ONS Longitudinal Study
Sampling quality at the 1991 Census

1991 sampling fractions by sex and age

In the 1991 Longitudinal Study (LS) sample, young adults in their 20s had the lowest observed sampling fractions (1.04 among people aged 20-24). As with the 1971 LS sample, this is the result of low tracing rates found among young people (see Table T91.1 describing 'not traced' rates by sex and age for 1991 LS sample members).

There were no significant differences between the sexes. The observed sampling fraction was 1.07 for both males and females.

Females between the ages of 50 and 54 had a lower observed sampling fraction (1.07) than males in this age group (1.10).

The largest difference between observed and expected values was for males aged 20 to 24 (1.03 and 1.06).

Table S91.1 1991 LS sampling fractions by sex and age: traced LS members

| Age | Males | | | | Females | | | | All people | | | |
|------------|-------------------|----------------|--------------|------------------------|---------|----------------|--------------|-------------|-------------------|----------------|--------------|-------------|
| | 1991 LS Traced | 1991 Census | Sampling fra | Sampling fractions (%) | | 1991 Census | Sampling fra | actions (%) | 1991 LS Traced | 1991 Census | Sampling fra | actions (%) |
| | sample | population | Observed | Expected | sample | population | Observed | Expected | sample | population | Observed | Expected |
| 0-4 | 18,020 | 1,696,098 | 1.06 | 1.08 | 17,470 | 1,620,130 | 1.08 | 1.08 | 35,490 | 3,316,228 | 1.07 | 1.08 |
| 5-9 | 17,091 | 1,599,581 | 1.07 | 1.08 | 16,283 | 1,523,042 | 1.07 | 1.08 | 33,374 | 3,122,623 | 1.07 | 1.08 |
| 10-14 | 16,466 | 1,532,019 | 1.07 | 1.08 | 15,655 | 1,455,517 | 1.08 | 1.08 | 32,121 | 2,987,536 | 1.08 | 1.08 |
| 15-19 | 17,704 | 1,636,124 | 1.08 | 1.07 | 17,124 | 1,569,340 | 1.09 | 1.07 | 34,828 | 3,205,464 | 1.09 | 1.07 |
| 20-24 | 19,081 | 1,844,532 | 1.03 | 1.06 | 19,838 | 1,886,843 | 1.05 | 1.06 | 38,919 | 3,731,375 | 1.04 | 1.06 |
| 25-29 | 20,379 | 1,957,808 | 1.04 | 1.06 | 21,277 | 2,013,101 | 1.06 | 1.06 | 41,656 | 3,970,909 | 1.05 | 1.06 |
| 30-34 | 19,445 | 1,800,696 | 1.08 | 1.06 | 19,613 | 1,822,012 | 1.08 | 1.07 | 39,058 | 3,622,708 | 1.08 | 1.07 |
| 35-39 | 17,961 | 1,645,575 | 1.09 | 1.07 | 18,005 | 1,662,607 | 1.08 | 1.07 | 35,966 | 3,308,182 | 1.09 | 1.07 |
| 40-44 | 19,392 | 1,824,168 | 1.06 | 1.07 | 19,929 | 1,837,947 | 1.08 | 1.08 | 39,321 | 3,662,115 | 1.07 | 1.08 |
| 45-49 | 16,673 | 1,537,361 | 1.08 | 1.08 | 16,589 | 1,536,262 | 1.08 | 1.08 | 33,262 | 3,073,623 | 1.08 | 1.08 |
| 50-54 | 14,979 | 1,360,870 | 1.10 | 1.08 | 14,510 | 1,358,987 | 1.07 | 1.07 | 29,489 | 2,719,857 | 1.08 | 1.07 |
| 55-59 | 14,053 | 1,274,953 | 1.10 | 1.08 | 13,977 | 1,291,916 | 1.08 | 1.08 | 28,030 | 2,566,869 | 1.09 | 1.08 |
| 60-64 | 13,466 | 1,235,649 | 1.09 | 1.08 | 14,176 | 1,323,056 | 1.07 | 1.08 | 27,642 | 2,558,705 | 1.08 | 1.08 |
| 65-69 | 12,241 | 1,152,977 | 1.06 | 1.08 | 14,357 | 1,337,539 | 1.07 | 1.08 | 26,598 | 2,490,516 | 1.07 | 1.08 |
| 70-74 | 9,296 | 870,015 | 1.07 | 1.08 | 12,216 | 1,144,379 | 1.07 | 1.08 | 21,512 | 2,014,394 | 1.07 | 1.08 |
| 75+ | 12,891 | 1,214,567 | 1.06 | 1.08 | 24,864 | 2,324,606 | 1.07 | 1.07 | 37,755 | 3,539,173 | 1.07 | 1.07 |
| All people | 259,138 | 24,182,993 | 1.07 | 1.07 | 275,883 | 25,707,284 | 1.07 | 1.07 | 535,021 | 49,890,277 | 1.07 | 1.07 |

Notes

¹ Source: Office for National Statistics Longitudinal Study (LS)

² LS members, usually resident in England and Wales
³ 'Traced' means the LS members' records were found on the National Health Service Central Register before or at the 1991 Census-LS link

⁴ Census populations are taken from HMSO (1993) '1991 Census Sex, Age and Marital Status Great Britain' Table 1

1991 sampling fractions by sex, age and marital status

There was little variation in observed sampling fractions by marital status. Married people had the highest observed sampling fraction (1.09), while never-married and divorced people had the lowest (1.06 each). Widowed Longitudinal Study (LS) members had an observed sampling fraction of 1.07.

There were small differences in marital status sampling fractions by sex: the biggest difference was for divorced people with a sampling fraction of 1.04 for males and 1.07 for females.

There were considerable differences in observed sampling fractions for various age groups but most of these are based on small groups.

Both male and female never-married LS members had low sampling fractions at ages 25 to 29 (1.01 each), 35 to 39 (1.03 and 0.99 respectively) and 50 to 54 (1.02 and 1.03 respectively).

Observed sampling fractions for never-married females aged 40 to 44 (1.07), 55 to 59 (1.09) and 75 and over (1.07) were higher compared to males (1.02, 1.05 and 1.01 respectively). On the other hand, never married males had higher sampling fractions than females in age groups 35 to 39 (1.03 and 0.99 respectively) and 70 to 74 (1.12 and 1.08 respectively).

Divorced females had higher sampling fractions than divorced males.

Among widowed LS members, females aged 40 to 49 had higher sampling fractions (an average of about 1.14) than widowed males in this age group (usually less than 1.00). Widowed males aged 60 to 64 had higher sampling fractions than widowed females in this age group (1.10 compared to 1.06).

