



# Continuous Scottish House Condition Survey

Technical Report  
2004/05



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## **1 Introduction**

### **1.1 Purpose of Technical Report**

The purpose of the Continuous Scottish House Condition Survey Technical Report is to provide an explanatory account of the survey process from sample design to data delivery. This report covers the survey year from October 2004 to September 2005. It includes information on the sample design, questionnaire development, fieldwork, response, quality assurance and data delivery.

### **1.2 Background and History**

The Continuous Scottish House Condition Survey (CSHCS) was launched in October 2003. The CSHCS is used to monitor the condition of homes in Scotland; it is also used to monitor the effectiveness of policies intended to improve Scotland's housing stock at both a national and local level. The CSHCS consists of two parts: a social survey interview with the householder and a physical survey to assess the condition of the dwelling. The CSHCS is carried out by the Office for National Statistics (ONS) and Miller Mitchell Burley Lane (MMBL) on behalf of Communities Scotland. Previously, the Scottish House Condition Survey (SHCS) had been undertaken as a cross-sectional survey (in 1991, 1996 and 2002). The aim of introducing a continuous survey approach was to provide an ongoing picture of Scotland's housing and to introduce more flexibility in the topic areas that could be covered.

### **1.3 Communities Scotland**

Communities Scotland is an agency of the Scottish Executive and is responsible for housing and regeneration in Scotland. Communities Scotland (formerly Scottish Homes) have sponsored the survey since its inception in 1991. It is responsible for producing the Scottish House Condition Survey Report which provides profiles of housing and households, and information on housing standards, amenities, repairs, access, fuel poverty and energy efficiency.

### **1.4 Office for National Statistics and Miller Mitchell Burley Lane**

ONS is the government department that provides UK statistical and registration services. ONS is responsible for producing a wide range of key economic and social statistics which are used by policy makers across government. It carries out major social surveys including the Census of Population, Labour Force Survey and General Household Survey. ONS carries out the CSHCS social survey and has overall management responsibility for the CSHCS. The project is conducted by ONS in partnership with MMBL. MMBL Ltd is a UK-wide practice of chartered surveyors. All CSHCS related work was carried out from their Central Administration Unit (CAU) at their Edinburgh office.

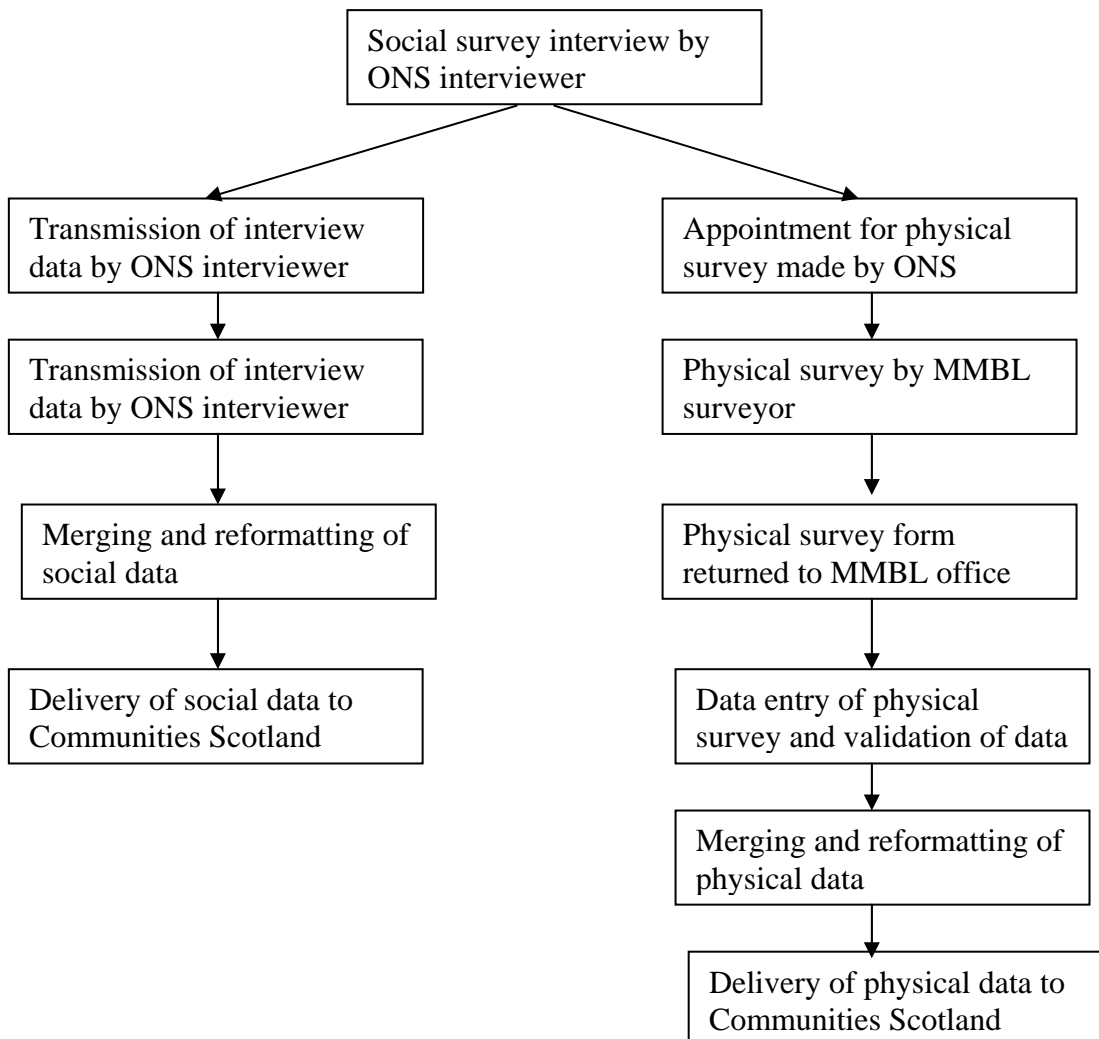
### **1.5 General Summary of the Survey Process**

The Field work for Year Two of the CSHCS began in October 2004 after the completion of the Year One CSHCS in September 2004.

The aim was to achieve a social survey interview with the householder matched with a physical survey of the property the household lives in. This constitutes a paired case. Typically, this involved an ONS interviewer conducting a computer assisted personal interview (CAPI) and making an appointment for a surveyor to call to conduct a physical survey at a later date. Details of the appointment were transmitted to a secure website at MMBL. An MMBL surveyor then conducted a visual inspection of the property (internal and external) on a paper form which he/she coded and sent back to the MMBL office for data entry.

The social survey information recorded at the interview was transmitted to ONS where it was entered into an edit version of the program to identify inconsistencies, errors and outliers. The social survey data were then edited, formatted and delivered to Communities Scotland. The physical survey forms were received by validators working in the Central Administration Unit office. They then keyed the information into a bespoke data input program. Data were then run through a validation program to check for inconsistencies. Physical survey data were then delivered to Communities Scotland. See Figure 1 for a diagrammatical representation of the process.

**Figure 1: Summary of CSHCS Processes**



## **2 Sampling**

### **2.1 Sampling Frame**

The sampling process was designed by the ONS Methodology Group and carried out by the Sampling Implementation Unit (SIU) at ONS. The sample was selected from the small users Postcode Address File (PAF). This is compiled by Royal Mail as a list of all delivery points that receive fewer than fifty items of post each day. The file is updated twice yearly.

### **2.2 Sample Design**

The sample for 2004-05 was drawn as a stratified one-stage unequal probability sample of addresses. This was carried out in order to meet targets on a Unitary Authority (UA) level in the most efficient way. Addresses for each UA were sampled from the PAF systematically using a fixed sampling interval from a random start point, both of which were proportional to the size of the UA. Addresses were sorted by postcode, which provided implicit stratification by area. Within each UA, every eligible address had an equal chance of selection, but due to differences in UA size, there were differing probabilities of selection between UAs. CSHCS oversamples many of the smaller local authorities in order to deliver a minimum number of responding paired cases (240 over three years). Addresses that had been selected by Local Authorities for any local house condition survey and addresses sampled for the Scottish Household Survey were removed from the sample file in order to reduce respondent burden.

In Year 2 quotas were not based on discrete UAs but on groupings convenient for the interviewer to improve interviewer's efficiency. As a result there was greater quarterly variation in the sample size for UAs (*see Table 1*).

The sample design for the Continuous SHCS differs from that of the SHCS previously undertaken in 1991 and 1996. On the SHCS in 2002, there were two parts to the design. Firstly, a longitudinal sample of addresses previously issued in 1996 was re-issued. Secondly, a sample of addresses was drawn systematically from each UA using a random start.

**Table 1: Quarterly Sample size by UA**

| UA                  | Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Total |
|---------------------|-----------|-----------|-----------|-----------|-------|
| Aberdeen City       | 60        | 40        | 39        | 37        | 176   |
| Aberdeenshire       | 34        | 39        | 39        | 48        | 160   |
| Angus               | 36        | 57        | 40        | 27        | 160   |
| Argyle & Bute       | 63        | 32        | 36        | 29        | 160   |
| Scottish Borders    | 41        | 40        | 54        | 25        | 160   |
| Clackmannanshire    | 39        | 41        | 40        | 40        | 160   |
| West Dunbartonshire | 41        | 21        | 37        | 61        | 160   |
| Dumfries & Galloway | 38        | 45        | 40        | 37        | 160   |
| Dundee City         | 40        | 25        | 49        | 46        | 160   |
| East Ayrshire       | 34        | 37        | 72        | 9         | 152   |
| East Dunbartonshire | 41        | 59        | 40        | 20        | 160   |
| East Lothian        | 44        | 40        | 35        | 49        | 168   |
| East Renfrewshire   | 41        | 52        | 27        | 80        | 200   |
| Edinburgh, City of  | 114       | 120       | 103       | 119       | 456   |
| Falkirk             | 40        | 57        | 33        | 22        | 152   |
| Fife                | 61        | 74        | 61        | 60        | 256   |
| Glasgow City        | 165       | 164       | 185       | 158       | 672   |
| Highland            | 25        | 55        | 51        | 29        | 160   |
| Inverclyde          | 65        | 41        | 40        | 62        | 208   |
| Mid Lothian         | 46        | 42        | 32        | 32        | 152   |
| Moray               | 41        | 42        | 22        | 31        | 136   |
| North Ayrshire      | 27        | 47        | 22        | 64        | 160   |
| North Lanarkshire   | 64        | 56        | 114       | 54        | 288   |
| Orkney Islands      | 45        | 39        | 25        | 43        | 152   |
| Perth & Kinross     | 41        | 44        | 39        | 36        | 160   |
| Renfrewshire        | 41        | 59        | 68        | 40        | 208   |
| Shetland Islands    | 41        | 29        | 32        | 42        | 144   |
| South Ayrshire      | 41        | 40        | 11        | 68        | 160   |
| South Lanarkshire   | 49        | 44        | 27        | 40        | 160   |
| Stirling            | 42        | 38        | 43        | 61        | 184   |
| West Lothian        | 40        | 25        | 47        | 48        | 160   |
| Western Isles       | 30        | 42        | 34        | 22        | 128   |
| Total               | 1570      | 1586      | 1537      | 1539      | 6232  |

### 2.3 Multi-dwelling Procedures

The Continuous Scottish House Condition Survey differs from most other social surveys in that the primary unit of analysis is the *dwelling*. A dwelling is defined as:

... a unit of accommodation (usually a house or flat) where all the rooms and amenities (i.e. kitchen, bath/shower room and WC) are for the exclusive use of the household(s) occupying them. Amenities may be located outside the front door, but provided they are for the exclusive use of the occupants, the accommodation is still a dwelling.

Interviewers were provided with a Dwelling/Household Selection form (see Appendix 10.4) for each address in their work assignment. These forms were used to record information about each address, such as the type of property, the number of dwellings and eligibility for interview.

On occasion, when an interviewer arrives at a sampled address, they may find that the address is made up of more than one dwelling. The Dwelling/Household Selection Form enables the interviewer to select the dwelling at which they will be interviewing. This is done by means of a Kish grid, which allows for random selection of the dwelling, depending on the serial number of the address and the number of dwellings within that address.

This form is also used to select the primary household to interview, when a dwelling contains more than one household. A primary household is one that has the main responsibility for the dwelling. It is usually the case that the mortgage or lease is in their name, they have responsibility for paying rent to the landlord, and have responsibility for repairs and maintenance.

At a further point in the form there is another Kish grid, to be used for any instances when there is more than one primary household in the dwelling. Again, this enables the interviewer to randomly choose which primary household to include, depending on the serial number of the sampled address and the number of primary households found there.

## **2.4 Ineligible Addresses**

The following types of addresses were classed as ineligible:

- Non-residential addresses and institutions. An institution is defined as 'an address at which four or more unrelated people slept; while they may not have eaten communally, the establishment must have been run by a person (or persons) employed for this purpose, or by the owner'. Private households with separate accommodation *within* an institution were included in the survey.
- Residential accommodation not used by a household as their main address (eg, a holiday home or second home).
- Addresses in the PAF that did not exist because they had been demolished or had yet to be built.
- Dwellings in which no member of the household had lived three months or more.

## **2.5 Additional Social Surveys**

On occasions, surveyor would make contact with householders where the original social interviewer had failed. As long as householder had lived in the dwelling for three months and was willing to take part in a full survey, surveyors would obtain appropriate contact information for the respondent and pass this back to ONS. An interviewer would then return and undertake the social survey, thereby completing a paired case.

### **3 Social Survey Questionnaire Development**

The questionnaire used on the 2004/5 survey was based on the 2003/4 survey. This allows comparison between survey years as much as possible. Additionally, some harmonised questions<sup>1</sup> were added. This was to enable comparative analysis of the CSHCS with other surveys and also so that ONS interviewers were familiar with the structure and wording of questions.

Prior to beginning development of the questionnaire, Communities Scotland consulted users of the SHCS and produced a list of possible changes to the questionnaire. The amendments were then finalised by Communities Scotland and forwarded to ONS for inclusion in the CSHCS.

#### **3.1 Computer Assisted Personal Interviewing - Blaise**

The CSHCS social survey uses Computer Assisted Personal Interviewing (CAPI) and was programmed using the Blaise system developed by Statistics Netherlands<sup>2</sup>. ONS has used Blaise since it was created in the mid-1980s and has a close collaborative relationship with Statistics Netherlands regarding the development of Blaise.

Blaise has long been the standard CAPI software in Europe for complex social surveys and is now widely used across North America, too. For example, it is used by the US Census Bureau and Statistics Canada.

The pilot version and mainstage version of the CSHCS up to January 2004 was written in Blaise 4.2. From January onwards, the program was updated to Blaise 4.6. This was in line with other surveys produced by ONS.

#### **3.2 Content of the Questionnaire**

The social survey questionnaire consisted of the following modules:

- Household composition
- Nationality and ethnicity
- Type of accommodation
- Tenure of property
- Landlord details
- Ownership details
- Neighbourhood
- Noise
- Smoking
- Pet ownership
- Local services/ facilities

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<sup>1</sup> A common set of questions used to provide comparable analysis between data sources. More information can be found at [www.statistics.gov.uk/about/data/harmonisation/default.asp](http://www.statistics.gov.uk/about/data/harmonisation/default.asp).

<sup>2</sup> [www.cbs.nl/en/](http://www.cbs.nl/en/)

- Previous address
- Preferred accommodation
- Householders wishing to move out
- Repairs
- Satisfaction with property
- Heating and fuel bills
- Damp
- Disability, health and access
- Employment and education
- Purchase of house/ mortgage
- Renting
- Income
- Housing Benefit
- Council Tax
- Benefits and
- Other income and total household income

### **3.3 Versions of the Questionnaire**

During the survey year changes were made to the questionnaire. These were often of a minor nature, although some changes could have a significant impact on outputs. These changes fall under the following broad headings:

- to deal with changed customer requirements
- to deal with unforeseen circumstances
- to correct errors in programming
- to bring questions in line with government policy
- to extend harmonisation among government surveys

To maximise comparability with other government surveys, ONS encourages the use of harmonised blocks of code (e.g. household composition, government benefits). Because this code is written, tested and maintained centrally, individual surveys benefit. The code is usually distributed and implemented before that start of the financial year (April), when most continuous surveys commence their annual cycle. Because the SHCS operates on a different cycle (October to September), the implementation of harmonised blocks in Year 2 of the SHCS fell into quarter 3 (April-June 05). A list of amendments can be found in Appendix 10.7.

### **3.4 Effect of changes on outputs**

The introduction of harmonised blocks in Quarter 3 (April-June 2005), had two major effects. The first increased the maximum size of the household from 10 to 16; the second added some benefits, deleted others, and rearranged the grouping of some benefits.

Although these changes had only a minor effect on the questionnaire, itself, difficulties arose when data was exported to SPSS. This was due to several factors. Firstly, Blaise is hierarchical in structure, meaning that variables within an array (e.g. an array of people) can have the same name. In contrast, SPSS has a flat file structure, meaning that each variable must have a unique name. For example, the

marital status of each person is given by the single Blaise variable, MarStat (with an array of persons[1..10]), while SPSS needs a set of unique variable names (e.g. MarStat, MarStat2..MarStat10) to accommodate each person.

The translation from hierarchical Blaise to flat SPSS had a second effect, best illustrated by the Benefit questions. Each benefit has a set of questions associated with it (amount, period, whether paid in combination). In Blaise, each of these has the same variable name for all benefits, while in SPSS, they must take on unique names. So, “Benefit Amount” (“BAmt” in Blaise -- for all benefits), becomes BAmt, BAmt2..BAmt35 in SPSS. In SPSS, the explicit association of BAmt with a particular, named benefit is lost. To make matters worse, the numbering of BAmt in SPSS is dependent on the order in which benefits are asked in Blaise. When the benefits section was reorganised in Q3, that order was changed, and the link between BAmt names pre-Q3 and post-Q3 was lost.

Because of the complexity of the maintaining the relationship between Blaise benefits and SPSS benefits, ONS undertook to produce an entirely separate set of Derived Variables (DVs) which would be constant throughout the survey year. These DVs are documented in Appendix 10.9.

## 4 Social Fieldwork

### 4.1 Interviewer Training

Before starting work on the CSHCS, all interviewers were given a one-day briefing by ONS Research and Field staff. Topics covered during the training included the following:

- A presentation by a representative from Communities Scotland on the background to the project and uses of the survey data.
- Explanation of concepts used on CSHCS such as the Dwelling and Household Selection Forms, the Key Householder and different types of tenure.
- Practice scenarios to explore the questionnaire and focus on difficult/complex areas.
- The procedures for booking appointments for surveyors to conduct a physical survey and how to encourage respondents to agree to the physical survey.

### 4.2 Fieldwork Dates

Year Two of the CSHCS began in October 2004. Fieldwork was scheduled to be carried out in the first two months of each quarter (e.g. October and November in 2004), while reissues were carried out in the third month of each quarter (e.g. December 2004). Reissues are generally cases where there was a non-contact or circumstantial refusal which, in the opinion of interviewers, might be successful at a later attempt. Fieldwork quarters are shown below.

**Table 2: Fieldwork quarters**

| Quarter | Main                  | Reissues       |
|---------|-----------------------|----------------|
| 1       | October-November 2004 | December 2004  |
| 2       | January-February 2005 | March 2005     |
| 3       | April-May 2005        | June 2005      |
| 4       | July-August 2005      | September 2005 |

### 4.3 Contact Procedures

#### 4.3.1 Advance Letters

All addresses were sent an advance letter outlining the purpose of the survey and the importance of participation. Confidentiality issues were also explained. Interviewers were given the advance letters to post themselves, once they had planned how they would phase their work within the area. Allowing interviewers to post their own advance letters ensured that the time between delivery and the first interview call was not too great, so that householders were less likely to forget the letter. A copy of the advance letter can be found in Appendix 10.2

#### 4.3.2 Purpose Leaflets

Interviewers were also given a supply of purpose leaflets to leave with respondents. A purpose leaflet was left at all co-operating households. The leaflet provides more information about survey selection methods, what the data is used for, confidentiality and contact information. The leaflet also makes reference to the CSHCS website. A copy of the purpose leaflet can be found in Appendix 10.3.

#### 4.3.3 *Translations*

The advance letter was translated into the most common ethnic minority languages (Punjabi, Urdu, Cantonese, Kurdish, French and Farsi), and interviewers carried spare copies of these.

#### 4.3.4 *CSHCS Website*

The CSHCS website, which is part of Communities Scotland website, provided information to potential participants in a question and answer format. The advance letter translations described above were also made available on the website. The website can be found at [www.shcs.gov.uk](http://www.shcs.gov.uk).

## 5 Physical Survey

### 5.1 *Physical Survey Form*

The physical survey form used for the CSHCS Year 2 was based on the Year 1 form. The section regarding “Information on the surrounding area” was removed from the paper form for Year 2. Each physical survey was undertaken by a qualified surveyor, and the paper form completed by hand. Each address issued to MMBL for a physical survey had a unique identification number, and the surveyor attached this to the front of the physical survey form. Surveyors also recorded their name and identification number on the top of the form along with contact dates and times. Topics covered on the physical survey form included:

- Type of survey (i.e. full physical or dwelling description).
- Description of the dwelling.
- Characteristics of common block.
- Number of rooms.
- Room Repairs.
- Types of defects.
- Repairs to whole dwelling.
- Rooms/Floors Summary.
- Amenities.
- Services and fittings.
- Heating and insulation.
- Measurements of the property.
- Characteristics of common elements.
- Repairs to common elements.
- External construction materials.
- External repairs.
- Indicators of tolerable standard and whether property was Below Tolerable Standard (BTS).

### 5.2 *Surveyor Recruitment and Training*

#### 5.2.1 *The Role of Regional Managers*

MMBL recruited six Regional Managers to take part in CSHCS, all of whom had worked on previous SHCS studies as either surveyor supervisors (known as 'monitors') or surveyors. The role of a Regional Manager was to ensure that the surveyors delivered high quality data. Each Regional Manager had a group of surveyors to manage and supervise. Their tasks included attending surveyor briefings, providing support and guidance to their group of surveyors and monitoring their progress. Regional Managers were responsible for quality control and accompanied each of their surveyors for at least two days: once early on in fieldwork and again later in fieldwork. They also checked the first ten survey forms from each surveyor and, between them, conducted a quality check of around five per cent of cases issued for a full physical survey. Additionally, Regional Managers acted as surveyors, when required.

### 5.2.2 *Surveyors*

The surveyors working on the CSHCS had all worked on the SHCS in 2002. They were required to be fully professionally qualified (as chartered surveyors, architects, civil or structural engineers, environmental health officers or building control officers) and have at least five years post-qualification experience. Forty-nine surveyors (including the six Regional Managers) began fieldwork.

### 5.2.3 *Surveyor Training*

Surveyors attended a two-day residential briefing course prior to fieldwork commencing. The training was mainly presented by representatives from Communities Scotland, with MMBL and ONS providing support. The majority of the briefing centred on visiting dwellings to practise conducting physical surveys in the field. MMBL was responsible for identifying a selection of dwellings to be used as test houses, and Communities Scotland then selected those dwellings appropriate to be used to highlight key points to the surveyors. Topics covered during the training included:

- A summary of changes to the form from the year one of CSHCS.
- Details on the heating and insulation section of the physical survey form.
- Administration procedures.
- Survey of test houses.

Each surveyor completed a survey of four test houses, the results of which were processed and scored. The surveyors' results were then compared with model answers, and results were fed back to Regional Managers and surveyors.

## 5.3 **Fieldwork Dates**

The fieldwork for the physical survey was carried out continuously between October 2004 and the end of September 2005.

## 5.4 **Types of Physical Survey**

In Year One of CSHCS there were three types of physical survey: full physical, external and a dwelling description. In Year Two this was reduced to two types of physical survey: full physical and dwelling description.

There were occasional cases of external physical surveys in Year 2. These occurred when surveyors started work on the external part of a full survey with the intention of completing a full physical survey when the respondent arrived home. In some cases, the respondent never turned up. These cases were coded as a dwelling description in the data entry programme.

*A full physical survey* is a visual inspection of both the internal and external of a property. The surveyor completes all parts of the physical survey form for a full physical survey. Only a completed social survey interview with a full physical survey constitutes a paired case.

*A dwelling description* is a short physical survey and requires a description of the property only. Addresses were issued for non-contacts, vacants and second homes.

For a full physical survey, surveyors made a photographic record of the dwelling and took shots of the front and back of the property as well as the surrounding area (usually taken looking left and right down the road).

### **5.5 Appointments System**

Linking the social survey interview with an appointment for the physical survey was introduced in Year One of the CSHCS. At the end of the social survey interview, interviewers sought permission to make an appointment and arrange a convenient time for a surveyor to call at the property to carry out the physical survey. When a physical survey appointment was made, the appointment was automatically transmitted back to ONS when the interviewer next transmitted social data back to ONS. Information sent included the date and time of the appointment for the physical survey and useful notes the interviewer might wish to pass on to the surveyor (e.g. how to reach the front door or location of a tenement within a building). These data were extracted on arrival at ONS and saved in an appointments database. The information was immediately transferred to a secure website at MMBL, thus enabling surveyors to have timely notification of appointments.

As a contingency against any problems with the website, a list of new appointments could be produced by ONS on a spreadsheet and emailed to MMBL daily. Interviewers were encouraged to block-book appointments, leaving enough time between each for travelling. If an appointment was booked at short notice, interviewers were reminded (via a soft check in the interview program) that in addition to transmitting the booking information, they should telephone the MMBL Helpline to provide details.

The process whereby interviewers created appointments for surveyors had several advantages:

- Response to the physical survey would be improved by making an appointment at a time convenient to the householder. The rapport between interviewer and respondent during the social interview could be used to encourage agreement to a physical survey.
- Booking blocks of appointments in advance would mean more efficient use of surveyor time.
- Limiting the amount of time between the social and physical surveys would minimise any changes to the household within the property, for example, changes in the people living there or households that may have moved.

There was a continual review of the appointments system during Year One of the CSHCS, and feedback from MMBL office staff, MMBL Regional Managers and ONS interviewers was been extremely positive. The system continued to work well during Year 2.

### **5.6 MMBL Helpline**

Staff in MMBL's Edinburgh office managed the day-to-day fieldwork process of the physical survey. There was a dedicated telephone Helpline and an email address for respondents, social survey interviewers and surveyors to contact. Helpdesk staff managed communication between respondents and surveyors. One of their core responsibilities was to allocate appointments to surveyors. All appointments on the CSHCS were transmitted directly to the 'Edinburgh Diary' for

re-booking into the appropriate surveyor's diary. Another responsibility of the Helpdesk was to book or re-arrange appointments. Circumstances where this was required included:

- 'Soft' appointments, where the interviewer had been unable to make a firm appointment date and time.
- Appointments which had been cancelled by the respondent and rearranged.
- Missed appointments, where the respondent was away when the surveyor called.
- Appointments cancelled by surveyors due to adverse weather conditions.

The diaries of the surveyors were updated continuously, as soon as appointments were made by the Helpdesk. The Helpdesk confirmed all new appointments via email and also advised surveyors by telephone.

### **5.7 MMBL Website**

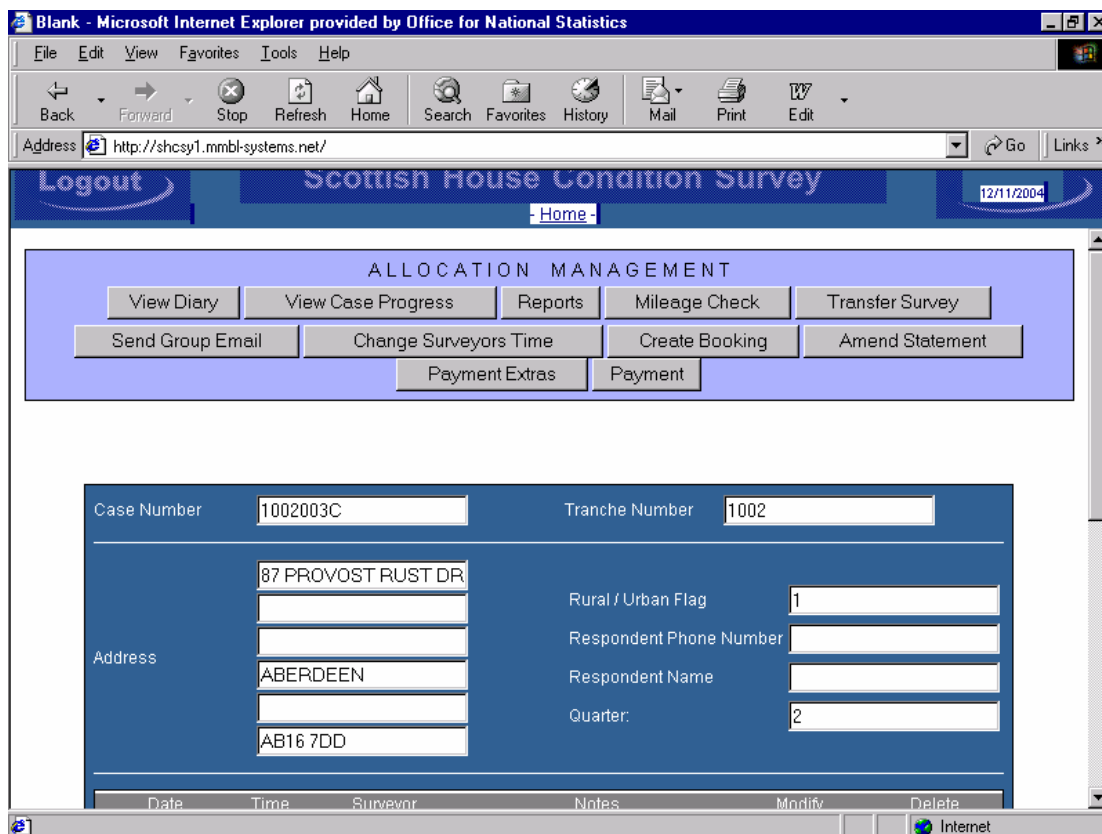
Physical survey appointments and the progress of physical surveys were monitored using a secure website managed by MMBL. The website was used by surveyors, Regional Managers, MMBL Helpline staff and ONS. All website users had their own password and were given access to different parts of the site, depending on their requirements.

