES | FEMALES | 1969                 |       | 1974  |       | 1979              |       | MALES | FEMALES |
| Birth              | 23.35               | 23.81 | 22.87   | 24.60                | 23.46 | 26.12 | 24.79 | 27.10             | 25.64 | 26.55 | 25.23   |
| Death              | 7.61                | 8.88  | 6.32    | 8.96                 | 6.70  | 8.91  | 6.93  | 8.81              | 7.00  | 8.16  | 6.84    |
| Increase           | 15.74               | 14.94 | 16.55   | 15.65                | 16.76 | 17.21 | 17.86 | 18.29             | 18.64 |       | 18.3938 |
| PERCENTAGE         |                     |       |         |                      |       |       |       |                   |       |       |         |
| under 15           | 33.41               | 33.92 | 32.90   | 32.92                | 31.70 | 32.35 | 30.97 | 32.67             | 31.15 | 33.67 | 32.26   |
| 15-64              | 58.91               | 58.85 | 58.96   | 59.95                | 59.90 | 60.52 | 60.35 | 60.10             | 59.82 | 59.93 | 59.14   |
| 65 and over        | 7.68                | 7.23  | 8.14    | 7.13                 | 8.40  | 7.13  | 8.67  | 7.24              | 9.02  | 6.40  | 8.61    |
| DEP. RATIO X 100   | 69.76               | 69.93 | 69.59   | 66.81                | 66.94 | 65.24 | 65.69 | 66.40             | 67.16 | 66.87 | 69.10   |



TABLE 1  
DATA

| AGE AT LAST BIRTHDAY | BOTH SEXES | POPULATION |      |         |      | BIRTHS           |            | DEATHS |         | AGE AT LAST BIRTHDAY |
|----------------------|------------|------------|------|---------|------|------------------|------------|--------|---------|----------------------|
|                      |            | MALES      |      | FEMALES |      | BY AGE OF MOTHER | BOTH SEXES | MALES  | FEMALES |                      |
|                      |            | Number     | %    | Number  | %    |                  |            |        |         |                      |
| 0                    | 417893     | 214184     | 2.2  | 203709  | 2.1  | 0                | 9404       | 5391   | 4013    | 0                    |
| 1-4                  | 1767207    | 903725     | 9.4  | 863482  | 9.1  | 0                | 1699       | 940    | 759     | 1-4                  |
| 5-9                  | 2151550    | 1100475    | 11.4 | 1051075 | 11.1 | 0                | 1171       | 731    | 440     | 5-9                  |
| 10-14                | 1979850    | 1013558    | 10.5 | 966292  | 10.2 | 196              | 789        | 490    | 299     | 10-14                |
| 15-19                | 1729791    | 882958     | 9.2  | 846833  | 8.9  | 41605            | 1460       | 1040   | 420     | 15-19                |
| 20-24                | 1343034    | 678142     | 7.0  | 664892  | 7.0  | 127479           | 1571       | 1187   | 384     | 20-24                |
| 25-29                | 1158034    | 576792     | 6.0  | 581242  | 6.1  | 107605           | 1299       | 917    | 382     | 25-29                |
| 30-34                | 1199909    | 610792     | 6.3  | 589117  | 6.2  | 71352            | 1541       | 1017   | 524     | 30-34                |
| 35-39                | 1252933    | 631625     | 6.6  | 621308  | 6.6  | 41158            | 2222       | 1405   | 817     | 35-39                |
| 40-44                | 1217041    | 601933     | 6.3  | 615108  | 6.5  | 13398            | 3347       | 2101   | 1246    | 40-44                |
| 45-49                | 1052975    | 525525     | 5.5  | 527450  | 5.6  | 1047             | 4668       | 2933   | 1735    | 45-49                |
| 50-54                | 945725     | 476908     | 5.0  | 468817  | 4.9  | 15               | 7139       | 4674   | 2465    | 50-54                |
| 55-59                | 787083     | 398333     | 4.1  | 388750  | 4.1  | 0                | 8970       | 6002   | 2968    | 55-59                |
| 60-64                | 629192     | 314675     | 3.3  | 314517  | 3.3  | 0                | 11512      | 7628   | 3884    | 60-64                |
| 65-69                | 505891     | 245133     | 2.5  | 260758  | 2.8  | 0                | 13944      | 8796   | 5148    | 65-69                |
| 70-74                | 400625     | 188800     | 2.0  | 211825  | 2.2  | 0                | 17439      | 10386  | 7053    | 70-74                |
| 75-79                | 297700     | 137958     | 1.4  | 159742  | 1.7  | 207552 M.        | 20000      | 11298  | 8702    | 75-79                |
| 80-84                | 169500     | 78675      | 0.8  | 90825   | 1.0  | 196303 F.        | 18468      | 9716   | 8752    | 80-84                |
| 85+                  | 94484      | 41042      | 0.4  | 53442   | 0.6  |                  | 19066      | 8660   | 10406   | 85+                  |
| TOTAL                | 19100417   | 9621233    |      | 9479184 |      | 403855           | 145709     | 85312  | 60397   | TOTAL                |