Table S91.2 1991 LS sampling fraction by sex, age and marital status: traced LS members

| Age & marital status | Males | , , , | | | Females | | | | All people | | | |
|----------------------|---------|------------|-----------------|-------------|---------|------------|------------------|-------------|------------|------------|-----------------|-------------|
| - | 1991 LS | 1991 | Carrallia a for | ti (0/) | 1991 LS | 1991 | Carran lines for | -ti (0/) | 1991 LS | 1991 | Carrallia a fua | -ti (0/) |
| | Traced | Census | Sampling fra | actions (%) | Traced | Census | Sampling fra | actions (%) | Traced | Census | Sampling fra | ictions (%) |
| | sample | population | Observed | Expected | sample | population | Observed | Expected | sample | population | Observed | Expected |
| Never Married | | | | | | | | | | | | |
| 0-15 | 54,681 | 5,128,982 | 1.07 | 1.06 | 52,436 | 4,884,421 | 1.07 | 1.07 | 107,117 | | 1.07 | 1.06 |
| 16-19 | 14,498 | 1,326,324 | 1.09 | 1.06 | 13,754 | 1,255,983 | 1.10 | 1.07 | 28,252 | 2,582,307 | 1.09 | 1.06 |
| 20-24 | 16,808 | 1,628,987 | 1.03 | 1.04 | 14,886 | 1,425,269 | 1.04 | 1.06 | 31,694 | 3,054,256 | 1.04 | 1.05 |
| 25-29 | 10,734 | 1,060,650 | 1.01 | 1.04 | 7,867 | 777,869 | 1.01 | 1.05 | 18,601 | 1,838,519 | 1.01 | 1.04 |
| 30-34 | 5,258 | 506,547 | 1.04 | 1.04 | 3,385 | 333,376 | 1.02 | 1.05 | 8,643 | 839,923 | 1.03 | 1.04 |
| 35-39 | 2,839 | 275,695 | 1.03 | 1.04 | 1,679 | 168,780 | 0.99 | 1.05 | 4,518 | 444,475 | 1.02 | 1.05 |
| 40-44 | 2,125 | 209,217 | 1.02 | 1.05 | 1,251 | 117,324 | 1.07 | 1.06 | 3,376 | 326,541 | 1.03 | 1.05 |
| 45-49 | 1,452 | 141,150 | 1.03 | 1.05 | 820 | 78,021 | 1.05 | 1.05 | 2,272 | 219,171 | 1.04 | 1.05 |
| 50-54 | 1,139 | 111,778 | 1.02 | 1.04 | 684 | 66,609 | 1.03 | 1.05 | 1,823 | 178,387 | 1.02 | 1.05 |
| 55-59 | 1,071 | 102,347 | 1.05 | 1.05 | 747 | 68,679 | 1.09 | 1.06 | 1,818 | 171,026 | 1.06 | 1.05 |
| 60-64 | 1,095 | 105,237 | 1.04 | 1.04 | 862 | 82,011 | 1.05 | 1.05 | 1,957 | 187,248 | 1.05 | 1.05 |
| 65-69 | 967 | 91,901 | 1.05 | 1.04 | 942 | 91,040 | 1.03 | 1.06 | 1,909 | 182,941 | 1.04 | 1.05 |
| 70-74 | 677 | 60,239 | 1.12 | 1.05 | 922 | 85,215 | 1.08 | 1.06 | 1,599 | 145,454 | 1.10 | 1.06 |
| 75+ | 792 | 78,285 | 1.01 | 1.03 | 2,592 | 242,813 | 1.07 | 1.06 | 3,384 | 321,098 | 1.05 | 1.05 |
| Total | 114,136 | 10,827,339 | 1.05 | 1.05 | 102,827 | 9,677,410 | 1.06 | 1.06 | 216,963 | 20,504,749 | 1.06 | 1.06 |
| Married | | | | | | | | | | | | |
| 16-19 | 90 | 7,662 | 1.17 | 1.11 | 328 | 26,094 | 1.26 | 1.03 | 418 | 33,756 | 1.24 | 1.05 |
| 20-24 | 2,185 | 205,259 | 1.06 | 1.06 | 4,632 | 431,371 | 1.07 | 1.06 | 6,817 | 636,630 | 1.07 | 1.06 |
| 25-29 | 8,943 | 829,971 | 1.08 | 1.08 | 12,017 | 1,108,568 | 1.08 | 1.07 | 20,960 | 1,938,539 | 1.08 | 1.07 |
| 30-34 | 12,913 | 1,167,392 | 1.11 | 1.08 | 14,140 | 1,299,369 | 1.09 | 1.08 | 27,053 | 2,466,761 | 1.10 | 1.08 |
| 35-39 | 13,532 | 1,219,001 | 1.11 | 1.09 | 14,034 | 1,281,625 | 1.10 | 1.08 | 27,566 | 2,500,626 | 1.10 | 1.08 |
| 40-44 | 15,346 | 1,431,955 | 1.07 | 1.09 | 16,022 | 1,467,343 | 1.09 | 1.09 | 31,368 | 2,899,298 | 1.08 | 1.09 |
| 45-49 | 13,579 | 1,238,517 | 1.10 | 1.09 | 13,289 | 1,234,457 | 1.08 | 1.09 | 26,868 | 2,472,974 | 1.09 | 1.09 |
| 50-54 | 12,375 | 1,109,401 | 1.12 | 1.09 | 11,468 | 1,077,543 | 1.06 | 1.08 | 23,843 | 2,186,944 | 1.09 | 1.09 |
| 55-59 | 11,589 | 1,045,408 | 1.11 | 1.10 | 10,683 | 982,909 | 1.09 | 1.08 | 22,272 | 2,028,317 | 1.10 | 1.09 |
| 60-64 | 10,937 | 998,368 | 1.10 | 1.10 | 9,786 | 912,274 | 1.07 | 1.09 | 20,723 | 1,910,642 | 1.08 | 1.09 |
| 65-69 | 9,659 | 909,024 | 1.06 | 1.10 | 8,525 | 791,449 | 1.08 | 1.09 | 18,184 | 1,700,473 | 1.07 | 1.09 |
| 70-74 | 7,095 | 662,761 | 1.07 | 1.10 | 5,776 | 537,665 | 1.07 | 1.09 | 12,871 | 1,200,426 | 1.07 | 1.09 |
| 75+ | 8,086 | 760,171 | 1.06 | 1.09 | 5,771 | 539,843 | 1.07 | 1.08 | 13,857 | 1,300,014 | 1.07 | 1.09 |
| Total | 126,329 | 11,584,890 | 1.09 | 1.09 | 126,471 | 11,690,510 | 1.08 | 1.08 | 252,800 | 23,275,400 | 1.09 | 1.09 |
| Divorced | | | | | | | | | | | | |
| 16-29 | 783 | 76,517 | 1.02 | 1.04 | 1,656 | 152,002 | 1.09 | 1.06 | 2,439 | 228,519 | 1.07 | 1.06 |
| 30-34 | 1,251 | 124,427 | 1.01 | 1.04 | 1,993 | 181,338 | 1.10 | 1.07 | 3,244 | 305,765 | 1.06 | 1.06 |
| 35-39 | 1,551 | 146,589 | 1.06 | 1.04 | 2,132 | 198,406 | 1.07 | 1.07 | 3,683 | 344,995 | 1.07 | 1.06 |
| 40-44 | 1,839 | 174,704 | 1.05 | 1.04 | 2,353 | 226,192 | 1.04 | 1.07 | 4,192 | 400,896 | 1.05 | 1.06 |
| 45-49 | 1,529 | 145,503 | 1.05 | 1.05 | 1,981 | 180,661 | 1.10 | 1.07 | 3,510 | 326,164 | 1.08 | 1.06 |
| 50-54 | 1,233 | 119,748 | 1.03 | 1.04 | 1,510 | 140,419 | 1.08 | 1.07 | 2,743 | 260,167 | 1.05 | 1.06 |
| 55-59 | 1,033 | 93,563 | 1.10 | 1.05 | 1,100 | 106,772 | 1.03 | 1.08 | 2,133 | 200,335 | 1.06 | 1.06 |
| 60-64 | 757 | 70,389 | 1.08 | 1.05 | 928 | 84,195 | 1.10 | 1.07 | 1,685 | 154,584 | 1.09 | 1.06 |
| 65-69 | 488 | 48,638 | 1.00 | 1.04 | 641 | 63,851 | 1.00 | 1.07 | 1,129 | 112,489 | 1.00 | 1.06 |
| 70-74 | 274 | 27,260 | 1.01 | 1.04 | 443 | 41,234 | 1.07 | 1.06 | 717 | 68,494 | 1.05 | 1.06 |
| 75+ | 234 | 23,741 | 0.99 | 1.02 | 464 | 45,800 | 1.01 | 1.06 | 698 | 69,541 | 1.00 | 1.04 |
| Total | 10,972 | 1,051,079 | 1.04 | 1.04 | 15,201 | 1,420,870 | 1.07 | 1.07 | 26,173 | 2,471,949 | 1.06 | 1.06 |

