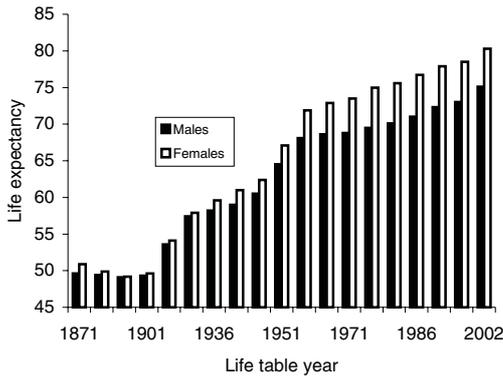


Irish Life Tables No. 14 2001-2003

Life expectancy at birth



Life expectancy at birth

| Area | Males | Females |
|---------|-------|---------|
| Ireland | 75.1 | 80.3 |
| EU 15 | 75.8 | 81.6 |
| EU 25 | 74.8 | 81.1 |

Women live over 5 years longer than men

In 2002 the life expectancy at birth was 75.1 years for males and 80.3 years for females - gap of 5.2 years. Between 1996 and 2002 life expectancy improved by 2.1 years for males and 1.8 years for females. The rate of improvement over the period was one of the fastest observed in recent years. *See Table 3.*

In 2002 the average EU 15 life expectancy at birth was 75.8 years for males and 81.6 years for females, while the average EU 25 life expectancy at birth was 74.8 years for males and 81.1 years for females. *See Table 4.*

This places Irish male life expectancy at birth below the EU 15 average but above the EU 25 average. However in the case of Irish females, their life expectancy at birth is below both the EU 15 and EU 25 average.

The highest European life expectancy at birth in males is reported in Sweden at 77.7 years and for females, Spain at 83.1 years.

In 2002 Irish male infant life expectancy ranked joint 8th with Belgium out of those reported in the EU 15 and was below Malta. Similarly the life expectancy of Irish baby girls ranked second last out of those reported in the EU 15 and was below both Malta and Slovenia.

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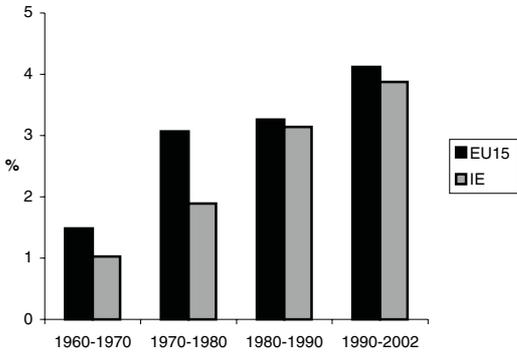
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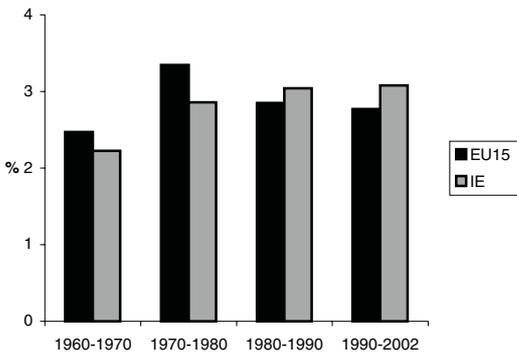
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Percentage improvement in male life expectancy at birth



Percentage improvement in female life expectancy at birth



Improvement in Irish female life expectancy at birth above EU 15 average

Life expectancy at birth

| Year | Males | Females |
|------|-------|---------|
| 1960 | 68.1 | 71.9 |
| 1970 | 68.8 | 73.5 |
| 1980 | 70.1 | 75.6 |
| 1990 | 72.3 | 77.9 |
| 2002 | 75.1 | 80.3 |

Life expectancy at birth has increased consistently for both men and women since the first life table was compiled in 1926. In that year males had a life expectancy at birth of 57.4 years while it was slightly higher for females at 57.9 years.

The improvement is a direct result of decreasing mortality, particularly infant mortality rates over the period. Much of the improvement occurred between 1946 and 1961 with more modest increases since then. *See Table 3.*

In 2002 a baby boy can expect to live 75.1 years, an improvement of 2.8 years or 3.9% over the last decade. This is below the corresponding EU 15 average improvement of 3 years (4.1%) over the same period. *See Table 5.*

In 2002 a baby girl can expect to live 80.3 years, an increase of 2.4 years or 3.1% over the last decade. This is above the EU 15 average increase of 2.2 years (2.8%) over the same period.

Since 1980, the improvement in Irish female life expectancy at birth continues to be above the EU 15 average.

Life expectancy at age 65 below EU 15 average

Life expectancy at age 65

| Area | Males | Females |
|---------|-------|---------|
| Ireland | 15.4 | 18.7 |
| EU 15 | 16.3 | 19.9 |
| EU 25 | 16.0 | 19.6 |

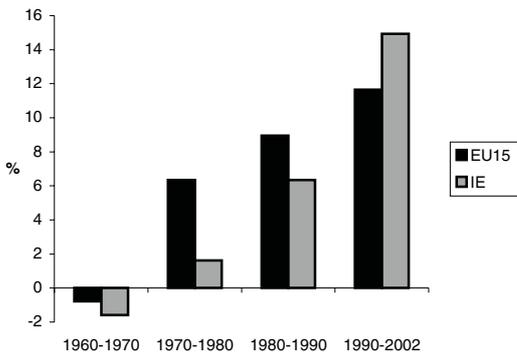
In 2002 the average EU 15 life expectancy at age 65 was 16.3 years for males and 19.9 years for females. Similarly the EU 25 average is 16.0 and 19.6 years respectively.

This places Irish life expectancy at age 65 below both the EU 15 average and the EU 25 average for both males and females. *See Table 4.*

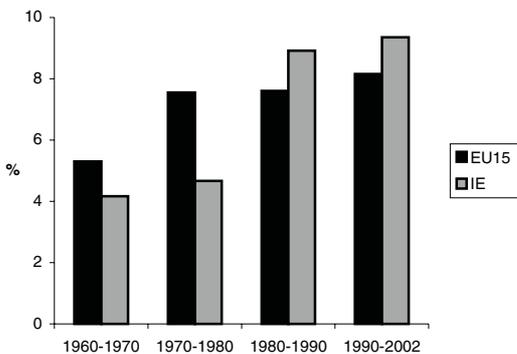
The highest life expectancy for both sexes is experienced in Sweden at 16.9 years for males and 20 years for females.

Ireland is joint bottom with Denmark of the EU 15 league table but higher than the new Member States for 65 year old males. For females Ireland is second from the bottom in the EU 15 league table at this age and also below Malta and Slovenia.

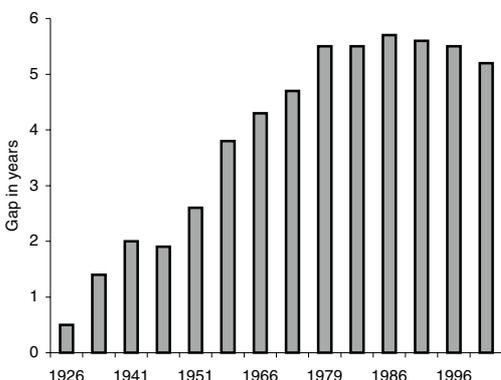
Percentage improvement in male life expectancy at age 65



Percentage improvement in female life expectancy at age 65



The gender gap



Improvement in Irish life expectancy at age 65 above EU 15 average

Life expectancy at age 65

| Year | Males | Females |
|------|-------|---------|
| 1960 | 12.6 | 14.4 |
| 1970 | 12.4 | 15.0 |
| 1980 | 12.6 | 15.7 |
| 1990 | 13.4 | 17.1 |
| 2002 | 15.4 | 18.7 |

In 2002 a 65 year old males expects to live 15.4 years, an improvement of 2 years or 14.9% over the last decade. This is above the corresponding EU 15 average improvement in the same period of 1.7 years (11.6%).

Since 1990, the improvement in Irish male life expectancy at age 65 has been above the EU 15 average.

In 2002 a 65 year old female can expect to live 18.7 years, an increase of 1.6 years or 9.4% over the last decade. This is above the corresponding EU 15 average improvement in the same period of 1.5 years (8.2%).

Since 1980 the improvement in Irish female life expectancy at age 65 has been above the EU average.

The most dramatic increase in life expectancy for both sexes occurred over the last 6 years, where male life expectancy increased by 1.5 years (11%) and female life expectancy increased by 1.3 years (7%).

The gap between the sexes is narrowing

In 1926 males had life expectancy of 57.4 years while it was 0.5 years higher for females at 57.9 years. This gap widened significantly over the following 60 years to stand at 5.7 years in 1986. Since then it has tended to narrow somewhat down to 5.2 years in 2002.