Surveyors used the website to check the appointments that had been made for them. These were created by Helpdesk staff following appointments booked by interviewers. Surveyors logged their availability onto the website diary on a continuous basis. There was a notes section at the bottom of each day where they could record information to assist with the allocation of appointments, e.g. "last appointment must be at 4pm". The website was also used to record mileage covered by and to calculate payments due to surveyors.

The progress of individual cases could be viewed on the website by entering a unique case identification number. An overview of the case could then be seen, including: date of appointment, surveyor allocated, type of survey, date of completion of survey and date of receipt of form (see Figure 2).

Both surveyors and Helpdesk staff updated these on an ongoing basis. Progress by surveyor and by region could also be monitored using the website. In order to produce weekly progress reports for the survey team, progress information was downloaded by ONS from the MMBL website to tie in with the social survey progress information.

**Figure 2: Overview of a case**



## 5.8 Surveyor Variability

### 5.8.1 Allocation Rules

Rules regarding the allocation of surveyors were detailed in the contract between Communities Scotland and ONS/MMBL. The objective of the allocation was to control the distribution of addresses to surveyors, to minimise variability between different surveyors and to minimise bias within certain geographical areas. The allocation rules were as follows:

- Each surveyor must work in at least two UAs in each year of fieldwork and at least three UAs over the three-year fieldwork period. (The Highlands and the three Island UAs were exempted from the latter requirement following discussions with Communities Scotland, because of the large distances involved.)
- No surveyor should do more than 25% of the surveys issued in a UA per year; (the Highlands and the three island UAs – level set at approx 33%)
- Each surveyor’s allocation should contain a mixture of dwelling types approximate to the profile of the area they are working in, over each year of fieldwork.
- Each surveyor’s allocation should contain a balance of urban/rural properties approximate to the profile of the area they are working in, over each year of the fieldwork.
- Each surveyor should conduct no more than a maximum number of surveys over each year of fieldwork. This maximum was set at:  
 $1.5 \times (\text{total number of surveys issued in the year}) / (\text{number of surveyors}).$

For 2004/5 it was agreed that Allocation Rules would be measured against Full Paired Surveys.

### 5.8.2 *Back Checks*

In order to guard against any undue effects from a single surveyor, back checks on approximately five per cent of responding households were conducted to ensure consistency among surveyors. Seven per cent of all issued sample addresses for 2004-5 were randomly selected. This allowed for a loss of up to two per cent of addresses due to refusals, ineligibility or non-contact. The result was a back-checking of five per cent of all addresses issued to MMBL. Additionally, all addresses that were found to be Below Tolerable Standard (BTS) were routinely back-checked.

## 6 Response

### 6.1 Response Targets

The following response targets were agreed between Communities Scotland, ONS and MMBL:

- Response to the social survey
  - 70% response to social survey interview annually.
  - 60% response to social survey interview in any UA annually.
- Number of paired surveys (cases with both a social survey interview and a full physical survey)
  - 3,000 paired surveys annually.
  - at least 240 paired surveys over three years in any UA (equating to 80 per year).
- Conversion rate (percentage of cases with a social survey interview where a full physical survey has been completed)
  - 83% of cases where a social survey interview has taken place have a full physical survey completed.
  - 75% conversion in any UA annually.
- Vacants
  - 90% of vacant properties have an external survey completed.

### 6.2 Progress Targets

In order to monitor progress, a series of progress targets was also agreed:

- 95% of social survey interview cases required to provide 3,000 paired surveys at 83% conversion, completed by end of second month of the quarter.
- 95% of paired cases required quarterly to meet annual target of 3,000 paired surveys completed by the end of each quarter. A shortfall in the 750 required each quarter would be carried over into the next quarter and a revised target for that quarter calculated as 95% of the new total.
- 90% of the physical survey forms to be validated within three days of receipt. The remaining 10% were to be validated within seven days of receipt.

### 6.3 Response to Social Survey

The social survey response rate was calculated using the total number of social survey interviews achieved as the numerator and the total number of known eligible cases as the denominator. Table 3 shows that the social survey target of 70% was met. Where a social interview was obtained, 95% of households agreed to a full physical survey (*see Table 4*).

**Table 3: Response to social survey**

| <b>Outcomes</b>    | <b>Outcome codes</b> | <b><i>n</i></b> | <b>% of all cases</b> | <b>% of eligibles</b> |
|--------------------|----------------------|-----------------|-----------------------|-----------------------|
| Interview          | 110-210              | 3783            | 61                    | 70.2                  |
| Non-Contact        | 310-330              | 326             | 5                     | 6.1                   |
| Refusal            | 410-450              | 1093            | 18                    | 20.3                  |
| Other non-response | 512-561              | 184             | 3                     | 3.4                   |
| Total eligible     |                      | 5386            | 86                    | 100.0                 |
| Unknow eligibility | 612-651              | 29              | 0.5                   |                       |
| Ineligible         | 710-793              | 817             | 13.1                  |                       |
| Total              |                      | 6232            | 100.0                 |                       |

**Table 4: Interview and agreement to physical survey**

| <b>Social survey interview:</b>              | <b><i>n</i></b> | <b>%</b> |
|--|-----------------|----------|
| Interview plus agreement for physical survey | 3598            | 95.1     |
| Interview only                               | 185             | 4.9      |
| Total  | 3783            | 100      |

Table 5 goes on to show how response varied from authority to authority, the highest response being achieved in the Western Isles (94%) and the lowest in Dundee (58%).

**Table 5: Response to the social survey by unitary authority**

| UA                  | Set sample | Outcome Codes  |                            |         |             |                    |            |                     | % Response <sup>3</sup> |
|---------------------|------------|----------------|----------------------------|---------|-------------|--------------------|------------|---------------------|-------------------------|
|                     |            | 110-210        | 110                        | 410-450 | 310-330     | 512-561            | 710-793    | 612-651             |                         |
|                     |            | Full interview | Full interview & app'tment | Refusal | Non-contact | Other non-response | Ineligible | Unknown Eligibility |                         |
| Aberdeen City       | 176        | 95             | 92                         | 32      | 13          | 8                  | 28         | 0                   | 64                      |
| Aberdeenshire       | 160        | 101            | 97                         | 21      | 8           | 4                  | 24         | 2                   | 75                      |
| Angus               | 160        | 105            | 98                         | 28      | 11          | 2                  | 14         | 0                   | 72                      |
| Argyll & Bute       | 160        | 99             | 86                         | 19      | 2           | 4                  | 33         | 3                   | 80                      |
| Clackmannanshire    | 160        | 92             | 88                         | 31      | 8           | 5                  | 24         | 0                   | 68                      |
| Dumfries & Galloway | 160        | 114            | 110                        | 19      | 6           | 3                  | 18         | 0                   | 80                      |
| Dundee              | 160        | 84             | 76                         | 47      | 6           | 7                  | 14         | 2                   | 58                      |
| East Ayrshire       | 152        | 103            | 100                        | 33      | 4           | 7                  | 12         | 1                   | 70                      |
| East Dunbartonshire | 160        | 94             | 89                         | 23      | 13          | 2                  | 28         | 0                   | 71                      |
| East Lothian        | 168        | 97             | 93                         | 20      | 17          | 1                  | 17         | 0                   | 72                      |
| East Renfrewshire   | 200        | 92             | 85                         | 37      | 16          | 3                  | 11         | 1                   | 62                      |
| Edinburgh City      | 456        | 99             | 91                         | 44      | 2           | 1                  | 21         | 1                   | 68                      |
| Falkirk             | 152        | 120            | 115                        | 51      | 14          | 6                  | 7          | 2                   | 63                      |
| Fife                | 256        | 245            | 231                        | 92      | 25          | 19                 | 74         | 1                   | 64                      |
| Glasgow City        | 672        | 93             | 90                         | 31      | 14          | 3                  | 10         | 1                   | 66                      |
| Highland            | 160        | 159            | 156                        | 34      | 23          | 1                  | 39         | 0                   | 73                      |
| Inverclyde          | 208        | 335            | 297                        | 151     | 36          | 38                 | 106        | 6                   | 60                      |
| Midlothian          | 152        | 103            | 102                        | 18      | 6           | 4                  | 29         | 0                   | 79                      |
| Moray               | 136        | 127            | 124                        | 33      | 4           | 5                  | 38         | 1                   | 75                      |
| North Ayrshire      | 160        | 104            | 103                        | 26      | 4           | 3                  | 15         | 0                   | 76                      |
| North Lanarkshire   | 288        | 98             | 97                         | 8       | 4           | 4                  | 22         | 0                   | 86                      |
| Orkney Islands      | 152        | 106            | 99                         | 21      | 4           | 5                  | 23         | 1                   | 78                      |
| Perth & Kinross     | 160        | 185            | 176                        | 57      | 16          | 8                  | 22         | 0                   | 70                      |

<sup>3</sup> Response is defined here as social response (with or without agreement to a physical survey) as a proportion of eligibles.

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| UA                  | Set sample     | Outcome Codes              |             |             |                    |            |                     |           | % Response <sup>3</sup> |
|---------------------|----------------|----------------------------|-------------|-------------|--------------------|------------|---------------------|-----------|-------------------------|
|                     |                | 110-210                    | 110         | 410-450     | 310-330            | 512-561    | 710-793             | 612-651   |                         |
|                     | Full interview | Full interview & app'tment | Refusal     | Non-contact | Other non-response | Ineligible | Unknown Eligibility |           |                         |
| Renfrewshire        | 208            | 106                        | 101         | 14          | 3                  | 4          | 25                  | 0         | 83                      |
| Scottish Borders    | 160            | 103                        | 101         | 30          | 7                  | 3          | 17                  | 0         | 72                      |
| Shetland Islands    | 144            | 112                        | 108         | 38          | 9                  | 14         | 32                  | 3         | 65                      |
| South Ayrshire      | 160            | 90                         | 88          | 16          | 10                 | 3          | 25                  | 0         | 76                      |
| South Lanarkshire   | 160            | 106                        | 103         | 19          | 16                 | 4          | 15                  | 0         | 73                      |
| Stirling            | 184            | 95                         | 90          | 29          | 10                 | 7          | 17                  | 2         | 67                      |
| West Dunbartonshire | 160            | 116                        | 114         | 38          | 10                 | 2          | 16                  | 2         | 70                      |
| West Lothian        | 160            | 110                        | 105         | 30          | 5                  | 1          | 14                  | 0         | 75                      |
| Western Isles       | 128            | 95                         | 93          | 3           | 0                  | 3          | 27                  | 0         | 94                      |
| <b>Total</b>        | <b>6232</b>    | <b>3783</b>                | <b>3598</b> | <b>1093</b> | <b>326</b>         | <b>184</b> | <b>817</b>          | <b>29</b> | <b>70</b>               |

## 6.4 Refusals and non-contacts

Information is collected by interviewers after unsuccessful attempts to obtain an interview, locate or identify a dwelling. This often sheds light on why respondents refuse to take part (the largest proportion of this group of eligibles) and may help in devising strategies to improve response in the future. An analysis of outright refusals, non-contacts, and circumstantial refusals is given below.

Table 6 analyses why all 1093 people refused to cooperate with the social survey; Table 7 analyses why interviewers were not able to make contact with the household; and Table 8 shows why a final group did not take part in the social survey.

**Table 6: Reasons for refusal to social survey**

| <b>Reason for refusal</b>               | <b><i>n</i></b> | <b>%</b>   |
|---|-----------------|------------|
| Can't be bothered                       | 168             | 15         |
| Too old infirm                          | 147             | 13         |
| Genuinely too busy                      | 144             | 13         |
| Other and no reason given               | 136             | 12         |
| Doesn't believe in surveys              | 87              | 8          |
| Invasion of privacy                     | 73              | 7          |
| Personal problems                       | 64              | 6          |
| Broken appointment(s)                   | 63              | 6          |
| Temporarily too busy                    | 61              | 6          |
| Refusal to HQ after interviewer's visit | 36              | 3          |
| Anti-government                         | 29              | 3          |
| Disliked survey matter                  | 18              | 2          |
| Concerns about confidentiality          | 17              | 2          |
| About to go away                        | 15              | 1          |
| Late contact - insufficient field time  | 14              | 1          |
| Bad experience with previous surveys    | 9               | 1          |
| Put off by record keeping               | 8               | 1          |
| Not capable                             | 4               | 0          |
| <b>All refusing households</b>          | <b>1093</b>     | <b>100</b> |

**Table 7: Reasons for non-contact**

| <b>Reason for non-contact</b>                | <b><i>n</i></b> | <b>%</b>   |
|--|-----------------|------------|
| Working shifts odd hours                     | 53              | 16         |
| Rarely at address                            | 49              | 15         |
| Think address is empty but could not confirm | 46              | 14         |
| Communal phone                               | 41              | 13         |
| Away all survey period                       | 36              | 11         |
| Will not answer door                         | 35              | 11         |
| No information gathered                      | 35              | 11         |
| Other  | 25              | 8          |
| Telephone not answered                       | 2               | 1          |
| Spare telephone line                         | 1               | 0          |
| Number unobtainable                          | 1               | 0          |
| Wrong number                                 | 1               | 0          |
| No reply to answerphone message              | 1               | 0          |
| <b>All non-contacts</b>                      | <b>326</b>      | <b>100</b> |

**Table 8: Other reason for non-response**

| <b>Reason for no interview</b>             | <b><i>n</i></b> | <b>%</b>   |
|--|-----------------|------------|
| Away in hospital throughout field period   | 82              | 45         |
| Physically or mentally unable incompetent  | 43              | 23         |
| Ill at home during survey period           | 39              | 21         |
| Other                                      | 15              | 8          |
| Language difficulties                      | 5               | 3          |
| <b>All other non/responding households</b> | <b>184</b>      | <b>100</b> |

## 6.5 Response to Physical Survey

Where a social survey interview was conducted, 82% actually went on to complete a full physical survey. This resulted in 3,093 paired cases for Year Two. Some of those who agreed to a physical survey at the time of interview subsequently did not permit the surveyor to carry out a full survey. Conversely, a small number of householders who originally did not want a full survey eventually agreed to have one. Table 9 shows the permutations of physical outcomes where a social interview was achieved.

Where households refused to take part in the social interview, ONS considered that it would be unethical to carry out a physical survey. Otherwise, dwelling descriptions were obtained. In addition, dwelling descriptions were obtained for vacant dwellings and second homes (ineligible for the social interview). Table 10 shows the overall number of full physical surveys and dwelling descriptions that were obtained. Table 11 provides a further breakdown by Unitary Authority and shows the success that surveyors had in obtaining full physical surveys. The overall rate was 82%.

**Table 9: Physical survey outcomes by completed social survey interview**

| Type of Social Survey Interview | n    | Physical Outcome     | n    | %     |
|---------------------------------|------|----------------------|------|-------|
| Agreement to physical survey    | 3599 | Full survey          | 3087 | 85.8  |
|                                 |      | Dwelling description | 398  | 11.1  |
|                                 |      | Non-survey           | 114  | 3.2   |
|                                 |      | Sub-total            | 3599 | 100.0 |
| Refusal to physical survey      | 184  | Full survey          | 6    | 3.3   |
|                                 |      | Dwelling description | 127  | 69.0  |
|                                 |      | Non-survey           | 51   | 27.7  |
|                                 |      | Sub-total            | 184  | 100.0 |
| All social interviews           | 3783 | Full survey          | 3093 | 81.8  |
|                                 |      | Dwelling description | 525  | 13.9  |
|                                 |      | Non-survey           | 165  | 4.4   |
|                                 |      | Total                | 3783 | 100.0 |

**Table 10: Physical survey type by social survey response**

| Social Outcome                 | Hout    | Full Physical Survey<br>n | Dwelling description<br>n | Non-Survey<br>n | Total<br>n  | %<br>Surveyed |
|--------------------------------|---------|---------------------------|---------------------------|-----------------|-------------|---------------|
| Cooperating (Full and Partial) | 110-210 | 3093                      | 525                       | 165             | 3783        | 95.6          |
| Non-Contacts                   | 310-330 | 2                         | 269                       | 55              | 326         | 83.1          |
| Vacants                        | 730     | 4                         | 270                       | 24              | 298         | 91.9          |
| Second Homes                   | 750     | 0                         | 74                        | 8               | 82          | 90.2          |
| <b>Total</b>                   |         | <b>3099</b>               | <b>1138</b>               | <b>252</b>      | <b>4489</b> | <b>94.4</b>   |

**Table 11: Physical outcomes for Social interviews by unitary authority**

| UA                  | Completed Social survey interviews | Full physical surveys | Dwelling descriptions | Non survey | Conversion rate <sup>4</sup> % |
|---------------------|------------------------------------|-----------------------|-----------------------|------------|--------------------------------|
| Aberdeen City       | 95                                 | 77                    | 13                    | 5          | 81.1                           |
| Aberdeenshire       | 101                                | 88                    | 12                    | 1          | 87.1                           |
| Angus               | 105                                | 90                    | 8                     | 7          | 85.7                           |
| Argyll & Bute       | 99                                 | 73                    | 22                    | 4          | 73.7                           |
| Scottish Borders    | 92                                 | 79                    | 10                    | 3          | 85.9                           |
| Clackmannanshire    | 114                                | 90                    | 23                    | 1          | 78.9                           |
| West Dunbartonshire | 84                                 | 60                    | 20                    | 4          | 71.4                           |
| Dumfries & Galloway | 103                                | 83                    | 16                    | 4          | 80.6                           |
| Dundee              | 94                                 | 75                    | 11                    | 8          | 79.8                           |
| East Ayrshire       | 97                                 | 80                    | 17                    | 0          | 82.5                           |
| East Dunbartonshire | 92                                 | 76                    | 6                     | 10         | 82.6                           |
| East Lothian        | 99                                 | 80                    | 12                    | 7          | 80.8                           |
| East Renfrewshire   | 120                                | 99                    | 19                    | 2          | 82.5                           |
| Edinburgh City      | 245                                | 205                   | 32                    | 8          | 83.7                           |
| Falkirk             | 93                                 | 79                    | 13                    | 1          | 84.9                           |
| Fife                | 159                                | 127                   | 23                    | 9          | 79.9                           |
| Glasgow City        | 335                                | 256                   | 53                    | 26         | 76.4                           |
| Highland            | 103                                | 83                    | 11                    | 9          | 80.6                           |
| Inverclyde          | 127                                | 106                   | 15                    | 6          | 83.5                           |
| Midlothian          | 104                                | 94                    | 9                     | 1          | 90.4                           |
| Moray               | 98                                 | 84                    | 12                    | 2          | 85.7                           |
| North Ayrshire      | 106                                | 80                    | 23                    | 3          | 75.5                           |
| North Lanarkshire   | 185                                | 146                   | 31                    | 8          | 78.9                           |
| Orkney Islands      | 106                                | 82                    | 9                     | 15         | 77.4                           |
| Perth & Kinross     | 103                                | 86                    | 12                    | 5          | 83.5                           |
| Renfrewshire        | 112                                | 100                   | 12                    | 0          | 89.3                           |
| Shetland Islands    | 90                                 | 72                    | 16                    | 2          | 80.0                           |
| South Ayrshire      | 106                                | 94                    | 11                    | 1          | 88.7                           |
| South Lanarkshire   | 95                                 | 82                    | 8                     | 5          | 86.3                           |
| Stirling            | 116                                | 102                   | 12                    | 2          | 87.9                           |
| West Lothian        | 110                                | 90                    | 16                    | 4          | 81.8                           |
| Western Isles       | 95                                 | 75                    | 18                    | 2          | 78.9                           |
| Total               | 3783                               | 3093                  | 525                   | 165        | 81.8                           |

## 6.6 Performance against Targets

The key targets were met during Year Two. The target of 70% response to social survey interview annually was achieved. The target of 60% minimum response to social survey interview in any UA was achieved in all UAs with the exception of Dundee (58%).

In Year Two, 3,093 paired cases were achieved against an annual target of 3,000. There is a target of 240 paired surveys (social interview plus full physical survey) over three years, but no specific target for any one year. This is due to the fact that some UAs have a very small annual sample size, making any annual target

<sup>4</sup> The conversion rate is defined as the number of full physical surveys obtained as a percentage of social survey interviews.

vulnerable to random fluctuations. Nevertheless, the intention of attaining 80 paired surveys in each UA was achieved in 23 UAs but fell short in nine UAs for year two and for ten UAs overall. Year Three targets will be updated to reflect this shortfall. The new Year-three targets for these ten UAs are:

**Table 12: Target for Year 3**

| <b>UA</b>           | <b>Year Three<br/>minimum target</b> |
|---------------------|--------------------------------------|
| Aberdeen City       | 91                                   |
| West Dunbartonshire | 102                                  |
| Falkirk             | 83                                   |
| South Lanarkshire   | 83                                   |
| Dundee City         | 85                                   |
| East Dunbartonshire | 84                                   |
| Scottish Borders    | 81                                   |
| Shetland Islands    | 88                                   |
| Western Isles       | 85                                   |
| Argyle & Bute       | 87                                   |

The overall conversion rate (percentage of cases with a social survey interview where a full physical survey has been completed) achieved was 82%, just below the target of 83%. A conversion rate of 75% minimum in any UA was achieved in all but two UAs: Argyll & Bute (74%) and West Dunbartonshire (71%). The target for dwelling descriptions of vacant properties was 90%, and this was achieved (*see Table 10*).

## **6.7 Compliance with Surveyor Allocation Rules**

### *6.7.1 Rule One*

#### **Target**

Each surveyor must work in at least two UAs in each year of fieldwork and in at least three UAs over the three-year fieldwork period.

#### **Result**

Of the fifty surveyors working on the SHCS in Year 2, 96% worked in four or more UAs. All surveyors worked in two or more Unitary Authorities (*see Table 13*).

**Table 13: Surveyors by no. UAs worked in**

| No. UAs worked in | No. Surveyors | % of all surveyors |
|-------------------|---------------|--------------------|
| 2                 | 2             | 4                  |
| 3                 | 2             | 4                  |
| 4                 | 3             | 6                  |
| 5                 | 7             | 14                 |
| 6                 | 10            | 20                 |
| 7                 | 9             | 18                 |
| 8                 | 8             | 16                 |
| 9                 | 7             | 14                 |
| 10                | 1             | 2                  |
| 12                | 1             | 2                  |
| Total             | 50            | 100                |

6.7.2 Rule Two

**Target**

No surveyor should do more than 25% of the surveys issued in any UA in any one year, with the exception of the Highlands and the three island UAs, where no one surveyor should exceed 33% of all surveys.

**Result**

This rule was violated in 15 UAs. Table 14 below shows which surveyors exceeded the 25% limit, and Table 15 shows which surveyors exceeded the 33% limit.

**Table 14: Surveyors exceeding the 25% limit within a UA**

| UAB | Unitary Authority   | Surveyor No | % of all surveys in UA |
|-----|---------------------|-------------|------------------------|
| 1   | Aberdeen City       | 32          | 34                     |
| 1   | Aberdeen City       | 33          | 27                     |
| 3   | Angus               | 37          | 26                     |
| 4   | Argyle & Bute       | 43          | 32                     |
| 4   | Argyle & Bute       | 44          | 27                     |
| 8   | Dumfries & Galloway | 17          | 27                     |
| 9   | Dundee City         | 36          | 28                     |
| 10  | East Ayrshire       | 15          | 29                     |
| 11  | East Dunbartonshire | 3           | 29                     |
| 12  | East Lothian        | 22          | 28                     |
| 16  | Fife                | 29          | 28                     |
| 16  | Fife                | 39          | 32                     |
| 21  | Moray               | 32          | 29                     |
| 21  | Moray               | 40          | 31                     |
| 22  | North Ayrshire      | 15          | 26                     |
| 29  | South Lanarkshire   | 18          | 29                     |
| 30  | Stirling            | 38          | 26                     |

**Table 15: Surveyors exceeding the 33% limit within a UA**

| UAB | Unitary Authority | Surveyor No | % of all surveys in UA |
|-----|-------------------|-------------|------------------------|
| 24  | Orkney Islands    | 49          | 35                     |
| 27  | Shetland Islands  | 48          | 38                     |
| 27  | Shetland Islands  | 49          | 39                     |

### 6.7.3 Rules three and four

Each surveyor's allocation should contain a mixture of dwelling types and a balance of urban/ rural properties that approximate the profile of the area in which they are working in over each year of fieldwork.

While it is beyond the scope of this report to provide a detailed analysis of the type of housing contained within each UA, the tables below analyse the full surveys carried out by individual surveyors into dwelling types and area types. This was compared with "ideal" types predicted by the 2002 SHCS. The results indicated that there were no significant anomalies

**Table 16: Full physical surveys by surveyor and dwelling type**

| Surveyor No. | Full Surveys | 1                            | 2                                 | 3                        | 4                                  | 5                                       | 7                                | Total |
|--------------|--------------|------------------------------|-----------------------------------|--------------------------|------------------------------------|---|----------------------------------|-------|
|              |              | House or bungalow - detached | House or bungalow - semi-detached | Terraced, end of terrace | Flat or maisonette - purpose built | Flat or maisonette - Part house Convert | Some other kind of accommodation |       |
|              | n            | %                            | %                                 | %                        | %                                  | %                                       | %                                | %     |
| 1            | 28           | 25                           | 25                                | 11                       | 36                                 | 4                                       | 0                                | 100   |
| 2            | 58           | 16                           | 29                                | 26                       | 29                                 | 0                                       | 0                                | 100   |
| 3            | 74           | 16                           | 28                                | 20                       | 32                                 | 3                                       | 0                                | 100   |
| 5            | 64           | 16                           | 25                                | 22                       | 36                                 | 0                                       | 2                                | 100   |
| 6            | 82           | 12                           | 15                                | 12                       | 57                                 | 4                                       | 0                                | 100   |
| 7            | 56           | 21                           | 20                                | 23                       | 34                                 | 2                                       | 0                                | 100   |
| 8            | 72           | 26                           | 25                                | 22                       | 25                                 | 1                                       | 0                                | 100   |
| 9            | 67           | 13                           | 21                                | 16                       | 46                                 | 3                                       | 0                                | 100   |
| 10           | 16           | 25                           | 6                                 | 25                       | 31                                 | 13                                      | 0                                | 100   |
| 11           | 60           | 30                           | 22                                | 17                       | 30                                 | 2                                       | 0                                | 100   |
| 12           | 66           | 30                           | 26                                | 26                       | 15                                 | 3                                       | 0                                | 100   |
| 13           | 76           | 14                           | 33                                | 28                       | 22                                 | 3                                       | 0                                | 100   |
| 14           | 71           | 31                           | 23                                | 15                       | 30                                 | 1                                       | 0                                | 100   |
| 15           | 81           | 33                           | 19                                | 30                       | 15                                 | 2                                       | 1                                | 100   |
| 16           | 23           | 35                           | 17                                | 17                       | 30                                 | 0                                       | 0                                | 100   |
| 17           | 76           | 22                           | 22                                | 30                       | 25                                 | 0                                       | 0                                | 100   |
| 18           | 77           | 12                           | 25                                | 27                       | 36                                 | 0                                       | 0                                | 100   |
| 19           | 66           | 21                           | 24                                | 20                       | 32                                 | 3                                       | 0                                | 100   |
| 21           | 80           | 23                           | 20                                | 21                       | 35                                 | 1                                       | 0                                | 100   |
| 22           | 69           | 12                           | 20                                | 38                       | 26                                 | 4                                       | 0                                | 100   |
| 23           | 81           | 14                           | 16                                | 22                       | 40                                 | 6                                       | 2                                | 100   |

