ONS Longitudinal Study

Quality of linkage between the 1981 and 1991 censuses

The forward linkage rate between the 1981 and 1991 Longitudinal Study (LS) samples was 90.1 per cent. In 1981, 527,956 LS members enumerated at the Census were traced, of whom 466,615 were expected to be found at the 1991 Census. However, the number of 1981 traced LS members actually recorded in 1991 was 420,472.

Between the censuses, 58,618 traced LS members had died, and 2,723 were known to have emigrated from England and Wales. But a further 46,143 traced LS members (8.7 per cent) who had been present at the 1981 Census were not found at the 1991 Census. There was no record of a death or emigration occurring before the 1991 Census for these people.

The 1991 sample of LS members was 543,884, of which 535,015 members (98 per cent) were traced. The change in sample size at the 1991 Census was the result of natural population change (births and deaths) and migrations occurring between 1981 and 1991.

Backward linkage of the 1991 traced LS sample resulted in linking 91.4 per cent of LS members to a 1981 record. This did not include the 65,700 LS members born into the sample or the 8,259 members who immigrated between the 1981 and 1991 Censuses.

The failure to link 8.7 per cent of traced members from the 1981 sample in 1991 may be partly explained by Census under-enumeration combined with unreported emigrations and discrepancies in the recording of LS members’ birth dates in the 1991 Census. It is not possible to measure the contribution of each of these factors to the linkage failure. However, it is believed that approximately two thirds of emigrations from England and Wales by LS members were missed between 1981 and 1991.

Factors affecting non-linkage between 1981 and 1991

Linkage of records from the 1981 traced LS sample to 1991 Census records was high (90.1 per cent). A number of factors were associated with non-linkage to 1991 Census records:

- being young and male
- being never married or living in a lone-parent household
- being born outside of the UK
- living in a communal establishment, privately rented or housing association accommodation
- being unemployed, a student or in the economic position 'other inactive'
- being in the armed services
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| Forward linkage rate | 90.1%      | Backward linkage rate   | 91.4%      |

**Notes**

1. *Source: Office for National Statistics Longitudinal Study (LS)*
2. LS members, usually resident in England and Wales
3. For forward linkage 'traced' means the LS members' records were found on the National Health Service Central Register before or during the 1981 Census Link
4. For backward linkage 'traced' means the LS members' records were found on the National Health Service Central Register before or during the 1991 Census Link
Forward linkage rates between the 1981 and 1991 Censuses: traced members by sex and age

Of the Longitudinal Study (LS) sample members traced in 1981, males (88.9 per cent linked) were less likely to be linked in 1991 than females (91.2 per cent linked). Linkage failure was concentrated in younger aged groups, aged 10 to 29 in 1981 (20 to 39 in 1991) and among those over 80 for both males and females.

Non-linkage of older age groups may have been the result of embarkation and subsequent deaths that had not been added to the database by the time of the 1991 Census. People in younger age groups were more likely to emigrate between the censuses, which means that some linkage failure may be due to unrecorded emigration. Among the younger groups, linkage was lowest among young males, less than 85 per cent among those aged 10 to 19 in 1981. For example, 82.1 per cent of males aged 15 to 19 were linked. For females, the rate was lower with linkage of 87.6 per cent among 10- to 14-year-olds.

Linkage success was most likely among 40- to 64-year-olds (around 93 per cent), after which age it became less likely for both males and females. Linkage rates were also higher for children aged under five, at 91.7 per cent for males and 91.9 per cent for females.

Linkage rates tended to be higher for females. However, males aged 90 and over were more likely to be linked than females (85.0 per cent of males and 63.8 per cent of females linked). In addition, males and females aged 65 to 69 were less likely to be found than people in adjacent age groups. This cohort effect was also visible in 1971, when the group was aged 55 to 59 (see Table L7181.2 describing forward linkage rates between the 1971 and 1981 Censuses: traced LS members by sex and age in 1971).
Table L8191.2  Forward linkage rates between the 1981 and 1991 Censuses: traced LS members by sex and age in 1981

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### Table L8191.2 Forward linkage rates between the 1981 and 1991 Censuses: traced LS members by sex and age in 1981

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**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 during the 1981 Census-LS Link
Forward linkage rates between the 1981 and 1991 Censuses: traced members by sex and marital status

Linkage was most successful among married Longitudinal Study (LS) members in 1991 (92.4 per cent linked). Among males, lowest linkage rates were found for divorced LS members (85.1 per cent linked) but among females, linkage was more likely for divorcees (91.1 per cent linked).