A similar decrease has been experienced in the EU 15, with a gap of 6.7 years in 1980 now reduced to a gap of 5.8 years in 2002. In 2002 the largest gap is in Spain at 7.4 years while the smallest is in Sweden at 4.4 years. *See Table 5.*

Table 1 Irish Life Table No. 14 2001-2003, Males

| Age x | l_x | d_x | p_x | q_x | L_x | T_x | e^o_x | Age x |
|-------|---------|-------|---------|---------|--------|-----------|---------|-------|
| 0 | 100,000 | 651 | 0.99349 | 0.00651 | 99,421 | 7,506,685 | 75.07 | 0 |
| 1 | 99,349 | 48 | 0.99952 | 0.00048 | 99,325 | 7,407,264 | 74.56 | 1 |
| 2 | 99,301 | 40 | 0.99959 | 0.00041 | 99,281 | 7,307,939 | 73.59 | 2 |
| 3 | 99,261 | 21 | 0.99979 | 0.00021 | 99,250 | 7,208,658 | 72.62 | 3 |
| 4 | 99,240 | 20 | 0.99979 | 0.00021 | 99,230 | 7,109,407 | 71.64 | 4 |
| 5 | 99,220 | 15 | 0.99985 | 0.00015 | 99,212 | 7,010,178 | 70.65 | 5 |
| 6 | 99,205 | 11 | 0.99989 | 0.00011 | 99,199 | 6,910,965 | 69.66 | 6 |
| 7 | 99,194 | 15 | 0.99985 | 0.00015 | 99,187 | 6,811,766 | 68.67 | 7 |
| 8 | 99,179 | 12 | 0.99988 | 0.00012 | 99,173 | 6,712,580 | 67.68 | 8 |
| 9 | 99,167 | 10 | 0.99990 | 0.00010 | 99,162 | 6,613,407 | 66.69 | 9 |
| 10 | 99,157 | 10 | 0.99990 | 0.00010 | 99,152 | 6,514,245 | 65.70 | 10 |
| 11 | 99,147 | 11 | 0.99989 | 0.00011 | 99,141 | 6,415,093 | 64.70 | 11 |
| 12 | 99,136 | 15 | 0.99985 | 0.00015 | 99,128 | 6,315,952 | 63.71 | 12 |
| 13 | 99,120 | 23 | 0.99977 | 0.00023 | 99,109 | 6,216,824 | 62.72 | 13 |
| 14 | 99,097 | 34 | 0.99965 | 0.00035 | 99,080 | 6,117,715 | 61.73 | 14 |
| 15 | 99,063 | 47 | 0.99952 | 0.00048 | 99,039 | 6,018,635 | 60.76 | 15 |
| 16 | 99,016 | 60 | 0.99939 | 0.00061 | 98,986 | 5,919,596 | 59.78 | 16 |
| 17 | 98,956 | 71 | 0.99928 | 0.00072 | 98,920 | 5,820,610 | 58.82 | 17 |
| 18 | 98,884 | 81 | 0.99919 | 0.00081 | 98,844 | 5,721,690 | 57.86 | 18 |
| 19 | 98,804 | 90 | 0.99909 | 0.00091 | 98,759 | 5,622,846 | 56.91 | 19 |
| 20 | 98,714 | 98 | 0.99901 | 0.00099 | 98,665 | 5,524,087 | 55.96 | 20 |
| 21 | 98,616 | 105 | 0.99894 | 0.00106 | 98,564 | 5,425,422 | 55.02 | 21 |
| 22 | 98,511 | 110 | 0.99889 | 0.00111 | 98,457 | 5,326,858 | 54.07 | 22 |
| 23 | 98,402 | 112 | 0.99886 | 0.00114 | 98,345 | 5,228,401 | 53.13 | 23 |
| 24 | 98,289 | 113 | 0.99885 | 0.00115 | 98,233 | 5,130,056 | 52.19 | 24 |
| 25 | 98,176 | 112 | 0.99886 | 0.00114 | 98,120 | 5,031,823 | 51.25 | 25 |
| 26 | 98,064 | 111 | 0.99887 | 0.00113 | 98,009 | 4,933,703 | 50.31 | 26 |
| 27 | 97,954 | 110 | 0.99888 | 0.00112 | 97,899 | 4,835,694 | 49.37 | 27 |
| 28 | 97,844 | 109 | 0.99889 | 0.00111 | 97,789 | 4,737,795 | 48.42 | 28 |
| 29 | 97,735 | 107 | 0.99891 | 0.00109 | 97,682 | 4,640,005 | 47.48 | 29 |
| 30 | 97,629 | 105 | 0.99893 | 0.00107 | 97,576 | 4,542,324 | 46.53 | 30 |
| 31 | 97,524 | 104 | 0.99894 | 0.00106 | 97,472 | 4,444,747 | 45.58 | 31 |
| 32 | 97,420 | 104 | 0.99893 | 0.00107 | 97,368 | 4,347,275 | 44.62 | 32 |
| 33 | 97,317 | 106 | 0.99892 | 0.00108 | 97,264 | 4,249,907 | 43.67 | 33 |
| 34 | 97,211 | 108 | 0.99889 | 0.00111 | 97,157 | 4,152,643 | 42.72 | 34 |
| 35 | 97,103 | 112 | 0.99885 | 0.00115 | 97,047 | 4,055,486 | 41.76 | 35 |
| 36 | 96,991 | 117 | 0.99880 | 0.00120 | 96,933 | 3,958,439 | 40.81 | 36 |
| 37 | 96,875 | 123 | 0.99873 | 0.00127 | 96,813 | 3,861,506 | 39.86 | 37 |
| 38 | 96,752 | 131 | 0.99865 | 0.00135 | 96,686 | 3,764,693 | 38.91 | 38 |
| 39 | 96,621 | 140 | 0.99855 | 0.00145 | 96,551 | 3,668,007 | 37.96 | 39 |
| 40 | 96,481 | 150 | 0.99844 | 0.00156 | 96,406 | 3,571,456 | 37.02 | 40 |
| 41 | 96,330 | 162 | 0.99831 | 0.00169 | 96,249 | 3,475,050 | 36.07 | 41 |
| 42 | 96,168 | 176 | 0.99817 | 0.00183 | 96,080 | 3,378,801 | 35.13 | 42 |
| 43 | 95,992 | 189 | 0.99803 | 0.00197 | 95,898 | 3,282,721 | 34.20 | 43 |
| 44 | 95,803 | 204 | 0.99787 | 0.00213 | 95,701 | 3,186,823 | 33.26 | 44 |
| 45 | 95,599 | 220 | 0.99770 | 0.00230 | 95,489 | 3,091,122 | 32.33 | 45 |
| 46 | 95,379 | 239 | 0.99749 | 0.00251 | 95,260 | 2,995,633 | 31.41 | 46 |
| 47 | 95,140 | 263 | 0.99723 | 0.00277 | 95,008 | 2,900,373 | 30.49 | 47 |
| 48 | 94,877 | 293 | 0.99692 | 0.00308 | 94,730 | 2,805,364 | 29.57 | 48 |
| 49 | 94,584 | 326 | 0.99656 | 0.00344 | 94,421 | 2,710,634 | 28.66 | 49 |
| 50 | 94,259 | 362 | 0.99616 | 0.00384 | 94,077 | 2,616,213 | 27.76 | 50 |
| 51 | 93,896 | 402 | 0.99572 | 0.00428 | 93,695 | 2,522,135 | 26.86 | 51 |
| 52 | 93,494 | 446 | 0.99523 | 0.00477 | 93,271 | 2,428,440 | 25.97 | 52 |
| 53 | 93,048 | 490 | 0.99473 | 0.00527 | 92,803 | 2,335,169 | 25.10 | 53 |
| 54 | 92,558 | 536 | 0.99421 | 0.00579 | 92,290 | 2,242,365 | 24.23 | 54 |

Table 1 Irish Life Table No. 14 2001-2003, Males (contd.)