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| Surveyor No.         | Full Surveys | 1                            | 2                                 | 3                        | 4                                  | 5                                       | 7                                | Total      |
|----------------------|--------------|------------------------------|-----------------------------------|--------------------------|------------------------------------|---|----------------------------------|------------|
|                      |              | House or bungalow - detached | House or bungalow - semi-detached | Terraced, end of terrace | Flat or maisonette - purpose built | Flat or maisonette - Part house Convert | Some other kind of accommodation |            |
|                      | <i>n</i>     | %                            | %                                 | %                        | %                                  | %                                       | %                                | %          |
| 24                   | 36           | 19                           | 14                                | 14                       | 47                                 | 6                                       | 0                                | 100        |
| 25                   | 81           | 22                           | 30                                | 22                       | 20                                 | 6                                       | 0                                | 100        |
| 26                   | 59           | 24                           | 20                                | 32                       | 17                                 | 5                                       | 2                                | 100        |
| 27                   | 83           | 19                           | 16                                | 29                       | 35                                 | 1                                       | 0                                | 100        |
| 28                   | 72           | 21                           | 19                                | 29                       | 29                                 | 0                                       | 1                                | 100        |
| 29                   | 73           | 22                           | 30                                | 27                       | 19                                 | 1                                       | 0                                | 100        |
| 31                   | 51           | 29                           | 25                                | 31                       | 14                                 | 0                                       | 0                                | 100        |
| 32                   | 82           | 27                           | 28                                | 23                       | 17                                 | 5                                       | 0                                | 100        |
| 33                   | 62           | 16                           | 21                                | 23                       | 32                                 | 8                                       | 0                                | 100        |
| 34                   | 66           | 33                           | 20                                | 21                       | 23                                 | 3                                       | 0                                | 100        |
| 35                   | 42           | 21                           | 26                                | 19                       | 33                                 | 0                                       | 0                                | 100        |
| 36                   | 41           | 20                           | 20                                | 34                       | 20                                 | 7                                       | 0                                | 100        |
| 37                   | 63           | 24                           | 25                                | 24                       | 25                                 | 2                                       | 0                                | 100        |
| 38                   | 68           | 29                           | 18                                | 15                       | 37                                 | 1                                       | 0                                | 100        |
| 39                   | 69           | 17                           | 28                                | 32                       | 22                                 | 0                                       | 1                                | 100        |
| 40                   | 78           | 46                           | 22                                | 21                       | 12                                 | 0                                       | 0                                | 100        |
| 41                   | 52           | 25                           | 27                                | 25                       | 21                                 | 2                                       | 0                                | 100        |
| 42                   | 50           | 26                           | 26                                | 18                       | 26                                 | 4                                       | 0                                | 100        |
| 43                   | 67           | 37                           | 24                                | 19                       | 16                                 | 3                                       | 0                                | 100        |
| 44                   | 56           | 27                           | 29                                | 23                       | 20                                 | 2                                       | 0                                | 100        |
| 45                   | 78           | 31                           | 27                                | 23                       | 18                                 | 1                                       | 0                                | 100        |
| 46                   | 26           | 35                           | 46                                | 15                       | 0                                  | 4                                       | 0                                | 100        |
| 47                   | 67           | 27                           | 13                                | 24                       | 34                                 | 1                                       | 0                                | 100        |
| 48                   | 51           | 69                           | 25                                | 4                        | 2                                  | 0                                       | 0                                | 100        |
| 49                   | 61           | 52                           | 30                                | 13                       | 5                                  | 0                                       | 0                                | 100        |
| 50                   | 40           | 78                           | 15                                | 8                        | 0                                  | 0                                       | 0                                | 100        |
| 51                   | 58           | 16                           | 29                                | 26                       | 28                                 | 2                                       | 0                                | 100        |
| 52                   | 43           | 49                           | 26                                | 16                       | 9                                  | 0                                       | 0                                | 100        |
| 53                   | 75           | 25                           | 23                                | 15                       | 33                                 | 4                                       | 0                                | 100        |
| <b>All surveyors</b> | <b>3093</b>  | <b>26</b>                    | <b>23</b>                         | <b>22</b>                | <b>26</b>                          | <b>2</b>                                | <b>0</b>                         | <b>100</b> |

**Table 17: Full physical surveys by Surveyor and area type**

| Surveyor no. | Full Surveys<br>n | 1  | 2                      | 3                          | 4                       | 5                          | 6                     | 7                 | 8                      | Total<br>% |
|--------------|-------------------|--|------------------------|----------------------------|-------------------------|----------------------------|-----------------------|-------------------|------------------------|------------|
|              |                   | The four cities:<br>Edinburgh/ Aberdeen/<br>Glasgow /Dundee<br>% | Other urban areas<br>% | Accssible small towns<br>% | Remote small towns<br>% | V. remote small towns<br>% | Accessible rural<br>% | Remote rural<br>% | Very remote rural<br>% |            |
| 1            | 28                | 86   | 4                      | 0                          | 0                       | 0                          | 11                    | 0                 | 0                      | 100        |
| 2            | 58                | 28   | 47                     | 12                         | 0                       | 0                          | 14                    | 0                 | 0                      | 100        |
| 3            | 74                | 61   | 18                     | 3                          | 5                       | 0                          | 12                    | 1                 | 0                      | 100        |
| 5            | 64                | 64   | 20                     | 6                          | 0                       | 0                          | 9                     | 0                 | 0                      | 100        |
| 6            | 82                | 82   | 12                     | 5                          | 0                       | 0                          | 1                     | 0                 | 0                      | 100        |
| 7            | 56                | 57   | 27                     | 5                          | 2                       | 0                          | 9                     | 0                 | 0                      | 100        |
| 8            | 72                | 39   | 33                     | 22                         | 0                       | 0                          | 6                     | 0                 | 0                      | 100        |
| 9            | 67                | 70   | 25                     | 1                          | 0                       | 0                          | 3                     | 0                 | 0                      | 100        |
| 10           | 16                | 13   | 75                     | 6                          | 0                       | 0                          | 6                     | 0                 | 0                      | 100        |
| 11           | 60                | 53   | 23                     | 7                          | 0                       | 5                          | 10                    | 0                 | 2                      | 100        |
| 12           | 66                | 18   | 26                     | 14                         | 11                      | 0                          | 23                    | 9                 | 0                      | 100        |
| 13           | 76                | 17   | 41                     | 26                         | 1                       | 0                          | 8                     | 4                 | 3                      | 100        |
| 14           | 71                | 20   | 32                     | 17                         | 0                       | 1                          | 8                     | 0                 | 21                     | 100        |
| 15           | 81                | 4  | 53                     | 12                         | 6                       | 0                          | 19                    | 4                 | 2                      | 100        |
| 16           | 23                | 30   | 4                      | 30                         | 13                      | 0                          | 9                     | 13                | 0                      | 100        |
| 17           | 76                | 37   | 21                     | 9                          | 3                       | 0                          | 24                    | 7                 | 0                      | 100        |
| 18           | 77                | 75   | 18                     | 6                          | 0                       | 0                          | 0                     | 0                 | 0                      | 100        |
| 19           | 66                | 24   | 56                     | 6                          | 0                       | 0                          | 14                    | 0                 | 0                      | 100        |
| 21           | 80                | 46   | 23                     | 19                         | 0                       | 0                          | 13                    | 0                 | 0                      | 100        |
| 22           | 69                | 25   | 13                     | 23                         | 13                      | 0                          | 16                    | 10                | 0                      | 100        |
| 23           | 81                | 53   | 12                     | 20                         | 0                       | 0                          | 12                    | 2                 | 0                      | 100        |
| 24           | 36                | 67   | 25                     | 0                          | 0                       | 0                          | 8                     | 0                 | 0                      | 100        |
| 25           | 81                | 42   | 33                     | 10                         | 0                       | 0                          | 14                    | 1                 | 0                      | 100        |
| 26           | 59                | 25   | 46                     | 5                          | 2                       | 0                          | 22                    | 0                 | 0                      | 100        |
| 27           | 83                | 36   | 37                     | 11                         | 0                       | 0                          | 16                    | 0                 | 0                      | 100        |
| 28           | 72                | 26   | 53                     | 8                          | 0                       | 0                          | 10                    | 3                 | 0                      | 100        |
| 29           | 73                | 14   | 40                     | 18                         | 0                       | 0                          | 29                    | 0                 | 0                      | 100        |
| 31           | 51                | 25   | 4                      | 31                         | 4                       | 0                          | 29                    | 6                 | 0                      | 100        |
| 32           | 82                | 30   | 29                     | 16                         | 2                       | 0                          | 17                    | 4                 | 1                      | 100        |
| 33           | 62                | 39   | 34                     | 11                         | 2                       | 0                          | 15                    | 0                 | 0                      | 100        |
| 34           | 66                | 23   | 14                     | 35                         | 0                       | 0                          | 18                    | 9                 | 2                      | 100        |
| 35           | 42                | 45   | 31                     | 12                         | 0                       | 0                          | 12                    | 0                 | 0                      | 100        |
| 36           | 41                | 54   | 24                     | 15                         | 0                       | 0                          | 7                     | 0                 | 0                      | 100        |
| 37           | 63                | 37   | 48                     | 5                          | 0                       | 0                          | 11                    | 0                 | 0                      | 100        |
| 38           | 68                | 9  | 57                     | 18                         | 0                       | 0                          | 13                    | 3                 | 0                      | 100        |
| 39           | 69                | 3  | 57                     | 28                         | 0                       | 0                          | 13                    | 0                 | 0                      | 100        |
| 40           | 78                | 9  | 23                     | 19                         | 5                       | 0                          | 23                    | 15                | 5                      | 100        |
| 41           | 52                | 0  | 54                     | 0                          | 0                       | 25                         | 0                     | 2                 | 19                     | 100        |
| 42           | 50                | 26   | 38                     | 2                          | 0                       | 2                          | 26                    | 4                 | 2                      | 100        |
| 43           | 67                | 0  | 40                     | 0                          | 3                       | 12                         | 1                     | 4                 | 39                     | 100        |
| 44           | 56                | 0  | 30                     | 5                          | 7                       | 7                          | 16                    | 4                 | 30                     | 100        |
| 45           | 78                | 8  | 63                     | 17                         | 0                       | 0                          | 8                     | 0                 | 5                      | 100        |

|              |              | 1   | 2                 | 3                      | 4                  | 5                     | 6                | 7            | 8                 |       |
|--------------|--------------|---|-------------------|------------------------|--------------------|-----------------------|------------------|--------------|-------------------|-------|
| Surveyor no. | Full Surveys | The four cities:<br>Edinburgh/ Aberdeen/<br>Glasgow /Dundee | Other urban areas | Accessible small towns | Remote small towns | V. remote small towns | Accessible rural | Remote rural | Very remote rural | Total |
|              | n            | %   | %                 | %                      | %                  | %                     | %                | %            | %                 | %     |
| 46           | 26           | 0   | 42                | 0                      | 8                  | 0                     | 0                | 8            | 42                | 100   |
| 47           | 67           | 4   | 67                | 6                      | 0                  | 12                    | 4                | 0            | 6                 | 100   |
| 48           | 51           | 0   | 0                 | 0                      | 0                  | 18                    | 0                | 0            | 82                | 100   |
| 49           | 61           | 0   | 0                 | 0                      | 0                  | 36                    | 0                | 0            | 64                | 100   |
| 50           | 40           | 0   | 0                 | 0                      | 0                  | 10                    | 0                | 0            | 90                | 100   |
| 51           | 58           | 50  | 26                | 16                     | 0                  | 0                     | 9                | 0            | 0                 | 100   |
| 52           | 43           | 0   | 0                 | 9                      | 14                 | 21                    | 26               | 21           | 9                 | 100   |
| 53           | 75           | 73  | 11                | 9                      | 0                  | 0                     | 7                | 0            | 0                 | 100   |
| Total        | 3093         | 32  | 31                | 12                     | 2                  | 3                     | 12               | 3            | 7                 | 100   |

#### 6.7.4 Rule 5

##### Target

Each surveyor should conduct no more than a maximum number of surveys over the course of a fieldwork year. Initially the maximum number of surveys per surveyor was:

$$(1.5 \times \text{No. of Surveys}) / \text{Number of Surveyors per year.}$$

For Year Two, this equated to a maximum of 88 surveys per surveyor.

##### Results

None of the surveyors exceeded the maximum number of surveys. The average number of full surveys per surveyor was 62. Detailed results are in given in Table 18 below.

**Table 18: Number of full surveys by surveyor**

| Surveyor No. | Full surveys | Surveyor No. | Full surveys |
|--------------|--------------|--------------|--------------|
| 27           | 83           | 5            | 64           |
| 6            | 82           | 37           | 63           |
| 32           | 82           | 33           | 62           |
| 15           | 81           | 49           | 61           |
| 23           | 81           | 11           | 60           |
| 25           | 81           | 26           | 59           |
| 21           | 80           | 2            | 58           |
| 40           | 78           | 51           | 58           |
| 45           | 78           | 7            | 56           |
| 18           | 77           | 44           | 56           |
| 13           | 76           | 41           | 52           |
| 17           | 76           | 31           | 51           |
| 53           | 75           | 48           | 51           |
| 3            | 74           | 42           | 50           |
| 29           | 73           | 52           | 43           |
| 8            | 72           | 35           | 42           |
| 28           | 72           | 36           | 41           |
| 14           | 71           | 50           | 40           |
| 22           | 69           | 24           | 36           |
| 39           | 69           | 1            | 28           |
| 38           | 68           | 46           | 26           |
| 9            | 67           | 16           | 23           |
| 43           | 67           | 10           | 16           |
| 47           | 67           |              |              |
| 12           | 66           |              |              |
| 19           | 66           |              |              |
| 34           | 66           |              |              |
|              |              | <b>Total</b> | <b>3093</b>  |

## 7 Delivery of Social Interview Data

### 7.1 Social Survey Edit Program

An edit application for the CSHCS was programmed by ONS using Manipula<sup>5</sup>. Manipula is part of the Blaise suite of survey software that allows customised extraction and reformatting of collected interview data. The edit application has a front-end that allows cases to be edited on an individual basis, thus reducing potential editor error. Photographs of the property taken by the surveyors are also available with the interview data to assist in interpreting difficult cases. The main focus of the edit application is to check cases for errors, inconsistencies and outliers. All soft checks included in the questionnaire program were included as checks in the edit program; additional checks were specified by Communities Scotland. All 'Other' responses were flagged up, so that back-coding to one of the response categories could take place, insofar as possible. A complete list of validation checks can be found in Appendix 10.8.

### 7.2 Edit Process

Social survey data was received each quarter from interviewers and was divided into batches of 100 cases (roughly amounting to 10 batches per quarter). A batch of data was then run through the edit program and a list of errors/checks, the "validation report", was produced. This was then converted into a spreadsheet, which the editors used as the basis for their work. Justifications for both editing and not-editing the data were made on the spreadsheet, along with a list of variables that had been checked (see example in Appendix 10.6). Editing decisions were recorded in the spreadsheet and were quality-assured by another member of the ONS research team.

Both the unedited and edited data were then run through a set of SPSS<sup>6</sup> syntax files in order to rename certain variables, add variable and value labels, and convert multi-coded variables to dichotomous variables. As the questions on the social survey questionnaire usually ended in a numeric character, the variable names produced from the Blaise data differed from the way they originally appeared in the questionnaire. By running the data through the syntax files, the variable names were recreated according to specifications provided by Communities Scotland.

For each batch, three data-files are created:

- unedited numeric data
- edited numeric data
- edited open-ended data

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<sup>5</sup> For more information on Manipula and Blaise see [www.cbs.nl/en/](http://www.cbs.nl/en/).

<sup>6</sup> Statistical Package for the Social Sciences. For further information see [www.SPSS.com](http://www.SPSS.com).

These, together with the spreadsheet, were delivered by ONS to Communities Scotland.

### **7.3 *Accepting and Rejecting Data***

Communities Scotland ran its own checks on the delivered data files. All edit changes on the edited numeric data were checked for consistency and accuracy. Batches of data could be rejected for any of the following reasons:

- The information in the case led to the conclusion that data should have been amended, but had not been.
- An edit change cited had not been made.
- A change had/ had not been made that was inconsistent with other batches.
- Variable labels were misleading or missing.

Ten per cent of the open-ended data were checked at random to ensure consistency of back-coding.

Communities Scotland then sent a memo to ONS acknowledging rejection or acceptance of each batch of data. Any rejected data were re-edited by ONS and sent back to Communities Scotland for further checking. Once all data batches from a quarter had been accepted, ONS combined the batches to create a full quarterly dataset. This was then delivered to Communities Scotland.

## 8 The Physical Survey Edit and Validation Process

The process of editing the physical data on the CSHCS can be broken down into three stages: return of survey forms, keying forms and validation. Each of these stages is described below.

### 8.1 Return of forms and outcomes

Once the physical survey had taken place, surveyors coded the survey form and sent it for checking and validation to the MMBL office in Edinburgh.

MMBL booked in forms electronically, and validators checked each page to ensure that all pages had been completed and that each box had a value (where applicable).

The booking-in process involved entering the case number for each form onto the SHCS physical survey database. Editors also booked in the floppy disks, which usually held four images of the surveyed property (front, back and two area pictures).

**Figure 3: Booking in Forms**

The screenshot shows a software window titled 'SHC Forms' with a close button. Below the title bar, the text 'Edinburgh' is displayed. There is a text input field labeled 'Casenumber :'. Below this are two buttons: 'Book-In Disks' and 'Submit'. A 'Status' section contains the text 'Now Booking-In : FORMS' and 'Ready To Enter FORM' in red. At the bottom, there is an empty rectangular box.

**Figure 4: Booking in photographs**

The screenshot shows a software window titled 'SHC Forms' with a close button. Below the title bar, the text 'Edinburgh' is displayed. There is a text input field labeled 'Casenumber :'. Below this are two buttons: 'Book-In Forms' and 'Submit'. A 'Status' section contains the text 'Now Booking-In : DISKS' and 'Insert Picture Disk' in red. At the bottom, there is an empty rectangular box.

### 8.2 Physical survey types

In Year One (2003/4) of the CSHCS there were three types of physical survey:

- a full physical survey
- an external survey
- a dwelling description only.

From Year Two, it was agreed to drop the external survey, which covered external items in more detail than the dwelling description.

The extent of the physical survey is dependent on the outcome of the social survey (full, partial, non-contact, refusal or ineligible) and agreement of the respondent to an interior physical survey. Where there was a social survey, there could be either a full physical survey or a dwelling description. Where there was no social survey, properties could have a dwelling description, but not in if householders had refused to take part in the social survey. The full set of rules governing which properties were sent to MMBL for physical surveys is given Appendix 10.5: List of Outcome codes, but these can be summarised as follows:

- Full Physical: social outcome = 110-210 (full or partial) (this will constitute a 'paired case')
- Dwelling description where a social interview has taken place, but the surveyor is unable to obtain a full survey; non-contacts; vacants; second homes
- A paired case is one where there is both a social interview and a full physical survey

Once the social interview was concluded, ONS asked whether the household would be willing to take part in the physical survey. This determined the final outcome code. The questionnaire was then transmitted to ONS-HQ, and the relevant details were immediately routed to the secure MMBL website.

### **8.3 Keying of physical survey forms**

Each physical survey form was keyed into a database using a Blaise CADI<sup>7</sup> program. The system allows an editor to enter data for forms that have already been booked-in. This is achieved by selecting a serial number and then opting to key in a new form (see Figure 5). If the form has already been entered or if the form has not been booked-in, a warning is issued. This ensures that forms are not entered twice. If a form needs to be checked after it has been entered, or if the input was not completed, the editor can access it by selecting 'edit existing case'.

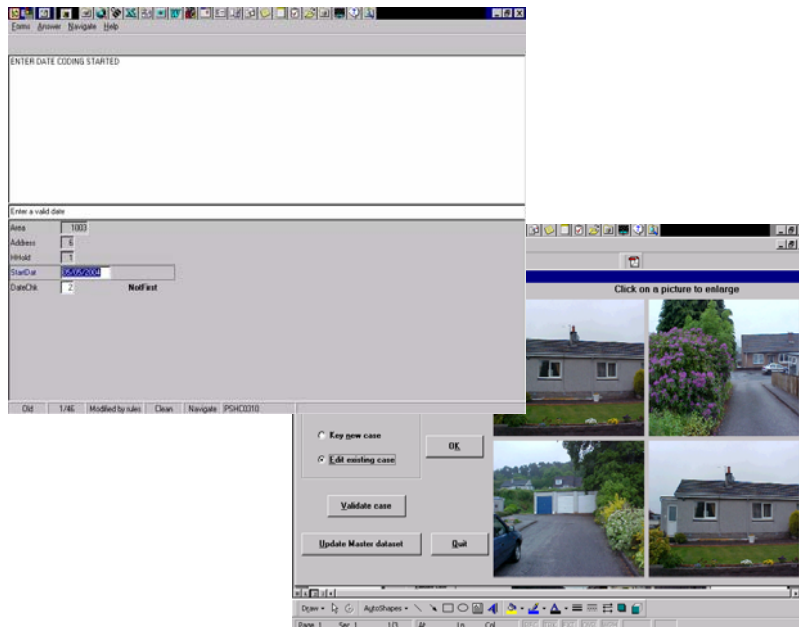
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<sup>7</sup> Computer-Assisted Data Entry

**Figure 5: Entering new physical data**

Once a case is edited, an electronic Blaise object exists for it. In CADI, routing to each question is based on answers to previous questions. For the CSHCS, while data entry takes place, the editor can still look at corresponding photographs of the property to verify details.

**Figure 6: Edit screens**



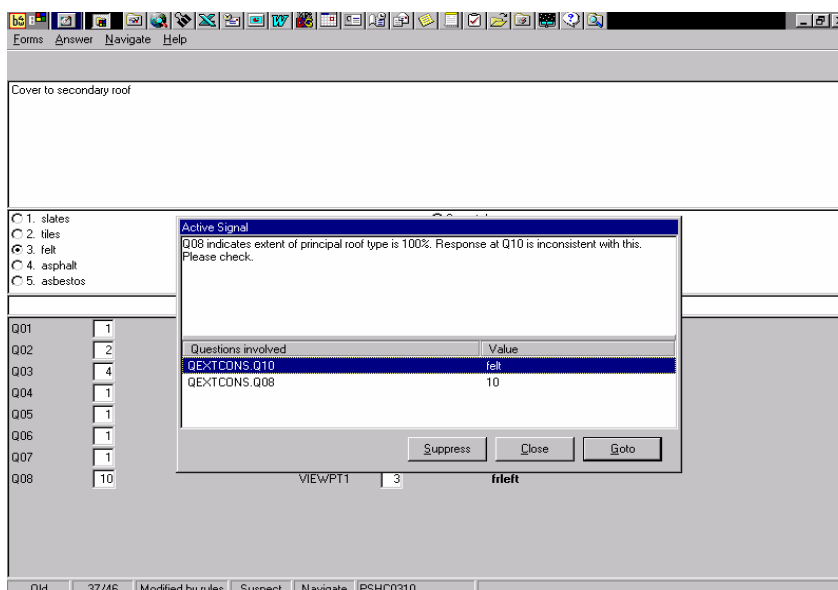
The survey form for the CSHCS consisted of a number of separate sections, which are detailed in Table 19.

**Table 19: Physical survey form topics**

| Section | Title of section                           | Section contents   |
|---------|--|--|
| A       | Contact information                        | Date and time of each call made and call outcome               |
| B       | Type of survey                             |  |
| D       | Dwelling description                       | Type of accommodation, entry level, date of construction etc.  |
| E       | Characteristics of the Common Block        | Flats, conversions, number of dwellings in common block        |
| F       | Room by room record                        | Location of and use of each room                               |
| G       | Room repairs                               | Comprehensive assessment of state of repair of each room       |
| H       | Types of defect/condition                  | Features of the room - access, lighting, ventilation etc       |
| I       | Repairs to the whole dwelling              | Overall assessment   |
| J       | Rooms/Floors summary                       |  |
| K       | Amenities                                  | Specific information on bathroom, WC and kitchen               |
| L       | Services and fittings                      | Power supply, water supply etc.                                |
| M       | Heating and insulation                     | Primary/secondary, appliances, fuel, repairs, insulation       |
| N       | Dwelling measurements                      |  |
| O       | Characteristics of common elements         | Communal areas, stairs, lifts, entry system etc                |
| P       | Repairs to common elements                 |  |
| Q       | External construction/materials            | Wall exposure, thickness, roof type, window type               |
| R       | External repairs                           | Roof, chimney, flashings, gutters etc                          |
| S       | External features                          | Surface drainage, fences, walls, paths, steps                  |
| T       | Tolerable standard - statutory declaration | Essential components of 'Below Tolerable Standards' assessment |

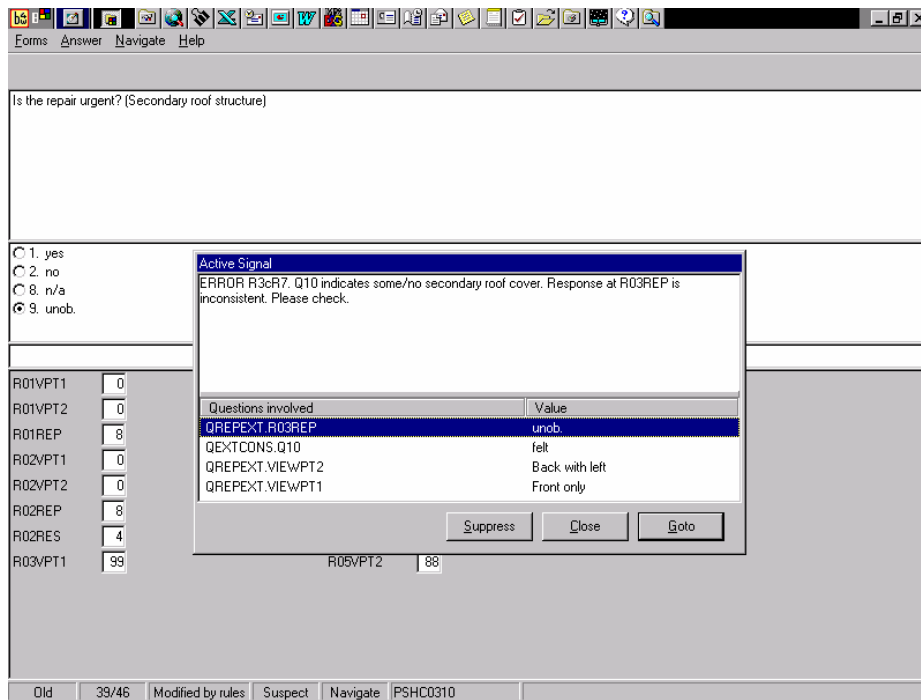
The program has a number of data input rules to ensure the accuracy and validity of each item of data entered. Rules cross-reference different parts of the survey form, (e.g. if the dwelling is a house, then aspects of common dwelling section should not be completed; if the house is a flat, then details for common parts should be present).

**Figure 7: Example data entry error (1)**



As data input progresses, anomalies are flagged to the editor, who can check the information and, if necessary, refer back to the surveyor or leave as a query for Communities Scotland to resolve.

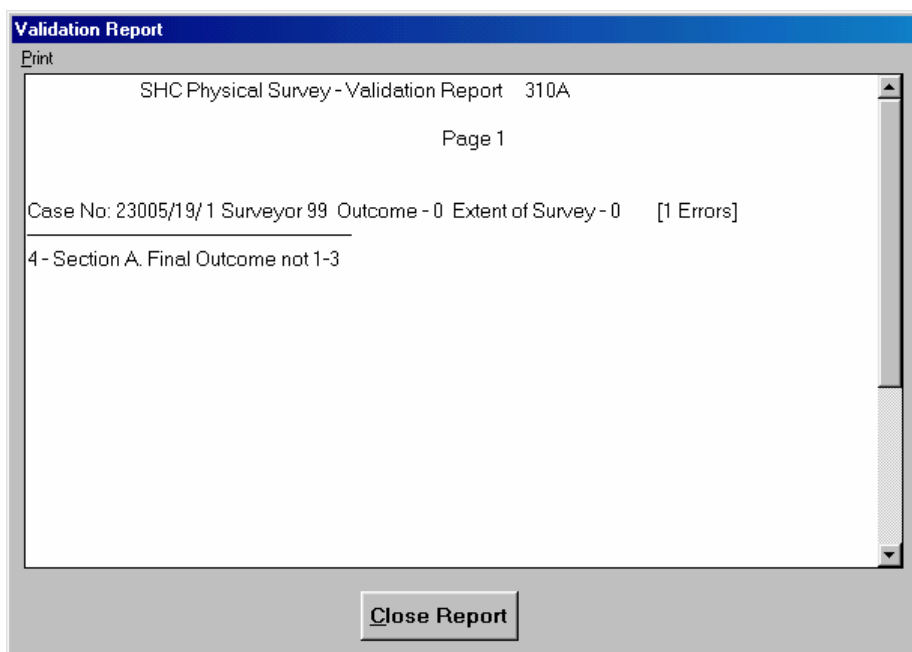
**Figure 8: Example data entry error (2)**



#### 8.4 Validation

Once the survey form was fully keyed in and any potential errors resolved or noted, the data was revalidated. The validation program was usually updated at the beginning of each quarter to account for any changes needed. In Year Two the “Area information” section was removed from the paper form and, therefore, the corresponding “Qareainf” section was removed from the validation program. The revalidation function identified any earlier checks which were not dealt. A number of final checks are also undertaken to ensure that the data was high quality, logical and consistent. The validation produced a “validation report” for each case which was printed; all entries were re-checked. A copy of such a report appears below.

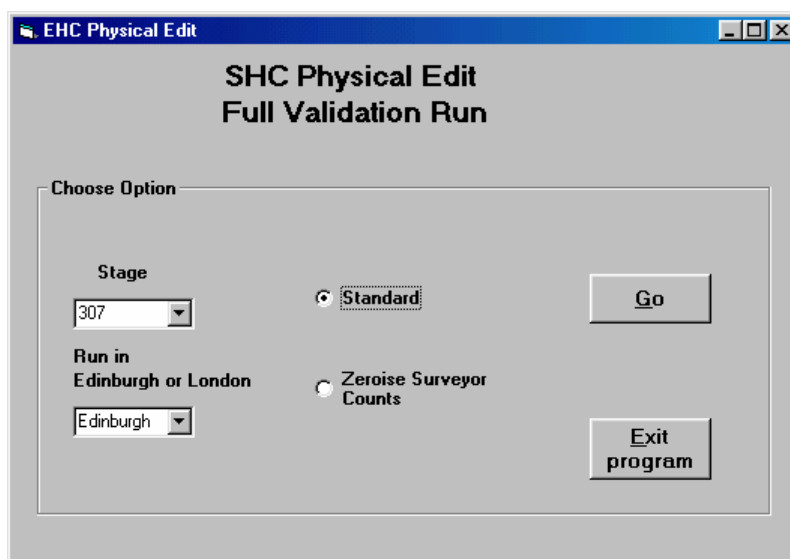
**Figure 9: Physical validation report**



Once the form was clean (or where any entries were accepted by Communities Scotland) the electronic form was saved to a master data file.