Linkage was also lower among never-married people of both sexes (85.8 per cent of males and 89.3 per cent of females linked).
Table L8191.3 Forward linkage rates between the 1981 and 1991 Censuses: traced LS members by sex and marital status in 1981

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<th>Not linked at 1991 Census</th>
<th>Linked at 1991 Census</th>
<th>Linkage success rate (%)</th>
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<td>226,732</td>
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</tr>
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<td>Divorced</td>
<td>8,535</td>
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<td>7,804</td>
<td>691</td>
<td>7,113</td>
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<tr>
<td>Widowed</td>
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<td>16,656</td>
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<tr>
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<td>20,994</td>
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<td>All people</td>
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<td>61,341</td>
<td>466,615</td>
<td>46,143</td>
<td>420,472</td>
</tr>
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</table>

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 during the 1981 Census-LS Link
The economic position in 1981 of Longitudinal Study (LS) members influenced the likelihood of their being found in 1991. However, this was dependent on their sex. For both sexes, LS members who were employed (91.2 per cent of males and 92.4 per cent of females linked) were more likely to be linked than those in other economic positions. Among females, linkage rates were also high for those looking after their home or family (92.3 per cent linked).

Considering LS members who were economically active in 1981, people in employment were more likely to be linked in 1991 than those out of employment. Among economically active males, those unemployed or waiting to start a job (82.3 per cent linked) were least likely to be linked. Among economically active females, those out of employment due to temporary sickness were least likely to be linked (87.3 per cent linked).

Among the economically inactive in 1981, retired (90.5 per cent of males and 90.3 per cent of females linked) and permanently sick people (89.8 per cent of males and 90.4 per cent of females) were among the most likely to be linked. Linkage rates were much lower among students (77.7 per cent of males and 84.2 per cent of females linked) and those who were counted as ‘other inactive’ (60.6 per cent of males and 81.9 per cent of females linked).

Overall, linkage was more likely for economically active people (91 per cent) than for economically inactive people (90.1 per cent).

Linkage rates were much lower among the ‘other inactive’ group between 1981 and 1991 Censuses (66.8 per cent) compared with those between 1971 and 1981 (91.7 per cent). In 1971 the ‘other inactive’ group included people looking after their home or family. These people higher linkage rates than the other members of this group, for example au pairs and people of independent means.

In 1981, linkage rates for the 1971 sample were comparable for the temporarily sick and the permanently sick. However, in 1991, linkage for the 1981 sample was more likely for permanently sick LS members (90 per cent linked) than for temporarily sick, unemployed members (87 per cent linked).
### Table L8191.4 Forward linkage rates between the 1981 and 1991 Censuses: traced LS members aged 16+ by sex and economic position in 1981

<table>
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<tr>
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<td></td>
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<td>46</td>
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<td>6,292</td>
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<td>183,466</td>
<td>15,220</td>
<td>168,246</td>
<td>91.7</td>
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<td>3,053</td>
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<tr>
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<td></td>
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<td>60,290</td>
<td>351,020</td>
<td>32,687</td>
<td>318,333</td>
<td>90.7</td>
</tr>
</tbody>
</table>

**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 during the 1981 Census-LS Link
4. "Out of employment: other" comprises unemployed people and those waiting to start a job
Forward linkage rates between the 1981 and 1991 Censuses: traced members by sex and social class

The pattern of linkage by social class in 1991 differed for men and women. A social gradient in linkage failure is apparent among males, with the highest linkage rate found for those in managerial and technical occupations (92.2 per cent linked), lower linkage for all groups below and the lowest linkage for males in the unskilled class (86 per cent linked). The exception to this pattern is evident for professional males (91.2 per linked), among whom linkage success was comparable with those in skilled manual occupations (91.3 per cent linked).