TABLE 2  
MALE LIFE TABLE

| x   | $l_x$     | $l_x$  | $d_x$ | $L_x$  | $m_x$    | $q_x$  | $T_x$   | $r_x$  | $e_x$  | $M_x$    | x   |
|-----|-----------|--------|-------|--------|----------|--------|---------|--------|--------|----------|-----|
| 0   | 0.024695  | 100000 | 2470  | 98115  | 0.025170 | 0.2367 | 6875271 | 0.0000 | 68.753 | 0.025170 | 0   |
| 1   | 0.004148  | 97530  | 405   | 388945 | 0.001040 | 1.0921 | 6777156 | 0.0000 | 69.488 | 0.001040 | 1   |
| 5   | 0.003311  | 97126  | 322   | 484825 | 0.000663 | 2.5000 | 6388210 | 0.0091 | 65.772 | 0.000664 | 5   |
| 10  | 0.002426  | 96804  | 235   | 483486 | 0.000486 | 2.7222 | 5903385 | 0.0213 | 60.983 | 0.000483 | 10  |
| 15  | 0.001925  | 96569  | 172   | 481542 | 0.000352 | 2.7197 | 5419899 | 0.0390 | 56.124 | 0.000352 | 15  |
| 20  | 0.001532  | 95997  | 138   | 477929 | 0.000254 | 2.5450 | 4938356 | 0.0610 | 51.443 | 0.000254 | 20  |
| 25  | 0.001217  | 95159  | 106   | 473900 | 0.000180 | 2.4847 | 4460428 | 0.0888 | 46.873 | 0.000180 | 25  |
| 30  | 0.000942  | 94406  | 78    | 470130 | 0.000126 | 2.5752 | 3986527 | 0.1228 | 42.228 | 0.000126 | 30  |
| 35  | 0.000716  | 93623  | 57    | 465697 | 0.000088 | 2.6659 | 3516397 | 0.1618 | 37.559 | 0.000088 | 35  |
| 40  | 0.000542  | 92587  | 43    | 459225 | 0.000063 | 2.6919 | 3050700 | 0.2014 | 32.950 | 0.000063 | 40  |
| 45  | 0.000411  | 90979  | 32    | 449156 | 0.000046 | 2.7190 | 2591476 | 0.2413 | 28.484 | 0.000046 | 45  |
| 50  | 0.000307  | 88463  | 24    | 432438 | 0.000034 | 2.6783 | 2142320 | 0.2778 | 24.217 | 0.000034 | 50  |
| 55  | 0.000221  | 84209  | 17    | 406635 | 0.000024 | 2.6594 | 1709881 | 0.3057 | 20.305 | 0.000024 | 55  |
| 60  | 0.000155  | 78052  | 12    | 368945 | 0.000017 | 2.6226 | 1303246 | 0.3143 | 16.697 | 0.000017 | 60  |
| 65  | 0.000109  | 69086  | 8     | 317895 | 0.000012 | 2.5918 | 934302  | 0.3143 | 13.524 | 0.000012 | 65  |
| 70  | 0.000076  | 57652  | 5     | 253964 | 0.000008 | 2.5509 | 616407  | 0.3143 | 10.692 | 0.000008 | 70  |
| 75  | 0.000051  | 43648  | 3     | 181017 | 0.000005 | 2.4946 | 362443  | 0.3143 | 8.304  | 0.000005 | 75  |
| 80  | 0.000031  | 28790  | 2     | 109962 | 0.000003 | 2.5047 | 181426  | 0.3143 | 6.302  | 0.000003 | 80  |
| 85+ | *1.000000 | 15169  | 15169 | 71463  | 0.212262 | 4.7112 | 71463   | 0.3143 | 4.711  | 0.211003 | 85+ |