Delivery of physical survey data to Communities Scotland took place quarterly. In preparation for delivery, a final set of validation reports was produced on data for the whole quarter. These listed all forms keyed and any unresolved discrepancies. This full validation run produced a summary of any remaining errors which were then dealt with by further editing, followed by individual validation and full validation. Over the course of the year, ongoing refinements were made to the checks and error statements to ensure that they were as accurate as possible and trapped only those cases where the data input or form were incorrect.

**Figure 10: Physical edit validation screen**



Once a clean set of full validation reports was produced, the data were zipped up and transmitted to London, where the information was translated from Blaise into SPSS for delivery. Data was then reformatted into a set of 80-column data, contained in a set of 12 SPSS data-files (Card1.SAV to Card12.SAV). A set was delivered to Communities Scotland each quarter.

## 9 Weighting

In Year One, five stages were identified for producing weights for the Scottish House Condition Survey (SHCS). The first stage dealt with Multiple Occupancy (MO) Households. ONS' Methodology Division were of the view that the MO indicator on the PAF worked well in Scotland and that there was no need to consider MO households (in relation to weighting) further.

### 9.1 Weighting for Year 2

In Year Two the following four stages in the survey process were identified as suitable stages for producing weights for the SHCS.

- Sampling from the Postcode Address File (PAF.)
- Contact made at the sampled address.
- Co-operated with the social survey.
- Co-operated with the full physical survey.

It was felt that the characteristics of households who co-operated at the social interview stage and at the physical survey stage might differ. By taking these characteristics into account, more precise weights could be obtained.

Table 20 details the number of cases available at each stage of the weighting process, beginning with sample size and going on to the number of eligible cases, the number of households contacted, the number of those providing a social interview, and finally the number providing both a social interview and full survey (paired cases). The weights applied to each stage are discussed below.

**Table 20 : Number of cases at each stage**

| <b>Outcome</b>  | <b>No. cases</b> |
|-----------------|------------------|
| Sample          | 6232             |
| Eligible        | 5386             |
| Contacts        | 5060             |
| Social Response | 3783             |
| Paired Response | 3093             |

### 9.2 Sample Design Weights

The sample design stage deals with differing sampling probabilities. In Year One, this was done on annual basis, as the size of the drawn sample did not vary from quarter to quarter. For Year Two, it was important to take quarter into account, as there was considerable variation in sample size within UA from quarter to quarter. Using quarter also had the advantage of reducing bias due to seasonal variation in the condition of dwellings. The set sample of 6232 cases for Year Two was used at this stage.

Sample Design weights were calculated by Unitary Authority and Quarter as follows:

$$\text{Design Weight} = \frac{1}{4} \times \frac{MO}{No.SampledAddresses} \quad (\text{For a given UA and quarter})$$

Here MO is an estimate of the number of households within a UA. Most of the addresses, or Multiple Output Delivery Points, on the PAF contain a single household. Some, however, are identified by the Royal Mail as containing more than one household and are, therefore, given a Multiple Output Indicator equal to the number of households at the delivery point. This MO count is used in producing the sample and is also used here to create the sample design weights.

**Table 21 : Design Weights**

|                | <i>n</i> | Range   | Minimum | Maximum | Sum of weights |
|----------------|----------|---------|---------|---------|----------------|
| Design Weights | 6232     | 1442.57 | 52.93   | 1495.50 | 2401229        |

### 9.3 Social Non- Contact Weights

All *eligible* cases were used at this stage. Eligible cases were identified by the final outcome code, HOUT, in the social data. All cases with Hout equal to 110, 210, 310, 320, 330, 410, 431, 432, 440, 450, 512, 522, 532, 542, 550 and 561 were deemed to be eligible. The total number of eligible cases was 5386.

We considered the possibility of bias in contacts with sampled households and used Answer Tree (Exhaustive Chaid method) to identify potential factors. We used UA, ACORN, Urban/rural Indicator and Quarter as possible factors. This method identified the following:

- First level: ACORN as a significant factor at the first level of the tree
- Second level: UA

A response variable was defined to be **1** if the household was contacted and **0** otherwise. A Non-contact weight was calculated as follows (For each weighting class):

- Contact Propensity = Mean of Contact Variable (For a given group)
- Contact Factor = 1/ Contact Propensity (For a given group)
- SNCWt = Design Weight \* Contact Factor. (For a given group)

**Table 22: Social Non Contact Weights**

|                            | <i>n</i> | Range   | Minimum | Maximum | Sum of weights |
|----------------------------|----------|---------|---------|---------|----------------|
| Contact Factor             | 5060     | .28     | 1.00    | 1.28    |                |
| Social Non- Contact Weight | 5060     | 1823.92 | 52.93   | 1876.85 | 2071095        |

#### 9.4 Social Non- Response Weights

All *contacted* cases were used at this stage. Contacted cases were identified by the final out come code, ‘HOUT’, in the social data. All cases with HOUT equal to 110, 210, 410, 431, 432, 440, 450, 512, 522, 532, 542, 550 and 561 were treated as contacted (see Section 10.5). The total number of contacted cases was 5060.

We considered the possibility of bias between contact and willingness to take part in the survey and used Answer Tree again to identify relevant factors. We used UA, ACORN, Urban/rural Indicator and Quarter as possible factors. The Exhaustive Chaid method identified:

- First level: UA as significant factor at the first level of the tree
- Second level: Acorn and Quarter
- Third level Acorn again

A response variable was defined to be **1** if the household was provided a social interview and **0** otherwise. These factors were used in the construction of Social non-response weights. A Social non-response weight was calculated as follow (For each weighting class).

- Response Propensity = Mean of Response Variable (For a given group)
- Response Factor = 1/ Response Propensity (For a given group)
- SNRWt = SNCWt \* Response Factor. (For a given group)

**Table 23: Social Non Response Weights**

|                            | <i>n</i> | Range   | Minimum | Maximum | Sum of weights |
|----------------------------|----------|---------|---------|---------|----------------|
| Social Response Factor     | 3783     | 1.27    | 1.00    | 2.27    |                |
| Social Non-Response Weight | 3783     | 3019.13 | 62.55   | 3081.68 | 2071095        |

#### 9.5 Physical Survey Paired Weights

All *social responding* cases were used at this stage. Social Response cases were identified by the final out come code ‘HOUT’ in the social data. All cases with HOUT equal to 110 and 210 were paired with full physical survey to arrive at the final number of paired cases.

Factors were again identified using Answer Tree to compensate for response bias between the social and physical stage. This time, a number of variables which identify the dwelling structure and different characteristics about the respondents were available from social data. The Exhaustive Chaid method identified:

- First level: UA as significant variable at the first level of the tree
- Second level: Acorn
- Third level: Derived marital status and Respondent Legal marital status
- Fourth level: DVILO3A (Employment status)
- Fifth level: UA

A physical response variable was defined to be **1** if there was a paired social and physical survey and **0** otherwise. A Paired Non-Response weight was calculated as follow (For each weighting class):

- Physical Response Propensity = Mean of Physical Response Variable. (For a given group)
- Physical Response Factor = 1/ Physical Response Propensity. (For a given group)
- PhyNRWt = SNRWt \* Response Factor. (For a given group)

**Table 24: Physical Paired Weight Statistics**

|                          | <i>n</i> | Range   | Minimum | Maximum | Sum of  |
|--------------------------|----------|---------|---------|---------|---------|
| Physical Response Factor | 3093     | .62     | 1.00    | 1.62    |         |
| Physical Response Weight | 3093     | 4185.73 | 67.91   | 4253.64 | 2071095 |

### 9.6 Calibration to known dwelling totals

There are known dwelling counts available for each UA. The counts for September 2005 are given in Table 25.

**Table 25: Dwellings on the valuation list**

| Area                | Dwellings | Area                | Dwellings |
|---------------------|-----------|---------------------|-----------|
| Scotland            | 2,300,561 | Highland            | 101,060   |
| Aberdeen City       | 99,350    | Inverclyde          | 37,834    |
| Aberdeenshire       | 100,338   | Midlothian          | 33,124    |
| Angus               | 50,547    | Moray               | 37,728    |
| Argyll & Bute       | 43,636    | North Ayrshire      | 62,882    |
| Clackmannanshire    | 21,868    | North Lanarkshire   | 140,236   |
| Dumfries & Galloway | 68,230    | Orkney Islands      | 9,380     |
| Dundee City         | 64,327    | Perth & Kinross     | 64,009    |
| East Ayrshire       | 52,742    | Renfrewshire        | 77,759    |
| East Dunbartonshire | 42,842    | Scottish Borders    | 51,550    |
| East Lothian        | 40,601    | Shetland Islands    | 9,829     |
| East Renfrewshire   | 35,847    | South Ayrshire      | 51,335    |
| Edinburgh, City of  | 208,555   | South Lanarkshire   | 133,211   |
| Eilean Siar         | 12,938    | Stirling            | 36,509    |
| Falkirk             | 66,878    | West Dunbartonshire | 42,922    |
| Fife                | 158,718   | West Lothian        | 69,575    |
| Glasgow City        | 274,201   |                     |           |

Source: Reported by Local Authorities on statistical return CTAXBASE 2005.

These known totals were used to adjust, or calibrate, the social survey (SNRWt) and Physical Survey (PhyNRWt) weights so that the final social survey and physical weights each added to the known total for each UA.

For the social survey, this calibration reduces to multiplying each weight by the ratio of the known total to the sum of the social survey weight, SNRWt, within the UA.

For the physical survey weights, this adjustment was accompanied by an adjustment to correct for a deficit of newly built properties. The date of construction for a dwelling is captured in the variable, D13. The latest category for this is “post-1982”. We ran the above calibration adjustment to UA totals and, using the resulting weights, created an estimate of the total dwellings in Scotland built after 1982. However, because of the time lag between the preparation of the PAF file and the reference date September 2005, we expect this estimate to be too low. In fact, using figures on numbers of newly built properties<sup>8</sup>, we would expect the true total of new-builds to be closer to our initial estimate plus the number of dwellings built in the year before the reference date (assuming that virtually all of these will remain standing at the reference date). We then re-ran the calibration adjustment for the physical file weights using both the UA totals and the augmented total of newly built dwellings. This increases the weights for newer dwellings in order to compensate for the under-coverage of the newest dwellings.

### **9.7 Combined weights for Year 1 and Year 2**

To produce a multiple year weights for Year 1 and Year 2, we combined the final weight files for both the years and halved the overall weight to get the combined weight.

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<sup>8</sup> A new build adjustment was taken from table 6 of the SE Statistical Bulletin Housing Series of May 2006. Averaging the total builds for 2004 and 2005 we get: 2004: 24,846; 2005: 24,295; Mid-2004 to Mid 2005 estimate: 24,571. After calibrating to UA dwelling totals, the estimate for post-1982 dwellings from the physical file was 390,708. Adding the above gives a post-1982 control total of 415,279, which was used for the second phase in this weighting.



## 10 Appendices

### 10.1 List of Abbreviations

|          |   |
|----------|---|
| BTS      | Below Tolerable Standard  |
| CAI      | Computer Assisted Interview   |
| CADI     | Computer Assisted Data Input  |
| CAPI     | Computer Assisted Personal Interview  |
| CMS      | Case Management System  |
| CSHCS    | Continuous Scottish House Condition Survey  |
| HRP      | Household Reference Person  |
| MMBL     | Miller Mitchell Burley Lane   |
| MODP     | Multiple Output Delivery Points   |
| ONS      | Office for National Statistics  |
| PAF      | Postcode Address File   |
| SHCS     | Scottish House Condition Survey   |
| SIU      | Sampling Implementation Unit  |
| UA       | Unitary Authority   |
| Year One | the first year of the Continuous Scottish House Condition Survey, from October 2003 to September 2004 |
| Year Two | the second year of the Continuous Scottish House Condition Survey from October 2004 to September 2005 |

## 10.2 Advance Letter



Office for National Statistics  
1 Drummond Gate  
London SW1V 2QQ

[www.shcs.gov.uk](http://www.shcs.gov.uk)  
[www.statistics.gov.uk](http://www.statistics.gov.uk)

Date as Postmark

Dear Resident(s)

I am writing to ask for your help with our survey about Scotland's housing and neighbourhoods. The information you provide will influence the Scottish Executive's policies and investment for communities across the whole of Scotland.

The Office for National Statistics is the government department responsible for official statistics. We will be carrying out the survey with Miller Mitchell Burley Lane (a building surveying company) for Communities Scotland, the Scottish Executive's housing and regeneration agency.

Your address was selected at random from the Royal Mail's list of addresses and your participation in this survey is very important to us in ensuring that people living in all kinds of property are properly represented. This includes homeowners as well as those who rent.

One of our interviewers will contact you shortly with further details about the survey. If you are busy when they call round they will be happy to arrange a more convenient time to visit.

You can find out more about the survey by visiting the website [www.shcs.gov.uk](http://www.shcs.gov.uk). If you have any questions, please call **Malini Shah on 0800 083 8388**.

**Thank you for your help.**

Yours faithfully

A handwritten signature in black ink that reads "Len Cook".

**Len Cook**  
National Statistician

The information you provide is treated with the strictest confidence by the Office for National Statistics (ONS), as directed by the National Statistics Code of Practice. It is used to produce anonymous statistics for decision-making in government and genuine research purposes only.

In addition to staff in ONS, other staff of the Government Statistical Service, Universities and research organisations may apply for access to detailed but anonymous data from the survey. When approved these staff sign an agreement to abide by the same code of practice and its confidentiality clauses. No information which could identify you or your household will be passed to other civil servants or local authorities, commercial organisations or the press.

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The Office for National Statistics is the government office that organises the Census and conducts surveys on behalf of Government Departments and other public bodies.

### 10.3 Purpose Leaflet

**national Statistics**

**Scottish House Condition Survey**

**Scottish House Condition Survey**

**Scottish House Condition Survey**

ONS is the government department which gathers and publishes a range of statistics about the economy and the society in which we live. ONS carries out many important surveys throughout Great Britain, providing information on the cost of living, health, housing, and many other matters of public interest.

[www.statistics.gov.uk](http://www.statistics.gov.uk)

Miller Mitchell Barriey Lane will be conducting the visual inspection of the property.

[www.mmlb.co.uk](http://www.mmlb.co.uk)

The Scottish House Condition Survey is undertaken by Communities Scotland on behalf of Ministers. Its purpose is to collect information on the changing condition of housing in Scotland and the characteristics of the households living in different types of housing.

[www.communities.scotland.gov.uk](http://www.communities.scotland.gov.uk)

**If you have any further queries please call ONS on 0800 083 8388 or email [SHCS@ons.gov.uk](mailto:SHCS@ons.gov.uk).**

**national Statistics**

**mmbml**  
miller Mitchell Barriey Lane

**Communities Scotland**  
Working in partnership with the people of Scotland

SCOTTISH EXECUTIVE

**WHAT IS THE SCOTTISH HOUSE CONDITION SURVEY?**



The information collected by the Scottish House Condition Survey is the only source of information on the condition and energy efficiency of Scotland's homes. The survey builds a picture of all types of housing, whether owner-occupied or owned by local authorities, housing associations or private landlords.

**WHO CARRIES OUT THE SURVEY?**



The survey is carried out by the Office for National Statistics (ONS) and Miller Mitchell Buryley Lane (MMBL) on behalf of the Scottish Executive's housing and regeneration agency, Communities Scotland. There are two parts to the survey. First, an ONS interviewer conducts an interview with you. Interviewers work flexible hours and can call at a time convenient to you. A few days later, a professionally qualified surveyor, from MMBL, will visit you to assess the condition and energy efficiency of your home.

**WHY ARE YOU CHOOSING MY HOME?**



We want to ensure that all types of housing across Scotland are represented. To visit every home in Scotland, however, would take too long and cost too much, so we have selected a number of addresses in urban, rural and island locations for interviewers to visit. These were chosen at random from the Post Office list of addresses, and once chosen, cannot be replaced with another. This way we can be sure we talk to a cross-section of people and view as wide a range of properties as possible.

This is also why it is so important that each household contacted takes part in the survey whether they own or rent their homes, and whatever their circumstances. Even if you have only recently moved in or are planning to move in the near future, the information you give us is necessary to ensure we have a proper mix of households and properties.

**SHOULD I LET MY LANDLORD KNOW I AM TAKING PART?**

There is no reason to inform your landlord of your participation unless you want to.

**HOW IS THE SURVEY USED?**



The interview will include questions on your home and neighbourhood, work recently done on your home, and background information about your household. The Scottish Executive, Scottish Ministers and local authorities use this information to:

- measure whether housing conditions are getting better or worse for everyone, areas most affected by poor housing, how satisfied people are with where they live;
- monitor whether what is being done to improve standards in both public and private housing is working;
- target resources to where they are most needed.

**WHAT WILL THE SURVEYOR DO?**



Our surveyors usually take 30-40 minutes to assess the design, condition and energy efficiency of your home. Much of this time is spent surveying the outside, but they will ask to see all the rooms inside. The survey is a visual one and will include taking pictures of the front and back of your home. It will not disrupt your home in anyway.

**IS THE SURVEY CONFIDENTIAL?**

Yes. The information you provide is treated with the strictest confidence by the Office for National Statistics (ONS), as directed by the National Statistics Code of Practice. It is used to produce anonymous statistics for decision-making in government and genuine research purposes only.

In addition to staff in ONS, other staff of the Government Statistical Service, Universities and research organisations may apply for access to detailed but anonymous data from the survey. When approved these staff sign an agreement to abide by the same code of practice and its confidentiality clauses. No information which could identify you or your household will be passed to other civil servants or local authorities, commercial organisations or the press.



### 10.4 Dwelling/Household Selection Form



**2004/05 SCOTTISH  
HOUSE  
CONDITION SURVEY  
Dwelling/Household  
SELECTION FORM**

|         |
|---------|
| SERIAL  |
| STICKER |
| LABEL   |

|                       |  |  |  |  |  |
|-----------------------|--|--|--|--|--|
| Interviewer<br>Number |  |  |  |  |  |
|-----------------------|--|--|--|--|--|

## DWELLING/HOUSEHOLD SELECTION FORM

**COMPLETE Q1 & Q2; BEFORE MAKING CONTACT**

**PROPERTY TYPE**

Q1. Code property type of printed address:

|                             |   |
|-----------------------------|---|
| Detached house              | 1 |
| Semi-detached house         | 2 |
| Terraced house              | 3 |
| Tenement flat               | 4 |
| 4-in-a-block flat           | 5 |
| Tower block/slab flat       | 6 |
| Conversion flat             | 7 |
| Other (WRITE IN & CODE '8') | 8 |
| Not applicable              | 9 |

**FLOORS**

Q2. How many floors does the building containing the address have?  
**(ESTIMATE IF UNKNOWN) - (EXCLUDING BASEMENTS)**

|               |   |
|---------------|---|
| less than six | 1 |
| six or more   | 2 |

**NUMBER OF DWELLINGS**

**Dwelling:** A dwelling is a unit of accommodation (normally a house or flat) where all the rooms and amenities (ie kitchen, bath/shower room and WC) are for the exclusive use of the household(s) occupying them. Amenities may be located outside the front door but provided they are for the exclusive use of the occupants the accommodation is still a dwelling.

Q3. Does the sample address consist of...

|  |   |          |
|--|---|----------|
| a single dwelling                        | 1 | GO TO Q6 |
| part of a dwelling                       | 2 | GO TO Q4 |
| more than one dwelling                   | 3 | GO TO Q5 |
| dwelling(s) with non-residential unit(s) | 4 | GO TO Q6 |
| Don't know/Refused                       | 5 | GO TO Q6 |

**NUMBER OF PAF LISTED ADDRESSES AT THE DWELLING**

Q4. Contact SIU and record the number of PAF listed addresses at the dwelling.

GO TO Q6

**NUMBER OF DWELLINGS AT THE ADDRESS**

Q5. Please **estimate** the number of **dwelling**s at the sampled address.

GO TO KISH GRID (below)

**NOW SELECT ONE DWELLING FOR INTERVIEW USING THE KISH GRID BELOW.**

**IF MORE THAN 9 HOUSES/FLATS AT ADDRESS CALL OFFICE FOR INSTRUCTIONS.**

SELECT NUMBER USING GRID

|             |   | NUMBER OF DWELLINGS AT ADDRESS |   |   |   |   |   |   |   |   |
|-------------|---|--------------------------------|---|---|---|---|---|---|---|---|
| PLEASE RING |   | 1                              | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|             | 0 | 1                              | 1 | 2 | 1 | 3 | 6 | 5 | 4 | 7 |
|             | 1 | 1                              | 2 | 3 | 4 | 1 | 1 | 6 | 5 | 9 |
| LAST        | 2 | 1                              | 1 | 1 | 3 | 4 | 3 | 3 | 1 | 4 |
| DIGIT       | 3 | 1                              | 2 | 2 | 1 | 5 | 4 | 7 | 6 | 8 |
| OF          | 4 | 1                              | 1 | 3 | 2 | 2 | 5 | 2 | 3 | 6 |
| SERIAL      | 5 | 1                              | 2 | 1 | 4 | 3 | 2 | 1 | 7 | 2 |
| NUMBER      | 6 | 1                              | 1 | 2 | 3 | 1 | 6 | 4 | 2 | 1 |
|             | 7 | 1                              | 2 | 3 | 1 | 4 | 1 | 5 | 8 | 3 |
|             | 8 | 1                              | 1 | 1 | 2 | 5 | 3 | 6 | 4 | 5 |
|             | 9 | 1                              | 2 | 2 | 4 | 2 | 4 | 3 | 5 | 7 |

**NOW GO TO QUESTION 6**

Q6. Is the dwelling selected for interview.....

|                                    |   |   |          |
|------------------------------------|---|---|----------|
| Occupied and contacted             | 1 | } | GO TO Q7 |
| Vacant/derelict                    | 2 |   |          |
| Occupied and not contacted         | 3 | } | END      |
| Could not identify dwelling status | 4 |   |          |
| Don't know/Refused                 | 5 |   |          |

**INTERVIEW SCREENING**

**Household:** A household is defined as one person living alone or a group of people, who may or may not be related, living at the same address who share at least one living or sitting room and/or have a regular arrangement to share at least one meal a day.

Q7 How many households in total are at the dwelling?

..... Now go to Q8

**Q8 SELECTION OF PRIMARY HOUSEHOLD**

**Primary household:** The primary household is defined as the household that has the main responsibility for the dwelling. The mortgage or lease is in their name, they have the responsibility for paying rent to the landlord; this household is also responsible for repairs and maintenance. The primary household contains the Household Reference Person (HRP).

**Single Dwelling**

If there is only **one primary household** at the dwelling/dwelling selected at Q5 go to Q9. If the dwelling/dwelling selected at Q5 contains **more than one primary household**, record the number of primary households in the box below.

**Part of a Dwelling**

If sample address is part of a dwelling (code 2 at Q3) and there is only **one primary household** at the address go to Q9. If the sample address contains **more than one primary household** then record the number of primary households in the box below.

**NOW SELECT HOUSEHOLD FOR INTERVIEW FROM THE KISH GRID BELOW.**

SELECT NUMBER USING GRID

| PLEASE RING | NUMBER OF PRIMARY HOUSEHOLDS AT ADDRESS |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|
|             | 1                                       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0           | 1                                       | 1 | 2 | 1 | 3 | 6 | 5 | 4 | 7 |
| 1           | 1                                       | 2 | 3 | 4 | 1 | 1 | 6 | 5 | 9 |
| LAST        | 2                                       | 1 | 1 | 3 | 4 | 3 | 3 | 1 | 4 |
| DIGIT       | 3                                       | 1 | 2 | 2 | 1 | 5 | 4 | 7 | 6 |
| OF          | 4                                       | 1 | 1 | 3 | 2 | 2 | 5 | 2 | 3 |
| SERIAL      | 5                                       | 1 | 2 | 1 | 4 | 3 | 2 | 1 | 7 |
| NUMBER      | 6                                       | 1 | 1 | 2 | 3 | 1 | 6 | 4 | 2 |
| 7           | 1                                       | 2 | 3 | 1 | 4 | 1 | 5 | 8 | 3 |
| 8           | 1                                       | 1 | 1 | 2 | 5 | 3 | 6 | 4 | 5 |
| 9           | 1                                       | 2 | 2 | 4 | 2 | 4 | 3 | 5 | 7 |

**NOW GO TO QUESTION 9**

**ANY OTHER HOMES**

Q9. Can I check, which of these applies to **your household** and this home. Do you have ...

|   |   |                          |
|---|---|--------------------------|
| <b>this home only</b>   | 1 | <b>GO TO QUESTION 12</b> |
| or more than one home?<br>(include second homes and those on<br>holiday here) | 2 | GO TO Q10                |
| Refused/don't know  | 3 | <b>END</b>               |

**MAIN/SECOND/HOLIDAY HOME**

Q10. Can I just check, is this your, or your household's, main home, your second home, or are you only here on holiday? IF HOLIDAY ASK: Are you staying with the people who own or permanently rent this property?

|   |   |                          |
|---|---|--------------------------|
| main home                                     | 1 | <b>GO TO QUESTION 12</b> |
| second home                                   | 2 | <b>END</b>               |
| on holiday here – owners/renters not resident | 3 | GO TO Q11                |
| on holiday here – staying with owners/renters | 4 |                          |

**HOLIDAY HOMES**

Q11. Is this the **main home** of the household who owns/permanently rents it?

|            |   |   |
|------------|---|---|
| Yes        | 1 | ARRANGE TO CALL BACK<br>WHEN THEY MAY BE<br>AVAILABLE |
| No         | 2 | <b>END</b>  |
| Don't know | 3 |   |

**LENGTH OF RESIDENCE**

Q12. Can I just check how long have you and/or your spouse/partner lived here?

If ALL householders (and their spouse/partners) have lived at the property for 3 months or less then code 1 below.