| Age x | l_x | d_x | p_x | q_x | L_x | T_x | e^o_x | Age x |
|-------|--------|-------|---------|---------|--------|-----------|---------|-------|
| 55 | 92,022 | 586 | 0.99363 | 0.00637 | 91,729 | 2,150,076 | 23.36 | 55 |
| 56 | 91,436 | 643 | 0.99297 | 0.00703 | 91,114 | 2,058,347 | 22.51 | 56 |
| 57 | 90,793 | 709 | 0.99219 | 0.00781 | 90,438 | 1,967,233 | 21.67 | 57 |
| 58 | 90,083 | 783 | 0.99131 | 0.00869 | 89,692 | 1,876,795 | 20.83 | 58 |
| 59 | 89,300 | 863 | 0.99033 | 0.00967 | 88,869 | 1,787,103 | 20.01 | 59 |
| 60 | 88,437 | 950 | 0.98925 | 0.01075 | 87,962 | 1,698,234 | 19.20 | 60 |
| 61 | 87,487 | 1046 | 0.98804 | 0.01196 | 86,964 | 1,610,272 | 18.41 | 61 |
| 62 | 86,441 | 1152 | 0.98668 | 0.01332 | 85,865 | 1,523,308 | 17.62 | 62 |
| 63 | 85,289 | 1265 | 0.98517 | 0.01483 | 84,657 | 1,437,444 | 16.85 | 63 |
| 64 | 84,024 | 1384 | 0.98353 | 0.01647 | 83,332 | 1,352,787 | 16.10 | 64 |
| 65 | 82,640 | 1511 | 0.98172 | 0.01828 | 81,884 | 1,269,455 | 15.36 | 65 |
| 66 | 81,129 | 1647 | 0.97970 | 0.02030 | 80,306 | 1,187,571 | 14.64 | 66 |
| 67 | 79,482 | 1792 | 0.97745 | 0.02255 | 78,586 | 1,107,265 | 13.93 | 67 |
| 68 | 77,690 | 1944 | 0.97498 | 0.02502 | 76,718 | 1,028,679 | 13.24 | 68 |
| 69 | 75,746 | 2097 | 0.97232 | 0.02768 | 74,698 | 951,961 | 12.57 | 69 |
| 70 | 73,649 | 2256 | 0.96937 | 0.03063 | 72,522 | 877,263 | 11.91 | 70 |
| 71 | 71,394 | 2424 | 0.96605 | 0.03395 | 70,182 | 804,742 | 11.27 | 71 |
| 72 | 68,970 | 2602 | 0.96227 | 0.03773 | 67,669 | 734,560 | 10.65 | 72 |
| 73 | 66,368 | 2788 | 0.95799 | 0.04201 | 64,974 | 666,891 | 10.05 | 73 |
| 74 | 63,579 | 2974 | 0.95323 | 0.04677 | 62,093 | 601,917 | 9.47 | 74 |
| 75 | 60,606 | 3156 | 0.94793 | 0.05207 | 59,028 | 539,825 | 8.91 | 75 |
| 76 | 57,450 | 3330 | 0.94204 | 0.05796 | 55,785 | 480,797 | 8.37 | 76 |
| 77 | 54,120 | 3491 | 0.93549 | 0.06451 | 52,375 | 425,012 | 7.85 | 77 |
| 78 | 50,629 | 3641 | 0.92809 | 0.07191 | 48,809 | 372,637 | 7.36 | 78 |
| 79 | 46,989 | 3770 | 0.91978 | 0.08022 | 45,104 | 323,828 | 6.89 | 79 |
| 80 | 43,219 | 3862 | 0.91064 | 0.08936 | 41,288 | 278,724 | 6.45 | 80 |
| 81 | 39,357 | 3905 | 0.90078 | 0.09922 | 37,404 | 237,436 | 6.03 | 81 |
| 82 | 35,452 | 3886 | 0.89038 | 0.10962 | 33,509 | 200,031 | 5.64 | 82 |
| 83 | 31,566 | 3810 | 0.87930 | 0.12070 | 29,661 | 166,522 | 5.28 | 83 |
| 84 | 27,756 | 3682 | 0.86733 | 0.13267 | 25,915 | 136,862 | 4.93 | 84 |
| 85 | 24,073 | 3501 | 0.85455 | 0.14545 | 22,323 | 110,947 | 4.61 | 85 |
| 86 | 20,572 | 3270 | 0.84105 | 0.15895 | 18,937 | 88,624 | 4.31 | 86 |
| 87 | 17,302 | 2994 | 0.82693 | 0.17307 | 15,805 | 69,687 | 4.03 | 87 |
| 88 | 14,308 | 2689 | 0.81204 | 0.18796 | 12,963 | 53,882 | 3.77 | 88 |
| 89 | 11,618 | 2365 | 0.79642 | 0.20358 | 10,436 | 40,919 | 3.52 | 89 |
| 90 | 9,253 | 2035 | 0.78006 | 0.21994 | 8,236 | 30,483 | 3.29 | 90 |
| 91 | 7,218 | 1711 | 0.76297 | 0.23703 | 6,363 | 22,248 | 3.08 | 91 |
| 92 | 5,507 | 1403 | 0.74515 | 0.25485 | 4,805 | 15,885 | 2.88 | 92 |
| 93 | 4,104 | 1122 | 0.72659 | 0.27341 | 3,543 | 11,080 | 2.70 | 93 |
| 94 | 2,982 | 873 | 0.70730 | 0.29270 | 2,545 | 7,537 | 2.53 | 94 |
| 95 | 2,109 | 660 | 0.68728 | 0.31272 | 1,779 | 4,992 | 2.37 | 95 |
| 96 | 1,449 | 483 | 0.66652 | 0.33348 | 1,208 | 3,213 | 2.22 | 96 |
| 97 | 966 | 343 | 0.64503 | 0.35497 | 795 | 2,005 | 2.08 | 97 |
| 98 | 623 | 235 | 0.62281 | 0.37719 | 506 | 1,210 | 1.94 | 98 |
| 99 | 388 | 155 | 0.59985 | 0.40015 | 310 | 705 | 1.82 | 99 |
| 100 | 233 | 99 | 0.57616 | 0.42384 | 183 | 394 | 1.69 | 100 |
| 101 | 134 | 60 | 0.55174 | 0.44826 | 104 | 211 | 1.57 | 101 |
| 102 | 74 | 35 | 0.52658 | 0.47342 | 56 | 107 | 1.44 | 102 |
| 103 | 39 | 19 | 0.50069 | 0.49931 | 29 | 50 | 1.29 | 103 |
| 104 | 20 | 10 | 0.47407 | 0.52593 | 14 | 21 | 1.08 | 104 |
| 105 | 9 | 5 | 0.44671 | 0.55329 | 7 | 7 | 0.72 | 105 |

