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An Phríomh-Oifig Staidrimh

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Fig. 1 Period life expectancy by sex and year


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## Irish Life Tables No. 15

2005-2007

Table 1.1 Period life expectancy 2005-2007 at birth and at age 65 by sex

Years

| Age | Males | Females | Gender Gap |
| :--- | ---: | ---: | ---: |
| $\mathbf{0}$ | 76.8 | 81.6 | 4.8 |
| $\mathbf{6 5}$ | 16.6 | 19.8 | 3.2 |

## Gender life expectancy gap continues to narrow

In the period 2005-2007, life expectancy at birth was 76.8 years for males and 81.6 years for females. (See table 1.1 above, tables 1, 2, 3, fig. 1 and fig.2)

- In the four years between 2002 and 2006 life expectancy increased by 1.7 years for males and 1.3 years for females.
- The gender gap now stands at 4.8 years, compared with the 5.2 years recorded in 2002.
- In 1926 male life expectancy was 57.4 years while it was slightly higher for females at 57.9 years. This gender gap of 0.5 years continued to increase until 1986 when it stood at 5.7 years and has been decreasing gradually since.

In 2006, the highest life expectancy at birth for males among EU member states was reported in Sweden and Cyprus (78.8 years). For females, Spain and France reported the highest life expectancy of 84.4 years. (See table 5)

- In 2006, Irish male life expectancy ranked in joint $12^{\text {th }}$ place with Luxembourg while Irish female life expectancy ranked $16^{\text {th }}$.
- Females had a longer life expectancy than males across all EU member states.
- The largest difference in male and female life expectancies was in Lithuania at 11.7 years while the smallest was in Cyprus at 3.6 years.

Overall EU average life expectancies are currently not available for 2006 due to the absence of information for some member states. As of 2002, life expectancy at birth in the EU-15 member states was, on average, 75.8 years for males and 81.6 years for females. The life expectancy for Ireland in 2002 was below this for both males and females ( 75.1 years and 80.3 years respectively). (See table 6)

In 2006 in Ireland a 65 year old male could expect to live 16.6 years, an increase of 1.2 years since 2002. A 65 year old female could expect to live 19.8 years, an increase of 1.1 years over the same period. The highest life expectancy at this age for both sexes was reported in France at 18.2 years for males and 22.6 years for females. (See tables 3, 5 and 6)

[^0]
# Significant improvements in life expectancy for both males and females over the past 80 years 

Fig. 2 Gap in period life expectancy between males and females by year


* Female period life expectancy higher than males in all periods

Fig. 3 Gains in period life expectancy


Table 1.2 Period life expectancy at birth by sex and year

Years

| Year | Males | Females |
| ---: | ---: | ---: |
| $\mathbf{1 9 2 6}$ | 57.4 | 57.9 |
| $\mathbf{1 9 4 6}$ | 60.5 | 62.4 |
| $\mathbf{1 9 6 6}$ | 68.6 | 72.9 |
| $\mathbf{1 9 8 6}$ | 71.0 | 76.7 |
| $\mathbf{2 0 0 6}$ | 76.8 | 81.6 |

Life expectancy at birth has increased significantly for both men and women since the first official life table was compiled in 1926. Over the 80 year period to 2006, male life expectancy increased by 19.4 years ( $33.8 \%$ ), while female life expectancy increased by 23.7 years ( $40.8 \%$ ). (See table 1.2 above and table 3)

The improvements have been as a direct result of decreasing mortality rates, particularly infant mortality rates over the period. While there has been a continual increase in life expectancy for both males and females, with increases occurring between each set of life tables, the greatest rate of improvement occurred in the 20 year period between 1946 and 1966 ( 8.1 years for males and 10.5 years for females). Strong gains have also been seen over the last two decades with increases of 5.8 years for males and 4.9 years for females. (See table 3 and fig. 3)

## Life expectancy increases in all regions

In the four year period between 2002 and 2006, life expectancy at birth increased across all regions in Ireland. Life expectancy at birth was longest in the Mid-East and Midlands for males at 77.2 years and the West for females at 82.7 years. The shortest life expectancy was recorded in the Mid-West region at 76.3 years for males and 80.4 years for females. (See table 4)

The largest improvement in life expectancy over the four year period for males occurred in the Midlands with a gain of 2.4 years, while for females the largest gains were in the Midlands and the West (1.8 years). (See table 4)