In contrast, linkage rates among females were highest at the lower end of the social classification for those in unskilled occupations (93.1 per cent linked) and in the middle of the classification, for those in managerial and technical occupations (93.1 per cent linked). Women in the professional class were among the least likely to be linked (88.9 per cent linked).

Although women (91.7 per cent linked) were more likely than men to be linked in 1991 (89.6 per linked), at the top of the social classification the reverse was true. Men in professional, managerial and technical occupations were more likely to be linked than women.

Table L8191.5 also shows high linkage failure for people serving in the armed forces, with 79.0 per cent of males and 87.3 per cent of females linked. However, there was a sex difference in linkage failure among people whose occupation was inadequately described, with men (78.1 per cent linked) much less likely to be found than women (91.4 per cent linked).
Table L8191.5  Forward linkage rates between the 1981 and 1991 Censuses: traced LS members aged 16+ by sex and social class in 1981

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Males</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td><strong>Females</strong></td>
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<td>183,466</td>
<td>15,220</td>
<td>168,246</td>
<td>91.7</td>
</tr>
<tr>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td>351,020</td>
<td>32,687</td>
<td>318,333</td>
<td>90.7</td>
</tr>
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</table>

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 during the 1981 Census-LS Link
Forward linkage rates between the 1981 and 1991 Censuses: traced members by sex and country of birth

Longitudinal Study (LS) members who were born in the UK (91.3 per cent linked) were more likely to be successfully linked in 1991 than those born elsewhere (75.5 per cent linked). Linkage was most successful for people born in England and Wales (90.5 per cent of males and 92.7 per cent of females linked). This group contributes a substantial proportion to the LS linkage success rates because they constitute the overwhelming majority of the LS sample (around 90 per cent of traced member in 1981).

People born in the ‘West African Commonwealth’ (53.2 per cent linked), the USA (67.4 per cent linked), Bangladesh (69.5 per cent linked) and ‘Remainder of the New Commonwealth’ (70.3 per cent linked) were among the least likely to be linked. This showed a change from 1981, when people who had stated their country of birth in 1971 as the Caribbean Commonwealth and countries of the old Commonwealth (Australia, Canada and New Zealand) were least likely to be linked. People born in the USA were identified as less likely to be linked at both census points. Lower linkage among people born outside the UK is to be expected as immigrant groups generally have younger age structures, and linkage is less likely among younger people (see Table L8191.2).

Around 15 per cent of LS members who were recorded as born outside the UK in 1981 were born in India. As in 1981, linkage rates among this group were high (81.0 per cent for males, 79.1 per cent for females) compared with people born elsewhere outside the UK. Linkage rates were also high for people born in the ‘East African Commonwealth’ (81.8 per cent linked), many of whom are of Indian descent.
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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 during the 1981 Census-LS Link
4. England and Wales includes people born in 'Other UK'
Forward linkage rates between the 1981 and 1991 Censuses: traced members by housing tenure

Linkage rates by tenure show that people who were owner-occupiers (91.4 per cent linked) in 1981 were most likely to be found in 1991. Among LS members in private households, those living in private rented accommodation in 1981 were at greatest risk of not being found at the 1991 Census (85.8 per cent linked), while 86.4 per cent of LS members living in housing association accommodation were linked. Linkage was lowest for residents of communal establishments (78.7 per cent linked).
### Table L8191.7 Forward linkage rates between the 1981 and 1991 Censuses: traced LS members by housing tenure in 1981

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**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 during the 1981 Census-LS Link
Forward linkage rates between the 1981 and 1991 Censuses: traced members by household size

There was an association between Longitudinal Study (LS) members’ household size and linkage success rates in 1991. People who were living in large households with seven or more people in 1981 (81.5 per cent linked) were less likely to be linked with the 1991 Census than people who had been living in smaller households.