Table 2 Irish Life Table No. 14 2001-2003, Females

| Age x | l_x | d_x | p_x | q_x | L_x | T_x | e^o_x | Age x |
|-------|---------|-------|---------|---------|--------|-----------|---------|-------|
| 0 | 100,000 | 516 | 0.99484 | 0.00516 | 99,543 | 8,025,136 | 80.25 | 0 |
| 1 | 99,484 | 37 | 0.99963 | 0.00037 | 99,466 | 7,925,594 | 79.67 | 1 |
| 2 | 99,447 | 23 | 0.99977 | 0.00023 | 99,436 | 7,826,128 | 78.70 | 2 |
| 3 | 99,424 | 19 | 0.99981 | 0.00019 | 99,415 | 7,726,692 | 77.71 | 3 |
| 4 | 99,406 | 16 | 0.99984 | 0.00016 | 99,398 | 7,627,277 | 76.73 | 4 |
| 5 | 99,390 | 9 | 0.99991 | 0.00009 | 99,385 | 7,527,879 | 75.74 | 5 |
| 6 | 99,380 | 8 | 0.99991 | 0.00009 | 99,376 | 7,428,494 | 74.75 | 6 |
| 7 | 99,372 | 10 | 0.99990 | 0.00010 | 99,367 | 7,329,118 | 73.75 | 7 |
| 8 | 99,362 | 10 | 0.99990 | 0.00010 | 99,357 | 7,229,752 | 72.76 | 8 |
| 9 | 99,352 | 10 | 0.99990 | 0.00010 | 99,347 | 7,130,395 | 71.77 | 9 |
| 10 | 99,342 | 10 | 0.99990 | 0.00010 | 99,337 | 7,031,048 | 70.78 | 10 |
| 11 | 99,332 | 11 | 0.99989 | 0.00011 | 99,327 | 6,931,710 | 69.78 | 11 |
| 12 | 99,321 | 13 | 0.99987 | 0.00013 | 99,314 | 6,832,384 | 68.79 | 12 |
| 13 | 99,308 | 15 | 0.99984 | 0.00016 | 99,300 | 6,733,069 | 67.80 | 13 |
| 14 | 99,292 | 19 | 0.99981 | 0.00019 | 99,283 | 6,633,769 | 66.81 | 14 |
| 15 | 99,274 | 23 | 0.99977 | 0.00023 | 99,262 | 6,534,486 | 65.82 | 15 |
| 16 | 99,251 | 26 | 0.99974 | 0.00026 | 99,238 | 6,435,224 | 64.84 | 16 |
| 17 | 99,225 | 29 | 0.99971 | 0.00029 | 99,210 | 6,335,986 | 63.85 | 17 |
| 18 | 99,196 | 31 | 0.99969 | 0.00031 | 99,180 | 6,236,776 | 62.87 | 18 |
| 19 | 99,165 | 32 | 0.99968 | 0.00032 | 99,149 | 6,137,596 | 61.89 | 19 |
| 20 | 99,133 | 33 | 0.99967 | 0.00033 | 99,116 | 6,038,447 | 60.91 | 20 |
| 21 | 99,100 | 34 | 0.99966 | 0.00034 | 99,083 | 5,939,330 | 59.93 | 21 |
| 22 | 99,066 | 34 | 0.99966 | 0.00034 | 99,049 | 5,840,247 | 58.95 | 22 |
| 23 | 99,032 | 34 | 0.99966 | 0.00034 | 99,015 | 5,741,198 | 57.97 | 23 |
| 24 | 98,998 | 33 | 0.99966 | 0.00034 | 98,982 | 5,642,183 | 56.99 | 24 |
| 25 | 98,965 | 32 | 0.99967 | 0.00033 | 98,949 | 5,543,201 | 56.01 | 25 |
| 26 | 98,932 | 32 | 0.99968 | 0.00032 | 98,917 | 5,444,253 | 55.03 | 26 |
| 27 | 98,901 | 32 | 0.99968 | 0.00032 | 98,885 | 5,345,336 | 54.05 | 27 |
| 28 | 98,869 | 32 | 0.99967 | 0.00033 | 98,852 | 5,246,452 | 53.06 | 28 |
| 29 | 98,836 | 33 | 0.99967 | 0.00033 | 98,820 | 5,147,599 | 52.08 | 29 |
| 30 | 98,803 | 34 | 0.99965 | 0.00035 | 98,786 | 5,048,780 | 51.10 | 30 |
| 31 | 98,769 | 36 | 0.99963 | 0.00037 | 98,751 | 4,949,994 | 50.12 | 31 |
| 32 | 98,733 | 40 | 0.99960 | 0.00040 | 98,713 | 4,851,243 | 49.14 | 32 |
| 33 | 98,693 | 46 | 0.99954 | 0.00046 | 98,670 | 4,752,530 | 48.15 | 33 |
| 34 | 98,647 | 53 | 0.99946 | 0.00054 | 98,620 | 4,653,861 | 47.18 | 34 |
| 35 | 98,593 | 62 | 0.99937 | 0.00063 | 98,562 | 4,555,241 | 46.20 | 35 |
| 36 | 98,531 | 71 | 0.99928 | 0.00072 | 98,496 | 4,456,678 | 45.23 | 36 |
| 37 | 98,461 | 78 | 0.99920 | 0.00080 | 98,421 | 4,358,182 | 44.26 | 37 |
| 38 | 98,382 | 84 | 0.99914 | 0.00086 | 98,340 | 4,259,761 | 43.30 | 38 |
| 39 | 98,298 | 90 | 0.99909 | 0.00091 | 98,253 | 4,161,421 | 42.33 | 39 |
| 40 | 98,208 | 95 | 0.99903 | 0.00097 | 98,161 | 4,063,168 | 41.37 | 40 |
| 41 | 98,113 | 101 | 0.99897 | 0.00103 | 98,063 | 3,965,007 | 40.41 | 41 |
| 42 | 98,012 | 109 | 0.99889 | 0.00111 | 97,958 | 3,866,944 | 39.45 | 42 |
| 43 | 97,903 | 119 | 0.99879 | 0.00121 | 97,844 | 3,768,986 | 38.50 | 43 |
| 44 | 97,785 | 129 | 0.99868 | 0.00132 | 97,720 | 3,671,142 | 37.54 | 44 |
| 45 | 97,655 | 141 | 0.99855 | 0.00145 | 97,585 | 3,573,422 | 36.59 | 45 |
| 46 | 97,514 | 155 | 0.99841 | 0.00159 | 97,437 | 3,475,837 | 35.64 | 46 |
| 47 | 97,359 | 173 | 0.99823 | 0.00177 | 97,273 | 3,378,401 | 34.70 | 47 |
| 48 | 97,186 | 194 | 0.99801 | 0.00199 | 97,090 | 3,281,128 | 33.76 | 48 |
| 49 | 96,993 | 218 | 0.99776 | 0.00224 | 96,884 | 3,184,039 | 32.83 | 49 |
| 50 | 96,775 | 244 | 0.99748 | 0.00252 | 96,653 | 3,087,155 | 31.90 | 50 |
| 51 | 96,531 | 271 | 0.99719 | 0.00281 | 96,396 | 2,990,502 | 30.98 | 51 |
| 52 | 96,260 | 297 | 0.99691 | 0.00309 | 96,111 | 2,894,106 | 30.07 | 52 |
| 53 | 95,963 | 321 | 0.99665 | 0.00335 | 95,802 | 2,797,995 | 29.16 | 53 |
| 54 | 95,642 | 343 | 0.99642 | 0.00358 | 95,470 | 2,702,193 | 28.25 | 54 |

Table 2 Irish Life Table No. 14 2001-2003, Females (contd.)

| Age x | l_x | d_x | p_x | q_x | L_x | T_x | e^o_x | Age x |
|-------|--------|-------|---------|---------|--------|-----------|---------|-------|
| 55 | 95,299 | 366 | 0.99616 | 0.00384 | 95,116 | 2,606,722 | 27.35 | 55 |
| 56 | 94,933 | 393 | 0.99586 | 0.00414 | 94,737 | 2,511,606 | 26.46 | 56 |
| 57 | 94,540 | 429 | 0.99546 | 0.00454 | 94,325 | 2,416,870 | 25.56 | 57 |
| 58 | 94,111 | 474 | 0.99496 | 0.00504 | 93,873 | 2,322,544 | 24.68 | 58 |
| 59 | 93,636 | 525 | 0.99439 | 0.00561 | 93,374 | 2,228,671 | 23.80 | 59 |
| 60 | 93,111 | 582 | 0.99375 | 0.00625 | 92,820 | 2,135,297 | 22.93 | 60 |
| 61 | 92,529 | 643 | 0.99305 | 0.00695 | 92,208 | 2,042,477 | 22.07 | 61 |
| 62 | 91,887 | 708 | 0.99230 | 0.00770 | 91,533 | 1,950,269 | 21.22 | 62 |
| 63 | 91,179 | 772 | 0.99153 | 0.00847 | 90,793 | 1,858,736 | 20.39 | 63 |
| 64 | 90,406 | 837 | 0.99074 | 0.00926 | 89,988 | 1,767,944 | 19.56 | 64 |
| 65 | 89,569 | 907 | 0.98987 | 0.01013 | 89,116 | 1,677,956 | 18.73 | 65 |
| 66 | 88,662 | 989 | 0.98884 | 0.01116 | 88,168 | 1,588,840 | 17.92 | 66 |
| 67 | 87,673 | 1088 | 0.98759 | 0.01241 | 87,129 | 1,500,672 | 17.12 | 67 |
| 68 | 86,585 | 1202 | 0.98612 | 0.01388 | 85,984 | 1,413,543 | 16.33 | 68 |
| 69 | 85,383 | 1326 | 0.98447 | 0.01553 | 84,720 | 1,327,559 | 15.55 | 69 |
| 70 | 84,056 | 1463 | 0.98260 | 0.01740 | 83,325 | 1,242,840 | 14.79 | 70 |
| 71 | 82,594 | 1612 | 0.98048 | 0.01952 | 81,788 | 1,159,515 | 14.04 | 71 |
| 72 | 80,982 | 1778 | 0.97805 | 0.02195 | 80,093 | 1,077,727 | 13.31 | 72 |
| 73 | 79,204 | 1949 | 0.97539 | 0.02461 | 78,229 | 997,634 | 12.60 | 73 |
| 74 | 77,255 | 2124 | 0.97250 | 0.02750 | 76,192 | 919,405 | 11.90 | 74 |
| 75 | 75,130 | 2311 | 0.96924 | 0.03076 | 73,975 | 843,212 | 11.22 | 75 |
| 76 | 72,819 | 2516 | 0.96544 | 0.03456 | 71,561 | 769,237 | 10.56 | 76 |
| 77 | 70,303 | 2747 | 0.96092 | 0.03908 | 68,929 | 697,676 | 9.92 | 77 |
| 78 | 67,556 | 3007 | 0.95549 | 0.04451 | 66,052 | 628,746 | 9.31 | 78 |
| 79 | 64,549 | 3282 | 0.94916 | 0.05084 | 62,908 | 562,694 | 8.72 | 79 |
| 80 | 61,267 | 3552 | 0.94202 | 0.05798 | 59,491 | 499,786 | 8.16 | 80 |
| 81 | 57,715 | 3797 | 0.93421 | 0.06579 | 55,816 | 440,295 | 7.63 | 81 |
| 82 | 53,918 | 3997 | 0.92588 | 0.07412 | 51,920 | 384,479 | 7.13 | 82 |
| 83 | 49,921 | 4150 | 0.91688 | 0.08312 | 47,846 | 332,559 | 6.66 | 83 |
| 84 | 45,772 | 4257 | 0.90699 | 0.09301 | 43,643 | 284,713 | 6.22 | 84 |
| 85 | 41,514 | 4305 | 0.89629 | 0.10371 | 39,362 | 241,070 | 5.81 | 85 |
| 86 | 37,209 | 4283 | 0.88489 | 0.11511 | 35,067 | 201,708 | 5.42 | 86 |
| 87 | 32,926 | 4184 | 0.87292 | 0.12708 | 30,833 | 166,641 | 5.06 | 87 |
| 88 | 28,741 | 4019 | 0.86017 | 0.13983 | 26,732 | 135,808 | 4.73 | 88 |
| 89 | 24,722 | 3790 | 0.84671 | 0.15329 | 22,828 | 109,076 | 4.41 | 89 |
| 90 | 20,933 | 3505 | 0.83254 | 0.16746 | 19,180 | 86,248 | 4.12 | 90 |
| 91 | 17,427 | 3178 | 0.81765 | 0.18235 | 15,838 | 67,068 | 3.85 | 91 |
| 92 | 14,249 | 2821 | 0.80204 | 0.19796 | 12,839 | 51,229 | 3.60 | 92 |
| 93 | 11,429 | 2449 | 0.78571 | 0.21429 | 10,204 | 38,390 | 3.36 | 93 |
| 94 | 8,980 | 2077 | 0.76867 | 0.23133 | 7,941 | 28,186 | 3.14 | 94 |
| 95 | 6,902 | 1719 | 0.75091 | 0.24909 | 6,043 | 20,245 | 2.93 | 95 |
| 96 | 5,183 | 1387 | 0.73244 | 0.26756 | 4,490 | 14,203 | 2.74 | 96 |
| 97 | 3,796 | 1089 | 0.71324 | 0.28676 | 3,252 | 9,713 | 2.56 | 97 |
| 98 | 2,708 | 830 | 0.69333 | 0.30667 | 2,292 | 6,461 | 2.39 | 98 |
| 99 | 1,877 | 614 | 0.67271 | 0.32729 | 1,570 | 4,168 | 2.22 | 99 |
| 100 | 1,263 | 440 | 0.65137 | 0.34863 | 1,043 | 2,598 | 2.06 | 100 |
| 101 | 823 | 305 | 0.62931 | 0.37069 | 670 | 1,556 | 1.89 | 101 |
| 102 | 518 | 204 | 0.60653 | 0.39347 | 416 | 885 | 1.71 | 102 |
| 103 | 314 | 131 | 0.58304 | 0.41696 | 249 | 470 | 1.50 | 103 |
| 104 | 183 | 81 | 0.55883 | 0.44117 | 143 | 221 | 1.21 | 104 |
| 105 | 102 | 48 | 0.53391 | 0.46609 | 78 | 78 | 0.77 | 105 |