Tables

Table 1 Irish Life Table No. 15, male period life expectancy by age, 2005-2007

| Age x | $I_{x}{ }^{1}$ | $\mathrm{dx}^{1}$ | $p_{x}{ }^{1}$ | $\mathrm{q}_{\mathrm{x}}{ }^{1}$ | $L_{x}{ }^{1}$ | $\mathrm{T}_{\mathrm{x}}{ }^{1}$ | $\mathrm{e}^{0}{ }_{\mathrm{x}}{ }^{1,2}$ | Age x |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 100,000 | 404 | 0.99596 | 0.00404 | 99,649 | 7,680,895 | 76.81 | 0 |
| 1 | 99,596 | 29 | 0.99971 | 0.00029 | 99,581 | 7,581,246 | 76.12 | 1 |
| 2 | 99,567 | 26 | 0.99974 | 0.00026 | 99,554 | 7,481,665 | 75.14 | 2 |
| 3 | 99,541 | 14 | 0.99986 | 0.00014 | 99,534 | 7,382,111 | 74.16 | 3 |
| 4 | 99,527 | 16 | 0.99984 | 0.00016 | 99,519 | 7,282,577 | 73.17 | 4 |
| 5 | 99,511 | 11 | 0.99989 | 0.00011 | 99,505 | 7,183,059 | 72.18 | 5 |
| 6 | 99,500 | 8 | 0.99992 | 0.00008 | 99,496 | 7,083,553 | 71.19 | 6 |
| 7 | 99,492 | 14 | 0.99985 | 0.00015 | 99,485 | 6,984,057 | 70.20 | 7 |
| 8 | 99,478 | 12 | 0.99988 | 0.00012 | 99,472 | 6,884,572 | 69.21 | 8 |
| 9 | 99,466 | 10 | 0.99990 | 0.00010 | 99,461 | 6,785,100 | 68.22 | 9 |
| 10 | 99,456 | 8 | 0.99992 | 0.00008 | 99,452 | 6,685,640 | 67.22 | 10 |
| 11 | 99,448 | 8 | 0.99992 | 0.00008 | 99,444 | 6,586,188 | 66.23 | 11 |
| 12 | 99,440 | 12 | 0.99988 | 0.00012 | 99,434 | 6,486,744 | 65.23 | 12 |
| 13 | 99,429 | 20 | 0.99980 | 0.00020 | 99,419 | 6,387,309 | 64.24 | 13 |
| 14 | 99,408 | 33 | 0.99967 | 0.00033 | 99,392 | 6,287,891 | 63.25 | 14 |
| 15 | 99,376 | 47 | 0.99953 | 0.00047 | 99,352 | 6,188,498 | 62.27 | 15 |
| 16 | 99,329 | 61 | 0.99938 | 0.00062 | 99,298 | 6,089,146 | 61.30 | 16 |
| 17 | 99,267 | 73 | 0.99926 | 0.00074 | 99,231 | 5,989,848 | 60.34 | 17 |
| 18 | 99,194 | 83 | 0.99916 | 0.00084 | 99,153 | 5,890,617 | 59.38 | 18 |
| 19 | 99,111 | 93 | 0.99906 | 0.00094 | 99,065 | 5,791,465 | 58.43 | 19 |
| 20 | 99,018 | 102 | 0.99897 | 0.00103 | 98,967 | 5,692,400 | 57.49 | 20 |
| 21 | 98,916 | 108 | 0.99891 | 0.00109 | 98,862 | 5,593,433 | 56.55 | 21 |
| 22 | 98,808 | 111 | 0.99887 | 0.00113 | 98,753 | 5,494,570 | 55.61 | 22 |
| 23 | 98,697 | 110 | 0.99888 | 0.00112 | 98,642 | 5,395,818 | 54.67 | 23 |
| 24 | 98,586 | 106 | 0.99893 | 0.00107 | 98,534 | 5,297,176 | 53.73 | 24 |
| 25 | 98,481 | 99 | 0.99899 | 0.00101 | 98,431 | 5,198,643 | 52.79 | 25 |
| 26 | 98,382 | 93 | 0.99905 | 0.00095 | 98,335 | 5,100,211 | 51.84 | 26 |
| 27 | 98,289 | 90 | 0.99908 | 0.00092 | 98,244 | 5,001,876 | 50.89 | 27 |
| 28 | 98,199 | 90 | 0.99908 | 0.00092 | 98,153 | 4,903,633 | 49.94 | 28 |
| 29 | 98,108 | 92 | 0.99906 | 0.00094 | 98,062 | 4,805,479 | 48.98 | 29 |
| 30 | 98,016 | 95 | 0.99903 | 0.00097 | 97,968 | 4,707,417 | 48.03 | 30 |
| 31 | 97,920 | 99 | 0.99899 | 0.00101 | 97,871 | 4,609,449 | 47.07 | 31 |
| 32 | 97,822 | 101 | 0.99896 | 0.00104 | 97,771 | 4,511,578 | 46.12 | 32 |
| 33 | 97,720 | 102 | 0.99895 | 0.00105 | 97,669 | 4,413,807 | 45.17 | 33 |
| 34 | 97,618 | 102 | 0.99895 | 0.00105 | 97,567 | 4,316,138 | 44.21 | 34 |
| 35 | 97,516 | 103 | 0.99895 | 0.00105 | 97,464 | 4,218,571 | 43.26 | 35 |
| 36 | 97,413 | 105 | 0.99893 | 0.00107 | 97,361 | 4,121,107 | 42.31 | 36 |
| 37 | 97,308 | 109 | 0.99888 | 0.00112 | 97,253 | 4,023,747 | 41.35 | 37 |
| 38 | 97,199 | 117 | 0.99879 | 0.00121 | 97,140 | 3,926,493 | 40.40 | 38 |
| 39 | 97,082 | 128 | 0.99869 | 0.00131 | 97,018 | 3,829,353 | 39.44 | 39 |
| 40 | 96,954 | 140 | 0.99856 | 0.00144 | 96,884 | 3,732,335 | 38.50 | 40 |
| 41 | 96,814 | 153 | 0.99842 | 0.00158 | 96,738 | 3,635,451 | 37.55 | 41 |
| 42 | 96,662 | 167 | 0.99827 | 0.00173 | 96,578 | 3,538,713 | 36.61 | 42 |
| 43 | 96,495 | 182 | 0.99812 | 0.00188 | 96,404 | 3,442,135 | 35.67 | 43 |
| 44 | 96,313 | 197 | 0.99796 | 0.00204 | 96,215 | 3,345,731 | 34.74 | 44 |
| 45 | 96,116 | 213 | 0.99778 | 0.00222 | 96,010 | 3,249,516 | 33.81 | 45 |
| 46 | 95,903 | 232 | 0.99758 | 0.00242 | 95,787 | 3,153,507 | 32.88 | 46 |
| 47 | 95,672 | 253 | 0.99735 | 0.00265 | 95,545 | 3,057,719 | 31.96 | 47 |
| 48 | 95,418 | 278 | 0.99709 | 0.00291 | 95,279 | 2,962,174 | 31.04 | 48 |
| 49 | 95,141 | 304 | 0.99680 | 0.00320 | 94,989 | 2,866,895 | 30.13 | 49 |
| 50 | 94,837 | 333 | 0.99649 | 0.00351 | 94,670 | 2,771,906 | 29.23 | 50 |
| 51 | 94,504 | 364 | 0.99614 | 0.00386 | 94,322 | 2,677,236 | 28.33 | 51 |
| 52 | 94,139 | 399 | 0.99576 | 0.00424 | 93,940 | 2,582,914 | 27.44 | 52 |
| 53 | 93,741 | 434 | 0.99537 | 0.00463 | 93,524 | 2,488,974 | 26.55 | 53 |
| 54 | 93,306 | 471 | 0.99495 | 0.00505 | 93,071 | 2,395,451 | 25.67 | 54 |