Table S91.2 1991 LS sampling fraction by sex age and marital status: traced LS members

| Age & marital status | Males | | | | Females | | | | All people | | | |
|----------------------|-------------------|----------------|--------------|-------------|-------------------|----------------|--------------|-------------|-------------------|----------------|--------------|-------------|
| | 1991 LS Traced | 1991 Census | Sampling fra | actions (%) | 1991 LS Traced | 1991 Census | Sampling fra | actions (%) | 1991 LS Traced | 1991 Census | Sampling fra | actions (%) |
| | sample | population | Observed | Expected | sample | population | Observed | Expected | sample | population | Observed | Expected |
| Widowed | | | | | | | | | | | | |
| 16-29 | 19 | 1,810 | 1.05 | 0.94 | 71 | 6,396 | 1.11 | 0.99 | 90 | 8,206 | 1.10 | 0.98 |
| 30-34 | 23 | 2,330 | 0.99 | 0.96 | 95 | 7,929 | 1.20 | 1.05 | 118 | 10,259 | 1.15 | 1.03 |
| 35-39 | 39 | 4,290 | 0.91 | 1.01 | 160 | 13,796 | 1.16 | 1.05 | 199 | 18,086 | 1.10 | 1.04 |
| 40-44 | 82 | 8,292 | 0.99 | 1.05 | 303 | 27,088 | 1.12 | 1.07 | 385 | 35,380 | 1.09 | 1.06 |
| 45-49 | 113 | 12,191 | 0.93 | 1.04 | 499 | 43,123 | 1.16 | 1.06 | 612 | 55,314 | 1.11 | 1.05 |
| 50-54 | 232 | 19,943 | 1.16 | 1.07 | 848 | 74,416 | 1.14 | 1.06 | 1,080 | 94,359 | 1.14 | 1.06 |
| 55-59 | 360 | 33,635 | 1.07 | 1.06 | 1,447 | 133,556 | 1.08 | 1.07 | 1,807 | 167,191 | 1.08 | 1.07 |
| 60-64 | 677 | 61,655 | 1.10 | 1.06 | 2,600 | 244,576 | 1.06 | 1.07 | 3,277 | 306,231 | 1.07 | 1.07 |
| 65-69 | 1,127 | 103,414 | 1.09 | 1.07 | 4,249 | 391,199 | 1.09 | 1.08 | 5,376 | 494,613 | 1.09 | 1.08 |
| 70-74 | 1,250 | 119,755 | 1.04 | 1.08 | 5,075 | 480,265 | 1.06 | 1.08 | 6,325 | 600,020 | 1.05 | 1.08 |
| 75+ | 3,779 | 352,370 | 1.07 | 1.07 | 16,037 | 1,496,150 | 1.07 | 1.08 | 19,816 | 1,848,520 | 1.07 | 1.08 |
| Total | 7,701 | 719,685 | 1.07 | 1.07 | 31,384 | 2,918,494 | 1.08 | 1.08 | 39,085 | 3,638,179 | 1.07 | 1.07 |
| All people | | | | | | | | | | | | |
| 0-15 | 54,681 | 5,128,982 | 1.07 | 1.07 | 52,436 | 4,884,421 | 1.07 | 1.07 | 107,117 | 10,013,403 | 1.07 | 1.07 |
| 16-19 | 14,600 | 1,334,840 | 1.09 | 1.07 | 14,096 | 1,283,608 | 1.10 | 1.07 | 28,696 | 2,618,448 | 1.10 | 1.07 |
| 20-24 | 19,081 | 1,844,532 | 1.03 | 1.05 | 19,838 | 1,886,843 | 1.05 | 1.06 | 38,919 | 3,731,375 | 1.04 | 1.06 |
| 25-29 | 20,379 | 1,957,808 | 1.04 | 1.05 | 21,277 | 2,013,101 | 1.06 | 1.06 | 41,656 | 3,970,909 | 1.05 | 1.06 |
| 30-34 | 19,445 | 1,800,696 | 1.08 | 1.06 | 19,613 | 1,822,012 | 1.08 | 1.07 | 39,058 | 3,622,708 | 1.08 | 1.06 |
| 35-39 | 17,961 | 1,645,575 | 1.09 | 1.06 | 18,005 | 1,662,607 | 1.08 | 1.07 | 35,966 | 3,308,182 | 1.09 | 1.07 |
| 40-44 | 19,392 | 1,824,168 | 1.06 | 1.07 | 19,929 | 1,837,947 | 1.08 | 1.07 | 39,321 | 3,662,115 | 1.07 | 1.07 |
| 45-49 | 16,673 | 1,537,361 | 1.08 | 1.07 | 16,589 | 1,536,262 | 1.08 | 1.07 | 33,262 | 3,073,623 | 1.08 | 1.07 |
| 50-54 | 14,979 | 1,360,870 | 1.10 | 1.07 | 14,510 | 1,358,987 | 1.07 | 1.07 | 29,489 | 2,719,857 | 1.08 | 1.07 |
| 55-59 | 14,053 | 1,274,953 | 1.10 | 1.07 | 13,977 | 1,291,916 | 1.08 | 1.07 | 28,030 | 2,566,869 | 1.09 | 1.07 |
| 60-64 | 13,466 | 1,235,649 | 1.09 | 1.07 | 14,176 | 1,323,056 | 1.07 | 1.07 | 27,642 | 2,558,705 | 1.08 | 1.07 |
| 65-69 | 12,241 | 1,152,977 | 1.06 | 1.07 | 14,357 | 1,337,539 | 1.07 | 1.07 | 26,598 | 2,490,516 | 1.07 | 1.07 |
| 70-74 | 9,296 | 870,015 | 1.07 | 1.08 | 12,216 | 1,144,379 | 1.07 | 1.07 | 21,512 | 2,014,394 | 1.07 | 1.07 |
| 75+ | 12,891 | 1,214,567 | 1.06 | 1.07 | 24,864 | 2,324,606 | 1.07 | 1.07 | 37,755 | 3,539,173 | 1.07 | 1.07 |
| Total | 259,138 | 24,182,993 | 1.07 | 1.07 | 275,883 | 25,707,284 | 1.07 | 1.07 | 535,021 | 49,890,277 | 1.07 | 1.07 |

¹ Source: Office for National Statistics Longitudinal Study (LS)

² LS members, usually resident in England and Wales

³ 'Traced' means the LS members' records were found on the National Health Service Central Register before or at the 1991 Census-LS link

⁴ Census populations are taken from HMSO (1993) '1991 Census Sex, Age and Marital Status Great Britain' Table 1

1991 sampling fractions by sex and socio-economic group

There was some variation in sampling fractions in the 1991 Longitudinal Study (LS) sample by socio-economic group. The highest value (1.15) was for agricultural workers and the lowest for people whose group was 'inadequately described' (0.77) and those in the armed forces (0.95). Care should be applied when interpreting figures for categories that represent small numbers of people and high not-traced rates, such as the armed forces (see Table T91.4b describing 'not traced' rates by sex and socio-economic group for 1991 LS sample members who were economically active and aged 16 and over).