If any householder (or spouse/partner) has lived at property for more than 3 months then code 2 below.

|                  |   |                             |
|------------------|---|-----------------------------|
| 3 months or less | 1 | <b>END</b>                  |
| Over 3 months    | 2 | <b>START MAIN INTERVIEW</b> |

Q13. **PLEASE NOTE ANY INFORMATION THAT MAY HELP THE SURVEYOR IDENTIFY AND CONTACT THE RESPONDENT**

### 10.5 List of Outcome codes

| Group (HoutX)       | Code | Description   | Transmit to MMBL | Physical survey code | Type of Physical survey |
|---------------------|------|---|------------------|----------------------|-------------------------|
| Co-operating        | 110  | Complete Interview by required respondents / selected person                                | 1                | 1                    | Full                    |
| Co-operating        | 210  | Partial interview by required respondent  | 1                | 3                    | Dwelling Description    |
| Non-Contact         | 310  | No contact with anyone at address   | 1                | 3                    | Dwelling Description    |
| Non-Contact         | 320  | Contact made at address, but not with any member of the sampled dwelling / household        | 1                | 3                    | Dwelling Description    |
| Non-Contact         | 330  | Contact made at sampled dwelling / household, but not with any responsible resident         | 1                | 3                    | Dwelling Description    |
| Non-Contact         | 340  | Contact made at sampled dwelling / household, but not with selected person                  | 1                | 3                    | Dwelling Description    |
| Refusal             | 410  | HQ Refusal  |                  |                      |                         |
| Refusal             | 421  | Information refused about number of dwellings at address                                    |                  |                      |                         |
| Refusal             | 422  | Information refused that would allow identification of required respondents within dwelling |                  |                      |                         |
| Refusal             | 431  | Refusal by required respondent / selected person  |                  |                      |                         |
| Refusal             | 432  | Refusal by proxy  |                  |                      |                         |
| Refusal             | 433  | Refusal of access to site   |                  |                      |                         |
| Refusal             | 440  | Refusal during interview  |                  |                      |                         |
| Refusal             | 450  | Broken Appointment, no re-contact   |                  |                      |                         |
| Other Non-Response  | 511  | Ill at home during survey period, notified by HQ  |                  |                      |                         |
| Other Non-Response  | 512  | Ill at home during survey period, notified to interviewer                                   |                  |                      |                         |
| Other Non-Response  | 521  | Away/In hospital throughout field period, notified by HQ                                    |                  |                      |                         |
| Other Non-Response  | 522  | Away/In hospital throughout field period, notified to interviewer                           |                  |                      |                         |
| Other Non-Response  | 531  | Physically or mentally unable / incompetent, notified by HQ                                 |                  |                      |                         |
| Other Non-Response  | 532  | Physically or mentally unable / incompetent, notified to interviewer                        |                  |                      |                         |
| Other Non-Response  | 541  | Language difficulties, notified by HQ   |                  |                      |                         |
| Other Non-Response  | 542  | Language difficulties, notified to interviewer  |                  |                      |                         |
| Other Non-Response  | 550  | Lost Interview  |                  |                      |                         |
| Other Non-Response  | 561  | Full interview achieved but respondent requested data be deleted                            |                  |                      |                         |
| Other Non-Response  | 562  | Partial interview achieved but respondent requested data to be deleted                      |                  |                      |                         |
| Unknown Eligibility | 612  | Not attempted   |                  |                      |                         |
| Unknown Eligibility | 620  | Inaccessible  |                  |                      |                         |
| Unknown Eligibility | 630  | Unable to locate address  |                  |                      |                         |
| Unknown Eligibility | 651  | Information refused about whether there are eligible residents                              |                  |                      |                         |
| Ineligible          | 710  | Not yet built / under construction  |                  |                      |                         |
| Ineligible          | 720  | Demolished / derelict   |                  |                      |                         |
| Vacant              | 730  | Vacant / empty  | 1                | 3                    | Dwelling Description    |
| Ineligible          | 740  | Non-residential address   |                  |                      |                         |
| 2nd Home            | 750  | Address occupied, but no resident household / resident                                      | 1                | 3                    | Dwelling Description    |
| Ineligible          | 760  | Communal establishment / institution  |                  |                      |                         |

| <b>Group (HoutX)</b> | <b>Code</b> | <b>Description</b>                               | <b>Transmit to MMBL</b> | <b>Physical survey code</b> | <b>Type of Physical survey</b> |
|----------------------|-------------|--|-------------------------|-----------------------------|--------------------------------|
| Ineligible           | 771         | Dwelling of foreign service personnel / diplomat |                         |                             |                                |
| Ineligible           | 772         | No householder resident for more than 3 months   |                         |                             |                                |
| Ineligible           | 780         | Address out of sample                            |                         |                             |                                |
| Ineligible           | 783         | Household limit on sampled address               |                         |                             |                                |
| Ineligible           | 792         | Deceased   |                         |                             |                                |
| Ineligible           | 793         | Inappropriate to interview                       |                         |                             |                                |

### 10.6 Validation Mastersheet Year 2

| CaseID   | Check | Variable | Query/ Error   | Information/ case checked   | Variables checked  | Decision made       |
|----------|-------|----------|--|---|--|---------------------|
| 13003026 | 1     | DHC8     | This man is over 65 & should be retired.             | Aged 70. Works full-time 35 hours pw. Receives both retirement pension and occupational pension. Amend DIN35 to retired but working.              | DVAge2, DHC8b, FTPtWk, DIN35, DIN42, Ben1_4, DB7d, DB16_1, DB17a   | DIN35=1 to DIN35=2  |
| 19006013 | 1     | DHC8     | This man is over 65 & should be retired.             | Aged 67. Works part-time 25 hours pw. Receives retirement pension. Amend DIN35 to retired but working.  | DVAge, DHC8a, FtPtWk, DIN35, DIN42, Ben1_4, DB7d                   | DIN35=1 to DIN35=2  |
| 13003030 | 2     | DHC8     | This woman is over 60 & should be retired.           | Aged 68. Looking after the home/family and not working. Receives retirement pension. Amend DHC8 to Permanently retired from work.                 | DVAge2, DHC8b, Ben1_4, DB7d, DIN35                                 | DHC8b=4 to DHC8b=5  |
| 24007001 | 2     | DHC8     | This woman is over 60 & should be retired.           | Aged 62. Working full-time 35 hours pw. Receives retirement pension. Amend DIN35 to retired but working.  | DHC8b, DVAge2, DIN35, DIN38, DIN56, DB7d                           | DIN35=1 to DIN35=2  |
| 27003007 | 2     | DHC8     | This woman is over 60 & should be retired.           | Aged 62. Working full-time 32 hours pw. Receives retirement pension. Amend DIN1 to retired but working.   | DHC8a, DVAge, DIN4, DIN5, Ben1_4, DB7d, BAmt5, BPd5                | DIN1=1 to DIN1=2    |
| 28002007 | 2     | DHC8     | This woman is over 60 & should be retired.           | Aged 62. Works part time in 2 jobs, 10 hours pw in each. Receives retirement pension. Amend DIN1 to retired but working.                          | DVAge2, DHC8b, DIN1, DIN2, DIN7, DIN32, Ben1_4, DB17d, BAmt5, BPd5 | DIN1=1 to DIN1=2    |
| 9003042  | 3     | DHC8     | This man is under 65 & should not be retired.        | Aged 63. Retired from paid work. Long term sick or disabled. Receives DLA mobility and Incapacity benefit. Amend to Permanently sick or disabled. | DVAge2, DHC8b, YInAct, DisBen_2, Ben2_4                            | DHC8b=5 to DHC8b=11 |
| 15003008 | 3     | DHC8     | This man is under 65 & should not be retired.        | Aged 60. Retired from paid work. Receives occupational pension.   | DVAge, DHC8a, DIN1, DB16_1   | No change.          |
| 24006011 | 3     | DHC8     | This man is under 65 & should not be retired.        | Aged 64. Retired from paid work. Does not receive occupational pension.   | DVAge, DHC8a, YInAct, DIN1, DB16_1                                 | No change.          |
| 25006003 | 3     | DHC8     | This man is under 65 & should not be retired.        | Aged 58. Retired from paid work. Receives occupational pension.   | DVAge, DHC8a, YInAct, DIN1, DB16_1                                 | No change.          |
| 15003013 | 4     | DHC8     | This woman is under 60 & should not be retired.      | Aged 56. Retired from paid work. No further information.  | DVAge2, DHC8b, DIN35   | No change.          |
| 21006003 | 4     | DHC8     | This woman is under 60 & should not be retired.      | Aged 59. Retired from paid work. No further information.  | DVAge2, DHC8b, DIN1  | No change.          |
| 23006002 | 4     | DHC8     | This woman is under 60 & should not be retired.      | Aged 57. Retired from paid work. Receives occupational pension.   | DVAge, DHC8a, YInAct, DtJbL, DIN1, DB16_1                          | No change.          |
| 13003030 | 7     | DHC8     | This man is over 65 & should not be self employed.   | Aged 69. Self-employed. Receives retirement pension. Amend DIN1 to retired but working.   | DVAge, DHC8a, Ben1_4, DB7d, DIN1                                   | DIN1=1 to DIN1=2    |
| 24007001 | 8     | DHC8     | This woman is over 60 & should not be self employed. | Aged 62. Works full-time 35 hours pw. Receives retirement pension. Amend DIN35 to retired but working.  | DHC8b, DVAge2, DIN35, DIN38, DIN56, DB7d                           | DIN35=1 to DIN35=2  |

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| CaseID   | Check | Variable | Query/ Error   | Information/ case checked  | Variables checked                            | Decision made  |
|----------|-------|----------|--|--|--|--|
| 23007010 | 9     | DHC8     | This man is younger than 18 & should not be in higher education.   | Son aged 17 in higher education/ university. No further information.   | DHC8c, DVAge3                                | No change.   |
| 27004018 | 19    | DHC8     | This child is over 5 & should not be in pre-school.  | Child aged 6. Remote island. No further information.   | DVAge2, DHC8b                                | No change  |
| 12003013 | 30    | MarStat  | Only one adult in household. Cannot be married and living with spouse.   | One adult in household. Amend to married and separated from husband/wife.  | MarStat                                      | MarStat=2 to MarStat=3   |
| 12003013 | 31    | MarStat  | Odd number of married partners. Check MarStat and LiveWith.  | One adult in household. Amend to married and separated from husband/wife.  | MarStat                                      | MarStat=2 to MarStat=3   |
| 13003020 | 47    | TAskRel  | A grand-parent is usually 30+ years older than their grand-child.  | Person 2 (aged 38) coded as 'other relative' to Persons 1 (aged 46) and 4 (aged 14), and as grand-child of Person 3 (aged 88). Interviewer note at DRH4 says niece pays towards rent. Person 2: niece of Person 1, grand-child of Person 3 and cousin of Person 4. | DVAge, DVAge2, DVAge3, DVAge4, R11, R22, R32 | No change.   |
| 12003013 | 60    | HRPPart  | HRP is coded as married and living with spouse, but then coded as having no partner.                                   | One adult in household. Amend to married and separated from husband/wife.  | MarStat                                      | MarStat=2 to MarStat=3   |
| 12003013 | 62    | Keyhhpt  | Information in the household grid suggests the key householder does have a spouse/partner.                             | One adult in household. Amend to married and separated from husband/wife.  | MarStat                                      | MarStat=2 to MarStat=3   |
| 12003013 | 71    | RFrom    | Recorded as Married but no spouse in relationship grid.  | One adult in household. Amend to married and separated from husband/wife.  | MarStat                                      | MarStat=2 to MarStat=3   |
| 24006012 | 74    | DHC14    | Number of people in home is equal to or less than the number of people in household but there are others living there. | Number of people in home is 3 (respondent, partner and daughter). No rooms shared, total number of people living in home still 3. Amend DHC12 to no-one else living in home.   | R11, R21, R22, DHC12, DHC13, DHC14           | DHC12=1 to DHC12=2   |
| 19007019 | 79    | DT13     | Cannot be rent-free if landlord is local council or housing association. Amend.  | Recorded as living rent-free but rents from local council. Interviewer Note: Income Support rent is £50 pcm but does not pay. Amend to renting.  | DT13, DT21, DRH2a                            | DT13=3 to DT13=2, DT21x=3, DRH2a=2 to DRH2a=1, DRH2=50, DRH3=5, DRH4=1, DRH5=1, DRH6a=2, DRH8=5, DRH9=3, HBen=1, AmtHB=50, PerHB=5 |
| 24006011 | 80    | DT13     | If respondent has mortgage please code as Own.   | Part of co-ownership scheme. No mortgage recorded. Rents from Housing Association.   | DT13, DT21                                   | No change.   |

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| CaseID   | Check | Variable | Query/ Error  | Information/ case checked  | Variables checked  | Decision made                |
|----------|-------|----------|---|--|--|------------------------------|
| 24006008 | 87    | DT37     | Recorded that property bought from the local council but NOT that property previously owned by Council. | Bought from Housing Association. House was previously owned by local council.  | DT35, DT37   | No change.                   |
| 21007016 | 89    | DT39Y    | Respondent started owning this property before they were 16 years old.                                  | Household first owned property in 1966 but respondent (owner) born in 1957. Respondent owns the farm with another person outside the household.  | DT15, DT39_2, DVAge  | No change.                   |
| 24008009 | 103   | DT60     | Coded never lived anywhere else but DT39y suggests otherwise.   | Inherited from family.   | DT35, DT39_2, DT60   | No change                    |
| 28003008 | 113   | DPF4     | Detached house and already live in it is coded but does not match type of house coded earlier.          | Semi-detached house. Preferred house type is detached then say that they already live in it. Amend DF4 to Don't know.  | DF1, DF4, HseType, DwellTyp  | DF4=7 to DF4=DK              |
| 22008019 | 117   | DPF4     | Preferred accomodation is a flat and already live in it but does not match type of house coded earlier. | Purpose built flat. State end of terrace at HseType but flat at DwellTyp. Checked photos. Amend to purpose built flat.   | HseType, DF1, DF4, DwellTyp  | Accom=1 to Accom=2, FitTyp=1 |
| 15003001 | 121   | DPF9     | At least one person under the age of 16 is moving out.  | Children aged 17 and 13 years want to move out.  | DVAge3, DVAge4   | No change.                   |
| 21007012 | 121   | DPF9     | At least one person under the age of 16 is moving out.  | Daughter lives with parents and has 2 children aged 7 and 4. All three want to move out.   | DF9b_3a, DF9b_4a, DF9b_5a, DVAge3, DVAge4, DVAge5                    | No change.                   |
| 21007012 | 122   | DPF9     | At least one person under the age of 16 is moving out.  | Daughter lives with parents and has 2 children aged 7 and 4. All three want to move out.   | DF9b_3a, DF9b_4a, DF9b_5a, DVAge3, DVAge4, DVAge5                    | No change.                   |
| 9003033  | 203   | DR19     | Range check. Total annual spend on repairs was less than 50.  | £40 spent and no jobs done. Responsible for everything. Property in average condition. No jobs need doing.   | DR19, DR2_35, DR17_5, DR23, DR20                                     | No change.                   |
| 14007016 | 203   | DR19     | Range check. Total annual spend on repairs was less than 50.  | Nothing spent and no jobs done. Responsible for inside flat and gardens. Property in average condition. Rendering needs replacing.   | DR19, DR2_35, DR17_1, DR17_3, DR23, DR20b_28                         | No change.                   |
| 21007016 | 203   | DR19     | Range check. Total annual spend on repairs was less than 50.  | £12 spent and no jobs done. Responsible for everything. Property in average condition. No jobs need doing.   | DR2_35, DR17_4, DR19, DR20, DR23                                     | No change.                   |
| 23006019 | 203   | DR19     | Range check. Total annual spend on repairs was less than 50.  | Nothing spent. Landlord paid to refurbish bathroom, foundations/ structural work, rewire property and install entry phone system. Responsible for inside and outside of flat. Property in average condition. Kitchen refitting needed. | DR19, DR2a_4, DR2a_6, DR2a_9, DR2a_31, DR17_1, DR17_2, DR20b_3, DR23 | No change.                   |

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| CaseID   | Check | Variable | Query/ Error  | Information/ case checked   | Variables checked   | Decision made              |
|----------|-------|----------|---|---|---|----------------------------|
| 25006010 | 203   | DR19     | Range check. Total annual spend on repairs was less than 50.                | Nothing spent and no jobs done. Responsible for inside the flat. Floor joists need to be repaired.  | DR19, DR2_35, DR20b_12, DR17_1  | No change.                 |
| 24008009 | 203   | DR19     | Range check. Total annual spend on repairs was less than 50.                | Nothing spent and no jobs done. Responsible for everything. Property in average condition. Area of flat roof needs replacing.   | DR2_35, DR17_5, DR19, DR20b_24, DR23  | No change                  |
| 13003030 | 204   | DR19     | Range check. Total annual spend on repairs was greater than 8,000.          | £10,000. Spent £5,000 refurbishing bathroom. Work done by contractor. Spent £300 replacing drives/paths and £625 re-building chimney. Work done by household member. Repairs total £5,925.  | DR19, DR5xd, DR9xd, DR5xh, DR9xh, DR5xaa, DR9xaa  | No change.                 |
| 14007027 | 204   | DR19     | Range check. Total annual spend on repairs was greater than 8,000.          | £20,300. Spent £20,000 building conservatory/porch and £300 painting windows. Work done by contractor. Repairs total £20,300.   | DR19, DR5xa, DR9xa, DR5xn, DR9xn  | No change.                 |
| 20007016 | 204   | DR19     | Range check. Total annual spend on repairs was greater than 8,000.          | £8,700. Spent £8,000 refitting kitchen, replastering wall/ceiling, windows double glazed and new door/frame UPVC. Spent £700 replacing large roof area. Work done by contractor. Repairs total £8,700.  | DR19, DR3b_3, DR3b_11, DR3b_16, DR3b_17, DR5a, DR9a, DR5xy, DR9xy                                       | No change.                 |
| 22007003 | 204   | DR19     | Range check. Total annual spend on repairs was greater than 8,000.          | £10,000. Spent £10,000 refitting kitchen, refurbishing bathroom and rewiring dwelling. Work done by unpaid friend/relative.   | DR19, DR3b_3, DR3b_4, DR3_9, DR4a_1, DR5a, DR9a   | No change.                 |
| 24007003 | 204   | DR19     | Range check. Total annual spend on repairs was greater than 8,000.          | £10,000. Spent £5,000 refitting kitchen, £1,500 on refurbishing bathroom, £7,000 on windows double glazed and new door/ frame UPVC. Work done by contractor. Spent £1,200 on stairs/staircases. Work done by paid relative/friend. Repairs total £14,700.   | DR19, DR5xc, DR9xc, DR5xd, DR9xd, DR3b_16, DR3b_17, DR5a, DR9a  | DR19=10,000 to DR19=14,700 |
| 27004017 | 204   | DR19     | Range check. Total annual spend on repairs was greater than 8,000.          | £15,000. Spent £1,500 on foundations/structural work and painting outside of windows, £800 refitting kitchen, £1,500 on additional bathroom/wc, £1,500 replacing drives and paths, £5,000 installing central heating. Work done by paid relative/friend. Spent £5,000 refurbishing bathroom. Work done by hh member/DIY. Repairs total = £15,300. | DR19, DR3b_6, DR3b_14, DR5a, DR9a, DR5xc, DR9xc, DR5xd, DR9xd, DR5xe, DR9xe, DR5xh, DR9xh, DR5xs, DR9xs | No change                  |
| 13003041 | 205   | DR3a     | Some repair costs grouped together. Manual range check on figures required. | £700 spent on converting loft and installing loft insulation. Work done by household member. Within required range of £126.75 and £15,825.  | DR3b_2, DR3b_22, DR5a, DR9a   | No change.                 |
| 15003027 | 205   | DR3a     | Some repair costs grouped together. Manual range check on figures required. | £46,000 spent on building conservatory/porch, refitting kitchen, refurbishing bathroom and replacing central heating. Work done by contractor. Within required range of £3,300 and £46,100.   | DR3b_1, DR3b_3, DR3b_4, DR3b_21, DR5a, DR9a   | No change.                 |
| 19007025 | 205   | DR3a     | Some repair costs grouped together. Manual range check on figures required. | £3,000 spent on refitting kitchen, rewiring property and replastering walls/ceilings. Work done by household member. Within required range of £370 to £12,100.  | DR3b_3, DR3b_9, DR3b_11, DR5a, DR9a   | No change.                 |

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| CaseID   | Check | Variable | Query/ Error  | Information/ case checked  | Variables checked  | Decision made               |
|----------|-------|----------|---|--|--|-----------------------------|
| 13003002 | 206   | DR19     | Total spent on repairs is less than the individual cost of repairs minus any grants received. | £5,500. Spent £5,500 replacing drives/paths. £900 rewiring dwelling, £100 replastering wall/ceiling, £350 replacing windows with double-glazed, £4,000 installing central heating system and £100 installing loft insulation. Repairs total £10,950. Amend to £10,950. | DR19, DR5xh, DR5xi, DR5xk, DR5xp, DR5xs, DR5xw               | DR19=5,500 to DR19=10,950   |
| 14007031 | 206   | DR19     | Total spent on repairs is less than the individual cost of repairs minus any grants received. | £2,000. Spent £1,200 on refitting kitchen, £50 replacing floor joists, £1,400 installing gas fire and £90 on replacing roof covering. Repairs total £2,740. Amend DR19 to £2,740.  | DR19, DR5xc, DR9xc, DR5xl, DR9xl, DR5xt, DR9xt, DR5xy, DR9xy | DR19=2,000 to DR19=2,740    |
| 19006016 | 206   | DR19     | Total spent on repairs is less than the individual cost of repairs minus any grants received. | £4,000. Spent £40,000 to install gas fires. Amend DR5xt to £4,000.   | DR19, DR5xt  | DR5xt=40,000 to DR5xt=4,000 |
| 23006002 | 250   | DR5      | Range check. Repair below lower range.  | £500 for work to foundations/ structural work. Work done by contractor.  | DR5xf, DR9xf   | No change.                  |
| 23007012 | 250   | DR5      | Range check. Repair below lower range.  | £50 for work to drives/paths. Work done by contractor.   | DR5xh, DR9xh   | No change.                  |
| 30004015 | 250   | DR5      | Range check. Repair below lower range.  | £300 to rewire dwelling. Work done by contractor. Interviewer note: not completely rewired but a lot of it done in last year.  | DR5xi, DR9xi   | No change                   |
| 19006016 | 300   | DR5      | Range check. Repair above higher range.   | £40,000 for installing gas fires. Work done by contractor. Amend to £4,000.  | DR5xt, DR9xt   | DR5xt=40,000 to DR5xt=4,000 |
| 23007025 | 300   | DR5      | Range check. Repair above higher range.   | £6,500 for installing central heating. Work done by contractor.  | DR5xs, DR9xs   | No change.                  |
| 24007009 | 350   | DR7      | Grant exceeds cost of repair.   | Grant = £7,000. Spent £1,000 replacing central heating. Interviewer note: included in a grant from OIPDL - Orkney Islands Property Development Ltd - also given help to purchase house - cannot break down amount. Amend grant to £1,000.                              | DR5xu, DR7xu   | DR7xu=7,000 to DR7xu=1,000  |
| 24006003 | 353   | DHT1     | No kitchen at this address.   | Interviewer note: flat is actually a bedsit with living/bedroom incorporating kitchen as well.   | DH1_2, DH1_3   | No change.                  |
| 25007005 | 355   | DHT1     | No bedroom at this address.   | Interviewer note: No bedroom - bed in living room.   | DH1_3, DH1_5   | No change.                  |
| 10007006 | 371   | DHT6b    | Less than 10 entered.   | Electricity & gas: £5 pw = £260 pa by pre-payment meter/powercard. 2 bedroom semi-detached bungalow. No difficulty heating home.   | DH6a, DH7a, DH8a, DH1_6, HseType, DH14_16                    | No change.                  |
| 21007008 | 371   | DHT6b    | Less than 10 entered.   | Electricity & gas: £1 pa. Interviewer note: zero cost here as cost in with the rent. Amend to Don't Know.  | DH6a, DH5_1, DH5_2, DH6aa                                    | DH6a=1 to DH6a=5            |
| 10007006 | 379   | DHT6b    | Bill for fuels paid together is less than 300 per year.                                       | Electricity & gas: £5 pw = £260 pa by pre-payment meter/powercard. 2 bedroom semi-detached bungalow. No difficulty heating home.   | DH6a, DH7a, DH8a, DH1_6, HseType, DH14_16                    | No change.                  |
| 14007031 | 379   | DHT6b    | Bill for fuels paid together is less than 300 per year.                                       | Electricity & gas: £23 pcm = £276 pa by direct debit. 1 bedroom flat in purpose built block.   | DH6a, DH7a, DH8a, DH1_5, FitTyp                              | No change.                  |

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| CaseID   | Check | Variable | Query/ Error  | Information/ case checked  | Variables checked  | Decision made        |
|----------|-------|----------|---|--|--|----------------------|
| 19006018 | 379   | DHT6b    | Bill for fuels paid together is less than 300 per year.   | Electricity & gas: £68 pa by direct debit. 3 or more bedroom semi-detached house. Interviewer note: same payment every month through out year.   | DH5_1, DH5_2, DH6a, DH7a, DH8a, DH1_7, HseType                                     | DH7a=1 to DH7a=5     |
| 21007008 | 379   | DHT6b    | Bill for fuels paid together is less than 300 per year.   | Electricity & gas: £1 pa. Interviewer note: zero cost here as cost in with the rent. Amend to Don't Know.  | DH6a, DH5_1, DH5_2, DH6a   | DH6a=1 to DH6a=5     |
| 13003014 | 380   | DHT6b    | Bill for fuels paid together is more than 1358 per year.  | Electricity & gas: £1,400 pa by direct debit. 3 or more bedroom detached bungalow. Uses central heating with radiators. Rooms heated for 20 to 23 hours per day.   | DH6a, DH7a, DH8a, DH1_7, HseType, DH2, DH3a-h, Dh4a-h                              | No change.           |
| 8004005  | 380   | DHT6b    | Bill for fuels paid together is more than 1358 per year.  | Electricity and gas: £260pcm = £3,120pa by direct debit. 3 or more bedroom detached house. Uses central heating with radiators. Rooms heated for 17-19 hours per day.                                    | DH6a, DH7a, DH8a, DH1_7, HseType, DH2, DH3a-j, DH4a-j                              | No change            |
| 9004031  | 380   | DHT6b    | Bill for fuels paid together is more than 1358 per year.  | Electricity and gas: £1,800pa by cash/cheque. Also has solid fuel £250pa. 3 or more bedroom semi-detached house. Uses central heating with radiators. Some difficulty heating home.                      | HseType, DH1_7, DH6a, DH7a, DH8a, DH6xd, DH7xd, DH8xd, DH2, DH14_12, DH14_17       | No change            |
| 21006016 | 401   | DHT6b    | Less than 10 entered.                                     | Heating oil: £1 every 3 months = £4 pa by cash/cheque. Also has electricity £1,320 pa. 2 bedroom house. Interviewer note: Newly installed, no records so far. Amend cost of heating oil to don't know.   | DH6xc, DH7xc, DH8xc, DH6xa, DH7xa, DH8xa, DH1_6, HseType, DH6axc                   | DH6axc=1 to DH6axc=5 |
| 27002007 | 401   | DHT6b    | Less than 10 entered.                                     | Solid fuel: £1 per quarter = £4 pa. Also has electricity £1,200 pa and bottled gas £20 pa. 2 bedroom detached house.   | DH6xd, DH7xd, DH8xd, DH6xa, DH7xa, DH8xa, DH6xe, DH7xe, DH8xe, DH1_6, HseType      | No change.           |
| 27002004 | 402   | DHT6b    | Less than 10 entered.                                     | Bottled gas: £7 pcm = £84 pa by cash/ cheque. Also has electricity £572 pa and heating oil £600 pa. 3 or more bedroom detached house.  | DH6xa, DH7xa, DH8xa, DH6xc, DH7xc, DH8xc, DH6xe, DH7xe, DH8xe, DH1_7, HseType      | No change.           |
| 21007013 | 408   | DHT6b    | Range check. Cost of electricity is less than 160 a year. | Electricity: £36 per quarter = £144 pa by cash/cheque. Sole fuel. 1 bedroom flat. No difficulty heating home.  | DH6xa, DH7xa, DH8xa, DH5_1, DH1_5, FltTyp, DH14_16                                 | No change            |
| 8008013  | 408   | DHT6b    | Range check. Cost of electricity is less than 160 a year. | Electricity: £9 every four weeks = £117 per year by direct debit. Also has gas £496 pa. 2 bedroom flat. No difficulty heating home. Uses central heating with radiators. Some rooms heated for 24 hours. | DH6xa, DH7xa, DH8xa, DH5_1, DH1_6, FltTyp, DH14_16, DH2, DH3c-f, DH3c-f            | No change            |
| 27004001 | 408   | DHT6b    | Range check. Cost of electricity is less than 160 a year. | Electricity: £90pa by direct debit. Sole fuel. 2 bedroom flat. Uses electric storage heaters. Rooms heated for 24 hours per day. Amend to £90 per quarter.   | DH6xa, DH7xa, DH8xa, DH5_1, DH2, DH3a-f, DH4a-f, DH1_6, FltTyp                     | DH7xa=1 to DH7xa=3   |
| 25008014 | 415   | DHT6b    | Range check. Solid fuel less than 40 per year.            | Solid fuel: £20pa by cash/ cheque. Also has electricity £340pa and heating oil £360pa. 2 bedroom semi-detached house. Uses central heating with radiators.   | DH6xa, DH7xa, DH8xa, DH6xc, DH7xc, DH8xc, DH6xd, DH7xd, DH8xd, DH1_6, HseType, DH2 | No change            |
| 18008013 | 415   | DHT6b    | Range check. Solid fuel less than 40 per year.            | Solid fuel: free. Also has electricity £320pa and heating oil £560pa. 3 or more bedroom detached house. Uses central heating with radiators.   | DH6xa, DH7xa, DH8xa, DH6xc, DH7xc, DH8xc, DH6xd, DH7xd, DH8xd, DH1_7, HseType, DH2 | No change            |

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|----------|-------|----------|--|---|--|----------------------|
| 23006027 | 416   | DHT6b    | Range check. Cost of electricity is more than 1200 a year. | Electricity: £25 pw = £1,300 pa by pre-payment meter/powercard. Sole fuel. 1 bedroom terraced house. Uses plug in electric fire/ heater.  | DH6xa, DH7xa, DH8xa, DH5_1, DH1_5, HseType, DH2  | No change.           |
| 24006010 | 416   | DHT6b    | Range check. Cost of electricity is more than 1200 a year. | Electricity: £25 pw = £1,300 pa by pre-payment meter/powercard. Sole fuel. 2 bedroom terraced house. Uses electric storage heaters. Rooms heated for 24 hours per day.                                      | DH6xa, DH7xa, DH8xa, DH5_1, DH1_6, HseType, DH2, DH3b-f, DH4b-f                                    | No change.           |
| 9004010  | 416   | DHT6b    | Range check. Cost of electricity is more than 1200 a year. | Electricity: £25pw = £1,300pa by pre-payment meter/powercard. Sole fuel. 1 bedroom flat in purpose-built block. Uses electric panel heating.  | DH6xa, DH7xa, DH8xa, FitTyp, DH1_5, DH2, DH5_1   | No change            |
| 9004020  | 416   | DHT6b    | Range check. Cost of electricity is more than 1200 a year. | Electricity: £30pw = £1,560pa by pre-payment meter/powercard. Sole fuel. 2 bedroom flat in purpose-built block. Uses central heating with radiators. Some rooms heated for 24 hours.                        | DH6xa, DH7xa, DH8xa, FitTyp, DH1_6, DH2, DH3c-f, DH3c-f  | No change            |
| 29004018 | 425   | DHT6b    | Range check. Electricity less than 160 per year.           | Electricity: £50 per 6 months = £100pa by direct debit. Also has gas £400pa. 3 or more bedroom flat. Uses central heating with radiators.   | DH6xa, DH7xa, DH8xa, DH6xb, DH7xb, DH8xb, FitTyp, DH1_7, DH2                                       | No change            |
| 27004005 | 425   | DHT6b    | Range check. Electricity less than 160 per year.           | Electricity: £24 per quarter = £96pa by cash/cheque. Also has bottled gas but amount unknown. 3 or more bedroom semi-detached house. Uses electric storage heaters. No difficulty heating home.             | HseType, DH1_7, DH2, DH6xa, DH7xa, DH8xa, DH6xe, DH7xe, DH8xe, DH14_16                             | DH6axe=1 to DH6axe=5 |
| 25006012 | 427   | DHT6b    | Range check. Gas less than 168 per year.                   | Gas: £28 per quarter = £112 pa by quantum/ paypoint. Also has electricity £496 pa. 3 or more bedroom semi-detached house. Uses central heating with radiators. Some rooms heated for 24 hours.              | DH6xb, DH7xb, DH8xb, DH6xa, DH7xa, DH8xa, DH1_7, HseType, DH2, DH3c-f, DH3c-f                      | No change.           |
| 9004010  | 427   | DHT6b    | Range check. Gas less than 168 per year.                   | Gas: £25pw = £1,300pa by direct debit. Sole fuel. 1 bedroom flat in purpose-built block. Uses electric panel heating.   | DH6xb, DH7xb, DH8xb, FitTyp, DH1_5, DH2, DH5_1   | No change            |
| 29004001 | 427   | DHT6b    | Range check. Gas less than 168 per year.                   | Gas: £6pcm = £72pa by prepayment meter/powercard. Also has electricity £300pa. 3 or more bedroom purpose built flat. Uses central heating with radiators. Rooms heated for 24 hours per day. Amend to £6pw. | FitTyp, DH1_7, DH2, DH6xa, DH7xa, DH8xa, DH6xb, DH7xb, DH8xb, DH3a-g, DH4a-g                       | DH7xb=5 to DH7xb=9   |
| 30002062 | 429   | DHT6b    | Range check. Oil less than 300 per year.                   | Heating oil: £170 pa by direct debit. Also has electricity £252 pa and solid fuel £364 pa. 2 bedroom house. Uses central heating with radiators. Rooms heated for 1 to 3 hours per day.                     | DH6xc, DH7xc, DH8xc, DH6xa, DH7xa, DH8xa, DH6xd, DH7xd, DH8xd, DH1_6, HseType, DH2, DH3b-f, DH4b-f | No change.           |
| 27004012 | 429   | DHT6b    | Range check. Oil less than 300 per year.                   | Oil: amount unknown. Interviewer note: doesn't know yet as sys just installed. Also has electricity £600pa. 3 or more bedroom detached house. Uses central heating with radiators.                          | DH6xa, DH7xa, DH8xa, DH6xc, DH7xc, DH8xc, HseType, DH1_7, DH2                                      | DH6axc=1 to DH6axc=5 |
| 27004005 | 436   | DHT6b    | Range check. Bottled Gas less than 15 per year.            | Bottled gas: amount unknown. Also has electricity £96pa. 3 or more bedroom semi-detached house. Uses electric storage heaters. No difficulty heating home.  | DH6xa, DH7xa, DH8xa, DH6xe, DH7xe, DH8xe, HseType, DH1_7, DH2, DH14_16                             | DH6axe=1 to DH6axe=5 |