[^1]Table 1 Irish Life Table No. 15, male period life expectancy by age, 2005-2007 (contd.)

| Age x | $\mathrm{I}^{1}{ }^{1}$ | $\mathrm{d}_{\mathrm{x}}{ }^{1}$ | $p_{x}{ }^{1}$ | $\mathrm{qx}^{1}$ | $L_{x}{ }^{1}$ | $\mathrm{T}_{\mathrm{x}}{ }^{1}$ | $\mathrm{e}^{0}{ }_{\mathrm{x}}{ }^{1,2}$ | Age x |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 55 | 92,835 | 511 | 0.99449 | 0.00551 | 92,579 | 2,302,380 | 24.80 | 55 |
| 56 | 92,324 | 557 | 0.99397 | 0.00603 | 92,045 | 2,209,801 | 23.94 | 56 |
| 57 | 91,767 | 611 | 0.99335 | 0.00665 | 91,462 | 2,117,755 | 23.08 | 57 |
| 58 | 91,156 | 671 | 0.99264 | 0.00736 | 90,821 | 2,026,294 | 22.23 | 58 |
| 59 | 90,485 | 737 | 0.99185 | 0.00815 | 90,116 | 1,935,473 | 21.39 | 59 |
| 60 | 89,748 | 810 | 0.99098 | 0.00902 | 89,343 | 1,845,357 | 20.56 | 60 |
| 61 | 88,938 | 888 | 0.99001 | 0.00999 | 88,494 | 1,756,014 | 19.74 | 61 |
| 62 | 88,050 | 974 | 0.98893 | 0.01107 | 87,563 | 1,667,520 | 18.94 | 62 |
| 63 | 87,075 | 1064 | 0.98778 | 0.01222 | 86,544 | 1,579,957 | 18.14 | 63 |
| 64 | 86,012 | 1155 | 0.98657 | 0.01343 | 85,434 | 1,493,414 | 17.36 | 64 |
| 65 | 84,856 | 1254 | 0.98522 | 0.01478 | 84,229 | 1,407,980 | 16.59 | 65 |
| 66 | 83,602 | 1365 | 0.98367 | 0.01633 | 82,919 | 1,323,751 | 15.83 | 66 |
| 67 | 82,237 | 1493 | 0.98185 | 0.01815 | 81,490 | 1,240,831 | 15.09 | 67 |
| 68 | 80,744 | 1634 | 0.97977 | 0.02023 | 79,927 | 1,159,341 | 14.36 | 68 |
| 69 | 79,110 | 1783 | 0.97746 | 0.02254 | 78,219 | 1,079,414 | 13.64 | 69 |
| 70 | 77,327 | 1943 | 0.97487 | 0.02513 | 76,355 | 1,001,195 | 12.95 | 70 |
| 71 | 75,384 | 2114 | 0.97196 | 0.02804 | 74,327 | 924,840 | 12.27 | 71 |
| 72 | 73,270 | 2296 | 0.96867 | 0.03133 | 72,122 | 850,513 | 11.61 | 72 |
| 73 | 70,974 | 2484 | 0.96500 | 0.03500 | 69,732 | 778,391 | 10.97 | 73 |
| 74 | 68,490 | 2673 | 0.96097 | 0.03903 | 67,154 | 708,659 | 10.35 | 74 |
| 75 | 65,817 | 2864 | 0.95648 | 0.04352 | 64,385 | 641,505 | 9.75 | 75 |
| 76 | 62,952 | 3058 | 0.95143 | 0.04857 | 61,424 | 577,120 | 9.17 | 76 |
| 77 | 59,895 | 3252 | 0.94571 | 0.05429 | 58,269 | 515,697 | 8.61 | 77 |
| 78 | 56,643 | 3447 | 0.93915 | 0.06085 | 54,920 | 457,427 | 8.08 | 78 |
| 79 | 53,196 | 3634 | 0.93169 | 0.06831 | 51,379 | 402,508 | 7.57 | 79 |
| 80 | 49,562 | 3795 | 0.92344 | 0.07656 | 47,665 | 351,128 | 7.08 | 80 |
| 81 | 45,768 | 3913 | 0.91450 | 0.08550 | 43,811 | 303,463 | 6.63 | 81 |
| 82 | 41,855 | 3974 | 0.90504 | 0.09496 | 39,867 | 259,652 | 6.20 | 82 |
| 83 | 37,880 | 3980 | 0.89492 | 0.10508 | 35,890 | 219,785 | 5.80 | 83 |
| 84 | 33,900 | 3934 | 0.88395 | 0.11605 | 31,933 | 183,895 | 5.42 | 84 |
| 85 | 29,966 | 3830 | 0.87217 | 0.12783 | 28,050 | 151,962 | 5.07 | 85 |
| 86 | 26,135 | 3667 | 0.85970 | 0.14030 | 24,302 | 123,911 | 4.74 | 86 |
| 87 | 22,469 | 3446 | 0.84665 | 0.15335 | 20,746 | 99,610 | 4.43 | 87 |
| 88 | 19,023 | 3180 | 0.83285 | 0.16715 | 17,433 | 78,864 | 4.15 | 88 |
| 89 | 15,843 | 2878 | 0.81833 | 0.18167 | 14,404 | 61,431 | 3.88 | 89 |
| 90 | 12,965 | 2553 | 0.80311 | 0.19689 | 11,689 | 47,027 | 3.63 | 90 |
| 91 | 10,412 | 2216 | 0.78718 | 0.21282 | 9,304 | 35,338 | 3.39 | 91 |
| 92 | 8,196 | 1881 | 0.77054 | 0.22946 | 7,256 | 26,033 | 3.18 | 92 |
| 93 | 6,316 | 1559 | 0.75320 | 0.24680 | 5,536 | 18,777 | 2.97 | 93 |
| 94 | 4,757 | 1260 | 0.73514 | 0.26486 | 4,127 | 13,241 | 2.78 | 94 |
| 95 | 3,497 | 992 | 0.71637 | 0.28363 | 3,001 | 9,114 | 2.61 | 95 |
| 96 | 2,505 | 759 | 0.69690 | 0.30310 | 2,126 | 6,113 | 2.44 | 96 |
| 97 | 1,746 | 564 | 0.67672 | 0.32328 | 1,464 | 3,987 | 2.28 | 97 |
| 98 | 1,181 | 407 | 0.65583 | 0.34417 | 978 | 2,524 | 2.14 | 98 |
| 99 | 775 | 283 | 0.63423 | 0.36577 | 633 | 1,546 | 1.99 | 99 |
| 100 | 491 | 191 | 0.61192 | 0.38808 | 396 | 912 | 1.86 | 100 |
| 101 | 301 | 124 | 0.58890 | 0.41110 | 239 | 516 | 1.72 | 101 |
| 102 | 177 | 77 | 0.56517 | 0.43483 | 139 | 277 | 1.57 | 102 |
| 103 | 100 | 46 | 0.54074 | 0.45926 | 77 | 139 | 1.39 | 103 |
| 104 | 54 | 26 | 0.51559 | 0.48441 | 41 | 62 | 1.14 | 104 |
| 105 | 28 | 14 | 0.48974 | 0.51026 | 21 | 21 | 0.74 | 105 |