Table 3 Expectation of Life at various ages, 1871-2002

| Irish Life Table No. | Period | Age in years | | | | | | | | | | |
|----------------------|---------|--------------|------|------|------|------|------|------|------|------|------|------|
| | | 0 | 5 | 10 | 15 | 20 | 25 | 35 | 45 | 55 | 65 | 75 |
| Males | | | | | | | | | | | | |
| | 1870-72 | 49.6 | | | 46.8 | | 39.0 | 31.8 | 24.4 | 17.5 | 11.1 | 6.5 |
| | 1881-83 | 49.4 | | | 46.0 | | 38.1 | 30.7 | 23.4 | 16.7 | 10.8 | 6.3 |
| | 1890-92 | 49.1 | | | 45.8 | | 37.8 | 30.6 | 23.4 | 16.5 | 10.5 | 5.8 |
| | 1900-02 | 49.3 | | | 46.2 | | 38.2 | 31.0 | 23.8 | 16.9 | 10.8 | 5.8 |
| | 1910-12 | 53.6 | | | 49.2 | | 41.0 | 33.5 | 25.9 | 18.9 | 13.0 | 8.0 |
| 1 | 1925-27 | 57.4 | 59.5 | 55.2 | 50.7 | 46.4 | 42.4 | 34.4 | 26.5 | 19.1 | 12.8 | 7.7 |
| 2 | 1935-37 | 58.2 | 60.1 | 55.8 | 51.2 | 46.8 | 42.7 | 34.4 | 26.3 | 18.8 | 12.5 | 7.9 |
| 3 | 1940-42 | 59.0 | 60.7 | 56.3 | 51.6 | 47.2 | 43.1 | 34.8 | 26.5 | 18.8 | 12.3 | 7.3 |
| 4 | 1945-47 | 60.5 | 61.5 | 56.9 | 52.2 | 47.8 | 43.5 | 34.9 | 26.4 | 18.6 | 12.0 | 6.9 |
| 5 | 1950-52 | 64.5 | 63.6 | 58.8 | 54.0 | 49.3 | 44.8 | 35.8 | 27.0 | 19.0 | 12.1 | 6.8 |
| 6 | 1960-62 | 68.1 | 65.7 | 60.8 | 56.0 | 51.1 | 46.4 | 37.0 | 27.8 | 19.5 | 12.6 | 7.1 |
| 7 | 1965-67 | 68.6 | 65.7 | 60.8 | 56.0 | 51.2 | 46.4 | 36.9 | 27.7 | 19.3 | 12.4 | 7.3 |
| 8 | 1970-72 | 68.8 | 65.5 | 60.6 | 55.7 | 51.0 | 46.3 | 36.8 | 27.6 | 19.3 | 12.4 | 7.3 |
| 9 | 1978-80 | 69.5 | 65.7 | 60.8 | 55.9 | 51.1 | 46.4 | 36.9 | 27.7 | 19.3 | 12.4 | 7.1 |
| 10 | 1980-82 | 70.1 | 66.1 | 61.3 | 56.4 | 51.6 | 46.9 | 37.3 | 28.1 | 19.6 | 12.6 | 7.3 |
| 11 | 1985-87 | 71.0 | 66.8 | 61.9 | 57.0 | 52.2 | 47.4 | 37.9 | 28.5 | 19.8 | 12.6 | 7.3 |
| 12 | 1990-92 | 72.3 | 68.0 | 63.1 | 58.2 | 53.4 | 48.6 | 39.2 | 29.7 | 20.9 | 13.4 | 7.8 |
| 13 | 1995-97 | 73.0 | 68.6 | 63.6 | 58.7 | 53.9 | 49.3 | 39.8 | 30.4 | 21.5 | 13.8 | 8.0 |
| 14 | 2001-03 | 75.1 | 70.7 | 65.7 | 60.8 | 56.0 | 51.3 | 41.8 | 32.3 | 23.4 | 15.4 | 8.9 |
| Females | | | | | | | | | | | | |
| | 1870-72 | 50.9 | | | 47.7 | | 39.8 | 32.4 | 25.0 | 17.7 | 11.2 | 6.6 |
| | 1881-83 | 49.9 | | | 46.2 | | 38.3 | 31.0 | 23.7 | 16.7 | 10.7 | 6.3 |
| | 1890-92 | 49.2 | | | 45.5 | | 37.7 | 30.5 | 23.2 | 16.2 | 10.3 | 5.9 |
| | 1900-02 | 49.6 | | | 46.2 | | 38.3 | 30.9 | 23.7 | 16.7 | 10.6 | 5.9 |
| | 1910-12 | 54.1 | | | 49.4 | | 41.4 | 33.8 | 26.4 | 19.2 | 13.4 | 8.2 |
| 1 | 1925-27 | 57.9 | 59.2 | 54.9 | 50.5 | 46.4 | 42.4 | 34.7 | 27.0 | 19.6 | 13.4 | 8.4 |
| 2 | 1935-37 | 59.6 | 60.4 | 56.1 | 51.6 | 47.3 | 43.2 | 35.2 | 27.2 | 19.6 | 13.1 | 8.4 |
| 3 | 1940-42 | 61.0 | 61.4 | 56.9 | 52.4 | 48.0 | 44.0 | 35.8 | 27.6 | 19.8 | 13.2 | 8.1 |
| 4 | 1945-47 | 62.4 | 62.5 | 57.9 | 53.2 | 48.8 | 44.7 | 36.3 | 28.0 | 20.1 | 13.1 | 7.7 |
| 5 | 1950-52 | 67.1 | 65.4 | 60.6 | 55.8 | 51.2 | 46.6 | 37.7 | 28.9 | 20.6 | 13.3 | 7.6 |
| 6 | 1960-62 | 71.9 | 69.0 | 64.1 | 59.2 | 54.3 | 49.5 | 39.9 | 30.7 | 22.1 | 14.4 | 8.1 |
| 7 | 1965-67 | 72.9 | 69.6 | 64.8 | 59.8 | 54.9 | 50.1 | 40.4 | 31.1 | 22.4 | 14.7 | 8.4 |
| 8 | 1970-72 | 73.5 | 70.0 | 65.1 | 60.2 | 55.3 | 50.5 | 40.8 | 31.4 | 22.7 | 15.0 | 8.5 |
| 9 | 1978-80 | 75.0 | 71.0 | 66.1 | 61.1 | 56.2 | 51.4 | 41.6 | 32.1 | 23.3 | 15.4 | 8.8 |
| 10 | 1980-82 | 75.6 | 71.5 | 66.6 | 61.7 | 56.8 | 51.9 | 42.1 | 32.6 | 23.7 | 15.7 | 9.1 |
| 11 | 1985-87 | 76.7 | 72.4 | 67.5 | 62.5 | 57.6 | 52.7 | 42.9 | 33.3 | 24.3 | 16.2 | 9.5 |
| 12 | 1990-92 | 77.9 | 73.5 | 68.6 | 63.6 | 58.7 | 53.8 | 44.0 | 34.5 | 25.4 | 17.1 | 10.2 |
| 13 | 1995-97 | 78.5 | 74.1 | 69.1 | 64.2 | 59.3 | 54.4 | 44.6 | 35.0 | 25.8 | 17.4 | 10.4 |
| 14 | 2001-03 | 80.3 | 75.7 | 70.8 | 65.8 | 60.9 | 56.0 | 46.2 | 36.6 | 27.4 | 18.7 | 11.2 |