Linkage was most successful for two-person households (91.7 per cent linked) and for households containing between three and six people in 1981 (90.5 per cent linked).
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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 during the 1981 Census-LS Link
4. ‘No usual residents’ comprises people enumerated at an address other than their usual address (e.g. holiday flats) and domestic servants
Forward linkage rates between the 1981 and 1991 Censuses: traced members by sex and position in household

The position in the household of Longitudinal Study (LS) members has been examined using ‘minimal household units’. Minimal household units are the smallest unit – or group of people – within a household that might be expected to share the same or a similar lifestyle. (For information on minimal household units see LS User Guide 20)

LS members’ household circumstances affected the likelihood of their being linked in 1991. LS members enumerated in communal establishments in 1981 were less likely to be linked in 1991 (76.4 per cent linked) than people living in households. However, people enumerated in communal establishments only constituted about two per cent of the traced sample in 1981, which means their impact on overall linkage is not substantial.

Adult LS members in married-couple families were most likely to be linked in 1991. Among adults in married-couple families with no dependent children in 1981, 93.1 per cent of males and 92.9 per cent of were linked in 1991. Among adults in married-couple families with dependent children, 92 per cent of males and 93.1 per cent of females were found in 1991.

Linkage was less likely for LS members who were in lone-parent families in 1981 than for people in two-parent families. Among adults, linkage rates for lone parents (89.6 per cent linked) were lower than for adults in married-couple families with dependent children (92.6 per cent linked). Dependent children living with lone parents were the least likely to be found among the people living in private households (80.3 per cent of males and 86.0 per cent of females linked). These children had much lower linkage rates than dependent children living with two parents (87.9 per cent of males and 90.2 per cent of females linked).

In addition, dependent children were less likely to be linked than adults. Linkage rates by age and sex show that young people in the age range 10 to 34 in 1981 were less likely to be linked in 1991. Dependent children are aged 16 and under (or 17 to 18 and in full time education) and would therefore make up a substantial proportion of this young group.

Linkage rates were lower for adults living alone (87.8 per cent linked) compared with other adults in private households. This instance of non-linkage made a substantial contribution to overall linkage failure, given that over a fifth (23.8 per cent) of all traced LS members were adults living alone in 1981.

Reference

Table L8191.9  Forward linkage rates between the 1981 and 1991 Censuses: traced LS members by sex and position in household in 1981