The highest observed sampling fraction among men was for personal-service workers (1.18), and among women who were 'own-account farmers' (farmers and horticulturalists who were self-employed without employees) (1.34).

The lowest sampling fractions for both men and women were among those whose socio-economic group was 'inadequately described' (0.76 and 0.78 respectively) and those in the armed services (0.95 and 0.96 respectively).

Table S91.3 1991 LS sampling fractions by sex and socio-economic group: economically active traced LS members aged 16+

| Socio-economic group | Males | | | | Females | | | | All people | | | |
|---|---------|------------|--------------|-------------|---------|------------|--------------|-------------|------------|------------|--------------|-------------|
| | 1991 LS | 1991 | Sampling fra | actions (%) | 1991 LS | 1991 | Sampling fra | actions (%) | 1991 LS | 1991 | Sampling fra | actions (%) |
| | Traced | Census | | ` | Traced | Census | | | Traced | Census | | ` |
| | sample | population | Observed | Expected | sample | population | Observed | Expected | sample | population | Observed | Expected |
| Employers and managers in large establishments | 8,173 | 768,120 | 1.06 | 1.11 | 3,095 | 309,100 | 1.00 | 1.09 | 11,268 | 1,077,220 | 1.05 | 1.10 |
| Employers and managers in small establishments | 18,711 | 1,662,150 | 1.13 | 1.11 | 8,123 | 749,700 | 1.08 | 1.09 | 26,834 | 2,411,850 | 1.11 | 1.10 |
| Professional - self-employed | 1,976 | 183,910 | 1.07 | 1.11 | 318 | 27,510 | 1.16 | 1.08 | 2,294 | 211,420 | 1.09 | 1.10 |
| Professional - employees | 7,519 | 704,430 | 1.07 | 1.10 | 1,679 | 156,640 | 1.07 | 1.07 | 9,198 | 861,070 | 1.07 | 1.09 |
| Intermediate non-manual workers | 13,435 | 1,257,600 | 1.07 | 1.11 | 18,648 | 1,739,230 | 1.07 | 1.09 | 32,083 | 2,996,830 | 1.07 | 1.10 |
| Junior non-manual workers | 13,371 | 1,189,120 | 1.12 | 1.11 | 39,533 | 3,594,810 | 1.10 | 1.10 | 52,904 | 4,783,930 | 1.11 | 1.11 |
| Personal service workers | 2,398 | 202,830 | 1.18 | 1.05 | 9,194 | 842,820 | 1.09 | 1.09 | 11,592 | 1,045,650 | 1.11 | 1.09 |
| Foremen and supervisors - manual | 4,270 | 377,790 | 1.13 | 1.12 | 777 | 72,270 | 1.08 | 1.10 | 5,047 | 450,060 | 1.12 | 1.11 |
| Skilled manual workers | 31,157 | 2,768,930 | 1.13 | 1.11 | 3,077 | 268,720 | 1.15 | 1.10 | 34,234 | 3,037,650 | 1.13 | 1.11 |
| Semi-skilled manual workers | 18,046 | 1,579,650 | 1.14 | 1.11 | 10,886 | 968,630 | 1.12 | 1.09 | 28,932 | 2,548,280 | 1.14 | 1.10 |
| Unskilled manual workers | 6,644 | 604,330 | 1.10 | 1.10 | 7,471 | 678,620 | 1.10 | 1.09 | 14,115 | 1,282,950 | 1.10 | 1.10 |
| Own-account workers (not professional) | 13,731 | 1,230,860 | 1.12 | 1.11 | 3,221 | 282,180 | 1.14 | 1.09 | 16,952 | 1,513,040 | 1.12 | 1.10 |
| Farmers - employers and managers | 775 | 72,380 | 1.07 | 1.12 | 144 | 12,360 | 1.17 | 1.10 | 919 | 84,740 | 1.08 | 1.11 |
| Farmers - own account | 889 | 80,170 | 1.11 | 1.12 | 172 | 12,800 | 1.34 | 1.11 | 1,061 | 92,970 | 1.14 | 1.11 |
| Agricultural workers | 1,359 | 118,000 | 1.15 | 1.11 | 588 | 52,010 | 1.13 | 1.09 | 1,947 | 170,010 | 1.15 | 1.10 |
| Members of armed forces | 1,668 | 175,980 | 0.95 | 0.93 | 139 | 14,410 | 0.96 | 0.78 | 1,807 | 190,390 | 0.95 | 0.92 |
| Inadequately described occupations and not stated | 1,199 | 157,990 | 0.76 | 1.08 | 701 | 90,340 | 0.78 | 1.05 | 1,900 | 248,330 | 0.77 | 1.07 |
| All people | 145,321 | 13,134,240 | 1.11 | 1.11 | 107,766 | 9,872,150 | 1.09 | 1.09 | 253,087 | 23,006,390 | 1.10 | 1.10 |

¹ Source: Office for National Statistics Longitudinal Study (LS)

² LS members, usually resident in England and Wales

³ 'Traced' means the LS members' records were found on the National Health Service Central Register before or at the 1991 Census-LS link

⁴ Census populations are taken from HMSO (1994) '1991 Census. Economic Activity. Great Britain' Table 17. They are 10 per cent sample figures, multiplied by 10

1991 sampling fractions by sex and social class

Little variation was found in the 1991 Longitudinal Study (LS) sample by social class, with the exception of people in the armed services, a group with particularly high not-traced rates (see Table T91.5a describing 'not traced' rates by sex and social class for 1991 LS sample members who were aged 16 and over) and the lowest observed sampling fraction (0.84).

The biggest difference between sampling fractions for males and females was for those in the armed services (0.86 and 0.80 respectively). However, these figures should be interpreted with care due to the small numbers in this category, especially among females.

Table S91.4 1991 LS sampling fractions by sex and social class: economically active traced LS members aged 16+