1871-1911 data from the Report on the Commission on Emigration and other Population Problems 1948-1954

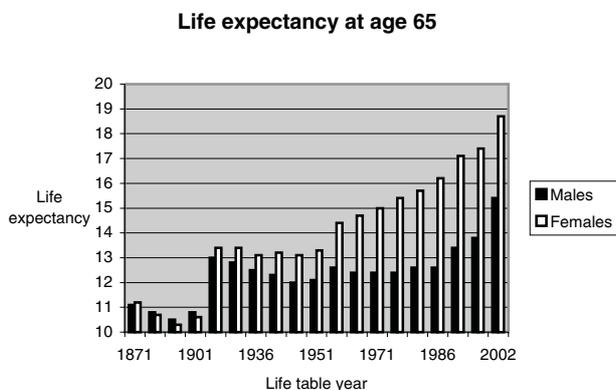


Table 4 Life Expectancy in 2002 at various ages for some European Countries

| | Age | | | | | | | |
|---|----------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| | 0 | 15 | 30 | 45 | 55 | 65 | 75 | 85 |
| | Males | | | | | | | |
| EU15 European Union (15 countries) | 75.8 | 61.4 | 47.0 | 32.9 | 24.2 | 16.3 | 9.8 | 5.0 |
| EU 25 | 74.8 | 60.4 | 46.1 | 32.1 | 23.6 | 16.0 | 9.7 | 5.0 |
| BE Belgium | 75.1 | 60.7 | 46.4 | 32.3 | 23.7 | 15.8 | 9.3 | 4.7 |
| DK Denmark | 74.8 | 60.3 | 45.9 | 31.8 | 23.1 | 15.4 | 9.1 | 4.8 |
| DE Germany (including ex-GDR from 1991) | : | : | : | : | : | : | : | : |
| GR Greece | 75.4 | : | : | : | : | : | : | : |
| ES Spain | 75.7 | : | : | : | : | : | : | : |
| FR France | 75.6 | : | : | : | : | : | : | : |
| IE Ireland | 75.1 | 60.8 | 46.5 | 32.3 | 23.4 | 15.4 | 8.9 | 4.6 |
| IT Italy | 76.8 | : | : | : | : | : | : | : |
| LU Luxembourg (Grand-Duché) | 74.9 | 60.7 | 46.5 | 32.4 | 23.6 | 15.9 | 9.6 | 4.9 |
| NL Netherlands | 76.0 | 61.6 | 47.0 | 32.7 | 23.7 | 15.6 | 9.0 | 4.6 |
| AT Austria | 75.8 | 61.3 | 47.0 | 32.9 | 24.2 | 16.3 | 9.8 | 5.0 |
| PT Portugal | 73.8 | 59.5 | 45.3 | 31.9 | 23.4 | 15.6 | 9.1 | 4.6 |
| FI Finland | 74.9 | 60.3 | 46.0 | 32.1 | 23.6 | 15.8 | 9.3 | 4.8 |
| SE Sweden | 77.7 | 63.2 | 48.6 | 34.3 | 25.2 | 16.9 | 9.9 | 4.9 |
| UK United Kingdom | : | : | : | : | : | : | : | : |
| CY Cyprus | : | : | : | : | : | : | : | : |
| CZ Czech Republic | 72.1 | 57.7 | 43.3 | 29.3 | 21.0 | 14.0 | 8.4 | 4.4 |
| EE Estonia | 65.3 | 51.1 | 37.6 | 25.2 | 18.5 | 12.7 | 8.1 | 4.7 |
| HU Hungary | 68.4 | 54.1 | 39.7 | 26.4 | 19.3 | 13.1 | 8.2 | 4.6 |
| LT Lithuania | 66.3 | 52.2 | 38.6 | 26.2 | 19.2 | 13.3 | 8.5 | 4.9 |
| LV Latvia | 64.8 | 50.9 | 37.3 | 25.0 | 18.1 | 12.5 | 8.0 | 4.7 |
| MT Malta | 75.9 | 61.5 | 47.0 | 32.5 | 23.3 | 14.9 | 8.5 | 3.9 |
| PL Poland | 70.4 | 56.2 | 42.0 | 28.4 | 20.6 | 14.0 | 8.7 | 4.9 |
| SI Slovenia | 72.7 | 58.3 | 44.0 | 30.1 | 21.8 | 14.6 | 8.8 | 4.6 |
| SK Slovakia | 69.9 | 55.6 | 41.3 | 27.6 | 19.8 | 13.3 | 8.2 | 4.6 |
| | Females | | | | | | | |
| EU15 European Union (15 countries) | 81.6 | 67.1 | 52.4 | 37.9 | 28.6 | 19.9 | 12.1 | 6.0 |
| EU 25 | 81.1 | 66.6 | 51.9 | 37.4 | 28.2 | 19.6 | 11.8 | 5.9 |
| BE Belgium | 81.1 | 66.6 | 51.9 | 37.4 | 28.3 | 19.7 | 11.8 | 5.7 |
| DK Denmark | 79.5 | 64.9 | 50.1 | 35.7 | 26.6 | 18.3 | 11.4 | 6.2 |
| DE Germany (including ex-GDR from 1991) | : | : | : | : | : | : | : | : |
| GR Greece | 80.7 | : | : | : | : | : | : | : |
| ES Spain | 83.1 | : | : | : | : | : | : | : |
| FR France | 82.9 | : | : | : | : | : | : | : |
| IE Ireland | 80.3 | 65.8 | 51.1 | 36.6 | 27.4 | 18.7 | 11.2 | 5.8 |
| IT Italy | 82.9 | : | : | : | : | : | : | : |
| LU Luxembourg (Grand-Duché) | 81.5 | 67.1 | 52.2 | 37.7 | 28.6 | 19.9 | 12.1 | 6.4 |
| NL Netherlands | 80.7 | 66.2 | 51.4 | 37.0 | 27.9 | 19.3 | 11.6 | 5.8 |
| AT Austria | 81.7 | 67.0 | 52.3 | 37.8 | 28.5 | 19.7 | 11.8 | 5.8 |
| PT Portugal | 80.5 | 66.1 | 51.4 | 37.0 | 27.8 | 19.0 | 11.1 | 5.2 |
| FI Finland | 81.5 | 66.8 | 52.1 | 37.6 | 28.4 | 19.6 | 11.6 | 5.5 |
| SE Sweden | 82.1 | 67.5 | 52.7 | 38.1 | 28.8 | 20.0 | 12.2 | 6.1 |
| UK United Kingdom | : | : | : | : | : | : | : | : |
| CY Cyprus | : | : | : | : | : | : | : | : |
| CZ Czech Republic | 78.7 | 64.2 | 49.4 | 34.9 | 25.8 | 17.4 | 10.1 | 5.0 |
| EE Estonia | 77.1 | 62.7 | 48.0 | 34.0 | 25.4 | 17.3 | 10.2 | 5.1 |
| HU Hungary | 76.7 | 62.4 | 47.7 | 33.6 | 25.0 | 17.0 | 10.1 | 5.1 |
| LT Lithuania | 77.5 | 63.3 | 48.7 | 34.6 | 25.8 | 17.7 | 10.6 | 5.3 |
| LV Latvia | 76.0 | 62.1 | 47.5 | 33.4 | 24.8 | 16.9 | 10.0 | 5.0 |
| MT Malta | 81.0 | 66.6 | 51.8 | 37.2 | 27.8 | 19.0 | 11.6 | 6.3 |
| PL Poland | 78.7 | 64.4 | 49.7 | 35.2 | 26.3 | 17.9 | 10.6 | 5.3 |
| SI Slovenia | 80.5 | 65.9 | 51.1 | 36.6 | 27.5 | 18.9 | 11.3 | 5.6 |
| SK Slovakia | 77.8 | 63.6 | 48.9 | 34.4 | 25.3 | 17.0 | 10.0 | 5.0 |

