**NILS032 - 2011 Census Imputation Flags for NILS**

Although full completion of the Census form is a statutory requirement, it is recognised that some Census forms will not be fully completed for all questions, and it is impractical to return to each household to insist upon full completion.

A system was used in 2011, similar to that in 2001, to impute responses to omitted questions in otherwise complete Census forms. This was developed and applied to all questions, with the exception of religion although it was applied to the derived variable of community background. Respondents who answered inconsistently or answered incorrectly had their response edited.

In addition to completing incomplete returns through item imputation, additional people were imputed, sometimes within existing households, and this may have affected household composition/relationship variables.

In addition a small (undisclosed) percentage of the households had their records on the output database slightly modified by random record swapping. This means that a sample of records was 'swapped' with similar records in other geographical areas.

Imputation flags have been created for a number of person and household variables for the NILS. These compare the original scanned response with the basic edit checks completed (initial extract) to the final census database that was used for published outputs and for the NILS variables. For a small number of variables the edit checks were completed after the initial extract which may result in a higher level of ‘edit/imputation’.

Levels of imputation for person records (including NILS and other NILS household members) and household records (households with at least 1 NILS member) are given in the following table:

| Person Table | Imputed/Edited/Missing | Not Imputed/Not Edited/Not Missing | Records | Imputed/Edited/Missing rate |
| --- | --- | --- | --- | --- |
| Age Imputation Indicator | 47,027 | 1,028,535 | 1,075,562 | 4% |
| Available for work Imputation Indicator | 26,854 | 1,048,708 | 1,075,562 | 2% |
| Care Imputation Indicator | 83,931 | 991,631 | 1,075,562 | 8% |
| Country of Birth - Flat Imputation Indicator | 55,917 | 1,019,645 | 1,075,562 | 5% |
| Country of Workplace/Study Imputation Indicator | 86,714 | 988,848 | 1,075,562 | 8% |
| Country one year ago - Hierarchy Imputation Indicator | 2,549 | 1,073,013 | 1,075,562 | 0% |
| Disability Imputation Indicator | 74,911 | 1,000,651 | 1,075,562 | 7% |
| Employment - In work Imputation Indicator | 46,745 | 1,028,817 | 1,075,562 | 4% |
| Employment Status Imputation Indicator | 56,213 | 1,019,349 | 1,075,562 | 5% |
| Ever worked Imputation Indicator | 92,725 | 982,837 | 1,075,562 | 9% |
| Health Imputation Indicator | 62,422 | 1,013,140 | 1,075,562 | 6% |
| Hours worked Imputation Indicator | 58,652 | 1,016,910 | 1,075,562 | 5% |
| Industry of work Imputation Indicator | 633 | 1,074,929 | 1,075,562 | 0% |
| Intention to stay Imputation Indicator | 30,263 | 1,045,299 | 1,075,562 | 3% |
| Language Proficiency Imputation Indicator [[1]](#footnote-1) | 332,299 | 743,263 | 1,075,562 | 31% |
| Looking for work Imputation Indicator | 50,242 | 1,025,320 | 1,075,562 | 5% |
| Main Language Imputation Indicator | 63,181 | 1,012,381 | 1,075,562 | 6% |
| Marital Status Imputation Indicator | 94,711 | 980,851 | 1,075,562 | 9% |
| Method of travel to workplace/study Imputation Indicator [[2]](#footnote-2) | 196,497 | 879,065 | 1,075,562 | 18% |
| National Identity - Country Imputation Indicator | 3,549 | 1,072,013 | 1,075,562 | 0% |
| Passports Held - Hierarchy Imputation Indicator | 3,095 | 1,072,467 | 1,075,562 | 0% |
| Passports Imputation Indicator | 69,959 | 1,005,603 | 1,075,562 | 7% |
| Residence Type (HH or CE) Imputation Indicator | 45,550 | 1,030,012 | 1,075,562 | 4% |
| Sex Imputation Indicator | 45,302 | 1,030,260 | 1,075,562 | 4% |
| Student Indicator Imputation Indicator | 87,277 | 988,285 | 1,075,562 | 8% |
| Term-time Indicator Imputation Indicator | 70,465 | 1,005,097 | 1,075,562 | 7% |
| UK National Identity Imputation Indicator | 67,528 | 1,008,034 | 1,075,562 | 6% |
| Waiting to start a job already received Imputation Indicator | 23,600 | 1,051,962 | 1,075,562 | 2% |
| Workplace/Study Indicator Imputation Indicator [[3]](#footnote-3) | 467,722 | 607,840 | 1,075,562 | 43% |
| Year last worked Imputation Indicator | 63,410 | 1,012,152 | 1,075,562 | 6% |
| Year of arrival Imputation Indicator | 17,972 | 1,057,590 | 1,075,562 | 2% |
| Qualifications Level 1 Imputation Indicator | 65,623 | 1,009,939 | 1,075,562 | 6% |
| Qualifications Level 2 Imputation Indicator | 65,597 | 1,009,965 | 1,075,562 | 6% |
| Qualifications Level 3 Imputation Indicator | 65,630 | 1,009,932 | 1,075,562 | 6% |
| Qualifications Level 4 Imputation Indicator | 65,609 | 1,009,953 | 1,075,562 | 6% |
| Qualifications Level 5 Imputation Indicator | 65,589 | 1,009,973 | 1,075,562 | 6% |
| Qualifications Level 6 Imputation Indicator | 65,606 | 1,009,956 | 1,075,562 | 6% |
| Qualifications Level 7 Imputation Indicator | 65,597 | 1,009,965 | 1,075,562 | 6% |
| Qualifications Level 8 Imputation Indicator | 65,604 | 1,009,958 | 1,075,562 | 6% |
| Qualifications Level 9 Imputation Indicator | 65,592 | 1,009,970 | 1,075,562 | 6% |
| Qualifications Level 10 Imputation Indicator | 65,604 | 1,009,958 | 1,075,562 | 6% |
| Qualifications Level 11 Imputation Indicator | 65,602 | 1,009,960 | 1,075,562 | 6% |
| Qualifications Level 12 Imputation Indicator | 80,206 | 995,356 | 1,075,562 | 7% |
| Qualifications Level 13 Imputation Indicator | 67,649 | 1,007,913 | 1,075,562 | 6% |

| Household Table | Imputed/Edited/Missing | Not Imputed/Not Edited/Not Missing | Records | Imputed/Edited/Missing rate |
| --- | --- | --- | --- | --- |
| Accommodation Type Imputation Indicator | 7,999 | 341,652 | 349,651 | 2% |
| H11 - Central Heating Summary Imputation Indicator | 6,034 | 343,617 | 349,651 | 2% |
| Landlord Imputation Indicator | 7,859 | 341,792 | 349,651 | 2% |
| Number of Cars or Vans Imputation Indicator | 8,056 | 341,595 | 349,651 | 2% |
| Number of Rooms Imputation Indicator | 7,677 | 341,974 | 349,651 | 2% |
| Self Contained Imputation Indicator | 7,752 | 341,899 | 349,651 | 2% |
| Tenure Imputation Indicator | 8,323 | 341,328 | 349,651 | 2% |

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1. & 2 & 3 Filter questions [↑](#footnote-ref-1)
2. [↑](#footnote-ref-2)
3. [↑](#footnote-ref-3)