[^2]Table 2 Irish Life Table No. 15, female period life expectancy by age, 2005-2007

| Age x | $\mathrm{I}_{\mathrm{x}}{ }^{1}$ | $\mathrm{d}_{\mathrm{x}}{ }^{1}$ | $p_{x}{ }^{1}$ | $\mathrm{q}^{1}$ | $L_{x}{ }^{1}$ | $\mathrm{T}_{\mathrm{x}}{ }^{1}$ | $\mathrm{e}_{\mathrm{x}}^{0}{ }^{1,2}$ | Age x |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 100,000 | 358 | 0.99642 | 0.00358 | 99,685 | 8,156,652 | 81.57 | 0 |
| 1 | 99,642 | 39 | 0.99961 | 0.00039 | 99,622 | 8,056,967 | 80.86 | 1 |
| 2 | 99,603 | 20 | 0.99979 | 0.00021 | 99,592 | 7,957,345 | 79.89 | 2 |
| 3 | 99,582 | 17 | 0.99983 | 0.00017 | 99,574 | 7,857,753 | 78.91 | 3 |
| 4 | 99,566 | 13 | 0.99987 | 0.00013 | 99,559 | 7,758,179 | 77.92 | 4 |
| 5 | 99,553 | 7 | 0.99993 | 0.00007 | 99,550 | 7,658,620 | 76.93 | 5 |
| 6 | 99,547 | 7 | 0.99993 | 0.00007 | 99,543 | 7,559,070 | 75.94 | 6 |
| 7 | 99,539 | 7 | 0.99993 | 0.00007 | 99,536 | 7,459,527 | 74.94 | 7 |
| 8 | 99,532 | 7 | 0.99993 | 0.00007 | 99,529 | 7,359,991 | 73.95 | 8 |
| 9 | 99,525 | 8 | 0.99992 | 0.00008 | 99,521 | 7,260,462 | 72.95 | 9 |
| 10 | 99,517 | 9 | 0.99991 | 0.00009 | 99,513 | 7,160,941 | 71.96 | 10 |
| 11 | 99,508 | 11 | 0.99989 | 0.00011 | 99,503 | 7,061,428 | 70.96 | 11 |
| 12 | 99,497 | 14 | 0.99986 | 0.00014 | 99,490 | 6,961,925 | 69.97 | 12 |
| 13 | 99,483 | 17 | 0.99983 | 0.00017 | 99,474 | 6,862,435 | 68.98 | 13 |
| 14 | 99,466 | 22 | 0.99978 | 0.00022 | 99,455 | 6,762,961 | 67.99 | 14 |
| 15 | 99,444 | 27 | 0.99973 | 0.00027 | 99,430 | 6,663,506 | 67.01 | 15 |
| 16 | 99,416 | 32 | 0.99968 | 0.00032 | 99,401 | 6,564,076 | 66.03 | 16 |
| 17 | 99,385 | 34 | 0.99965 | 0.00035 | 99,368 | 6,464,676 | 65.05 | 17 |
| 18 | 99,350 | 35 | 0.99965 | 0.00035 | 99,333 | 6,365,308 | 64.07 | 18 |
| 19 | 99,315 | 34 | 0.99966 | 0.00034 | 99,298 | 6,265,975 | 63.09 | 19 |
| 20 | 99,281 | 33 | 0.99967 | 0.00033 | 99,265 | 6,166,677 | 62.11 | 20 |
| 21 | 99,249 | 31 | 0.99969 | 0.00031 | 99,233 | 6,067,412 | 61.13 | 21 |
| 22 | 99,218 | 30 | 0.99970 | 0.00030 | 99,203 | 5,968,178 | 60.15 | 22 |
| 23 | 99,188 | 30 | 0.99970 | 0.00030 | 99,173 | 5,868,976 | 59.17 | 23 |
| 24 | 99,158 | 30 | 0.99969 | 0.00031 | 99,142 | 5,769,803 | 58.19 | 24 |
| 25 | 99,127 | 31 | 0.99969 | 0.00031 | 99,112 | 5,670,661 | 57.21 | 25 |
| 26 | 99,096 | 32 | 0.99968 | 0.00032 | 99,081 | 5,571,549 | 56.22 | 26 |
| 27 | 99,065 | 32 | 0.99967 | 0.00033 | 99,049 | 5,472,468 | 55.24 | 27 |
| 28 | 99,032 | 33 | 0.99966 | 0.00034 | 99,016 | 5,373,419 | 54.26 | 28 |
| 29 | 98,999 | 35 | 0.99965 | 0.00035 | 98,982 | 5,274,404 | 53.28 | 29 |
| 30 | 98,965 | 36 | 0.99964 | 0.00036 | 98,947 | 5,175,422 | 52.30 | 30 |
| 31 | 98,929 | 38 | 0.99962 | 0.00038 | 98,910 | 5,076,475 | 51.31 | 31 |
| 32 | 98,891 | 40 | 0.99960 | 0.00040 | 98,871 | 4,977,565 | 50.33 | 32 |
| 33 | 98,851 | 43 | 0.99957 | 0.00043 | 98,830 | 4,878,694 | 49.35 | 33 |
| 34 | 98,809 | 45 | 0.99954 | 0.00046 | 98,786 | 4,779,864 | 48.37 | 34 |
| 35 | 98,763 | 49 | 0.99951 | 0.00049 | 98,739 | 4,681,078 | 47.40 | 35 |
| 36 | 98,715 | 53 | 0.99946 | 0.00054 | 98,688 | 4,582,340 | 46.42 | 36 |
| 37 | 98,662 | 58 | 0.99941 | 0.00059 | 98,633 | 4,483,651 | 45.44 | 37 |
| 38 | 98,604 | 64 | 0.99935 | 0.00065 | 98,571 | 4,385,019 | 44.47 | 38 |
| 39 | 98,539 | 71 | 0.99928 | 0.00072 | 98,504 | 4,286,447 | 43.50 | 39 |
| 40 | 98,469 | 78 | 0.99920 | 0.00080 | 98,429 | 4,187,943 | 42.53 | 40 |
| 41 | 98,390 | 88 | 0.99911 | 0.00089 | 98,347 | 4,089,514 | 41.56 | 41 |
| 42 | 98,303 | 99 | 0.99899 | 0.00101 | 98,253 | 3,991,167 | 40.60 | 42 |
| 43 | 98,204 | 113 | 0.99885 | 0.00115 | 98,147 | 3,892,914 | 39.64 | 43 |
| 44 | 98,091 | 129 | 0.99868 | 0.00132 | 98,026 | 3,794,767 | 38.69 | 44 |
| 45 | 97,962 | 147 | 0.99850 | 0.00150 | 97,888 | 3,696,740 | 37.74 | 45 |
| 46 | 97,815 | 165 | 0.99831 | 0.00169 | 97,732 | 3,598,852 | 36.79 | 46 |
| 47 | 97,649 | 182 | 0.99813 | 0.00187 | 97,558 | 3,501,120 | 35.85 | 47 |
| 48 | 97,467 | 197 | 0.99798 | 0.00202 | 97,368 | 3,403,562 | 34.92 | 48 |
| 49 | 97,270 | 211 | 0.99783 | 0.00217 | 97,164 | 3,306,193 | 33.99 | 49 |
| 50 | 97,059 | 225 | 0.99768 | 0.00232 | 96,946 | 3,209,029 | 33.06 | 50 |
| 51 | 96,833 | 241 | 0.99751 | 0.00249 | 96,713 | 3,112,083 | 32.14 | 51 |
| 52 | 96,592 | 261 | 0.99729 | 0.00271 | 96,461 | 3,015,370 | 31.22 | 52 |
| 53 | 96,331 | 285 | 0.99705 | 0.00295 | 96,188 | 2,918,909 | 30.30 | 53 |
| 54 | 96,046 | 310 | 0.99677 | 0.00323 | 95,891 | 2,822,721 | 29.39 | 54 |