Source : Eurostat New Cronos Database

Table 5 Life expectancy at birth and at age 65 for some European Countries since 1960

| | Age = 0 | | | | | Age = 65 | | | | |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1960 | 1970 | 1980 | 1990 | 2002 | 1960 | 1970 | 1980 | 1990 | 2002 |
| Males | | | | | | | | | | |
| EU15 European Union (15 countries) | 67.4 | 68.4 | 70.5 | 72.8 | 75.8 | 12.7 | 12.6 | 13.4 | 14.6 | 16.3 |
| BE Belgium | 67.7 | 67.8 | 70.0 | 72.7 | 75.1 | 12.4 | 12.1 | 13.0 | 14.3 | 15.8 |
| DK Denmark | 70.4 | 70.7 | 71.2 | 72.0 | 74.8 | 13.7 | 13.7 | 13.6 | 14.0 | 15.4 |
| DE Germany * | 66.9 | 67.3 | 69.9 | 72.0 | : | 12.4 | 11.9 | 13.0 | 14.0 | : |
| GR Greece | 67.3 | 70.1 | 72.2 | 74.6 | 75.4 | 13.4 | 13.9 | 14.6 | 15.7 | : |
| ES Spain | 67.4 | 69.2 | 72.5 | 73.3 | 75.7 | 13.1 | 13.3 | 14.8 | 15.4 | : |
| FR France | 66.9 | 68.4 | 70.2 | 72.8 | 75.6 | 12.5 | 13.0 | 14.0 | 15.5 | : |
| IE Ireland | 68.1 | 68.8 | 70.1 | 72.3 | 75.1 | 12.6 | 12.4 | 12.6 | 13.4 | 15.4 |
| IT Italy | 67.2 | 69.0 | 70.6 | 73.6 | 76.8 | 13.4 | 13.3 | 13.3 | 15.1 | : |
| LU Luxembourg (Grand-Duché) | 66.5 | 67.1 | 69.1 | 72.3 | 74.9 | 12.5 | 12.1 | 12.3 | 14.2 | 15.9 |
| NL Netherlands | 71.5 | 70.7 | 72.7 | 73.8 | 76.0 | 14.2 | 13.6 | 14.0 | 14.4 | 15.6 |
| AT Austria | 66.2 | 66.5 | 69.0 | 72.2 | 75.8 | : | 11.7 | 12.9 | 14.3 | 16.3 |
| PT Portugal | 61.2 | 64.2 | 67.7 | 70.4 | 73.8 | 13.0 | 12.2 | 12.9 | 13.9 | 15.6 |
| FI Finland | 65.5 | 66.5 | 69.2 | 70.9 | 74.9 | : | : | 12.5 | 13.7 | 15.8 |
| SE Sweden | 71.2 | 72.2 | 72.8 | 74.8 | 77.7 | 13.7 | 14.2 | 14.3 | 15.3 | 16.9 |
| UK United Kingdom | 67.9 | 68.7 | 70.2 | 72.9 | : | 11.9 | 12.0 | 12.6 | 14.0 | : |
| CY Cyprus | : | : | 72.3 | 74.1 | : | : | : | 14.5 | 15.8 | : |
| CZ Czech Republic | 67.9 | 66.1 | 66.8 | 67.6 | 72.1 | 12.5 | 11.1 | 11.2 | 11.6 | 14.0 |
| EE Estonia | 64.3 | 65.5 | 64.1 | 64.7 | 65.3 | 12.1 | 12.1 | 11.4 | 12.0 | 12.7 |
| HU Hungary | 65.9 | 66.3 | 65.5 | 65.1 | 68.4 | 12.3 | 12.0 | 11.6 | 12.0 | 13.1 |
| LT Lithuania | 64.9 | 66.9 | 65.5 | 66.4 | 66.3 | : | : | 13.4 | 13.3 | 13.3 |
| LV Latvia | 65.2 | 66.0 | 63.6 | 64.3 | 64.8 | : | : | : | 12.1 | 12.5 |
| MT Malta | 66.5 | 68.4 | 68.5 | 73.7 | 75.9 | 12.0 | 12.1 | 10.7 | 14.2 | 14.9 |
| PL Poland | 64.9 | 66.6 | 66.9 | 66.7 | 70.4 | 12.7 | 12.5 | 12.6 | 12.7 | 14.0 |
| SI Slovenia | 66.1 | 65.0 | 67.4 | 69.5 | 72.7 | 12.0 | 11.3 | 12.6 | 13.2 | 14.6 |
| SK Slovakia | 68.4 | 66.7 | 66.8 | 66.6 | 69.9 | 13.2 | 12.3 | 12.3 | 12.2 | 13.3 |
| Females | | | | | | | | | | |
| EU15 European Union (15 countries) | 72.9 | 74.7 | 77.2 | 79.4 | 81.6 | 15.1 | 15.9 | 17.1 | 18.4 | 19.9 |
| BE Belgium | 73.5 | 74.2 | 76.8 | 79.4 | 81.1 | 14.8 | 15.3 | 16.9 | 18.5 | 19.7 |
| DK Denmark | 74.4 | 75.9 | 77.3 | 77.7 | 79.5 | 15.3 | 16.7 | 17.6 | 17.8 | 18.3 |
| DE Germany * | 72.4 | 73.6 | 76.6 | 78.4 | : | 14.6 | 15.0 | 16.6 | 17.6 | : |
| GR Greece | 72.4 | 73.8 | 76.8 | 79.5 | 80.7 | 14.6 | 15.2 | 16.8 | 18.0 | : |
| ES Spain | 72.2 | 74.8 | 78.6 | 80.3 | 83.1 | 15.3 | 16.0 | 17.9 | 19.0 | : |
| FR France | 73.6 | 75.9 | 78.4 | 80.9 | 82.9 | 15.6 | 16.8 | 18.2 | 19.8 | : |
| IE Ireland | 71.9 | 73.5 | 75.6 | 77.9 | 80.3 | 14.4 | 15.0 | 15.7 | 17.1 | 18.7 |
| IT Italy | 72.3 | 74.9 | 77.4 | 80.1 | 82.9 | 15.3 | 16.2 | 17.1 | 18.8 | : |
| LU Luxembourg (Grand-Duché) | 72.2 | 73.4 | 75.9 | 78.5 | 81.5 | 14.5 | 14.9 | 16.0 | 18.2 | 19.9 |
| NL Netherlands | 75.3 | 76.5 | 79.3 | 80.9 | 80.7 | 15.7 | 16.5 | 18.5 | 18.9 | 19.3 |
| AT Austria | 72.7 | 73.4 | 76.0 | 78.8 | 81.7 | : | 14.9 | 16.2 | 17.8 | 19.7 |
| PT Portugal | 66.8 | 70.8 | 75.2 | 77.4 | 80.5 | 15.3 | 15.0 | 16.5 | 17.0 | 19.0 |
| FI Finland | 72.5 | 75.0 | 77.6 | 78.9 | 81.5 | : | : | 16.5 | 17.7 | 19.6 |
| SE Sweden | 74.9 | 77.1 | 78.8 | 80.4 | 82.1 | 15.3 | 16.8 | 17.9 | 19.0 | 20.0 |
| UK United Kingdom | 73.7 | 75.0 | 76.2 | 78.5 | : | 15.1 | 16.0 | 16.6 | 17.9 | : |
| CY Cyprus | : | : | 77.0 | 78.6 | : | : | : | 16.5 | 17.5 | : |
| CZ Czech Republic | 73.4 | 73.0 | 73.9 | 75.4 | 78.7 | 14.5 | 14.1 | 14.3 | 15.2 | 17.4 |
| EE Estonia | 71.6 | 74.1 | 74.1 | 74.9 | 77.1 | 15.1 | 15.4 | 15.6 | 15.7 | 17.3 |
| HU Hungary | 70.1 | 72.1 | 72.7 | 73.7 | 76.7 | 13.8 | 14.3 | 14.6 | 15.3 | 17.0 |
| LT Lithuania | 71.4 | 74.8 | 75.4 | 76.2 | 77.5 | : | : | 16.6 | 16.8 | 17.7 |
| LV Latvia | 72.4 | 74.4 | 74.2 | 74.6 | 76.0 | : | : | : | 15.8 | 16.9 |
| MT Malta | 70.5 | 72.6 | 72.7 | 78.1 | 81.0 | 13.7 | 13.7 | 12.7 | 16.9 | 19.0 |
| PL Poland | 70.6 | 73.3 | 75.4 | 76.3 | 78.7 | 14.9 | 15.3 | 16.4 | 16.9 | 17.9 |
| SI Slovenia | 72.0 | 72.4 | 75.2 | 77.4 | 80.5 | 13.9 | 14.2 | 15.9 | 16.7 | 18.9 |
| SK Slovakia | 72.7 | 72.9 | 74.3 | 75.4 | 77.8 | 14.6 | 14.5 | 15.4 | 15.7 | 17.0 |

Source : Eurostat New Cronos Database

* DEW Federal Republic of Germany (excluding ex-GDR) for 1960, 1970, 1980; DE Germany (including ex-GDR from 1990)

Background Notes

A Life Table is a method of deriving measures which are representative of average life expectancy prevailing at a given time. It is compiled in a manner that eliminates the effect of the current age composition in question. This age composition may change over time and thus affect comparisons using other measures such as the number of deaths per 1,000 population.