| Social Class | Males | | | | Females | | | | All people | | | |
|----------------------------|-------------------|----------------|--------------|------------|-------------------|----------------|--------------|------------|-------------------|----------------|--------------|------------|
| | 1991 LS Traced | 1991 Census | Sampling fra | ctions (%) | 1991 LS Traced | 1991 Census | Sampling fra | ctions (%) | 1991 LS Traced | 1991 Census | Sampling fra | ctions (%) |
| | sample | population | Observed | Expected | sample | population | Observed | Expected | sample | population | Observed | Expected |
| Non-manual | | , , | | | • | , , | | • | • | • • | | |
| I Professional | 9,532 | 892,220 | 1.07 | 1.10 | 2,005 | 184,820 | 1.08 | 1.07 | 11,537 | 1,077,040 | 1.07 | 1.09 |
| II Intermediate | 39,784 | 3,624,940 | 1.10 | 1.11 | 29,160 | 2,722,340 | 1.07 | 1.09 | 68,944 | 6,347,280 | 1.09 | 1.10 |
| IIIN Skilled non-manual | 16,066 | 1,433,030 | 1.12 | 1.11 | 41,889 | 3,817,760 | 1.10 | 1.10 | 57,955 | 5,250,790 | 1.10 | 1.11 |
| Total non-manual | 65,382 | 5,950,190 | 1.10 | 1.11 | 73,054 | 6,724,920 | 1.09 | 1.09 | 138,436 | 12,675,110 | 1.09 | 1.10 |
| Manual | | | | | | | | | | | | |
| IIIM Skilled manual | 46,804 | 4,177,870 | 1.12 | 1.11 | 7,776 | 697,270 | 1.12 | 1.09 | 54,580 | 4,875,140 | 1.12 | 1.10 |
| IV Partly skilled | 22,701 | 1,983,260 | 1.14 | 1.11 | 18,508 | 1,657,960 | 1.12 | 1.09 | 41,209 | 3,641,220 | 1.13 | 1.10 |
| V Unskilled | 7,567 | 688,950 | 1.10 | 1.10 | 7,588 | 687,250 | 1.10 | 1.09 | 15,155 | 1,376,200 | 1.10 | 1.10 |
| Total manual | 77,072 | 6,850,080 | 1.13 | 1.11 | 33,872 | 3,042,480 | 1.11 | 1.09 | 110,944 | 9,892,560 | 1.12 | 1.10 |
| Members of armed forces | 1,668 | 175,980 | 0.95 | 0.93 | 139 | 14,410 | 0.96 | 0.78 | 1,807 | 190,390 | 0.95 | 0.92 |
| Inadequately described occ | 1,199 | 157,990 | 0.76 | 1.08 | 701 | 90,340 | 0.78 | 1.05 | 1,900 | 248,330 | 0.77 | 1.07 |
| All people | 145321 | 13134240 | 1.11 | 1.11 | 107,766 | 9,872,150 | 1.09 | 1.09 | 253,087 | 23,006,390 | 1.10 | 1.10 |

Notes

Source: Office for National Statistics Longitudinal Study (LS)
 LS members, usually resident in England and Wales
 'Traced' means the LS members' records were found on the National Health Service Central Register before or at the 1991 Census-LS link
 Census populations are taken from HMSO (1994) '1991 Census. Economic Activity. Great Britain' Table 17. They are 10 per cent sample figures, multiplied by 10

1991 sampling fractions by sex and country of birth

Observed sampling fractions for Longitudinal Study (LS) members born outside of the UK were high for those from several countries of birth, despite low rates of tracing for these groups compared to those born in the UK (see Table T91.6a describing 'not traced' by sex and country of birth rates for 1991 LS sample members).

As in previous censuses, sampling fractions for the 1991 LS population varied by country of birth. The lowest value (0.67) was observed among people born in the USA, many of whom were armed forces personnel.

The highest values were among people born in countries of the 'New Commonwealth' such as Bangladesh (1.73), Pakistan (1.63) and India (1.61). These figures contrast with the low expected sampling fractions for these groups (1.00, 1.01 and 1.02 respectively). As in previous censuses, these low sampling fractions are associated with low tracing rates. The difference between observed and expected sampling fractions is due to oversampling as a result of date-of-birth preferences for people born in these countries.

Finally, males born in Pakistan (1.75) and India (1.66) have higher sampling fractions than females born in these countries (1.50 and 1.57 respectively), while females born in Bangladesh (1.84) have higher sampling fractions than males born in Bangladesh (1.64).

Table S91.5 1991 LS sampling fraction by sex and country of birth: traced LS members

| Country of birth | Males | | | | Females | | | | All people | | | |
|-------------------------------|---------|------------|--------------|------------|---------|------------|--------------|------------|------------|------------|----------------|-----------|
| • | 1991 LS | 1991 | | | 1991 LS | 1991 | | | 1991 LS | 1991 | | |
| | Traced | Census | Sampling fra | ctions (%) | Traced | Census | Sampling fra | ctions (%) | Traced | Census | Sampling fract | tions (%) |
| | sample | population | Observed | Expected | sample | population | Observed | Expected | sample | population | Observed | Expected |
| United Kingdom | 238,620 | 22,442,910 | 1.06 | 1.08 | 253,987 | 23,821,558 | 1.07 | 1.08 | 492,607 | 46,264,468 | 1.06 | 1.08 |
| Outside UK | 20,518 | 1,740,083 | 1.18 | 0.98 | 21,896 | 1,885,726 | 1.16 | 0.99 | 42,414 | 3,625,809 | 1.17 | 0.98 |
| Irish Republic | 2,705 | 264,395 | 1.02 | 1.01 | 3,255 | 305,364 | 1.07 | 1.03 | 5,960 | 569,759 | 1.05 | 1.02 |
| Old Commonwealth | 696 | 73,921 | 0.94 | 0.93 | 852 | 88,074 | 0.97 | 0.99 | 1,548 | 161,995 | 0.96 | 0.96 |
| New Commonwealth and Pakistan | 11,252 | 819,298 | 1.37 | 1.01 | 10,832 | 825,324 | 1.31 | 1.00 | 22,084 | 1,644,622 | 1.34 | 1.01 |
| India | 3,226 | 194,386 | 1.66 | 1.03 | 3,230 | 205,630 | 1.57 | 1.01 | 6,456 | 400,016 | 1.61 | 1.02 |
| Pakistan | 2,032 | 115,806 | 1.75 | 1.02 | 1,630 | 108,890 | 1.50 | 0.99 | 3,662 | 224,696 | 1.63 | 1.01 |
| Bangladesh | 908 | 55,275 | 1.64 | 1.01 | 900 | 48,933 | 1.84 | 0.99 | 1,808 | 104,208 | 1.73 | 1.00 |
| Africa | 1,836 | 164,335 | 1.12 | 0.99 | 1,762 | 159,684 | 1.10 | 1.00 | 3,598 | 324,019 | 1.11 | 1.00 |
| Caribbean | 1,329 | 124,812 | 1.06 | 1.01 | 1,499 | 138,149 | 1.09 | 1.02 | 2,828 | 262,961 | 1.08 | 1.02 |
| Mediterranean | 758 | 59,201 | 1.28 | 1.03 | 700 | 58,316 | 1.20 | 0.99 | 1,458 | 117,517 | 1.24 | 1.01 |
| Remainder | 1,163 | 105,483 | 1.10 | 1.00 | 1,111 | 105,722 | 1.05 | 1.00 | 2,274 | 211,205 | 1.08 | 1.00 |
| Europe, excluding USSR | 2,911 | 289,814 | 1.00 | 0.98 | 3,905 | 370,762 | 1.05 | 1.02 | 6,816 | 660,576 | 1.03 | 1.00 |
| USA | 409 | 65,554 | 0.62 | 0.61 | 466 | 65,341 | 0.71 | 0.73 | 875 | 130,895 | 0.67 | 0.66 |
| Elsewhere and not stated | 2,545 | 227,101 | 1.12 | 0.90 | 2,586 | 230,861 | 1.12 | 0.91 | 5,131 | 457,962 | 1.12 | 0.91 |
| All people | 259,138 | 24,182,993 | 1.07 | 1.07 | 275,883 | 25,707,284 | 1.07 | 1.07 | 535,021 | 49,890,277 | 1.07 | 1.07 |

Source: Office for National Statistics Longitudinal Study (LS)
 LS members, usually resident in England and Wales
 'Traced' means the LS members' records were found on the National Health Service Central Register before or at the 1991 Census-LS link
 Census populations are taken from HMSO (1993) '1991 Census. Ethnic group and Country of Birth. Great Britain' Table 1

1991 sampling fractions by sex, age and ethnicity

Please note that calculations in many of the age groups here were based on small numbers and should be interpreted with care.