[^3]Table 2 Irish Life Table No. 15, female period life expectancy by age, 2005-2007 (contd.)

| Age x | $I_{x}{ }^{1}$ | $\mathrm{d}_{\mathrm{x}}{ }^{1}$ | $p_{x}{ }^{1}$ | $\mathrm{q}^{1}{ }^{1}$ | $L_{x}{ }^{1}$ | $\mathrm{T}_{\mathrm{x}}{ }^{1}$ | $\mathrm{e}^{0}{ }_{\mathrm{x}}{ }^{1,2}$ | Age x |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 55 | 95,736 | 338 | 0.99647 | 0.00353 | 95,567 | 2,726,830 | 28.48 | 55 |
| 56 | 95,398 | 370 | 0.99612 | 0.00388 | 95,213 | 2,631,263 | 27.58 | 56 |
| 57 | 95,028 | 405 | 0.99574 | 0.00426 | 94,825 | 2,536,050 | 26.69 | 57 |
| 58 | 94,623 | 443 | 0.99532 | 0.00468 | 94,401 | 2,441,225 | 25.80 | 58 |
| 59 | 94,179 | 484 | 0.99486 | 0.00514 | 93,937 | 2,346,824 | 24.92 | 59 |
| 60 | 93,695 | 529 | 0.99436 | 0.00564 | 93,431 | 2,252,887 | 24.04 | 60 |
| 61 | 93,166 | 577 | 0.99380 | 0.00620 | 92,878 | 2,159,456 | 23.18 | 61 |
| 62 | 92,589 | 631 | 0.99319 | 0.00681 | 92,274 | 2,066,578 | 22.32 | 62 |
| 63 | 91,958 | 686 | 0.99255 | 0.00745 | 91,616 | 1,974,305 | 21.47 | 63 |
| 64 | 91,273 | 741 | 0.99188 | 0.00812 | 90,902 | 1,882,689 | 20.63 | 64 |
| 65 | 90,532 | 803 | 0.99113 | 0.00887 | 90,130 | 1,791,787 | 19.79 | 65 |
| 66 | 89,729 | 873 | 0.99027 | 0.00973 | 89,292 | 1,701,657 | 18.96 | 66 |
| 67 | 88,856 | 958 | 0.98922 | 0.01078 | 88,376 | 1,612,364 | 18.15 | 67 |
| 68 | 87,897 | 1,056 | 0.98799 | 0.01201 | 87,369 | 1,523,988 | 17.34 | 68 |
| 69 | 86,842 | 1,162 | 0.98662 | 0.01338 | 86,261 | 1,436,619 | 16.54 | 69 |
| 70 | 85,680 | 1,278 | 0.98508 | 0.01492 | 85,040 | 1,350,358 | 15.76 | 70 |
| 71 | 84,401 | 1,405 | 0.98335 | 0.01665 | 83,699 | 1,265,317 | 14.99 | 71 |
| 72 | 82,996 | 1,543 | 0.98141 | 0.01859 | 82,225 | 1,181,619 | 14.24 | 72 |
| 73 | 81,453 | 1,679 | 0.97939 | 0.02061 | 80,614 | 1,099,394 | 13.50 | 73 |
| 74 | 79,774 | 1,811 | 0.97730 | 0.02270 | 78,869 | 1,018,780 | 12.77 | 74 |
| 75 | 77,964 | 1,956 | 0.97491 | 0.02509 | 76,986 | 939,911 | 12.06 | 75 |
| 76 | 76,008 | 2,130 | 0.97198 | 0.02802 | 74,943 | 862,926 | 11.35 | 76 |
| 77 | 73,878 | 2,348 | 0.96822 | 0.03178 | 72,704 | 787,983 | 10.67 | 77 |
| 78 | 71,530 | 2,615 | 0.96345 | 0.03655 | 70,223 | 715,279 | 10.00 | 78 |
| 79 | 68,916 | 2,914 | 0.95772 | 0.04228 | 67,459 | 645,056 | 9.36 | 79 |
| 80 | 66,002 | 3,224 | 0.95115 | 0.04885 | 64,390 | 577,597 | 8.75 | 80 |