A Life Table is purely a hypothetical calculation. The basic assumption is that a given cohort of births, (100,000), start in a given year. These are subject, as the survivors pass through each year of age, to the mortality rates prevailing for that age in the years for which the Life Table is being calculated. Thus, the Life Table deals with current mortality rates only and no assumptions are made about future changes.

The mortality rates for each age are used to calculate how many of the cohort will reach each year of age until eventually all members of the cohort have died. This enables the total number of years lived by the cohort to be calculated. When this total is divided by the number of persons in the cohort, (100,000) the result is the average number of years lived in the cohort, or the mean expectation of life at birth. The total number of years lived by the cohort from any given age can also be calculated and, when divided by the number of survivors in the cohort entering upon that year of age, the figure obtained is the expectation of life in years for those persons.

Life tables were constructed for males and females which are representative of the mortality experience in Ireland in 2002 by using the 2002 Census of Population and deaths registered in the three years 2001, 2002 and 2003. The life table should reflect the normal mortality conditions at about the time of the Census. The Irish Statistical Bulletin, Sept. – Dec. 1985, contains further detail on the construction of Life Tables. References to previous Life Tables are given on page 15.

Glossary of technical terms

| | |
|---------|---|
| x | the exact age of the person, that is, on his or her birthday. |
| l_x | the number of persons surviving to exact age x out of the original 100,000 aged 0. |
| d_x | the number of deaths in the year of age x to $x+1$ out of l_x persons who enter that year. |
| p_x | the probability of surviving a year, or the ratio of the number completing the year of age x to $x+1$ to the number entering on the year. |
| q_x | the rate of mortality, the probability of dying in a year, or the ratio of the number of deaths in the year of age x to $x+1$ to the number entering on the year. |
| L_x | the population to be expected according to the Life Table aged between x and $x+1$ years, assuming deaths occur evenly over year (see page 13). |
| T_x | the expected number of person years to be lived by the survivors at age x . |
| e_x^o | life expectancy at age x for each person surviving, or the total future life time in years which will on average be passed through by persons aged exactly x . |

Examples Figures from the Male Irish Life Table No. 14 are used in the examples below. Please note that totals may not add up due to rounding.

The first column of the life table, l_x equals the number of persons surviving in the life table at each exact age x , in other words the January population. l_0 represents the life table population of new born children or those aged exactly zero. If we let l_0 equal 100,000 then for example, l_5 is the number of persons surviving on their fifth birthday, which in this case equals 99,220.

The second column of the life table, d_x equals the expected number of deaths of persons aged age x in the life table.

$$d_x = l_x - l_{x+1} \quad \text{equation 1}$$

Equation 1 tells us that the number of deaths equals the number of persons surviving at age x less the number of persons surviving at age $x+1$.

e.g. for males aged 5

$$\begin{aligned} d_5 &= l_5 - l_6 \\ &= 99220 - 99205 \\ &= 15 \end{aligned}$$

The third column of the life table, p_x equals the probability of surviving from exact age x to $x+1$. This is simply the ratio of those completing the year of age x to $x+1$ to the number entering the year. For example, p_5 is the probability of surviving ones fifth year, which in this case equals 0.99985.

$$p_x = \frac{l_{x+1}}{l_x} \quad \text{equation 2}$$

Rewriting equation 2 where age $x = 10$, we see the number of persons surviving to their eleventh birthday equals the number of persons at their tenth birthday multiplied by the probability of their surviving to their eleventh, the remainder having of course died. Migration is ignored in a life table as the population is closed.

$$\begin{aligned} l_{11} &= l_{10} \cdot p_{10} \\ &= 99157 \times 0.99990 \\ &= 99147 \end{aligned}$$

The fourth column of the life table, q_x equals the probability of dying between one birthday and the next. This may also be called the risk of dying in a life table year, in other words the risk of dying at a particular age. The probability of dying and the probability of survival equal unity. In other words one can only be alive or dead.

$$p_x + q_x = 1 \quad \text{equation 3}$$

From equations 1, 2 and 3:

$$q_x = \frac{d_x}{l_x} \quad \text{equation 4}$$

So the probability of dying is the ratio of the number of deaths at exact age x divided by the number of persons surviving at that exact age. Hence we say the life table is based on ‘current mortality rates only and that no assumptions are made about future changes’.

The fifth column of the life table, L_x equals the number of years survived by the life table cohort between the ages x and $x+1$, in other words the July population. Assuming a uniform distribution of deaths over a year of age and using equation 1 we find:

$$\begin{aligned} L_x &= l_x - \frac{d_x}{2} \\ &= l_x - \frac{l_x - l_{x+1}}{2} \\ &= \frac{l_x + l_{x+1}}{2} \quad (x > 0) \end{aligned} \quad \text{equation 5}$$

e.g. for age 1 this means

$$\begin{aligned} L_1 &= l_1 - \frac{d_1}{2} = 99349 - \frac{48}{2} = 99325 \\ \text{or} \\ L_1 &= \frac{l_1 + l_2}{2} = \frac{99349 + 99301}{2} = 99325 \end{aligned}$$

This cannot be used at age 0 as infant deaths are not evenly distributed (i.e. they are non-linear over a year). For example, in 2002 40% of all infant deaths occurred on their first day of life.

The sixth column of the life table, T_x equals the total number of years which will be survived at age x , l_x . So if L_x is person years, then T_x is cumulated person years, i.e.

$$T_x = \sum_x^{105} L_x \quad \text{equation 6}$$

e.g.

$$T_{102} = L_{102} + L_{103} + L_{104} + L_{105}$$

The final column of the life table, e_x^0 is the life expectancy in years

$$e_x^0 = \frac{T_x}{l_x} \quad \text{equation 7}$$

e_0^0 represents life expectancy at birth and it is broadly used to express the level of mortality. Life expectancy is the average number of additional years a person would live if current mortality trends were to continue. The expectation of life at birth represents the mean length of life of individuals who are subjected since birth to current mortality trends. Life expectancy is usually compiled on the basis of a life table showing the probability of dying at each age for a given population according to the age specific death rates prevailing in a given period.

Further information From equation 3 we see the link between the probability of surviving with that of dying, therefore we can make assumptions on the probability of surviving from the probability of dying. This is what is referred to in population projections as the mortality assumption.

$$S_x = \frac{L_x}{L_{x-1}}$$

The survivorship ratio at age x , S_x , equals the ratio of those surviving between ages x and $x+1$ and those surviving between the ages $x-1$ and x , e.g. the ratio of those aged 5-9 surviving to age 10-14 is calculated as follows:

$$S_{10-14} = \frac{\sum_9^{14} L_x}{\sum_5^9 L_x}$$

Similarly, the probability of a man aged 20 dying before his 50th birthday is calculated as follows:

$$\begin{aligned} q_x &= 1 - p_x \\ &= 1 - \frac{l_{x+1}}{l_x} \\ &= \frac{l_x - l_{x+1}}{l_x} \end{aligned}$$

therefore

$$\begin{aligned} q_{20-50} &= \frac{l_{20} - l_{50}}{l_{20}} \\ &= \frac{98714 - 94259}{98714} = 0.045 = 4.5\% \end{aligned}$$

Publications containing Life Tables Nos. 1 - 13

| <i>LIFE TABLE</i> | <i>PUBLICATION</i> |
|-------------------|---|
| No. 1 | Census of Population of Ireland, 1926 – Vol. V (Part 1). |
| No. 2 | Census of Population of Ireland, 1936 – Vol. V (Part 1). |
| No. 3 | Register of Population of Ireland, 1941. |
| No. 4 | Census of Population of Ireland, 1946 – Vol. (Part 1). |
| No. 5 | Census of Population of Ireland – General Report 1946 and 1951. |
| No. 6 | Irish Statistical Bulletin – June, 1965. |
| No. 7 | Census of Population of Ireland, 1971 – Vol. II. Irish Statistical Bulletin – March, 1972. |
| No. 8 | Irish Statistical Bulletin – March, 1976. |
| No. 9 | Census of Population of Ireland, 1981 – Vol. II. Irish Statistical Bulletin – June, 1984. |
| No. 10 | Irish Statistical Bulletin – September – December, 1985. |
| No. 11 | Irish Statistical Bulletin – December, 1995. |
| No. 12 | Irish Statistical Bulletin – December, 1995. |
| No. 13 | Irish Statistical Bulletin - December, 2001 |