There were some similarities between the sampling fractions by ethnic group and sampling fractions by country of birth. The greatest variation was found among people who identified their ethnicity as Indian, Pakistani or Bangladeshi. For males, the highest sampling fraction was for Pakistani men aged 35 to 44 (2.09), and the lowest for men aged 35 to 44 describing themselves as 'Black other' (0.71).

Among females, Bangladeshi women aged 35 to 44 had the highest sampling fraction (2.30), while women aged 60 and over in the 'Other groups – other' category had the lowest sampling fraction (0.74).

The largest differences between observed and expected sampling fractions by sex were for Pakistani men aged 35 to 44 and for Bangladeshi women aged 35 to 44.

Table S91.6 1991 LS sampling fractions by sex, age and ethnic group: traced LS members

| Ethnic Origin and age | Males | | | | Females | | | | All people | | | |
|-----------------------|---------|-------------------|--------------|--------------|---------|------------|--------------|--------------|--------------|-------------------|--------------|--------------|
| | 1991 LS | 1991 | Compline fro | estione (0/) | 1991 LS | 1991 | Campling fro | ations (0/) | 1991 LS | 1991 | Compline fro | otiona (0/) |
| | Traced | Census | Sampling fra | ictions (%) | Traced | Census | Sampling fra | CHOIS (%) | Traced | Census | Sampling fra | CHOIS (%) |
| | sample | population | Observed | Expected | sample | population | Observed | Expected | sample | population | Observed | Expected |
| White | | | | | | | | | | | | |
| 0-14 | 46,749 | 4,355,958 | 1.07 | 1.08 | 44,726 | 4,144,454 | 1.08 | 1.08 | 91,475 | 8,500,412 | 1.08 | 1.08 |
| 15-24 | 34,001 | 3,222,731 | 1.06 | 1.07 | 34,056 | 3,191,185 | 1.07 | 1.07 | 68,057 | 6,413,916 | 1.06 | 1.07 |
| 25-34 | 36,686 | 3,490,435 | 1.05 | 1.07 | 37,196 | 3,537,472 | 1.05 | 1.07 | 73,882 | 7,027,907 | 1.05 | 1.07 |
| 35-44 | 34,689 | 3,280,969 | 1.06 | 1.08 | 35,053 | 3,297,582 | 1.06 | 1.08 | 69,742 | 6,578,551 | 1.06 | 1.08 |
| 45-59 | 42,719 | 3,977,620 | 1.07 | 1.08 | 42,714 | 4,009,753 | 1.07 | 1.08 | 85,433 | 7,987,373 | 1.07 | 1.08 |
| 60+ | 46,620 | 4,379,429 | 1.06 | 1.08 | 64,649 | 6,050,273 | 1.07 | 1.08 | 111,269 | 10,429,702 | 1.07 | 1.08 |
| Total | | 22,707,142 | 1.06 | 1.08 | | 24,230,719 | 1.07 | 1.08 | 499,858 | 46,937,861 | 1.06 | 1.08 |
| Black Caribbean | | | | | | | | | | | | |
| 0-14 | 507 | 52,352 | 0.97 | 1.05 | 512 | 51,217 | 1.00 | 1.06 | 1,019 | 103,569 | 0.98 | 1.05 |
| 15-24 | 373 | 37,825 | 0.99 | 1.05 | 409 | 42,026 | 0.97 | 1.05 | 782 | 79,851 | 0.98 | 1.05 |
| 25-34 | 495 | 49,617 | 1.00 | 1.02 | 644 | 62,671 | 1.03 | 1.03 | 1,139 | 112,288 | 1.01 | 1.03 |
| 35-44 | 224 | 21,102 | 1.06 | 1.02 | 318 | 29,971 | 1.06 | 1.05 | 542 | 51,073 | 1.06 | 1.04 |
| 45-59 | 500 | 48,006 | 1.04 | 1.02 | 572 | 50,077 | | 1.03 | 1,072 | 98,083 | 1.09 | |
| | 352 | | | | 314 | 24,074 | 1.14 | | | | | 1.03 |
| 60+ Total | 2,451 | 30,092 238,994 | 1.17 1.03 | 1.02 1.03 | 2,769 | 260,036 | 1.30 1.06 | 1.02 1.04 | 666 5,220 | 54,166 499,030 | 1.23 1.05 | 1.02 1.04 |
| Division Address | | | | | | | | | | | | |
| Black African | 000 | 00.040 | 0.00 | 0.00 | 0.40 | 00.400 | 0.00 | 0.00 | 504 | 50.040 | 0.00 | 0.04 |
| 0-14 | 262 | 29,649 | 0.88 | 0.92 | 242 | 29,193 | 0.83 | 0.89 | 504 | 58,842 | 0.86 | 0.91 |
| 15-24 | 153 | 18,105 | 0.85 | 0.79 | 189 | 19,542 | 0.97 | 0.82 | 342 | 37,647 | 0.91 | 0.81 |
| 25-34 | 229 | 28,983 | 0.79 | 0.70 | 284 | 30,460 | 0.93 | 0.85 | 513 | 59,443 | 0.86 | 0.78 |
| 35-44 | 160 | 14,597 | 1.10 | 0.84 | 168 | 14,101 | 1.19 | 0.97 | 328 | 28,698 | 1.14 | 0.91 |
| 45-59 | 151 | 10,420 | 1.45 | 0.98 | 96 | 8,925 | 1.08 | 0.95 | 247 | 19,345 | 1.28 | 0.97 |
| 60+ | 39 | 3,458 | 1.13 | 0.90 | 28 | 2,156 | 1.30 | 0.82 | 67 | 5,614 | 1.19 | 0.87 |
| Total | 994 | 105,212 | 0.94 | 0.83 | 1,007 | 104,377 | 0.96 | 0.88 | 2,001 | 209,589 | 0.95 | 0.86 |
| Black Other | | | | | | | | | | | | |
| 0-14 | 444 | 43,141 | 1.03 | 1.06 | 399 | 42,273 | 0.94 | 1.04 | 843 | 85,414 | 0.99 | 1.05 |
| 15-24 | 169 | 17,641 | 0.96 | 1.05 | 205 | 19,438 | 1.05 | 1.06 | 374 | 37,079 | 1.01 | 1.06 |
| 25-34 | 136 | 14,903 | 0.91 | 0.98 | 179 | 17,614 | 1.02 | 1.02 | 315 | 32,517 | 0.97 | 1.00 |
| 35-44 | 35 | 4,904 | 0.71 | 0.98 | 54 | 4,945 | 1.09 | 0.98 | 89 | 9,849 | 0.90 | 0.98 |
| 45+ | 48 | 5,509 | 0.87 | 0.93 | 54 | 5,387 | 1.00 | 0.95 | 102 | 10,896 | 0.94 | 0.94 |
| Total | 832 | 86,098 | 0.97 | 1.03 | 891 | 89,657 | 0.99 | 1.03 | 1,723 | 175,755 | 0.98 | 1.03 |
| Indian | | | | | | | | | | | | |
| 0-14 | 1,329 | 117,920 | 1.13 | 1.06 | 1,210 | 113,688 | 1.06 | 1.07 | 2,539 | 231,608 | 1.10 | 1.06 |
| 15-24 | 720 | 69,376 | 1.04 | 1.04 | 738 | 70,324 | 1.05 | 1.02 | 1,458 | 139,700 | 1.04 | 1.03 |
| 25-34 | 1,005 | 72,397 | 1.39 | 1.03 | 1,208 | 79,425 | 1.52 | 1.03 | 2,213 | 151,822 | 1.46 | 1.03 |
| 35-44 | 1,067 | 68,665 | 1.55 | 1.03 | 1,120 | 66,750 | 1.68 | 1.03 | 2,187 | 135,415 | 1.62 | 1.03 |
| 45-59 | 1,140 | 59,886 | 1.90 | 1.04 | 873 | 54,944 | 1.59 | 1.00 | 2,013 | 114,830 | 1.75 | 1.02 |
| 45-59 60+ | 428 | 29,352 | 1.46 | 1.04 | 342 | 27,478 | 1.24 | 0.96 | 770 | 56,830 | 1.75 | 0.98 |
| Total | 5,689 | 417,596 | 1.36 | 1.04 | 5,491 | 412,609 | 1.33 | 1.03 | 11,180 | 830,205 | 1.35 | 1.03 |
| Pakistani | | | | | | | | | | | | |
| 0-14 | 060 | 05 225 | 1.02 | 1.03 | 973 | 90,109 | 1.08 | 1.02 | 1.040 | 105 224 | 1.05 | 1.00 |
| | 969 | 95,225 | | | | | | | 1,942 | 185,334 | 1.05 | 1.03 |
| 15-24 | 541 | 44,872 | 1.21 | 1.01 | 520 | 44,170 | 1.18 | 1.03 | 1,061 | 89,042 | 1.19 | 1.02 |
| 25-34 | 491 | 30,275 | 1.62 | 1.01 | 532 | 33,909 | 1.57 | 0.98 | 1,023 | 64,184 | 1.59 | 0.99 |
| 35-44 | 562 | 26,938 | 2.09 | 1.03 | 428 | 25,599 | 1.67 | 1.00 | 990 | 52,537 | 1.88 | 1.02 |
| 45-59 | 504 | 26,904 | 1.87 | 1.03 | 338 | 20,396 | 1.66 | 0.99 | 842 | 47,300 | 1.78 | 1.01 |
| 60+ | 172 | 10,548 | 1.63 | 1.05 | 74 | 6,418 | 1.15 | 0.92 | 246 | 16,966 | 1.45 | 1.00 |
| Total | 3,239 | 234,762 | 1.38 | 1.02 | 2,865 | 220,601 | 1.30 | 1.01 | 6,104 | 455,363 | 1.34 | 1.02 |