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|----------|-------|-----------|--|--|---|----------------------|
| 30002054 | 443   | DHT6b     | Range check. Liquid Propane Gas less than 43 per year.           | Liquid propane gas: £1 pcm = £12 pa by cash/ cheque. Also has electricity £360 pa, heating oil £1,500 pa and solid fuel £260 pa. 3 or more bedroom detached house. Uses central heating with radiators. Rooms heated for 20 to 23 hours per day. | DH6xa, DH7xa, DH8xa, DH6xc, DH7xc, DH8xc, DH6xd, DH7xd, DH8xd, DH6xh, DH7xh, DH8xh, DH1_7, HseType, DH3a-g, DH4a-g, DH2 | No change.           |
| 27002006 | 446   | DHT6b     | Range check. Electricity more than 1200 per year.                | Electricity: £130 pcm = £1,560 pa by direct debit. Also has solid fuel - free as respondent prepares. 3 or more bedroom detached house. Uses electric storage heaters.   | DH6xa, DH7xa, DH8xa, DH6xd, DH7xd, DH8xd, DH1_7, HseType, DH2   | No change.           |
| 24007001 | 446   | DHT6b     | Range check. Electricity more than 1200 per year.                | Electricity: £30 pw = £1,560 pa by key/powercard. Also has solid fuel £1,560 pa. 3 bedroom flat. Uses central heating with radiators. Heating on 24 hours in all rooms.  | DH6axa, DH7xa, DH8xa, DH6axd, DH7xd, DH8xd, DH1_7, DH2, Accom, FltTyp, DH3a-f, DH4a-f                                   | No change.           |
| 13003020 | 448   | DHT6b     | Range check. Gas more than 936 per year.                         | Gas: £20 pw = £1,040 pa by quantum/paypoint. Also has electricity £780 pa. 3 or more bedroom semi-detached house. Uses central heating with radiators.   | DH6xb, DH7xb, DH8xb, DH6xa, DH7xa, DH8xa, DH1_7, HseType, DH2   | No change.           |
| 13003042 | 448   | DHT6b     | Range check. Gas more than 936 per year.                         | Gas: £20 pw = £1,040 pa by pre-payment meter/powercard. Also has electricity £1,040 pa. 3 or more bedroom semi-detached house. Uses central heating with radiators. Rooms heated for 24 hours per day.   | DH6xb, DH7xb, DH8xb, DH6xa, DH7xa, DH8xa, DH1_7, HseType, DH2, DH3a-g, DH4a-g   | No change.           |
| 28002005 | 448   | DHT6b     | Range check. Gas more than 936 per year.                         | Gas: £95 pcm = £1,140 pa by direct debit. Also has electricity £600 pa. 3 or more bedroom flat. Uses central heating with radiators.   | DH6xb, DH7xb, DH8xb, DH6xa, DH7xa, DH8xa, DH1_7, FltTyp, DH2  | No change.           |
| 21007014 | 448   | DHT6b.Bmt | Range check. Gas more than 936 per year.                         | Gas: £850 pw = £44,200 pa by pre-payment meter/powercard. Also has electricity £416 pa. Amend to £9 (£8.50) pw.  | DH6xa, DH7xa, DH8xa, DH6xb, DH7xb, DH8xb  | DH6xb=850 to DH6xb=9 |
| 12003003 | 453   | DHT6b     | Range check. Solid fuel more than 1248 per year.                 | Solid fuel: £32 pw = £1,664 pa by cash/cheque. Also has electricity £360 pa. 3 or more bedroom terraced house. Uses solid fuel - open/enclosed grate. Rooms heated for 24 hours per day.   | DH6xa, DH7xa, DH8xa, DH6xd, DH7xd, DH8xd, DH1_7, HseType, DH2, DH3a-g, DH4a-g   | No change.           |
| 27004013 | 453   | DHT6b     | Range check. Solid fuel more than 1248 per year.                 | Solid fuel: £42pw = £2,184pa by cash/cheque. Also has electricity £1,200pa. 2 bedroom detached house. Uses electric storage heaters.   | DH6xa, DH7xa, DH8xa, DH6xd, DH7xd, DH8xd, HseType, DH1_6, DH2   | No change            |
| 27004015 | 467   | DHT6b     | Enter amount given at DHT6a but no amount given at DHT6b. Amend. | Electricity: amount unknown.   | DH6xa, DH6axa   | DH6axa=1 to DH6axa=5 |
| 17008036 | 467   | DHT6b     | Enter amount given at DHT6a but no amount given at DHT6b. Amend. | Heating oil: amount unknown. Interviewer note: doesn't know yet as system just installed.  | DH6xc, DH6axc   | DH6axc=1 to DH6axc=5 |
| 27004005 | 467   | DHT6b     | Enter amount given at DHT6a but no amount given at DHT6b. Amend. | Bottled gas: amount unknown. Interviewer note: doesn't use it much now so not changed.   | DH6axe, DH6xe   | DH6axe=1 to DH6axe=5 |
| 25006015 | 483   | DCC8b     | Adaptation selected that already has.                            | Handrails already in home but are also required. Interviewer note: needed at front of house.   | DC8a_7, DC8b_7  | No change.           |

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| CaseID   | Check | Variable | Query/ Error  | Information/ case checked  | Variables checked                                   | Decision made                            |
|----------|-------|----------|---|--|---|--|
| 28003001 | 502   | DHE12    | Age of most recent asthma attack is greater than respondents current age. | Aged 56. 57 years old when last had asthma attack. Amend DHE12 to 56.  | DHE12, Dvage  | DHE12=57 to DHE12=56                     |
| 24007015 | 504   | DHE12    | Age is not within 12 months of the age of respondent.                     | Aged 44. 42 years old when had last asthma attack. Amend to no asthma attack within the last 12 months.  | Dvage, DHE10, DHE11, DHE12                          | DHE10=1 to DHE10=2                       |
| 27003017 | 509   | Stat     | Recorded as self-employed earlier. Inconsistent.                          | Respondent and spouse recorded as self-employed at DHC8. Respondent coded as employee at Stat and DIN3a. Spouse coded as employed at DIN38. Amend DHC8a and DHC8b to employed. | DHC8a, DHC8b, DIN3a, DIN38, Stat                    | DHC8a=1 to DHC8a=2, DHC8b=1 to DHC8b=2   |
| 27004012 | 509   | Stat     | Recorded as self-employed earlier. Inconsistent.                          | Self-employed at DHC8a then employed at Stat and DIN3. Off-shore fisherman. Amend DHC8a to employed.   | DHC8a, Stat, DIN3                                   | DHC8a=1 to DHC8a=2                       |
| 13003033 | 511   | Stat     | Recorded as part-time employee earlier. Inconsistent.                     | Works part-time but self-employed.   | Stat, FtPtWk, DHC8b                                 | DHC8b=3 to DHC8b=1                       |
| 25008014 | 512   | FtPtWk   | Recorded as being in full-time employment earlier. Inconsistent.          | Works part-time in 2 jobs 26 hours pw and 1 hour pw. Amend to part-time.   | DHC8b, DIN35, DIN36, DIN42, DIN65, FtPtWk, Totus1   | DHC8b=2 to DHC8b=3                       |
| 27004001 | 512   | FtPtWk   | Recorded as being in full-time employment earlier. Inconsistent.          | Has 2 part-time jobs. 18.5 hours pw and 16 hours pw. Total = 34.5 hours pw.  | FtPtWk, DHC8a, DIN36, DIN42, DIN65                  | No change                                |
| 22006003 | 518   | DVUSHr   | KeyHH coded as working part-time but work more than 30 hours.             | Works part-time. Works 30 hours pw plus 4 hours overtime. Amend DHC8a and FtPtWk to full-time (working 30 or more hours pw).   | DHC8a, FtPtWk, DIN1, DIN4, DIN5, DIN7, Usuhr, UOtHr | DHC8a=3 to DHC8a=2, FtPtWk=2 to FtPtWk=1 |
| 27004001 | 519   | DVUSHr   | KeyHH coded as working full-time but work less than 30 hours.             | Has 2 part-time jobs. 18.5 hours pw and 16 hours pw. Total = 34.5 hours pw.  | FtPtWk, DHC8a, DIN36, DIN42, DIN65                  | No change                                |
| 29004017 | 519   | DVUSHr   | KeyHH coded as working full-time but work less than 30 hours.             | Works 28 hours pw. Amend to working part-time.   | DHC8a, DIN1, DIN7, Usuhr, FtPtWk                    | FtPtWk=1 to FtPtWk=2                     |
| 25008014 | 519   | DVUSHr   | KeyHH coded as working full-time but work less than 30 hours.             | Works part-time in 2 jobs. 26 hours pw and 1 hour pw. Amend to part-time.  | DHC8b, DIN35, DIN36, DIN42, DIN65, FtPtWk, Totus1   | DHC8b=2 to DHC8b=3                       |
| 24008011 | 520   | UsuHr    | Overtime hours equal or exceed basic hours.                               | Interviewer note: Seasonal work overtime hours exceed usual working hours.   | Wrking, FtPtWk, UsuHr, PotHr                        | No change                                |
| 24006020 | 522   | SEmpSTY  | Starting self-employed business when less than 16 seems a bit young.      | Started in 1961. Born in 1946 so aged 16 years. Interviewer note: startedworkingself employed in family business.  | SEmpStY, Birth2                                     | No change.                               |
| 27002014 | 522   | SEmpSTY  | Starting self-employed business when less than 16 seems a bit young.      | Started in 1955. Born in 1939 so aged 16 years.  | SEmpStY, Birth                                      | No change.                               |

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|----------|-------|----------|--|--|---|-----------------------------|
| 30004004 | 530   | DOH15    | borrowed more for property than they did in total.                               | £12,000. Borrowed £1,000 in total and £1,000 for repairs. Amend loan to £13,000.   | DOH13, DOH14, DOH15, DOH16                  | DOH14=1,000 to DOH14=13,000 |
| 19006015 | 532   | DOH14a   | Borrowed more for property and repairs than did in total.                        | Borrowed £21,000: £6,000 for property purchase and £500 for repairs. Interviewer note: includes additional £14,000 borrowed approx 1990.             | DOH14, DOH15, DOH16, DT39_2                 | No change.                  |
| 27004013 | 532   | DOH14a   | borrowed more for property and repairs than did in total.                        | £100. Borrowed £100 for purchase and £100 for repairs. Interviewer note: for building house. Amend DOH13 to borrowing money for building house/flat. | DOH13, DOH14, DOH15, DOH16                  | DOH13=2 to DOH13=1          |
| 30004004 | 532   | DOH14a   | borrowed more for property and repairs than did in total.                        | £1,000. Borrowed £1,000 for repairs and £12,000 to purchase property. Amend loan to £13,000  | DOH13, DOH14, DOH15, DOH16                  | DOH14=1,000 to DOH14=13,000 |
| 24006007 | 534   | DOH20    | Has had current mortgage for less than 5 years but has less than 5 years to run. | Borrowed £24,000 in 1992. Property cost £44,000. No further information.   | DOH17, DT39_2, DOH9                         | No change.                  |
| 28004012 | 536   | DOH22    | Monthly mortgage of more than 1,500.   | Interest only endowment mortgage. Loan £40,000. Endowment £80. Borrowed £16,500 in 1980. Less than 5 years to run. Amend DOH22 to don't know.        | DT39_2, DOH17, DOH19_3, DOH21, DOH22        | DOH22=40,000 to DOH22=DK    |
| 24006013 | 537   | DOH24    | Total monthly loan and endowment payment of less than 100.                       | Interest only endowment mortgage. Loan: £54 pcm. Endowment: £33 pcm. Borrowed £11,500 in 1993. 10-15 years left to run.                              | DOH19_3, DOH22, DOH24, DOH17, DT39_2, DOH21 | No change.                  |
| 10007009 | 539   | DOH6     | Range check. House price before discount less than or equal to 14,000.           | £12,000. Paid £12,000 after discount (% unknown). Amend price before discount to unknown.  | DOH6, DOH7, DOH8                            | DOH6=12,000 to DOH6=DK      |
| 20006003 | 539   | DOH6     | Range check. House price before discount less than or equal to 14,000.           | £13,000. Paid £8,000 after 30% discount.   | DOH6, DOH8, DOH7                            | No change.                  |
| 15003004 | 540   | DOH6     | Range check. House price before discount more than or equal to 50,000.           | £57,000 in 2004. 66% discount. £19,000 after discount. 3 or more bedroom semi-detached house.  | DOH6, DT39_2, DOH7, DOH8, DH1_7, HseType    | No change.                  |
| 15003022 | 540   | DOH6     | Range check. House price before discount more than or equal to 50,000.           | £60,000 in 2001. 50% discount. £30,000 after discount. 3 or more bedroom detached house.   | DOH6, DT39_2, DOH7, DOH8, DH1_7, HseType    | No change.                  |
| 12003020 | 541   | DOH7     | Range check. Percentage discount less than or equal to 30 per cent.              | 30%. Original price £50,000. £35,000 after discount.   | DOH6, DOH7, DOH8                            | No change.                  |
| 20006003 | 541   | DOH7     | Range check. Percentage discount less than or equal to 30 per cent.              | 30%. Original price £13,000. £8,000 after discount.  | DOH7, DOH6, DOH8                            | No change.                  |

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|----------|-------|----------|--|--|---|-------------------------------|
| 23006033 | 542   | DOH7     | Range check. Percentage discount greater than or equal to 75 per cent. | 75%. Original price unknown. £12,000 after discount.   | DOH6, DOH7, DOH8  | No change.                    |
| 14007029 | 543   | DOH8     | Range check. House price after discount less than or equal to 7,000.   | £6,000 in 1984. 70% discount. Original price unknown. 2 bedroom flat in purpose built block.   | DOH8, DT39_2, DOH7, DH1_6, FitTyp, DOH6                     | No change.                    |
| 15003006 | 543   | DOH8     | Range check. House price after discount less than or equal to 7,000.   | £6,600 in 1984. 70% discount. Original price £22,000. 3 or more bedroom semi-detached house.   | DOH8, DT39_2, DOH7, DH1_7, HseType, DOH6                    | No change.                    |
| 12003020 | 544   | DOH8     | Range check. House price after discount more than or equal to 25,000.  | £35,000 in 1993. 30% discount. Original price £50,000. 3 or more bedroom semi-detached house.  | DOH6, DT39_2, DOH7, DOH8, DH1_7, HseType                    | No change.                    |
| 15003022 | 544   | DOH8     | Range check. House price after discount more than or equal to 25,000.  | £30,000 in 2001. 50% discount. Original price £60,000. 3 or more bedroom detached house.   | DOH6, DT39_2, DOH7, DOH8, DH1_7, HseType                    | No change.                    |
| 27004019 | 544   | DOH8     | Range check. House price after discount more than or equal to 25,000.  | £28,000 in 1996. 70% discount. Original price £40,000. 3 or more bedroom semi-detached house. Amend to 30% discount.   | DT39_2, DOH6, DOH7, DOH8, DH1_7, HseType                    | DOH7=70 to DOH7=30            |
| 14007008 | 545   | DOH9     | Range check. House price less than or equal to 5,000.                  | £1,200 in 1953. 2 bedroom flat in purpose built block. Borrowed £1,200 on mortgage. Now worth £120,000.  | DOH9, DT39_2, DH1_6, FitTyp, DOH17, DOH10                   | No change.                    |
| 19006016 | 545   | DOH9     | Range check. House price less than or equal to 5,000.                  | £3,550 in 1956. 3 or more bedroom flat in purpose built block. Borrowed £2,000 on mortgage. Now worth £200,000.  | DOH9, DT39_2, DH1_7, FitTyp, DOH10, DOH17                   | No change.                    |
| 27002004 | 545   | DOH9     | Range check. House price less than or equal to 5,000.                  | £50 in 1995. 3 or more bedroom detached house in Shetland Islands. Borrowed £35,000 on mortgage (£50 for purchase and £34,500 for repairs/improvements). Reviewed with ComScot.  | DOH9, DT39_2, DOH14, DOH15, DOH16, DH1_7, HseType           | No change.                    |
| 27003003 | 545   | DOH9     | Range check. House price less than or equal to 5,000.                  | £100 in 1960. 2 bedroom detached house. Bought with savings. Amount could now sell for unknown. Interviewer note: previously a croft she was tenant and bought it, yearly rent approx £4 x no of years tenant (s) had lived there. | DOH9, DOH10, DT39_2, DOH17, DOH11_11, DH1_7, Accom, HseType | No change.                    |
| 27004014 | 545   | DOH9     | Range check. House price less than or equal to 5,000.                  | £3,600 in 1966. Interviewer note: self build. 3 or more bedroom detached house. Now worth £100,000.  | DOH9, DOH10, DT39_2, DH1_7, HseType                         | No change.                    |
| 12003013 | 546   | DOH9     | Range check. House price more than or equal to 140,000.                | £249,999 in 2003. 3 or more bedroom semi-detached house. Borrowed £220,000 on mortgage. Could now sell for £26,500. Amend to £265,000.   | DOH9, DT39_2, DH1_7, HseType, DOH17, DOH10                  | DOH10=26,500 to DOH10=265,000 |
| 13003002 | 546   | DOH9     | Range check. House price more than or equal to 140,000.                | £160,150 in 2003. 3 or more bedroom semi-detached house. Borrowed £140,000 on mortgage. Amount could now sell for unknown.   | DOH9, DT39_2, DH1_7, HseType, DOH17, DOH10                  | No change.                    |

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|----------|-------|----------|---|---|---|-------------------------------|
| 13003033 | 546   | DOH9     | Range check. House price more than or equal to 140,000.                     | £142,000 in 2002. 3 or more bedroom detached house. Bought with sale of previous property. Could now sell for £185,000.   | DOH9, DT39_2, DH1_7, HseType, DOH11_10, DOH10               | No change.                    |
| 14007022 | 546   | DOH9     | Range check. House price more than or equal to 140,000.                     | £190,000 in 2003. 3 or more bedroom terraced house. Borrowed £100,000 on mortgage (£87,000 for property purchase) and used savings. Could now sell for £220,000.                      | DOH9, DT39_2, DH1_7, HseType, DOH14, DOH15, DOH11_11, DOH10 | No change.                    |
| 23007025 | 546   | DOH9     | Range check. House price more than or equal to 140,000.                     | £160,000 in 2002. 3 or more bedroom detached house. Borrowed £120,000 on mortgage. Could now sell for £250,000.   | DOH9, DT39_2, DH1_7, HseType, DOH17, DOH10                  | No change.                    |
| 12003013 | 547   | DOH10    | Range check. Amount could sell house for less than or equal to 35,000.      | £26,500. Cost £249,999 in 2003. 3 or more bedroom semi-detached house. Borrowed £220,000 on mortgage. Amend to £265,000.  | DOH10, DOH9, DT39_2, DH1_7, HseType, DOH17                  | DOH10=26,500 to DOH10=265,000 |
| 23006002 | 547   | DOH10    | Range check. Amount could sell house for less than or equal to 35,000.      | £35,000. Cost £11,000 after 50% discount in 1989. 2 bedroom flat in purpose-built block. Borrowed £13,000 on mortgage (£11,000 for purchase).   | DOH10, DH1_6, FltTyp, DOH8, DOH7, DT39_2, DOH14, DOH15      | No change.                    |
| 21007012 | 547   | DOH10    | Range check. Amount could sell house for less than or equal to 35,000.      | £35,000. Cost £14,700 in 1994. 2 bedroom terraced house. Borrowed £19,500 on mortgage.  | DOH9, DOH10, DT39_2, DOH17, DOH11_2, DH1_6, Accom, HseType  | No change.                    |
| 29004017 | 547   | DOH10    | Range check. Amount could sell house for less than or equal to 35,000.      | £4,500. 2 bedroom terraced house. Bought for £13,500 after discount in 1992. Borrowed £13,500 on mortgage. Amend to £45,000.  | HseType, DT39_2, DH1_6, DOH9, DOH10, DOH11, DOH17           | DOH10=4,500 to DOH10=45,000   |
| 13003001 | 548   | DOH10    | Range check. Amount could sell house for more than or equal to 250,000.     | £250,000. Cost £55,250 in 1987. 3 or more bedroom detached house.   | DOH10, DOH9, DT39_2, DH1_7, HseType                         | No change.                    |
| 23007025 | 548   | DOH10    | Range check. Amount could sell house for more than or equal to 250,000.     | £250,000. Cost £160,000 in 2002. 3 or more bedroom detached house.  | DOH9, DOH10, DT39_2, DH1_7, Accom, HseType                  | No change.                    |
| 24007019 | 548   | DOH10    | Range check. Amount could sell house for more than or equal to 250,000.     | £270,000. Inherited in 1983. 3 or more bedroom detached house. Interviewer note: includes farm land with house 300 plus acres.  | DOH10, DH1_7, HseType, DOH2, DT39_2                         | No change.                    |
| 18008003 | 549   | DOH14a   | Range check. Amount borrowed including repairs less than or equal to 9,000. | £5,000 (for repairs). Bought 3 or more bedroom terraced house for £19,000 in 1982. Interviewer note: confirmed with respondent money borrowed was to upgrade property - rewiring etc. | DOH14, DOH15, DOH16, DH1_7, HseType, DOH9, DT39_2           | No change                     |
| 27004013 | 549   | DOH14a   | Range check. Amount borrowed including repairs less than or equal to 9,000. | Borrowed £100 in total, £100 for purchase and £100 for repairs. Interviewer note: for building house. Amend DOH13 to borrowing money for building house/flat.                         | DOH13, DOH14, DOH15, DOH16                                  | DOH13=2 to DOH13=1            |
| 30004004 | 549   | DOH14a   | Range check. Amount borrowed including repairs less than or equal to 9,000. | £1,000. Borrowed £1,000 for repairs and £12,000 to purchase property. Amend loan to £13,000.  | DOH13, DOH14, DOH15, DOH16                                  | DOH14=1,000 to DOH14=13,000   |

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|----------|-------|----------|--|--|--|-----------------------------|
| 14007022 | 550   | DOH14a   | Range check. Amount borrowed including repairs more than or equal to 85,000. | £100,000. Borrowed £87,000 for property purchase and £13,000 for repairs. Bought 3 or more bedroom terraced house for £190,000 in 2003.  | DOH14, DOH15, DOH16, DH1_7, HseType, DOH9, DT39_2  | No change.                  |
| 27002004 | 551   | DOH15a   | Range check. Amount borrowed for purchase less than or equal to 6,210.       | £50. Borrowed £35,000 (£34,500 for repairs/improvements). Bought 3 or more bedroom detached house for £50 in 1995 (Shetland Islands). Reviewed with ComScot.   | DOH9, DT39_2, DOH14, DOH15, DOH16, DH1_7, HseType  | No change.                  |
| 27004013 | 551   | DOH15a   | Range check. Amount borrowed for purchase less than or equal to 6,210.       | Borrowed £100 in total, £100 for purchase and £100 for repairs. Interviewer note: for building house. Amend DOH13 to borrowing money for building house/flat.  | DOH13, DOH14, DOH15, DOH16                         | DOH13=2 to DOH13=1          |
| 14007022 | 552   | DOH15a   | Range check. Amount borrowed for purchase more than or equal to 55,000.      | £87,000. Borrowed £100,000 (£13,000 for repairs). Bought 3 or more bedroom terraced house for £190,000 in 2003.  | DOH14, DOH15, DOH16, DH1_7, HseType, DOH9, DT39_2  | No change.                  |
| 9003026  | 553   | DOH16a   | Range check. Amount borrowed for repairs less than or equal to 1,000.        | £500. Borrowed £20,000 (£19,500 for property purchase). Bought 3 or more bedroom detached house for £34,000 in 1983.   | DOH16, DOH14, DOH15, DH1_7, HseType, DOH9, DT39_2  | No change.                  |
| 27004013 | 553   | DOH16a   | Range check. Amount borrowed for repairs less than or equal to 1,000.        | Borrowed £100 in total, £100 for purchase and £100 for repairs. Interviewer note: for building house. Amend DOH13 to borrowing money for building house/flat.  | DOH13, DOH14, DOH15, DOH16                         | DOH13=2 to DOH13=1          |
| 30004004 | 553   | DOH16a   | Range check. Amount borrowed for repairs less than or equal to 1,000.        | £1,000. Borrowed £1,000 in total and £12,000 to purchase property. Amend loan to £13,000.  | DOH13, DOH14, DOH15, DOH16                         | DOH14=1,000 to DOH14=13,000 |
| 27002004 | 554   | DOH16a   | Range check. Amount borrowed for repairs more than or equal to 20,000.       | £34,500. Borrowed £35,000 on mortgage (£50 for purchase). Bought 3 or more bedroom detached house for £50 in 1995 (Shetland Islands). Reviewed with ComScot.   | DOH9, DT39_2, DOH14, DOH15, DOH16, DH1_7, HseType  | No change.                  |
| 9003040  | 555   | DOH17    | Range check. Total amount borrowed less than or equal to 5,000.              | £1. Bought 2 bedroom semi-detached house for £13,500 after 60% discount in 1998. Used mortgage and inheritance. No mortgage outstanding. Interviewer note: did not borrow. Amend to bought with inheritance alone. | DOH17, DOH11_2, DOH11_12, DOH18                    | DOH11_2=0                   |
| 14007029 | 555   | DOH17    | Range check. Total amount borrowed less than or equal to 5,000.              | £4,000. Bought 2 bedroom flat in purpose built block for £6,000 after 70% discount in 1984. Also used savings.   | DOH17, DH1_6, FltTyp, DOH8, DOH7, DT39_2, DOH11_11 | No change.                  |
| 19006016 | 555   | DOH17    | Range check. Total amount borrowed less than or equal to 5,000.              | £2,000. Bought 3 or more bedroom flat in purpose built block for £3,550 in 1956.   | DOH17, DH1_7, FltTyp, DOH9, DT39_2                 | No change.                  |
| 20006003 | 555   | DOH17    | Range check. Total amount borrowed less than or equal to 5,000.              | £5,000. Bought 2 bedroom semi-detached house for £8,000 after 30% discount in 1983.  | DOH17, DH1_6, HseType, DOH8, DOH7, DT39_2          | No change.                  |