| 81 | 62,778 | 3,524 | 0.94387 | 0.05613 | 61,016 | 513,207 | 8.18 | 81 |
| 82 | 59,254 | 3,789 | 0.93605 | 0.06395 | 57,359 | 452,192 | 7.63 | 82 |
| 83 | 55,465 | 4,020 | 0.92751 | 0.07249 | 53,454 | 394,832 | 7.12 | 83 |
| 84 | 51,444 | 4,217 | 0.91802 | 0.08198 | 49,336 | 341,378 | 6.64 | 84 |
| 85 | 47,227 | 4,361 | 0.90767 | 0.09233 | 45,047 | 292,042 | 6.18 | 85 |
| 86 | 42,866 | 4,434 | 0.89657 | 0.10343 | 40,650 | 246,996 | 5.76 | 86 |
| 87 | 38,433 | 4,424 | 0.88488 | 0.11512 | 36,221 | 206,346 | 5.37 | 87 |
| 88 | 34,008 | 4,340 | 0.87237 | 0.12763 | 31,838 | 170,125 | 5.00 | 88 |
| 89 | 29,668 | 4,180 | 0.85910 | 0.14090 | 27,578 | 138,287 | 4.66 | 89 |
| 90 | 25,488 | 3,949 | 0.84507 | 0.15493 | 23,513 | 110,709 | 4.34 | 90 |
| 91 | 21,539 | 3,656 | 0.83028 | 0.16972 | 19,711 | 87,196 | 4.05 | 91 |
| 92 | 17,883 | 3,313 | 0.81473 | 0.18527 | 16,227 | 67,485 | 3.77 | 92 |
| 93 | 14,570 | 2,937 | 0.79842 | 0.20158 | 13,102 | 51,258 | 3.52 | 93 |
| 94 | 11,633 | 2,544 | 0.78135 | 0.21865 | 10,361 | 38,157 | 3.28 | 94 |
| 95 | 9,089 | 2,149 | 0.76352 | 0.23648 | 8,015 | 27,795 | 3.06 | 95 |
| 96 | 6,940 | 1,770 | 0.74493 | 0.25507 | 6,055 | 19,781 | 2.85 | 96 |
| 97 | 5,170 | 1,419 | 0.72559 | 0.27441 | 4,460 | 13,726 | 2.65 | 97 |
| 98 | 3,751 | 1,105 | 0.70548 | 0.29452 | 3,199 | 9,265 | 2.47 | 98 |
| 99 | 2,646 | 835 | 0.68461 | 0.31539 | 2,229 | 6,067 | 2.29 | 99 |
| 100 | 1,812 | 611 | 0.66298 | 0.33702 | 1,506 | 3838 | 2.12 | 100 |
| 101 | 1,201 | 432 | 0.64060 | 0.35940 | 985 | 2331 | 1.94 | 101 |
| 102 | 769 | 294 | 0.61745 | 0.38255 | 622 | 1346 | 1.75 | 102 |
| 103 | 475 | 193 | 0.59355 | 0.40645 | 379 | 724 | 1.52 | 103 |
| 104 | 282 | 122 | 0.56888 | 0.43112 | 221 | 345 | 1.22 | 104 |
| 105 | 160 | 73 | 0.54346 | 0.45654 | 124 | 124 | 0.77 | 105 |

[^4]Table 3 Period life expectancy at various ages, 1871-2006

|  |  |  |  |  |  |  |  |  |  |  | Years |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Age in years |  |  |  |  |  |  |  |  |  |  |
| Irish Life Table No. | Period | 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 |
| 15 | 2005-07 | 76.8 | 72.2 | 67.2 | 62.3 | 57.5 | 52.8 | 43.3 | 33.8 | 24.8 | 16.6 | 9.8 |
|  |  | 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 |
| 15 | 2005-07 | 81.6 | 76.9 | 72.0 | 67.0 | 62.1 | 57.2 | 47.4 | 37.7 | 28.5 | 19.8 | 12.1 |