Table S91.6 1991 LS sampling fractions by sex, age and ethnic group: traced LS members

| Ethnic Origin and age | Males | | | | Females | | | | All people | | | |
|-----------------------|-------------------|------------------|--------------|--------------|-------------------|------------------|--------------|--------------|-------------------|-------------------|--------------|--------------|
| | 1991 LS Traced | 1991 Census | Sampling fra | ections (%) | 1991 LS Traced | 1991 Census | Sampling fra | ctions (%) | 1991 LS Traced | 1991 Census | Sampling fra | ctions (%) |
| | sample | population | Observed | Expected | sample | population | Observed | Expected | sample | population | Observed | Expected |
| Bangladeshi | | | | | | | | | | | | |
| 0-14 | 375 | 37,187 | 1.01 | 1.00 | 396 | 35,041 | 1.13 | 1.03 | 771 | 72,228 | 1.07 | 1.01 |
| 15-24 | 265 | 16,461 | 1.61 | 0.99 | 285 | 16,285 | 1.75 | 1.00 | 550 | 32,746 | 1.68 | 1.00 |
| 25-34 | 164 | 9,788 | 1.68 | 0.99 | 183 | 9,185 | 1.99 | 1.01 | 347 | 18,973 | 1.83 | 1.00 |
| 35-44 | 81 | 5,273 | 1.54 | 1.04 | 200 | 8,686 | 2.30 | 0.99 | 281 | 13,959 | 2.01 | 1.00 |
| 45 + | 294 | 15,601 | 1.88 | 1.05 | 142 | 8,194 | 1.73 | 0.98 | 436 | 23,795 | 1.83 | 1.03 |
| Total | 1,179 | 84,310 | 1.40 | 1.01 | 1,206 | 77,391 | 1.56 | 1.01 | 2,385 | 161,701 | 1.47 | 1.01 |
| Chinese | | | | | | | | | | | | |
| 0-14 | 163 | 16,291 | 1.00 | 1.07 | 171 | 15,330 | 1.12 | 1.02 | 334 | 31,621 | 1.06 | 1.05 |
| 15-24 | 149 | 14,723 | 1.01 | 0.95 | 147 | 13,762 | 1.07 | 0.94 | 296 | 28,485 | 1.04 | 0.95 |
| 25-34 | 197 | 16,637 | 1.18 | 0.95 | 162 | 17,267 | 0.94 | 0.94 | 359 | 33,904 | 1.06 | 0.94 |
| 35-44 | 145 | 11,535 | 1.26 | 1.00 | 167 | 14,832 | 1.13 | 1.00 | 312 | 26,367 | 1.18 | 1.00 |
| 45-59 | 139 | 9,095 | 1.53 | 0.98 | 76 | 8,573 | 0.89 | 0.88 | 215 | 17,668 | 1.22 | 0.94 |
| 60+ | 63 | 3,906 | 1.61 | 0.94 | 63 | 4,511 | 1.40 | 0.90 | 126 | 8,417 | 1.50 | 0.92 |
| Total | 856 | 72,187 | 1.19 | 0.98 | 786 | 74,275 | 1.06 | 0.96 | 1,642 | 146,462 | 1.12 | 0.97 |
| Other groups - Asian | | | | | | | | | | | | |
| 0-14 | 240 | 22,496 | 1.07 | 1.00 | 205 | 22,060 | 0.93 | 0.99 | 445 | 44,556 | 1.00 | 0.99 |
| 15-24 | 165 | 15,533 | 1.06 | 0.92 | 154 | 15,331 | 1.00 | 0.89 | 319 | 30,864 | 1.03 | 0.91 |
| 25-34 | 173 | 18,980 | 0.91 | 0.86 | 248 | 23,178 | 1.07 | 0.87 | 421 | 42,158 | 1.00 | 0.86 |
| 35-44 | 205 | 18,033 | 1.14 | 0.96 | 267 | 23,491 | 1.14 | 0.99 | 472 | 41,524 | 1.14 | 0.98 |
| 45-59 | 163 | 12,816 | 1.27 | 0.97 | 140 | 13,068 | 1.07 | 0.95 | 303 | 25,884 | 1.17 | 0.96 |
| 60+ | 58 | 3,585 | 1.62 | 1.02 | 53 | 4,359 | 1.22 | 0.98 | 111 | 7,944 | 1.40 | 1.00 |
| Total | 1,004 | 91,443 | 1.10 | 0.95 | 1,067 | 101,487 | 1.05 | 0.94 | 2,071 | 192,930 | 1.07 | 0.94 |
| Other groups - Other | | | | | | | | | | | | |
| 0-14 | 539 | 57,479 | 0.94 | 1.04 | 574 | 55,324 | 1.04 | 1.04 | 1,113 | 112,803 | 0.99 | 1.04 |
| 15-24 | 249 | 23,389 | 1.06 | 0.97 | 259 | 24,120 | 1.07 | 1.01 | 508 | 47,509 | 1.07 | 0.99 |
| 25-34 | 248 | 26,489 | 0.94 | 0.94 | 254 | 23,932 | 1.06 | 0.95 | 502 | 50,421 | 1.00 | 0.95 |
| 35-44 | 185 | 17,727 | 1.04 | 1.03 | 159 | 14,597 | 1.09 | 0.93 | 344 | 32,324 | 1.06 | 0.98 |
| 45-59 | 139 | 13,183 | 1.05 | 1.00 | 107 | 10,868 | 0.98 | 0.97 | 246 | 24,051 | 1.02 | 0.99 |
| 60+ Total | 70 1,430 | 6,982 145,249 | 1.00 0.98 | 0.97 1.00 | 54 1,407 | 7,291 136,132 | 0.74 1.03 | 0.98 1.00 | 124 2,837 | 14,273 281,381 | 0.87 1.01 | 0.97 1.00 |
| All people | | | | | | | | | | | | |
| 0-14 | 51,577 | 4,827,698 | 1.07 | 1.08 | 49,408 | 4,598,689 | 1.07 | 1.08 | 100,985 | 9,426,387 | 1.07 | 1.08 |
| 15-24 | 36,785 | 3,480,656 | 1.06 | 1.06 | 36,962 | 3,456,183 | 1.07 | 1.07 | 73,747 | 6,936,839 | 1.06 | 1.07 |
| 25-34 | 39,824 | 3,758,504 | 1.06 | 1.06 | 40,890 | 3,835,113 | 1.07 | 1.07 | 80,714 | 7,593,617 | 1.06 | 1.06 |
| 35-44 | 37,353 | 3,469,743 | 1.08 | 1.07 | 37,934 | 3,500,554 | 1.08 | 1.07 | 75,287 | 6,970,297 | 1.08 | 1.07 |
| 45-59 | 45,705 | 4,173,184 | 1.10 | 1.08 | 45,076 | 4,187,165 | 1.08 | 1.07 | 90,781 | 8,360,349 | 1.09 | 1.07 |
| 60+ | 47,894 | 4,473,208 | 1.07 | 1.08 | 65,613 | 6,129,580 | 1.07 | 1.08 | | 10,602,788 | 1.07 | 1.08 |
| Total | , | 24,182,993 | 1.07 | 1.07 | | 25,707,284 | 1.07 | 1.07 | | 49,890,277 | 1.07 | 1.07 |