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|----------|-------|----------|---|---|---|--------------------------|
| 13003002 | 556   | DOH17    | Range check. Total amount borrowed more than or equal to 91,000.  | £140,000. Bought 3 or more bedroom semi-detached house for £160,150 in 2003.  | DOH17, DT39_2, DH1_7, HseType, DOH9         | No change.               |
| 23006004 | 556   | DOH17    | Range check. Total amount borrowed more than or equal to 91,000.  | £95,000. Bought 3 or more bedroom detached house for £105,000 in 1999.  | DOH17, DH1_7, HseType, DOH9, DT39_2         | No change.               |
| 21006017 | 557   | DOH22    | Range check. Monthly mortgage payment less than or equal to 68.   | Repayment mortgage. Loan: £45pcm. Borrowed £12,000 in 2001. 20 or more years left to run.   | DOH19_1, DOH22, DOH17, DT39_2, DOH21        | No change.               |
| 24006013 | 557   | DOH22    | Range check. Monthly mortgage payment less than or equal to 68.   | Interest only endowment mortgage. Loan: £54pcm. Endowment: £33pcm. Borrowed £11,500 in 1993. 15-20 years left to run.                               | DOH19_3, DOH22, DOH24, DOH17, DT39_2, DOH21 | No change.               |
| 12003013 | 558   | DOH22    | Range check. Monthly mortgage payment more than or equal to 650.  | Combined current account/mortgage. Loan: £900pcm. Borrowed £220,000 in 2003. 10-15 years left to run.   | DOH19_6, DOH22, DOH17, DT39_2, DOH21        | No change.               |
| 13003002 | 558   | DOH22    | Range check. Monthly mortgage payment more than or equal to 650.  | Repayment mortgage. Loan: £840 pcm. Borrowed £160,150 on 2003. 20 years or more left to run.  | DOH19_1, DOH22, DOH17, DT39_2, DOH21        | No change.               |
| 28004012 | 558   | DOH22    | Range check. Monthly mortgage payment more than or equal to 650.  | Interest only endowment mortgage. Loan £40,000pcm. Endowment £80pcm. Borrowed £16,500 in 1980. Less than 5 years to run. Amend DOH22 to don't know. | DT39_2, DOH17, DOH19_3, DOH21, DOH22        | DOH22=40,000 to DOH22=DK |
| 14003009 | 559   | DOH24    | Range check. Monthly endowment payment less than or equal to 23.  | Interest only endowment mortgage. Loan: £55pcm. Endowment: £18pcm. Borrowed £9,000 in 1985. Under 5 years left to run.                              | DOH19_3, DOH22, DOH24, DOH17, DT39_2, DOH21 | No change                |
| 20008015 | 559   | DOH24    | Range check. Monthly endowment payment less than or equal to 23.  | Combined repayment and endowment mortgage. Loan: £220pcm. Endowment: £22pcm. Borrowed £50,000 in 2003. 5-10 years left to run.                      | DOH19_2, DOH22, DOH24, DOH17, DT39_2, DOH21 | No change                |
| 14007015 | 560   | DOH24    | Range check. Monthly endowment payment more than or equal to 200. | Interest only endowment mortgage. Loan: £256 pcm. Endowment: £250 pcm. Borrowed £39,00 in 1998. 5-10 years left to run.                             | DOH19_3, DOH22, DOH24, DOH17, DT39_2, DOH21 | No change.               |
| 14007028 | 560   | DOH24    | Range check. Monthly endowment payment more than or equal to 200. | Interest only endowment mortgage. Loan: £315 pcm. Endowment: £200 pcm. Borrowed £72,000 in 2000. 20 years or more left to run.                      | DOH19_3, DOH22, DOH24, DOH17, DT39_2, DOH21 | No change.               |
| 24006001 | 561   | DOH26    | Range check. Mortgage insurance less than or equal to 7.          | £6 pcm. Borrowed £21,000 in 2000. 10-15 years left to run. No long standing health problems.  | DOH26, DOH17, DT39_2, DOH21, DC1_11         | No change.               |
| 19007024 | 561   | DOH26    | Range check. Mortgage insurance less than or equal to 7.          | £6 pcm. Borrowed £23,000 in 2003. 10-15 years left to run. Aged 47 and has respiratory problems.  | DOH26, DOH17, DT39_2, DOH21, DVAge, DC2_6   | No change.               |
| 23007004 | 561   | DOH26    | Range check. Mortgage insurance less than or equal to 7.          | £4 pcm. Borrowed £35,000 in 1999. 20 years left to run. No smokers and no health problems.  | DOH26, DOH17, DT39_2, DOH21, DT54, DC1_11   | No change.               |

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|----------|-------|------------|--|--|--|--------------------------------|
| 24008017 | 561   | DOH26      | Range check. Mortgage insurance less than or equal to 7.                             | £1. Interviewer note: No amount given as included in previous sum. Amend to don't know.                          | DOH17, DOH20, DOH21, DOH22, DOH26                                  | DOH26=1 to DOH26=DK            |
| 10007005 | 562   | DOH26      | Range check. Mortgage insurance more than or equal to 60.                            | £95 pcm. Borrowed £13,500 in 1989. 20 years or more left to run. No long standing health/disability. No smokers. | DOH22, DOH17, DT39_2, DOH21, DC1_11, DT54                          | No change.                     |
| 22007007 | 562   | DOH26      | Range check. Mortgage insurance more than or equal to 60.                            | £200 pcm. Borrowed £80,750 in 1995. 20 years left to run. No smokers or health problems.                         | DOH26, DOH21, DOH17, DT39_2, DT54, DC1_11                          | No change.                     |
| 28004012 | 562   | DOH26      | Range check. Mortgage insurance more than or equal to 60.                            | £80pcm. Borrowed £16,500 in 1980. Less than 5 years to run. Diabetic non-smokers aged 50 & 51 years.             | DOH17, DOH21, DOH26, DT39_2, DT54, DC2_8a, DC2_8b, DVAge, DVAge2   | No change                      |
| 30004004 | 563   | DOH6       | House price before discount is less than price after discount.                       | £2,100. Paid £11,000 after 50% discount. Amend to £21,000.   | DOH6, DOH7, DOH8   | DOH6=2,100 to DOH6=21,000      |
| 40089011 | 568   | HBenAmt    | Amount paid after HB is greater or equal to amount before HB is deducted.            | Rent before HB= £148 every 4 weeks. HB= £100 every four weeks. Rent after HB= £48 every 4 weeks.                 | DH1_5, HBenAmt, HBenPd, HBenChk, RentFull, RentPd1, xRent, xRentPd | No change.                     |
| 40057009 | 577   | HBenAmt    | Amount paid after HB is greater or equal to amount before HB is deducted.            | Rent before HB = £46pw. Housing Benefit = £35pw. Rent after Housing Benefit = £9pw. Amend xRent to 11.           | xRent, xRentPd, HBenAmt, HBenPd, HBenChk, RentFull, RentPd1        | xRent = 9 to xRent = 11        |
| 40057010 | 577   | HBenAmt    | Amount paid after HB is greater or equal to amount before HB is deducted.            | Rent after HB= £1pw. HB= £53 every 2 weeks. Interviewer note: rent free. Amend xRent to nothing.                 | xRent, xRentPd, HBenAmt, HBenPd, HBenChk, RentFull, RentPd1        | xRent= 1 to xRent= 0, Rebate=1 |
| 40009015 | 579   | HBenAmt    | Amount paid after HB is greater or equal to amount before HB is deducted.            | Rent after HB= £52 pcm. Housing benefit: £128 pcm. Rent before Housing Benefit: £180 pcm.                        | xRent, xRentPd, HBenAmt, HBenPd, RentFull, RentPd, HBenChk         | No change.                     |
| 40001008 | 581   | xRent/Hben | Time periods are different and amount paid after HB MAY be >= before HB is deducted. | Rent before HB= £165 every 2 weeks. HB = £165 pcm.   | xRent, xRentPd, HBenAmt, HBenPd                                    | No change.                     |
| 40249020 | 582   | xRent      | Range check. Rent before HB is equal to or less than 1,500 per year.                 | Rent before HB= £25 every 2 weeks = £650 pa. HB amount unknown. No further information available.                | xRent, xRentPd, HBenAmt, HBenChk                                   | No change.                     |
| 40001011 | 583   | xRent      | Range check. Rent before HB is equal to or greater than 4,800 per year.              | £150 pw = £7,800 pa. HB: £7,800 pa. 3 or more bedroom terraced house. Rents from Housing Association / Trust.    | xRent, xRentPd, HBenAmt, HBenPd, HBenChk, HseType, DH1_7           | No change.                     |
| 14007018 | 584   | DRH6a      | Range check. Rent after HB is equal to or less than 73 per year.                     | £5 pcm = £60 pa. HB = £194 every 4 weeks. Rent before HB= £199 pcm. Amend HB to monthly.                         | xRent, xRentPd, HBenAmt, HBenPd, HBenChk, RentFull, RentPd2        | HBenPd=4 HBenPd=5              |

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|----------|-------|----------|--|--|--|---|
| 25006017 | 584   | DRH6a    | Range check. Rent after HB is equal to or less than 73 per year.                                 | £4 pm = £52 pa. HB = £220 pm. Rent before HB = £224 pm.  | xRent, xRentPd, HBenAmt, HBenPd, HBenChk, RentFull, RentPd2      | No change.                              |
| 40057010 | 584   | xRent    | Range check. Rent after HB is equal to or less than 73 per year.                                 | Rent = £53pw. Interviewer note: rent free. Amend xRent to nothing.   | xRent, xRentPd, HBenAmt, HBenPd, HBenChk, RentFull, RentPd2      | xRent = 1 to xRent = 1                  |
| 40097006 | 587   | xRent    | Range check. Rent before HB is equal to or greater than 4,800 per year.                          | Rent before HB= £645 every 4 weeks = £8,385 pa. HB = £8,385 pa. Rent after HB= £8,385 pa. Amend to HBenChk to before HB.   | xRent, xRentPd, HBenChk, AmtHB, PerHB                            | HBenChk=2 to HBenChk=1                  |
| 13003030 | 588   | DIN1     | Respondent is over retirement age and receives pension, but not coded as retired or not working. | Male. Aged 69. Self-employed. Receives retirement pension. Amend DIN1 to retired but working.  | Sex, DVAge, DHC8a, Ben1_4, DB7d, DIN1                            | DIN1=1 to DIN1=2                        |
| 20006003 | 588   | DIN1     | Respondent is over retirement age and receives pension, but not coded as retired or not working. | Female. Aged 65. Works part-time 15 hours pw. Receives retirement pension. Amend DIN1 to retired but working.  | Sex, DVAge, DHC8a, FtPtWk, DIN1, Ben1_4, DB7d                    | DIN1=1 to DIN1=2                        |
| 13003026 | 590   | DIN35    | Partner is over retirement age and receives pension, but not coded as retired or not working.    | Male. Aged 70. Works full-time 35 hours pw. Receives both retirement pension and occupational pension. Amend DIN35 to retired but working.   | DVAge2, DHC8b, FTPtWk, DIN35, DIN42, Ben1_4, DB7d, DB16_1, DB17a | DIN35=1 to DIN35=2                      |
| 19006013 | 590   | DIN35    | Partner is over retirement age and receives pension, but not coded as retired or not working.    | Male. Aged 67. Works part-time 25 hours pw. Receives retirement pension. Amend DIN35 to retired but working.   | DVAge, DHC8a, FtPtWk, DIN35, DIN39, DIN40, Ben1_4, DB7d          | DIN35=1 to DIN35=2                      |
| 13003035 | 591   | DIN1     | Respondent is over retirement age and receives pension, but not coded as retired or not working. | Female. Aged 60. Employed full-time. Works 40 hours pw. Receives retirement pension. Amend DIN1 to retired but working.  | Sex2, DVAge2, DHC8b, DIN1, Ben1_4, DB7d                          | DIN1=1 to DIN1=2                        |
| 28002007 | 591   | DIN1     | Respondent is over retirement age and receives pension, but not coded as retired or not working. | Female. Aged 62. Works part time in 2 jobs, 10 hours pw in each. Receives retirement pension. Amend DIN1 to retired but working.   | DVAge2, DHC8b, DIN1, DIN2, DIN7, DIN32, Ben1_4                   | DIN1=1 to DIN1=2                        |
| 23006027 | 600   | DIN1     | Not in paid work entered but earlier working was coded.  | Self-employed, then not working. Spouse/partner in paid work. 1 year old son in household (coded as looking after home and family). Amend to respondent looking after home and family and son in pre-school. | DHC8b, DIN1, DIN39, DIN40, DIN42, DHC8b, DVAge3                  | DHC8b=1 to DHC8b=4, DHC8c=4 to DHC8c=13 |
| 23006029 | 600   | DIN1     | Not in paid work entered but earlier working was coded.  | Working part time, then not working. Reason given as looking after the family/home. Sons aged 5 and 1 years. Amend to looking after home and family.   | DHC8a, Wrking, YInAct, DIN1, DVAge2, DVAge3                      | DHC8a=3 to DHC8a=4                      |

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|----------|-------|----------|---|---|---|-----------------------------|
| 14007025 | 601   | DIN1     | In paid work entered but earlier said were not working. | Looking after the home/family, then working full-time 37 hours pw. Amend DHC8a to working full-time.  | DIN4, DIN5, DIN7, DHC8a                                   | DHC8a=4 to DHC8a=2          |
| 24007015 | 601   | DIN1     | In paid work entered but earlier said were not working. | Interviewer note: respondent a relief worker and only does occasional work.   | DIN1, DIN2, DIN3a, DIN4                                   | No change.                  |
| 13003032 | 609   | DIN5     | Income works out to be less than 5,000 per year.        | £350 pcm = £4,200 pa. Works part-time 15 hours pw. Spouse/partner is self-employed but earnings unknown.  | DIN4, DIN5, DIN7, DIN38, DIN56                            | No change.                  |
| 14007007 | 609   | DIN5     | Income works out to be less than 5,000 per year.        | £400 pcm = £4,800 pa. Works part-time 16 hours pw. Spouse/partner earns £26,000 pa. Amend DHC8 from looking after home/family to part-time work.                      | DIN4, DIN5, DIN7, DIN39, DIN40, DHC8b                     | DHC8b=4 to DHC8b=3          |
| 10007011 | 609   | DIN5     | Income works out to be less than 5,000 per year.        | £90 pw = £4,680 pa. Works part-time 25 hours pw. Receives Child benefit (£858 pa), Child tax credit (£2,600 pa) and maintenance (refused).                            | DIN4, DIN5, DIN7, DHC8a, BAmt, BPd, BAmt21, BPd21, DB17bc | No change.                  |
| 23007015 | 609   | DIN5     | Income works out to be less than 5,000 per year.        | £380 pm = £4,940 pa. Works part-time 15 hours pw. Spouse earns £42,000 pa.  | DHC8a, DIN4, DIN5, DIN7, DIN39, DIN40                     | No change.                  |
| 27002004 | 609   | DIN5     | Income works out to be less than 5,000 per year.        | £300 pcm = £3,600 pa. Works part-time 30 hours pw. Spouse in paid work but earnings unknown. Amend to respondent working full-time (30 hours or more).                | DIN4, DIN5, DIN7, DHC8a, DIN35, DIN39                     | DHC8a=3 to DHC8a=2          |
| 27002016 | 609   | DIN5     | Income works out to be less than 5,000 per year.        | £242 pcm = £2,904 pa in first job. Works part-time 13 hours pw. £42 pw = £2,184 pa in second job. Works part-time 10 hours pw. Total = £5,088.                        | DIN2, DIN4, DIN5, DIN7, DIN27, DIN28, DIN29               | No change.                  |
| 30004013 | 616   | DIN21    | Income works out to be more than 50,000 per year.       | £35,000pcm = £420,000pa. Works as a GP. Amend to £3,500pcm.   | DIN20, DIN21  | DIN20=35,000 to DIN20=3,500 |
| 13003030 | 617   | DIN21    | Income works out to be less than 5,000 per year.        | £4,000 pa. Self-employed. Works full-time 30 hours pw. Receives retirement pension £ pa. Spouse/partner retired.  | DIN20, DIN21, DIN23, DIN35, Ben1_4, DB7d                  | No change.                  |
| 14007016 | 617   | DIN21    | Income works out to be less than 5,000 per year.        | £150 pcm = £1,800 pa. Self-employed. Works part-time 6 hours pw. Household weekly income £0 - £99.  | DIN20, DIN21, DIN23, DHC8a, DB18                          | No change.                  |
| 27004018 | 617   | DIN21    | Income works out to be less than 5,000 per year.        | £4,000pa. Self-employed. Works 70 hours pw. Has second job. Interviewer note: has just commenced as a part-time ranger.   | DHC8a, DIN1, DIN20, DIN21, DIN23, DIN27, DIN30            | No change                   |
| 24008009 | 617   | DIN21    | Income works out to be less than 5,000 per year.        | Takes no income from business. Receives £80pw retirement pension and £77pcm occupational pension.   | DIN20, DIN20a, BAmt5, BPd5, DB17ba, DB17ca                | No change                   |
| 15003020 | 620   | DIN24    | Income of less than 5,000 per year.                     | £500 pa in first job. Works part-time 12 hours pw. £30 pw = £1,560 pa in second job. Works part-time 25 hours pw. Total = £2,060 pa. Self-employed with no usual pay. | DIN24, DIN25, DIN27, DIN28, DIN29, DIN3, DIN20            | No change.                  |
| 25006009 | 620   | DIN24    | Income of less than 5,000 per year.                     | £3,000 pa. Self employed with no usual pay and unknown hours worked pw. Spouse is self-employed with no usual pay and amount earns unknown.                           | DIN24, DIN3, DIN20, DIN25, DIN38, DIN56, DIN60            | No change.                  |
| 27002016 | 622   | DIN27    | Income works out to be less then 5,000 per year.        | £242 pcm = £2,904 pa in first job. Works part-time 13 hours pw. £42 pw = £2,184 pa in second job. Works part-time 10 hours pw. Total = £5,088.                        | DIN2, DIN4, DIN5, DIN7, DIN27, DIN28, DIN29               | No change.                  |

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|----------|-------|----------|---|---|---|---|
| 30004001 | 632   | DIN35    | Spouse/partner is retired but doing some work, but earlier said that permanently retired. | Aged 56. Works full-time 39 hours pw. Receives occupational pension. Amend to working full-time.  | DVAge, DHC8a, DIN35, DB16_1, FtPtWk, Totus1                         | DIN35=2 to DIN35=1, DHC8a=5 to DHC8a=2                |
| 15003027 | 636   | DIN38    | Spouse/partner is an employee but earlier said that they were not.                        | Employed. Works 50 hours pw. Amend DHC8b to employed full-time.   | DIN38, DIN42, DHC8b   | DHC8b=1 to DHC8b=2                                    |
| 27003017 | 637   | DIN38    | Spouse/partner is an employee but earlier said that they were not.                        | Both respondent and spouse recorded as self-employed at DHC8 then recorded as employed. Amend DHC8a and DHC8b to employed.                                    | DHC8a, DHC8b, DIN3a, DIN38, Stat                                    | DHC8a=1 to DHC8a=2, DHC8b=1 to DHC8b=2                |
| 13003033 | 639   | DIN38    | Spouse/partner is self-employed but earlier said they were not self-employed.             | Works part-time but self-employed. Amend to self-employed.  | Stat, FtPtWk, DHC8b   | DHC8b=3 to DHC8b=1                                    |
| 10007001 | 641   | DIN40    | Income works out to be less than 5,000 per year.  | £60 pw = £3,120 pa. Works part-time 20 hours pw. Spouse earns £10,400.  | DIN39, DIN40, DIN42, DIN4, DIN5                                     | No change.  |
| 20006008 | 641   | DIN40    | Income works out to be less than 5,000 per year.  | £81 pw = £4,212 pa. Works part-time 18 hours pw. No further information.  | DHC8b, DIN39, DIN40, DIN42  | No change.  |
| 24006004 | 641   | DIN40    | Income works out to be less than 5,000 per year.  | £200 pcm = £2,400 pa. Retired but works part-time 13 hours pw. Also receives retirement pension.  | DIN35, DIN39, DIN40, DIN42, Ben1_4, DB7d                            | No change.  |
| 20007013 | 641   | DIN40    | Income works out to be less than 5,000 per year.  | £400 pcm = £4,800 pa. Works part-time 20 hours pw. Spouse earns £23,000 pa.   | DHC8b, DIN39, DIN40, DIN42, DIN4, DIN5, DHC8a                       | No change.  |
| 23007021 | 641   | DIN40    | Income works out to be less than 5,000 per year.  | £93 pw = £4,836 pa. Works part-time 17 hours pw. Partner not working. Also receives Income Support and DLA Mobility.  | DIN39, DIN40, DIN42, DHC8b, Ben2_3, DisBen_2                        | No change   |
| 13003033 | 649   | DIN57    | Income works out to be less than 5,000 per year.  | £3,200 pa. Works part-time 7 hours pw. Spouse/partner receives occupational pension.  | DIN56, DIN57, DIN59, DB16_1, DB17a                                  | No change.  |
| 13003041 | 649   | DIN57    | Income works out to be less than 5,000 per year.  | £400 pcm = £4,800 pa. Self-employed. Works 45 hours pw. Spouse/partner earns £16,800 pa.  | DIN56, DIN57, DIN59, DIN4, DIN5                                     | No change.  |
| 21006009 | 651   | DIN60    | Income of less than 5,000 per year.   | £1 pa. Self-employed. Works 20 hours pw. Interviewer note: In partnership with husband. Previous figure covers income for both.                               | DHC8a, DHC8b, DIN1, DIN20, DIN24, DIN25, DIN35, DIN56, DIN60, DIN61 | DIN24=22,900 to DIN24=11,450, DIN60=1 to DIN60=11,450 |
| 24007004 | 651   | DIN60    | Income of less than 5,000 per year.   | £1 pa. Self-employed. Works part-time 10 hours pw. Interviewer note: said that husband actually takes nothing out of business now. Amend DIN56 to Don't Know. | DHC8a, DHC8b, DIN38, DIN56a, DIN60,                                 | DIN56=2 to DIN56=3                                    |
| 30004001 | 651   | DIN60    | Income of less than 5,000 per year.   | £2,000pa. Interviewer note: £3,000 for year only before tax. Also has occupational pension of £25,000pa.  | DIN60, DB17a, DB17ba, DB17ca  | No change   |
| 19007024 | 658   | DIN7     | Respondent coded as working full-time but working less than 30 hours.                     | Works 28 hours pw at DIN7 and 30 hours pw in employment section.  | DHC8a, DIN7, UsuHr, PotHr   | No change.  |

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| 27002010 | 658   | DIN7     | Respondent coded as working full-time but working less than 30 hours.                       | Works 4 hours pw. Earlier recorded works full-time 36 hours pw plus 6 hours paid overtime. Amend to 42 hours pw.   | DHC8b, Usuhr, PotHr, FtPtWk, DIN1, DIN4, DIN5, DIN7 | DIN7=4 to DIN7=42  |
| 29004017 | 658   | DIN7     | Respondent coded as working full-time but working less than 30 hours.                       | Works 28 hours pw. Amend to working part-time.   | DHC8a, DIN1, DIN7                                   | DHC8a=2 to DHC8a=3 |
| 19007022 | 659   | DIN42    | Partner coded as working full-time but working less than 30 hours.                          | Works 25 hours pw. Amend DHC8b to working part-time.   | DHC8b, DIN39, DIN40, DIN42                          | DHC8b=2 to DHC8b=3 |
| 25008014 | 660   | DIN42    | Partner coded as working full-time but working less than 30 hours.                          | Works part-time in 2 jobs. 26 hours pw and 1 hour pw. Total = 27 hours pw. Amend to part-time.                     | DHC8b, DIN35, DIN36, DIN42, DIN65, FtPtWk, Totus1   | DHC8b=2 to DHC8b=3 |
| 27004001 | 660   | DIN42    | Partner coded as working full-time but working less than 30 hours.                          | Works part-time in 2 jobs. 18.5 hours pw and 16 hours pw. Total = 34.5 hours pw.                                   | FtPtWk, DHC8a, DIN36, DIN42, DIN65                  | No change          |
| 15003020 | 662   | DIN1     | Check why Other Working recorded at DIN1.   | Works part-time but self-employed. Amend to respondent in paid work.   | DHC8a, Stat, DIN1, DIN3                             | DIN1=5 to DIN1=2   |
| 13003033 | 662   | DIN35    | Check why Other Working recorded at DIN35.  | Works part-time but self-employed. Amend to in paid work.  | DIN35, Stat, FtPtWk                                 | DIN35=5 to DIN35=1 |
| 27004018 | 662   | DIN1     | Check why Other Working recorded at DIN1.   | Self-employed. Interviewer note: crofter, firewoman and part-time ranger. Earns £4,000pa. Amend DIN1 to paid work. | DHC8a, DIN1, DIN20, DIN21                           | DIN1=5 to DIN1=1   |
| 14007028 | 680   | Ben1Q    | Not in receipt of child benefit but are recorded as having children.                        | 1 child aged 18 in further education/college. No further information.  | Ben1_1, DVAge3, DHC8c                               | No change.         |
| 20006019 | 680   | Ben1Q    | Not in receipt of child benefit but are recorded as having children.                        | 1 child aged 17 in full-time employment so not eligible for child benefit.   | Ben1_1, DHC8c, DVAge3                               | No change.         |
| 25006010 | 680   | Ben1Q    | Not in receipt of child benefit but are recorded as having children.                        | 2 children aged 19 and 17, both unemployed and seeking work so not eligible for child benefit.                     | Ben1_1, DVAge2, DVAge3, DHC8b, DHC8c                | No change.         |
| 23007010 | 680   | Ben1Q    | Not in receipt of child benefit but are recorded as having children.                        | 1 child aged 17 in higher education/university so not eligible for child benefit.                                  | Ben1_1, DVAge3, DHC8c                               | No change.         |
| 14007028 | 681   | Ben1Q    | Not in receipt of child benefit but someone 18 or under and in Further Ed recorded at DHC8. | 1 child aged 18 in further education/college. No further information.  | Ben1_1, DVAge3, DHC8c                               | No change.         |

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|----------|-------|----------|---|--|---|---|
| 24008013 | 682   | Ben1Q    | To receive Child Benefit there should be a dependent child in the household.            | Interviewer note: Daughter in age range living with older brother.   | Ben1_1  | No change   |
| 17016034 | 686   | Ben1Q    | Respondent is over retirement age and no Retirement Pension recorded for him/her.       | Female aged 67. Permanently retired from work. No retirement pension received.                               | DVAge, DHC8a, Ben1_4  | No change   |
| 30004002 | 686   | Ben1Q    | Respondent is over retirement age and no Retirement Pension recorded for him/her.       | Female aged 60. Permanently sick or disabled. No retirement pension received.                                | DVAge, DHC8a, Ben1_4  | No change   |
| 28002006 | 687   | Ben1Q    | Respondent or partner is over retirement age but no N.I. Retirement Pension recorded.   | Female aged 68. Male aged 70. Both permanently retired from work. No retirement pension received.            | DVAge, DVAge2, DHC8a, DHC8b, Ben1_4                                   | No change.  |
| 30004013 | 688   | Ben1Q    | Retirement Pension coded but respondent is under retirement age.                        | Female aged 55. Self-employed. Interviewer note: the pension is her deceased husband's NHS pension.          | DVAge, DHC8a, Ben1_4  | No change   |
| 23007012 | 707   | DisBen   | Respondent claims DLA mobility but over 65.   | Aged 68 and receives DLA Mobility. No further information.   | DVAge, DisBen_2, DB8b   | No change.  |
| 19008010 | 707   | DisBen   | Respondent claims DLA mobility but over 65.   | Aged 68 and receives DLA Mobility. £226pcm paid in combination with DLA Care.                                | DVAge, BAmtDK9, BPd9, BAmtDK10, BPd10, CombAm, ComBPd                 | No change   |
| 24007005 | 708   | DisBen   | Partner claims DLA mobility but over 65.  | Aged 66 and receives DLA Mobility £120pcm.   | DVAge2, DB8b, BAmt9, BPd9   | No change.  |
| 20007009 | 709   | DisBen   | Partner claims DLA mobility but over 65.  | Aged 74. Receives DLA Mobility and Care combined.  | DVAge, DisBen_1, DisBen_2, BAmt9, BPd9, BAmt10, BPd10, ComBAm, ComBPd | BAmt9=249 to BAmt9=DK, BAmtDK9=1, BAmt10=0 to BAmt10=DK, BAmtDK10=1, ComBAm=249, ComBPd=4 |
| 14007029 | 710   | DisBen   | Respondent or spouse/partner receiving DLA but no one in the household with disability. | Spouse/partner receives DLA. No reported long-standing health problem or disability. No further information. | DisBen_2, DB8b, DC1_11  | No change.  |
| 23006026 | 716   | Ben2Q    | People who are looking for work would normally be receiving JSA, not income support.    | Receives income support £69 pw. Unemployed and seeking work. No further information.                         | Ben2_3, BAmt2, BPd2, DHC8a  | No change.  |
| 20008015 | 741   | TxCred   | WTC received but no children and Keyhouseholder doesnt work for 30 or more hours pw.    | Works 25 hours pw. No children recorded. No further information.   | TxCred_1, DIN7  |   |

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|----------|-------|-------------|--|---|--|---|
| 15003020 | 742   | TxCred      | WTC received and Keyhouseholder doesn't work for 16 or more hours pw. Check partner. | Works 12 hours and 25 hours in 2 jobs, totalling 37 hours pw.   | TxCred_1, DIN7, DIN29  | No change.  |
| 27002016 | 742   | TxCred      | WTC received and Keyhouseholder doesn't work for 16 or more hours pw.                | Works 13 hours and 10 hours in 2 jobs, totalling 23 hours pw.   | TxCred_1, DIN7, DIN29  | No change.  |
| 22007005 | 780   | ComBAm      | Only 1 benefit recorded as being paid in combination.                                | Only Severe Disability Allowance paid in combination. Amount paid in combination is £963.40 pw. Interviewer note: this is the total for four weekly period 149.6 x 4 + 153.2. Receives Severe Disability Allowance, DLA Care (£153 every 4 weeks) and Income Support (£149.60 pw). Interviewer note at Income Support: inc SDA. Amend Income Support to be paid in combination. | ComBAm, ComBPd, BAmt8, BAmtDK8, BAmt9, BPD9, BAmt2, BPd2                 | BAmt2=DK, BAmtDK2=1, ComBAm=963.40 to ComBAm=149.60 |
| 25006013 | 780   | ComBAm      | Only 1 benefit recorded as being paid in combination.                                | Income support received but amount unknown and said to be paid in combination. Benefits paid in combination £102 pw. Amend Income support to amount unknown but not paid in combination.  | Ben2_3, BAmt2, BPd2, ComBAm, ComBPd                                      | BAmtDK2=1 to BAmtDK2=2                              |
| 27002016 | 780   | ComBAm      | Only 1 benefit recorded as being paid in combination.                                | Receives Lone Parent's Benefit Run-On but amount unknown. Stated as being paid in combination, but amount at combination equals that recorded for Child Benefit (£28.30). Amend to amount unknown, but not due to being paid in combination.  | Ben6m_5, BAmt31, BAmtDK31, ComBAm, ComBPd, Ben1_1, BAmt, BPd             | BAmtDK31=1 to BAmtDK31=2                            |
| 16004014 | 780   | ComBAm      | Only 1 benefit recorded as being paid in combination.                                | £105 pw retirement pension. Pension credit amount unknown as paid in combination. Receives £105 pw retirement pension and £105 combined benefits. Amended to receiving pension credit and retirement pension in combination.  | Ben1_4, BAmt5, BPd5, Ben2_2, BAmt13, BAmtDR13, ComBAm, ComBPd            | BAmt5=DK BAmtDK5=1                                  |
| 23008028 | 780   | ComBAm      | Only 1 benefit recorded as being paid in combination.                                | Interviewer note: Retirement pension, attendance allowance and pension credit is all paid together. Amend retirement pension to amount unknown.   | Ben1_4, DisBen_3, AtAll, Ben2_2, BAmt5, BAmt13, BAmtDK13, ComBAm, ComBPd | BAmt5=210 to BAmt5=DK, BAmtDK5=1                    |
| 10007012 | 781   | QWint       | Winter fuel payments over 200 per year, check that person is over 80.                | £300 pa. Aged 85. Expected amount.  | BAmt26, BPd26, DVAge   | No change.  |
| 10007012 | 781   | QWint       | Winter fuel payments over 200 per year, check that person is over 80.                | £300 as one-off payment. Aged 85. Expected amount. Amend time period to once a year.  | DB13a, BAmt26, BPd26, DVAge  | BPd26=95 to BPd26=52                                |
| 25007014 | 781   | QWintAm     | Winter fuel payments over 200 per year, check that person is over 80.                | £300 pa. Aged 90 and 82. Expected amount.   | BAmt26, BPd26, DVAge, DVAge2   | No change.  |
| 24007010 | 784   | QCBenAm.BPd | Unexpected Child Benefit amount.   | £64.20 every 4 weeks = £16.05 pw. Expected amount.  | Ben1_1, BAmt, BPd  | No change.  |