[^5]Table 4 Period life expectancy by sex, age, NUTS3 region and year

|  |  |  |  | ears |
| :---: | :---: | :---: | :---: | :---: |
|  | Age |  | Age |  |
|  | 2002 | 2006 | 2002 | 2006 |
|  |  |  |  |  |
| Region |  |  |  |  |
| Border | 74.8 | 77.0 | 15.3 | 16.5 |
| Midland | 74.8 | 77.2 | 15.3 | 16.8 |
| West | 75.5 | 77.1 | 15.6 | 16.8 |
| Dublin | 75.2 | 76.7 | 15.5 | 16.9 |
| Mid-East | 75.9 | 77.2 | 15.5 | 16.6 |
| Mid-West | 74.4 | 76.3 | 15.3 | 16.1 |
| South-East | 75.3 | 76.8 | 15.4 | 16.7 |
| South-West | 75.2 | 76.5 | 15.3 | 16.4 |
|  |  |  |  |  |
| Region |  |  |  |  |
| Border | 80.9 | 81.7 | 19.2 | 19.8 |
| Midland | 79.7 | 81.5 | 18.5 | 19.3 |
| West | 80.9 | 82.7 | 19.0 | 20.6 |
| Dublin | 80.2 | 81.2 | 18.9 | 19.7 |
| Mid-East | 80.5 | 81.4 | 18.8 | 19.5 |
| Mid-West | 79.8 | 80.4 | 18.6 | 18.7 |
| South-East | 80.3 | 81.7 | 18.6 | 19.9 |
| South-West | 80.5 | 81.6 | 18.8 | 20.0 |

Table 5 Period life expectancy in 2006 by sex, age and country

|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Source : Eurostat New Cronos Database

* Figures for Italy relate to 2005

Table 6 Period life expectancy by sex, age, country and year


| EU15 European Union (15 countries) | 74.7 | 77.2 | 79.4 | 81.6 | : | 15.9 | 17.1 | 18.4 | 19.9 | : |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BE Belgium | 74.2 | 76.7 | 79.5 | 81.2 | 82.3 | 15.4 | 16.8 | 18.8 | 19.7 | 20.6 |
| DK Denmark | 75.9 | 77.3 | 77.8 | 79.4 | 80.7 | 16.7 | 17.6 | 17.9 | 18.2 | 19.2 |
| DE Germany ${ }^{1}$ | 73.6 | 76.2 | 78.5 | 81.3 | 82.4 | 14.9 | 16.3 | 17.7 | 19.6 | 20.5 |
| GR Greece | 76.0 | 77.5 | 79.5 | 81.1 | 81.9 | 16.9 | 17.0 | 18.0 | 18.7 | 19.4 |
| ES Spain | 74.8 | 78.4 | 80.6 | 83.2 | 84.4 | 16.0 | 17.8 | 19.3 | 21.0 | 22.0 |
| FR France | 75.9 | 78.4 | 80.9 | 83.0 | 84.4 | 16.8 | 18.2 | 19.8 | 21.3 | 22.6 |
| IE Ireland | 73.5 | 75.6 | 77.9 | 80.3 | 81.6 | 15.0 | 15.7 | 17.1 | 18.7 | 19.8 |
| IT Italy | 74.9 | 77.4 | 80.4 | 83.2 | 83.7* | 16.2 | 17.1 | 18.9 | 21.0 | 21.3* |
| LU Luxembourg (Grand-Duché) | 73.4 | 75.9 | 78.7 | 81.5 | 81.9 | 14.9 | 16.0 | 18.5 | 20.0 | 20.3 |
| NL Netherlands | 76.5 | 79.3 | 80.2 | 80.7 | 82.0 | 16.5 | 18.5 | 19.1 | 19.3 | 20.3 |
| AT Austria | 73.5 | 76.1 | 79.0 | 81.7 | 82.8 | 14.9 | 16.3 | 18.1 | 19.8 | 20.7 |
| PT Portugal | 69.6 | 74.9 | 77.5 | 80.6 | 82.3 | 14.6 | 16.1 | 17.1 | 19.2 | 20.2 |
| FI Finland | 75.0 | 77.6 | 79.0 | 81.6 | 83.1 | : | 16.5 | 17.8 | 19.8 | 21.2 |
| SE Sweden | 77.3 | 79.0 | 80.5 | 82.1 | 83.1 | 17.1 | 18.1 | 19.1 | 20.1 | 20.9 |
| UK United Kingdom | 75.0 | 76.2 | 78.5 | 80.6 | 81.5 | 16.0 | 16.6 | 17.9 | 19.2 | 19.9 |
| BG Bulgaria | 73.5 | 73.9 | 74.7 | 75.5 | 76.3 | 14.9 | 14.6 | 15.2 | 15.7 | 16.3 |
| CY Cyprus | : | 77.0 | 78.6 | 81.0 | 82.4 | : | 16.5 | 17.5 | 19.0 | 19.7 |
| CZ Czech Republic | 73.1 | 74.0 | 75.5 | 78.7 | 79.9 | 14.3 | 14.4 | 15.3 | 17.3 | 18.3 |
| EE Estonia | 74.1 | 74.1 | 75.0 | 77.0 | 78.6 | 15.4 | 15.6 | 15.8 | 17.3 | 18.3 |
| HU Hungary | 72.1 | 72.8 | 73.8 | 76.7 | 77.8 | 14.4 | 14.7 | 15.4 | 17.0 | 17.7 |
| LT Lithuania | 75.0 | 75.4 | 76.3 | 77.5 | 77.0 | 16.4 | 16.6 | 17.0 | 17.8 | 17.6 |
| LV Latvia | 74.4 | 74.2 | 74.6 | 76.0 | 76.3 | : | : | 15.8 | 17.0 | 17.3 |
| MT Malta | 72.6 | 72.8 | 78.1 | 81.3 | 81.9 | . | 12.8 | 18.0 | 19.1 | 19.5 |
| PL Poland | 73.3 | 75.4 | 75.3 | 78.8 | 79.7 | 15.3 | 16.4 | 16.2 | 18.0 | 18.8 |
| RO Romania | 70.4 | 71.9 | 73.1 | 74.7 | 76.2 | 14.3 | 14.2 | 15.2 | 15.7 | 16.5 |
| SI Slovenia | 72.4 | 75.2 | 77.8 | 80.5 | 82.0 | 14.2 | 15.9 | 17.1 | 19.0 | 20.0 |
| SK Slovak Republic | 73.0 | 74.4 | 75.7 | 77.7 | 78.4 | 14.6 | 15.2 | 16.0 | 16.9 | 17.3 |