Source: Office for National Statistics Longitudinal Study (LS)
 Source: Office for National Statistics Longitudinal Study (LS)
 LS members, usually resident in England and Wales
 Traced' means the LS members' records were found on the National Health Service Central Register before or at the 1991 Census-LS link
 Census populations are taken from HMSO (1993) '1991 Census. Ethnic group and Country of Birth. Great Britain' Table 6

1991 sampling fractions by sex and type of establishment

Among private households as a whole, there were no differences between observed and expected sampling fractions for Longitudinal Study (LS) members. However, sampling fractions were low in non-private households due to low rates of tracing for these groups (see Table T91.9 describing 'not traced' rates by sex and type of establishment for 1991 LS sample members).

Please note that calculations for many of the communal establishment categories are based on small numbers and should be interpreted with care.

As in 1971 and 1981, low sampling fractions of around 0.85 were observed for people living in communal establishments, with the exception of nursing homes (1.06) and residential homes (1.05). Please note that 'residential homes' and 'nursing homes' replace the 'homes for the elderly' category found in the 1971 and 1981 sampling fraction tables by type of establishment.

Observed sampling fractions for males in communal establishments were 0.88 overall, at their highest for males in residential homes (1.09) and their lowest for males in places of detention (0.72).

Among females in communal establishments, observed sampling fractions were also low (0.96), with the highest value for females in nursing homes (1.07) and lowest for females in places of detention (0.59).

Table S91.7 1991 LS sampling fractions by sex and type of establishment: traced LS members

| Establishment type | Males | | | | Females | | | | All people | | | |
|----------------------------|---------|------------|--------------|------------|---------|------------|--------------|------------|------------|------------|--------------|------------|
| | 1991 LS | 1991 | Sampling fra | ctions (%) | 1991 LS | 1991 | Sampling fra | ctions (%) | 1991 LS | 1991 | Sampling fra | ctions (%) |
| | Traced | Census | 0 | Ctl | Traced | Census | Ob | C a ata al | Traced | Census | Ob | F a ata al |
| | sample | population | Observed | Expected | sample | population | Observed | Expected | sample | population | Observed | Expected |
| Private households | 248,401 | 23,178,690 | 1.07 | 1.07 | 264,732 | 24,642,562 | 1.07 | 1.07 | 513,133 | 47,821,252 | 1.07 | 1.07 |
| Communal establishments | 5,711 | 647,904 | 0.88 | 1.02 | 6,982 | 724,760 | 0.96 | 1.05 | 12,693 | 1,372,664 | 0.92 | 1.03 |
| Hotels | 1,122 | 134,068 | 0.84 | 1.01 | 854 | 101,268 | 0.84 | 1.02 | 1,976 | 235,336 | 0.84 | 1.01 |
| Psychiatric hospitals | 161 | 18,871 | 0.85 | 0.99 | 206 | 21,468 | 0.96 | 1.00 | 367 | 40,339 | 0.91 | 0.99 |
| Other hospitals | 785 | 84,693 | 0.93 | 1.04 | 1,262 | 133,311 | 0.95 | 1.05 | 2,047 | 218,004 | 0.94 | 1.04 |
| Nursing homes | 349 | 33,459 | 1.04 | 1.06 | 1,050 | 98,102 | 1.07 | 1.05 | 1,399 | 131,561 | 1.06 | 1.05 |
| Residential homes | 528 | 48,490 | 1.09 | 1.04 | 1,382 | 133,456 | 1.04 | 1.06 | 1,910 | 181,946 | 1.05 | 1.06 |
| Childrens homes | 51 | 6,447 | 0.79 | 1.06 | 55 | 5,298 | 1.04 | 1.05 | 106 | 11,745 | 0.90 | 1.06 |
| Educational establishments | 1,137 | 141,335 | 0.80 | 1.05 | 890 | 105,407 | 0.84 | 1.06 | 2,027 | 246,742 | 0.82 | 1.06 |
| Places of detention | 270 | 37,345 | 0.72 | 0.97 | 10 | 1,698 | 0.59 | 0.91 | 280 | 39,043 | 0.72 | 0.97 |
| Defence establishments | 466 | 52,783 | 0.88 | 0.95 | 75 | 7,744 | 0.97 | 0.96 | 541 | 60,527 | 0.89 | 0.95 |
| Other establishments | 842 | 90,413 | 0.93 | 1.02 | 1,198 | 117,008 | 1.02 | 1.05 | 2,040 | 207,421 | 0.98 | 1.04 |
| All people | 254,112 | 23,826,594 | 1.07 | 1.07 | 271,714 | 25,367,322 | 1.07 | 1.07 | 525,826 | 49,193,916 | 1.07 | 1.07 |

Notes

¹ Source: Office for National Statistics Longitudinal Study (LS)

² LS members, usually resident in England and Wales

³ 'Traced' means the LS members' records were found on the National Health Service Central Register before or at the 1991 Census-LS link

⁴ Census populations are taken from HMSO (1993) '1991 Census. Communal Establishments. Great Britain' Table 1 and Table 3

⁵ This table includes present residents and vistors to communal establishments and private households. Absent residents are not included