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Males</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adult living alone</td>
<td>58,206</td>
<td>8,021</td>
<td>50,185</td>
<td>7,291</td>
<td>42,894</td>
<td>85.5</td>
</tr>
<tr>
<td>Married couple with no dependent children</td>
<td>65,138</td>
<td>17,320</td>
<td>47,818</td>
<td>3,279</td>
<td>44,539</td>
<td>93.1</td>
</tr>
<tr>
<td>Married couple with spouse &amp; dependent children</td>
<td>59,694</td>
<td>2,524</td>
<td>57,170</td>
<td>4,546</td>
<td>52,624</td>
<td>92.0</td>
</tr>
<tr>
<td>Lone parent</td>
<td>2,305</td>
<td>133</td>
<td>2,172</td>
<td>307</td>
<td>1,865</td>
<td>85.9</td>
</tr>
<tr>
<td>Dependent child living with two parents</td>
<td>55,019</td>
<td>554</td>
<td>54,465</td>
<td>6,605</td>
<td>47,860</td>
<td>87.9</td>
</tr>
<tr>
<td>Dependent child living with lone parent</td>
<td>8,173</td>
<td>70</td>
<td>8,103</td>
<td>1,598</td>
<td>6,505</td>
<td>80.3</td>
</tr>
<tr>
<td>Visitor in a household or communal establishment</td>
<td>5,148</td>
<td>741</td>
<td>4,407</td>
<td>890</td>
<td>3,517</td>
<td>79.8</td>
</tr>
<tr>
<td>Living in a communal establishment</td>
<td>3,309</td>
<td>918</td>
<td>2,391</td>
<td>631</td>
<td>1,760</td>
<td>73.6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>256,992</td>
<td>30,281</td>
<td>226,711</td>
<td>25,147</td>
<td>201,564</td>
<td>88.9</td>
</tr>
<tr>
<td><strong>Females</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adult living alone</td>
<td>67,553</td>
<td>16,235</td>
<td>51,318</td>
<td>5,121</td>
<td>46,197</td>
<td>90.0</td>
</tr>
<tr>
<td>Married couple with no dependent children</td>
<td>65,913</td>
<td>9,785</td>
<td>56,128</td>
<td>3,970</td>
<td>52,158</td>
<td>92.9</td>
</tr>
<tr>
<td>Married couple with spouse &amp; dependent children</td>
<td>59,616</td>
<td>1,319</td>
<td>58,297</td>
<td>4,007</td>
<td>54,290</td>
<td>93.1</td>
</tr>
<tr>
<td>Lone parent</td>
<td>7,601</td>
<td>211</td>
<td>7,390</td>
<td>686</td>
<td>6,704</td>
<td>90.7</td>
</tr>
<tr>
<td>Dependent child living with two parents</td>
<td>53,212</td>
<td>438</td>
<td>52,774</td>
<td>5,158</td>
<td>47,616</td>
<td>90.2</td>
</tr>
<tr>
<td>Dependent child living with lone parent</td>
<td>7,857</td>
<td>57</td>
<td>7,800</td>
<td>1,089</td>
<td>6,711</td>
<td>86.0</td>
</tr>
<tr>
<td>Visitor in a household or communal establishment</td>
<td>5,370</td>
<td>1,079</td>
<td>4,291</td>
<td>586</td>
<td>3,705</td>
<td>86.3</td>
</tr>
<tr>
<td>Living in a communal establishment</td>
<td>3,803</td>
<td>1,936</td>
<td>1,867</td>
<td>376</td>
<td>1,491</td>
<td>79.9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>270,925</td>
<td>31,060</td>
<td>239,865</td>
<td>20,993</td>
<td>218,872</td>
<td>91.2</td>
</tr>
</tbody>
</table>
## Table L8191.9 Forward linkage rates between the 1981 and 1991 Censuses: traced LS members by sex and position in household in 1981

### Position in household and sex in 1981

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>All people</td>
<td>527,917</td>
<td>61,341</td>
<td>466,576</td>
<td>46,140</td>
<td>420,436</td>
<td>90.1</td>
</tr>
<tr>
<td>Adult living alone</td>
<td>125,759</td>
<td>24,256</td>
<td>101,503</td>
<td>12,412</td>
<td>89,091</td>
<td>87.8</td>
</tr>
<tr>
<td>Married couple with no dependent children</td>
<td>131,051</td>
<td>27,105</td>
<td>103,946</td>
<td>7,249</td>
<td>96,697</td>
<td>93.0</td>
</tr>
<tr>
<td>Married couple with spouse &amp; dependent children</td>
<td>119,310</td>
<td>3,843</td>
<td>115,467</td>
<td>8,553</td>
<td>106,914</td>
<td>92.6</td>
</tr>
<tr>
<td>Lone parent</td>
<td>9,906</td>
<td>344</td>
<td>9,562</td>
<td>993</td>
<td>8,569</td>
<td>89.6</td>
</tr>
<tr>
<td>Dependent child living with two parents</td>
<td>108,231</td>
<td>992</td>
<td>107,239</td>
<td>11,763</td>
<td>95,476</td>
<td>89.0</td>
</tr>
<tr>
<td>Dependent child living with lone parent</td>
<td>16,030</td>
<td>127</td>
<td>15,903</td>
<td>2,687</td>
<td>13,216</td>
<td>83.1</td>
</tr>
<tr>
<td>Visitor in a household or communal establishment</td>
<td>10,518</td>
<td>1,820</td>
<td>8,698</td>
<td>1,476</td>
<td>7,222</td>
<td>83.0</td>
</tr>
<tr>
<td>Living in a communal establishment</td>
<td>7,112</td>
<td>2,854</td>
<td>4,258</td>
<td>1,007</td>
<td>3,251</td>
<td>76.4</td>
</tr>
<tr>
<td>Total</td>
<td>527,917</td>
<td>61,341</td>
<td>466,576</td>
<td>46,140</td>
<td>420,436</td>
<td>90.1</td>
</tr>
</tbody>
</table>

### 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 during the 1981 Census-LS Link
4. This table does not include 39 traced LS members, 21 males and 18 females, for whom household circumstances information is missing
Inconsistencies between the 1981 and 1991 Censuses

There were 421,879 traced and untraced LS members found in both the 1981 and 1991 Census-LS samples. The three variables which should not change between two censuses are date of birth, sex and country of birth. However, there were cases of inconsistency in LS members' responses to census questions on these topics between the 1981 and 1991 Censuses.