TABLE 3  
FEMALE LIFE TABLE

| x   | $l_x$    | $l_x$  | $d_x$ | $L_x$  | $m_x$    | $q_x$  | $T_x$   | $r_x$  | $e_x$  | $M_x$    | x   |
|-----|----------|--------|-------|--------|----------|--------|---------|--------|--------|----------|-----|
| 0   | 0.019411 | 100000 | 1941  | 98535  | 0.019700 | 0.2451 | 7500153 | 0.0000 | 75.002 | 0.019700 | 0   |
| 1   | 0.003507 | 98059  | 344   | 391238 | 0.000879 | 1.0983 | 7401619 | 0.0000 | 75.481 | 0.000879 | 1   |
| 5   | 0.002086 | 97715  | 204   | 488065 | 0.000418 | 2.5000 | 7010381 | 0.0094 | 71.743 | 0.000419 | 5   |
| 10  | 0.001548 | 97511  | 151   | 487186 | 0.000310 | 2.5529 | 6522316 | 0.0212 | 66.888 | 0.000309 | 10  |
| 15  | 0.001248 | 97360  | 112   | 486223 | 0.000226 | 2.6116 | 6035129 | 0.0369 | 61.988 | 0.000226 | 15  |
| 20  | 0.000989 | 97118  | 81    | 484905 | 0.000163 | 2.5564 | 5548907 | 0.0531 | 57.136 | 0.000163 | 20  |
| 25  | 0.000752 | 96837  | 60    | 483423 | 0.000117 | 2.5967 | 5064002 | 0.0714 | 52.294 | 0.000117 | 25  |
| 30  | 0.000573 | 96519  | 42    | 481591 | 0.000084 | 2.5516 | 4580580 | 0.0900 | 47.458 | 0.000084 | 30  |
| 35  | 0.000428 | 96091  | 30    | 478992 | 0.000061 | 2.6776 | 4098989 | 0.1000 | 42.657 | 0.000061 | 35  |
| 40  | 0.000311 | 95461  | 22    | 475084 | 0.000044 | 2.6986 | 3619997 | 0.1142 | 37.921 | 0.000044 | 40  |
| 45  | 0.000224 | 94496  | 16    | 468909 | 0.000032 | 2.6961 | 3144912 | 0.1237 | 33.281 | 0.000032 | 45  |
| 50  | 0.000161 | 92946  | 11    | 459059 | 0.000023 | 2.6603 | 2676003 | 0.1252 | 28.791 | 0.000023 | 50  |
| 55  | 0.000113 | 90522  | 8     | 444661 | 0.000016 | 2.6727 | 2216945 | 0.1318 | 24.491 | 0.000016 | 55  |
| 60  | 0.000080 | 87106  | 6     | 423302 | 0.000011 | 2.6724 | 1772284 | 0.1262 | 20.346 | 0.000011 | 60  |
| 65  | 0.000056 | 81852  | 4     | 391145 | 0.000008 | 2.6673 | 1348982 | 0.1262 | 16.481 | 0.000008 | 65  |
| 70  | 0.000037 | 74087  | 3     | 343248 | 0.000005 | 2.5339 | 957837  | 0.1262 | 12.929 | 0.000005 | 70  |
| 75  | 0.000023 | 62597  | 2     | 276570 | 0.000003 | 2.5965 | 614589  | 0.1262 | 9.818  | 0.000003 | 75  |
| 80  | 0.000013 | 47447  | 1     | 191061 | 0.000001 | 2.6553 | 338019  | 0.1262 | 7.124  | 0.000001 | 80  |
| 85+ | 1.000000 | 28943  | 28943 | 146959 | 0.196944 | 5.0776 | 146959  | 0.1262 | 5.078  | 0.194715 | 85+ |

TABLE 4  
OBSERVED AND PROJECTED VITAL RATES

| RATES PER THOUSAND | OBSERVED POPULATION |       |         | PROJECTED POPULATION |         |       |         | STABLE POPULATION |         |       |         |
|--------------------|---------------------|-------|---------|----------------------|---------|-------|---------|-------------------|---------|-------|---------|
|                    | BOTH SEXES          | MALES | FEMALES | 1970                 |         | 1975  |         | 1980              |         |       |         |
|                    |                     |       |         | MALES                | FEMALES | MALES | FEMALES | MALES             | FEMALES |       |         |
| Birth              | 21.14               | 21.57 | 20.71   | 22.78                | 21.71   | 24.34 | 23.08   | 25.27             | 23.89   | 23.76 | 22.47   |
| Death              | 7.63                | 8.87  | 6.37    | 8.95                 | 6.75    | 8.96  | 7.03    | 8.93              | 7.14    | 9.09  | 7.81    |
| Increase           | 13.52               | 12.71 | 14.34   | 13.83                | 14.95   | 15.37 | 16.05   | 16.34             | 16.75   |       | 14.6668 |
| PERCENTAGE         |                     |       |         |                      |         |       |         |                   |         |       |         |
| under 15           | 33.07               | 33.59 | 32.54   | 31.95                | 30.72   | 30.79 | 29.43   | 30.75             | 29.26   | 31.04 | 29.55   |
| 15-64              | 59.24               | 59.22 | 59.27   | 60.89                | 60.75   | 61.94 | 61.65   | 61.81             | 61.37   | 61.44 | 60.33   |
| 65 and over        | 7.69                | 7.19  | 8.19    | 7.16                 | 8.53    | 7.27  | 8.92    | 7.45              | 9.38    | 7.52  | 10.12   |
| DEP. RATIO X 100   | 68.80               | 68.86 | 68.73   | 64.23                | 64.61   | 61.44 | 62.20   | 61.80             | 62.96   | 62.76 | 65.76   |