[^6]
## Background Notes

Life Tables presented here are period life expectancies. Period expectation of life at a given age for 2005-07 is the average number of years a person would live if he or she experienced age-specific mortality rates for that time period throughout his or her life. It is therefore not the number of years someone of that age could actually expect to live because death rates are likely to change in the future.

The basic assumption is that a given cohort of births, $(100,000)$, start in a given year. 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 2006 by using the 2005, 2006 and 2007 estimates and census of population (usually resident) and deaths registered in the three years. 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 $x$ the exact age of the person, that is, on his or her birthday.
technical terms $1_{x}$ 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 $1_{x}$ 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.
$\mathrm{q}_{\mathrm{x}}$ 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 $\mathrm{x}+1$ to the number entering on the year.
$L_{x}$ the population to be expected according to the Life Table aged between x and $\mathrm{x}+1$ 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 $x$.
$e^{0}{ }_{x}$ 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. 15 are used in the examples below. Please note that totals may not add up due to rounding.

The first column of the life table, $1_{\mathrm{x}}$ 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, $1_{5}$ is the number of persons surviving on their fifth birthday, which in this case equals 99,511 .

The second column of the life table, $\mathrm{d}_{\mathrm{x}}$ 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 $\mathrm{x}+1$.
e.g. for males aged 5

$$
\begin{aligned}
& d_{5}=l_{5}-l_{6} \\
& =99,511-99,500 \\
& =11
\end{aligned}
$$

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 0.99989.

$$
p_{x}=\frac{l_{x+1}}{l_{x}}
$$

equation 2

Rewriting equation 2 where age $\mathrm{x}=10$, 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.

$$
\begin{aligned}
& l_{11}=l_{10} \cdot p_{10} \\
& =99,456 \times 0.99992 \\
& =99,448
\end{aligned}
$$

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.

$$
p_{x}+q_{x}=1
$$

equation 3
From equations 1, 2 and 3:

$$
q_{x}=\frac{d_{x}}{l_{x}}
$$

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, $\mathrm{L}_{\mathrm{x}}$ equals the number of years survived by the life table cohort between the ages x and $\mathrm{x}+1$, in other words the July population. Assuming a uniform distribution of deaths over a year of age and using equation 1 we find:

$$
\begin{aligned}
L_{x} & =l_{x}-\frac{d_{x}}{2} \\
& =l_{x}-\frac{l_{x}-l_{x+1}}{2} \\
& =\frac{l_{x}+l_{x+1}}{2} \quad(x>0)
\end{aligned}
$$

equation 5
e.g. for age 1 this means

$$
\begin{aligned}
& L_{1}=l_{1}-\frac{d_{1}}{2}=99596-\frac{29}{2}=99582 \\
& \text { or } \\
& L_{1}=\frac{l_{1}+l_{2}}{2}=\frac{99596+99567}{2}=99582
\end{aligned}
$$

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 $200636 \%$ of all infant deaths occurred on their first day of life.

The sixth column of the life table, $\mathrm{T}_{\mathrm{x}}$ 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.

$$
T_{x}=\sum_{x}^{105} L_{x}
$$

## equation 6

e.g.

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

The final column of the life table, $\mathrm{e}^{0}{ }_{\mathrm{x}}$ is the life expectancy in years

$$
e_{x}^{0}=\frac{T_{x}}{l_{x}}
$$

equation 7
$\mathrm{e}^{0}{ }_{0}$ 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 From equation 3 we see the link between the probability of surviving with that of dying, thereinformation fore 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 $\mathrm{x}, \mathrm{S}_{\mathrm{x}}$, equals the ratio of those surviving between ages x and $\mathrm{x}+1$ 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:

$$
S_{10-14}=\frac{\sum_{10}^{14} L_{x}}{\sum_{5}^{9} L_{x}}
$$

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

$$
\begin{aligned}
q_{20-50} & =\frac{l_{20}-l_{50}}{l_{20}} \\
\quad= & \frac{99018-94837}{99018}=0.042=4.2 \%
\end{aligned}
$$

Publications containing Life Tables Nos. 1-14

LIFE TABLE
No. 1

No. 2
No. 3
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No. 12
No. 13

No. 14

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Irish Statistical Bulletin - December, 2001
Irish Statistical Bulletin - September - December, 2004


[^0]:    For more information contact Kieran Walsh at ext 5091.

[^1]:    ${ }^{1}$ See background notes
    ${ }^{2} e^{0}{ }_{x}$ is the remaining life expectancy of a person at age $x$

[^2]:    ${ }^{1}$ See background notes
    ${ }^{2} e^{0}{ }_{x}$ is the remaining life expectancy of a person at age $x$

[^3]:    See background notes
    ${ }^{2} e^{0}{ }_{x}$ is the remaining life expectancy of a person at age x

[^4]:    ${ }^{1}$ See background notes
    ${ }^{2} e^{0}{ }_{x}$ is the remaining life expectancy of a person at age $x$

[^5]:    1871-1911 data from the Report on the Commission on Emigration and other Population Problems 1948-1954

[^6]:    Source : Eurostat New Cronos Database
    ${ }^{1}$ DEW Federal Republic of Germany (excluding ex-GDR) for 1970 \& 1980

    * Figures relate to 2005