At the 1991 Census, 11,791 LS members quoted dates of birth which were inconsistent by one year or more with those they had quoted in 1981. This was particularly noticeable among members aged 75 and over in 1981. LS members who stated a sex in 1991 opposite to the one they had quoted in 1981 comprised 0.3 per cent of the sample present at both censuses.

In 1991, 1.2 per cent of LS members stated a different country of birth from that stated at the previous census. The highest proportions of these inconsistencies came from people who had stated their country of birth in 1981 as Scotland, Northern Ireland or a country in the African Commonwealth.
Table L8191.10 Inconsistencies in the characteristics of LS sample members between the 1981 and 1991 Censuses

<table>
<thead>
<tr>
<th>Characteristics in 1981 Census</th>
<th>Characteristics in 1991 Census</th>
<th>Per cent with discrepancy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Consistent with 1981</td>
<td>Inconsistent with 1981</td>
</tr>
<tr>
<td><strong>Sex</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>201,749</td>
<td>514</td>
</tr>
<tr>
<td>Female</td>
<td>218,744</td>
<td>872</td>
</tr>
<tr>
<td>All</td>
<td>420,493</td>
<td>1,386</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Under 10</td>
<td>58,638</td>
<td>1,733</td>
</tr>
<tr>
<td>10-24</td>
<td>102,618</td>
<td>2,578</td>
</tr>
<tr>
<td>25-59</td>
<td>196,308</td>
<td>5,526</td>
</tr>
<tr>
<td>60-74</td>
<td>45,664</td>
<td>1,498</td>
</tr>
<tr>
<td>75+</td>
<td>6,860</td>
<td>456</td>
</tr>
<tr>
<td>All ages</td>
<td>410,088</td>
<td>11,791</td>
</tr>
<tr>
<td><strong>Country of birth</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>England and Wales</td>
<td>385,460</td>
<td>1,153</td>
</tr>
<tr>
<td>Scotland</td>
<td>4,684</td>
<td>612</td>
</tr>
<tr>
<td>Northern Ireland</td>
<td>1,422</td>
<td>189</td>
</tr>
<tr>
<td>Irish Republic</td>
<td>3,968</td>
<td>342</td>
</tr>
<tr>
<td>Old Commonwealth</td>
<td>859</td>
<td>52</td>
</tr>
<tr>
<td>New Commonwealth</td>
<td>13,490</td>
<td>1,154</td>
</tr>
<tr>
<td>India</td>
<td>4,395</td>
<td>321</td>
</tr>
<tr>
<td>Pakistan</td>
<td>2,049</td>
<td>215</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>521</td>
<td>48</td>
</tr>
<tr>
<td>African</td>
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<td>223</td>
</tr>
<tr>
<td>Caribbean</td>
<td>2,083</td>
<td>150</td>
</tr>
<tr>
<td>Mediterranean</td>
<td>1,078</td>
<td>74</td>
</tr>
<tr>
<td>Remainder</td>
<td>1,290</td>
<td>123</td>
</tr>
<tr>
<td>Europe, excluding USSR</td>
<td>4,551</td>
<td>310</td>
</tr>
<tr>
<td>USA</td>
<td>386</td>
<td>26</td>
</tr>
<tr>
<td>All countries</td>
<td>416,959</td>
<td>4,920</td>
</tr>
</tbody>
</table>

**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 during the 1981 Census-LS Link
4. Based on a sample of 421,879 traced and untraced LS members found at both 1981 and 1991 Censuses