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|----------|-------|--------------|--|---|---|---------------------------|
| 24006001 | 789   | QCBenAm.Bmt  | Range check. Child benefit less than or equal to 780 a year. Check number of children and whether lone parent.     | £64.20 pcm = £770.40 pa. 2 children aged between 13 to 18 years (employed part-time). Amend to £64.20 pm (£16.05 pw).             | Ben1_1, BAmt, BPd, DVAge, DVAge2, DVAge3, DVAge4, Marstat, DHC8c, DHC8d | BPd=5 to BPd=4            |
| 12003002 | 790   | QCBen        | Range check. Child benefit greater than or equal to 1976 a year. Check number of children and whether lone parent. | £38.60 pw = £2,007.20 pa. 3 children aged between 0 to 4 years. Expected amount.  | BAmt, BPd, DVAge3, DVAge4, DVAge5                                       | No change.                |
| 13003027 | 790   | QCBen        | Range check. Child benefit greater than or equal to 1976 a year. Check number of children and whether lone parent. | £160 pm (£40 pw) = £2,080 pa. 3 children aged between 2 to 7 years. Expected amount = £38.60 pw.                                  | BAmt, BPd, DVAge3, DVAge4, DVAge5                                       | No change.                |
| 15003020 | 790   | QCBen        | Range check. Child benefit greater than or equal to 1976 a year. Check number of children and whether lone parent. | £38.60 pw = £2,007.20 pa. Lone parent, 3 children aged between 5 to 18 years (in further education). Expected amount = £39.65 pw. | BAmt, BPd, MarStat, DVAge2, DVAge3, DVAge4                              | No change.                |
| 19007021 | 790   | QCBenAm.bmt  | Range check. Child benefit greater than or equal to 1976 a year. Check number of children and whether lone parent. | £38 pw = £1,976 pa. Lone parent, 3 children aged between 4 to 9 years. Expected amount = £39.65 pw.                               | BAmt, BPd, MarStat, DVAge2, DVAge3, DVAge4                              | No change.                |
| 30004015 | 790   | QCBenAm.Bmt  | Range check. Child benefit greater than or equal to 1976 a year. Check number of children and whether lone parent. | £154.40 per 4 weeks = £2,007.20pa. 3 children aged between 9 and 11 years.  | BAmt, BPd, DVAge3, DVAge4, DVAge5,                                      | No change                 |
| 10007008 | 793   | QNIPenAm.Bmt | Range check. Pension less than or equal to 2,111 a year.   | £23 pw = £1,196 pa. Also receives occupational pension £3,084 pa.   | DB7d, BAmt5, BPd5, DB17a, DB17ba, DB17ca                                | No change.                |
| 24006011 | 793   | QNIPenAm.Bmt | Range check. Pension less than or equal to 2,111 a year.   | 28p pw = £14.56 pa. Amend to £28 pw.  | DB7d, BAmt5, BPd5   | BAmt5=0.28 to BAmt5=28.00 |
| 27003007 | 793   | QNIPenAm.Bmt | Range check. Pension less than or equal to 2,111 a year.   | £80 every 4 weeks = £1,040 pa. Still working full-time, earning £24,000 pa.   | DB7d, BAmt5, BPd5, DIN4, DIN5, DHC8a                                    | No change                 |
| 23007026 | 794   | QNIPenAm.Bmt | Range check. Pension greater than or equal to 8,684 a year.  | £222.52 pw = £11,571.04 pa.   | BAmt5, BPd5   | No change.                |
| 28002009 | 794   | QNIPenAm.Bmt | Range check. Pension greater than or equal to 8,684 a year.  | £188 pw = £9,776 pa. Spouse only receives retirement pension.   | DB7d, BAmt5, BPd5   | No change.                |

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| 25007002 | 797   | QOthBAmt.Bmt | Range check. Other benefit less than or equal to 339 a year.                   | £10 one off payment.   | BAmt32, BPd32   | No change.  |
| 27004005 | 797   | QOthBAmt.Bmt | Range check. Other benefit less than or equal to 339 a year.                   | £100. Interviewer note: shetland council christmas bonus   | BAmt32, BPd32   | No change   |
| 19006022 | 801   | QIncapAm.Bmt | Range check. Incapacity benefit less than or equal to 1144 a year.             | £70 pcm = £840 pa. No further information.   | BAmt14, BPd14   | No change.  |
| 13003039 | 802   | Qincap       | Range check. Incapacity benefit greater than or equal to 6,913 a year.         | £335 per 2 weeks = £8,710 pa. No further information.  | BAmt14, BPd14   | No change.  |
| 25007013 | 804   | QDLACrAm.Bmt | Range check. DLA Care greater than or equal to 4,633 a year.                   | £213.80 pw = £11,117.60 pa. Interviewer note: Total for DLA - Care & Mobility. Amend to combined amount.   | DisBen_1, DB8a, BAmt9, BPd9, BAmtDK, ComBAM, ComBPd           | BAmt9=213.80 to BAmt9=DK, BAmtDK9=1, ComBAM=DK to ComBAM=213.80                           |
| 20007009 | 805   | QDLAMob.Bmt  | Range check. DLA Mobility less than or equal to 728 a year.                    | Zero recorded. Interviewer note: included in mobility payment, unable to separate payments. Receives £249 every 4 weeks for DLA Care. Amend to receiving DLA Care and Mobility combined. | BAmt9, BPd9, BAmtDK9, BAmt10, BPd10, BAmtDK10, ComBAM, ComBPd | BAmt9=249 to BAmt9=DK, BAmtDK9=1, BAmt10=0 to BAmt10=DK, BAmtDK10=1, ComBAM=249, ComBPd=4 |
| 21007002 | 811   | QICareAm.Bmt | Range check. Invalid Care Allowance greater than or equal to 3,803 a year.     | £75.80 pw = £3,941.60 pa. No further information.  | BAmt4, BPd4   | No change.  |
| 23007032 | 811   | QICareAm.Bmt | Range check. Invalid Care Allowance greater than or equal to 3,803 a year.     | £96 pw = £4,992 pa. No further information.  | BAmt4, BPd4   | No change.  |
| 6004011  | 813   | QSDisAm.Bmt  | Range check. Severe Disablement Benefit greater than or equal to 4,446 a year. | £145pw = £7,540pa. Also receives DLA Care £2,769pa.  | BAmt9, BPd9, BAmt8, BPd8                                      | No change   |
| 10007017 | 855   | DST3         | Annual amount is more than 3000 per year.                                      | £1,040 x 10 instalments = £10,400 pa. Receives CT rebate £520 x 10 instalments = £5,200 pa. Amend to £104 and rebate £52.  | xCTAmt, xCTTime, xCTReb, xCTRebAmt, xCTRebPd                  | xCTAmt=1,040 to xCTAmt=104, xCTRebAmt=520 to xCTRebAmt=52                                 |
| 28002010 | 855   | DST3         | Annual amount is more than 3000 per year.                                      | £830 x 10 instalments = £8,300 pa. Receives CT rebate £360 x 10 instalments = £3,600. Band A South Ayrshire £857. Amend to £83 and rebate £36.   | xCTAmt, xCTTime, xCTReb, xCTRebAmt, xCTRebPd                  | xCTAmt=830 to xCTAmt=83, xCTRebAmt=360 to xCTRebAmt=36                                    |
| 28003002 | 855   | DST3         | Annual amount is more than 3000 per year.                                      | £1,200 x 10 instalments = £12,200 pa. Amend to £120 x 10 instalments pa.   | xCTAmt, xCTTime, xCTReb                                       | xCTAmt=1,200 xCTAmt=120   |
| 40065009 | 856   | DST3         | Range check. Council Tax is less than lowest charge.                           | CT: £81 x 10 = £810 pa. No CT rebate received.   | xCTAmt, xCTTime, xCTReb                                       | No change.  |

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|----------|-------|----------|---|---|--|---------------|
| 40089012 | 856   | DST3     | Range check. Council Tax is less than lowest charge.                          | CT: £698 pa. No CT rebate received.   | xCTAmt, xCTTime, xCTReb                | No change.    |
| 40105013 | 856   | DST3     | Range check. Council Tax is less than lowest charge.                          | CT: £99 x 7 = £693 pa. No CT rebate received.                                 | xCTAmt, xCTTime, xCTReb                | No change.    |
| 40065009 | 856   | DST3     | Range check. Council Tax is less than lowest charge.                          | CT: £81 x 10 = £810 pa. No CT rebate received.                                | xCTAmt, xCTTime, xCTReb                | No change.    |
| 40089012 | 856   | DST3     | Range check. Council Tax is less than lowest charge.                          | CT: £698 pa. No CT rebate received.   | xCTAmt, xCTTime, xCTReb                | No change.    |
| 40105013 | 856   | DST3     | Range check. Council Tax is less than lowest charge.                          | CT: £99 x 7 = £693 pa. No CT rebate received.                                 | xCTAmt, xCTTime, xCTReb                | No change.    |
| 27003004 | 912   | DBM17aa  | Range check. Occupational pension is less than or equal to 421 per year.      | £8 pcm = £96 pa. Also receives retirement pension £4,800 pa.                  | DB17ba, DB17ca, BAmt5, BPd5            | No change.    |
| 13003007 | 913   | DBM17aa  | Range check. Occupational pension is greater than or equal to 18000 per year. | £25,000 pa. Retired legal advisor.  | DB17ba, DB17ca, OccT                   | No change.    |
| 13003014 | 913   | DBM17aa  | Range check. Occupational pension is greater than or equal to 18000 per year. | £33,000 pa. Retired Director of Construction/Oil Refinery/Power.              | DB17ba, DB17ca, OccT, IndD             | No change.    |
| 15003008 | 913   | DBM17aa  | Range check. Occupational pension is greater than or equal to 18000 per year. | £1,894 pcm = £22,728 pa. Only received by respondent. No further information. | DB17a, DB17ba, DB17ca                  | No change.    |
| 28004016 | 914   | DBM17ba  | Range check. Annuity or Trust is less than or equal to 253 per year.          | £97. No further information.  | DB17bb, DB17cb                         | No change.    |
| 24007010 | 916   | DBM17ca  | Range check. Maintenance is less than or equal to 374 per year.               | £22 pcm = £264 pa. 1 child, aged 7 years.                                     | DB17bc, DB17cc, DVAge2                 | No change.    |
| 12003015 | 917   | DBM17ca  | Range check. Maintenance is greater than or equal to 6912 per year.           | £700 pcm = £8,400 pa. 2 children, aged 16 and 10 years.                       | DB16_3, DB17bc, DB17cc, DVAge2, DVAge3 | No change.    |
| 13003040 | 920   | DBM17ea  | Range check. Dig money is less than or equal to 520 per year.                 | £10 pw = £520 pa. Son aged 19 resident.                                       | DB17be, DB17ce, DVAge3, R21, R22       | No change.    |

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| CaseID   | Check | Variable | Query/ Error  | Information/ case checked  | Variables checked                                     | Decision made              |
|----------|-------|----------|---|--|---|----------------------------|
| 15003020 | 921   | DBM17ea  | Range check. Dig money is greater than or equal to 3604 per year.         | £80 pw = £4,160 pa. 3 adult children in household, aged 18 to 23 years.  | DB17be, DB17ce, DVAge2, DVAge3, DVAge4, R11, R21, R31 | No change.                 |
| 28002005 | 921   | DBM17ea  | Range check. Dig money is greater than or equal to 3604 per year.         | £600 pcm = £7,200 pa. 3 adult children in household, aged 23 to 27 years.  | DB17be, DB17ce, DVAge2, DVAge3, DVAge4, R11, R21, R31 | No change.                 |
| 13003008 | 924   | DBM17ga  | Range check. Investment income is less than or equal to 20 per year.      | £1 pa. No further information.   | DB17bg, DB17cg  | No change.                 |
| 13003015 | 924   | DBM17ga  | Range check. Investment income is less than or equal to 20 per year.      | £1. Received by respondent only. Reinvested.   | DB17g, DB17bg, DB17cg                                 | No change.                 |
| 27002007 | 924   | DBM17ga  | Range check. Investment income is less than or equal to 20 per year.      | £1 pa. Received by both respondent and spouse. No further information.   | DB17g, DB17bg, DB17cg                                 | No change.                 |
| 23008001 | 924   | DBM17ga  | Range check. Investment income is less than or equal to 20 per year.      | £12pa. No further information.   | DB17g, DB17bg, DB17cg                                 | No change                  |
| 13003011 | 925   | DBM17ga  | Range check. Investment income is greater than or equal to 8000 per year. | £10,000 pa. Received by spouse/partner only. Household monthly income over £2,000.                                 | DB17g, DB17bg, DB17cg, DB18a                          | No change.                 |
| 13003030 | 925   | DBM17ga  | Range check. Investment income is greater than or equal to 8000 per year. | £7,000 pcm = £84,000 pa. Received by respondent only. Household monthly income = £1,600-£1,999. Amend to £700 pcm. | DB17g, DB17bg, DB17cg, DB18a                          | DB17bg=7,000 to DB17bg=700 |

### 10.7 Changes to the Social Interview Blaise CAPI Questionnaire

| Month  | Change to be made   | Question               | Block     |
|--------|---|------------------------|-----------|
| Oct-04 | Second Housing Benefit question only asked if renting or have part-ownership, so nothing recorded. Household was recorded as being rent-free but later questions suggest that they rent from council and receive full HB. Suggest changing questionnaire routing to ask HB at Rent-free also. Amended as part of HB review. |                        | Qinter    |
| Oct-04 | If have grouped repairs then when go back into case, cannot get past DR4. Previously saved second grouped repair is presented as single until something is entered at DR4, then can get back to grouped repair as normal. Colin to fix.   | Repairs                | QRepair3  |
| Oct-04 | Routing in home ownership. Inherited property but have a mortgage too. Then doesn't ask DOH17 (total amount borrowed). This would involve rerouting so not done.  | DOH17                  | QHomeOwn  |
| Oct-04 | Signal at WTC should be based on other DIN hours and not just first one. Amended to include all hours asked in income section.  | TaxCred-ish            | Qbenefits |
| Oct-04 | Soft-check at DIN1 if over retirement age and working, etc.   | DIN1/DIN35             | QIncome   |
| Oct-04 | Jump Tags for use in Edit Program   |                        |           |
| Oct-04 | There is no soft check if a 1 yr old baby is coded as looking after the family or on a govt training scheme. Harmonised block - not done.   | DHC8                   |           |
| Oct-04 | CTTime and CTRebAmt, soft check if rebate higher than DST3? These questions will change in October but will bear in mind.   | CTTime                 |           |
| Oct-04 | DOH2 and DT35 If previously stated property was inherited and then change the answer to we bought it should there be a soft check?  | DOH2                   | QHomeOwn  |
| Oct-04 | Dropping externals surveys - remove question .  | External               | Qappoint  |
| Oct-04 | Removed question/block on which housing association rent from. Removed references to external lookup files too.   | AberCity etc           | HACodes   |
| Oct-04 | Removed questions on presence, use and quality of facilities.   | DT58, DT59             |           |
| Oct-04 | DT67 & DT68 amended to one question.  | DT67 & DT68            |           |
| Oct-04 | Moving address questions removed.   | DT64-DT66              |           |
| Oct-04 | Concealed households - removed questions.   | DPF9-DPF11             |           |
| Oct-04 | Removed questions on repairs.   | DR14-16, DR18, DR18a-d |           |
| Oct-04 | Introduced question on whether heating all rooms for same amount of time.   | DHT3, DHT4, etc        | Qutility  |

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| Month  | Change to be made  | Question            | Block       |
|--------|--|---------------------|-------------|
| Oct-04 | Removed disability questions.  | DCC4, DCC5, DCC5a-f | Qdisability |
| Oct-04 | Amended wording of DC12 and populate if only one response from DC11  | DCC11, DCC12        | Qdisability |
| Oct-04 | GHQ12 added.   | GHQ1-12             | QGHQ        |
| Oct-04 | Ask about HB in one place only and adapt using FRS questions.  |                     | QRent2      |
| Oct-04 | Adapt CT section using FRS questions.  |                     | QCnclTx     |
| Oct-04 | Check that Local council and Housing Association tenants do not live rent free at DT13.  | DT13, DT21          | QTenint     |
| Oct-04 | Factor questions added   | DR25, DR31-32       | QRepair     |
| Nov-04 | Can put in answers other than those that appear on screen (this carries over to DCD4 after too).   | DCD3                | QDamp       |
| Nov-04 | Room in brackets doesn't appear if only one room affected by damp or whatever.   | DCD4                | QDamp       |
| Nov-04 | Not all options carried forward from DT47.   | DT48                | QNeighb     |
| Nov-04 | Re-route DOH15, DOH16 so asked even if mortgage not for purchase of property, only for repairs.  | DOH15, DOH16        | QHomeOwn    |
| Nov-04 | Refers to K4 showcard, when it should refer to K3  | DCC8a               | QDisable    |
| Nov-04 | Would not allow the input of option 9 (24 hours). We both tried it on training cases, and it worked fine, so we're wondering if it only affects live cases?  | xDH3 and xDH4       | QUtility    |
| Jan-05 | Can put in answers other than those that appear on screen (this carries over to DCD4 after too).   | DCD3                | QDamp       |
| Jan-05 | Room in brackets doesn't appear if only one room affected by damp or whatever.   | DCD4                | QDamp       |
| Feb-05 | Can put in answers other than those that appear on screen (this carries over to DCD4 after too).   | DCD3                | QDamp       |
| Feb-05 | Room in brackets doesn't appear if only one room affected by damp or whatever.   | DCD4                | QDamp       |
| Feb-05 | At DCD3 - which room had worst mould/damp - you can code a room which isn't on the options list between 1-10. Not sure if this was supposed to be intentional, or if the check between the questions at dc2a to Dc2j aren't working quite right. | DCD3, DCD2          |             |
| Feb-05 | Add soft check if no repairs at DR2 but large amount at DR19.  | DR2, DR19           | QRepairs    |
| Feb-05 | DT48 label coming up for value 20 is 'nothing' - but it should relate to code 20 in earlier question   | DT48                | QNeighb     |
| Feb-05 | DT57 need to emphasise EVER (in bold perhaps).   | DT56                | QSmPets     |
| Feb-05 | xClkEase and xThmEase - these read as the same question.... should it be slightly different?   | cClkEase, xThmEase  | QUtility    |

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| Month  | Change to be made   | Question   | Block            |
|--------|---|------------|------------------|
| Feb-05 | Are electric storage heaters and central heating as the same thing. At DHT2, when electric storage heaters chosen, the questionnaire goes to xCHcont "Do you have central heating which uses a time clock or thermostat?" When "No, neither" entered it then goes to xFIPICH "Do you have full or partial central heating?" and there is no option for neither. If the respondent does not have central heating and only electric storage heaters there is no routing to distinguish between the two. | xFIPICH    | QUtility         |
| Apr-05 | Can put in answers other than those that appear on screen (this carries over to DCD4 after too).  | DCD3       | QDamp            |
| Apr-05 | Room in brackets doesn't appear if only one room affected by damp or whatever.  | DCD4       | QDamp            |
| Apr-05 | At DCD3 - which room had worst mould/damp - you can code a room which isn't on the options list between 1-10. Not sure if this was supposed to be intentional, or if the check between the questions at dc2a to Dc2j aren't working quite right.  | DCD3, DCD2 |                  |
| Apr-05 | Included new harmonised blocks, taking on board new blocks and adding in SHC-specific changes as required.  |            |                  |
| Apr-05 | Amended screen information to match BDSS screen standards   |            |                  |
| Apr-05 | Routed in xTenBlk as not previously included in the rules   | xTenBlk    | QAccom           |
| May-05 | Can put in answers other than those that appear on screen (this carries over to DCD4 after too).  | DCD3       | QDamp            |
| May-05 | Room in brackets doesn't appear if only one room affected by damp or whatever.  | DCD4       | QDamp            |
| May-05 | At DCD3 - which room had worst mould/damp - you can code a room which isn't on the options list between 1-10. Not sure if this was supposed to be intentional, or if the check between the questions at dc2a to Dc2j aren't working quite right.  | DCD3, DCD2 |                  |
| May-05 | Add recall question (once agreed)   |            |                  |
| May-05 | Amended DC12 as not picking up new category from DC11 (9 - assistance from friend/relative/neighbour).  | DC12, DC11 | QDisable         |
| May-05 | Amended fields in QDisable to allow for 16 member household   |            | QDisable         |
| May-05 | An interviewer was interviewing at a household where there were two married couples (son/daughter-in-law and parents) and got a hard check in the household grid.   |            | QTAskRel2        |
| May-05 | Amendments to Qdatabag from Andrew Fryer incorporated   |            | QDatabag         |
| May-05 | Scroll bars at response categories at DHT14   | DHT14      | QUtility         |
| May-05 | Textfills amended in QILO as took harmonised block, so referring to Respondent rather than KeyHH  |            | QILO             |
| May-05 | A late change to the Benefits questions, involving the deletion of MatAll and replacing it with Inclus. Revised blocks QBen3 and QBenAmt3 included.   |            | QBen,<br>QBenAmt |

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| Month  | Change to be made  | Question        | Block         |
|--------|--|-----------------|---------------|
| Jul-05 | Can put in answers other than those that appear on screen (this carries over to DCD4 after too).   | DCD3            | QDamp1        |
| Jul-05 | Room in brackets doesn't appear if only one room affected by damp or whatever.   | DCD4            | QDamp1        |
| Jul-05 | At DCD3 - which room had worst mould/damp - you can code a room which isn't on the options list between 1-10. Not sure if this was supposed to be intentional, or if the check between the questions at dc2a to Dc2j aren't working quite right.                 | DCD3, DCD2      |               |
| Jul-05 | Add recall question (once agreed)  |                 |               |
| Jul-05 | Check that DOH8 (purch price after discount)<=DOH6 (purch price before discount  | DOH8            | QHomeOwn      |
| Jul-05 | Check that DOH8 (purch price after discount)<=(purch price LESS discount)  | DOH8            | QHomeOwn      |
| Jul-05 | Changed how old values of UA and Urblnd are kept   | UA, Urblnd      | Qatabag       |
| Jul-05 | Questions permit more than one "Other" answer, but there is no check that respondents avail themselves of the other questions in order   | DT47            | Qneighb       |
| Jul-05 | Questions permit more than one "Other" answer, but there is no check that respondents avail themselves of the other questions in order   | DCC10           | Qdisable      |
| Jul-05 | Questions permit more than one "Other" answer, but there is no check that respondents avail themselves of the other questions in order   | DCC11           | Qdisable      |
| Aug-05 | A soft check regarding the payment of widow's benefit is coming up even where a person does not claim widow's benefit  | Ben1Q and DVAGE | QBenefit2.SHC |
| Aug-05 | Text fill should distinguish between households with a single adult and one with a partner. This fails because we didn't harmonise household size. Formerly, NO PARTNER was indicated by 11; now it's indicated by 17. This really needs to be fixed for October | KeyHHPt         | QHEYHH.SHC    |

## 10.8 Social Validation Checks (Manipula)

| Check Number | Description of Error  |
|--------------|---|
| 2            | 'DHC8 : This woman is over 60 & should be retired.')  |
| 3            | 'DHC8 : This man is under 65 & should not be retired.')   |
| 4            | 'DHC8 : This woman is under 60 & should not be retired.')   |
| 5            | 'DHC8 : This man is over 65 & should not be unemployed.')   |
| 6            | 'DHC8 : This woman is over 60 & should not be unemployed.')   |
| 7            | 'DHC8 : This man is over 65 & should not be self employed.')  |
| 8            | 'DHC8 : This woman is over 60 & should not be self employed.')  |
| 11           | 'DHC8 : This person is younger than 16 & should not be in further ed.')   |
| 13           | 'DHC8 : This person is older than 18 & should not be in further ed.')   |
| 15           | 'DHC8 : This person is over 18 & should not be in school.')   |
| 17           | 'DHC8 : This child is under 4 & should not be in school.')  |
| 19           | 'DHC8 : This child is over 5 & should not be in pre-school.')   |
| 20           | 'DHC8 : This man is younger than 16 & should not be self employed.')  |
| 21           | 'DHC8 : This woman is younger than 16 & should not be self employed.')  |
| 22           | 'DHC8 : This man is younger than 16 & should not be in FT employment.')   |
| 23           | 'DHC8 : This woman is younger than 16 & should not be in FT employment.')   |
| 24           | 'DHC8 : This man is younger than 16 & should not be in PT employment.')   |
| 25           | 'DHC8 : This woman is younger than 16 & should not be in PT employment.')   |
| 26           | 'DHC8 : This man is younger than 16 & should not be unemployed/seeking work.')  |
| 27           | 'DHC8 : This woman is younger than 16 & should not be unemployed/seeking work.')  |
| 28           | 'DHC8 : This man is younger than 16 & should not be unable to work due to illness or injury.')                                    |
| 29           | 'DHC8 : This woman is younger than 16 & should not be unable to work due to illness or injury.')                                  |
| 30           | 'MarStat : Only one adult in household. Cannot be married and living with spouse.')   |
| 31           | 'MarStat : Odd number of married partners. Check MarStat and LiveWith.')  |
| 40           | 'TaskRel9 : A parent is usually 15+ years older than their child.')   |
| 41           | 'TaskRel10 : A step-parent is usually older than their step-child.')  |
| 42           | 'TaskRel11 : A parent-in-law is usually older than their child-in-law.')  |
| 43           | 'TaskRel9 : A parent is usually 15+ years older than their child.')   |
| 46           | 'TaskRel12 : A grand-parent is usually 30+ years older than their grand-child.')  |
| 47           | 'TaskRel12 : A grand-parent is usually 30+ years older than their grand-child.')  |
| 49           | 'TaskRel18 : This person is coded as cohabiting, but is under 16.')   |
| 50           | 'TaskRel21 : Person is a spouse, but both partners are not married within the house.')  |
| 51           | 'TaskRel22 : This person is coded as married, but is under 16.')  |
| 59           | 'KeyHH : Key Householder is less than 16 years of age.')  |
| 60           | 'HRPPart : HRP is coded as married and living with spouse, but then coded as having no partner.')                                 |
| 61           | 'KeyhhPt : Information in the household grid suggests the key householder does not have a spouse/partner.')                       |
| 62           | 'KeyhhPt : Information in the household grid suggests the key householder does have a spouse/partner.')                           |
| 63           | 'KeyhhPt : The number you have entered is not a valid member of the household.')  |
| 64           | 'KeyhhPt : Person identified as key householders partner is not coded as married or cohabiting in household grid.')               |
| 65           | 'Keyhhpt : Person identified as key householders partner is less than 16 years old.')   |
| 71           | 'RFrom : Recorded as Married but no spouse in relationship grid.')  |
| 72           | 'DHC12 : More than one household at this dwelling recorded, but then said no one else lives in home. Inconsistent. Check.')       |
| 73           | 'DHC13 : You cannot code none and any other response.')   |
| 74           | 'DHC14 : Number of people in home is equal to or less than the number of people in household but there are others living there.') |
| 78           | AccOth : Accommodation is a caravan. Check for eligibility and possibly replace case.')   |
| 79           | 'DT13 : Cannot be rent-free if landlord is local council or housing association. Amend.')   |
| 80           | 'DT13 : If respondent has mortgage please code as Own.')  |
| 81           | 'DT13 : If respondent doesnt pay rent please code as Own.')   |

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| Check Number | Description of Error  |
|--------------|---|
| 83           | 'DT28 : Other coded - '+' + QInter.QTenure.QLandlrd.DT28a)  |
| 84           | 'DT30 : Other coded - '+' + QInter.QTenure.QLandlrd.DT30a)  |
| 85           | 'DT35 : Other coded - '+' + QInter.QTenure.QOwners.DT35a)   |
| 86           | 'DT37 : Recorded that property bought from the local council but NOT that property previously owned by Council.')             |
| 87           | 'DT37 : Recorded that property bought from the local council but NOT that property previously owned by Council.')             |
| 88           | 'DT38Y : Respondent started renting this property before they were 16 years old.')  |
| 89           | 'DT39Y : Respondent started owning this property before they were 16 years old.')   |
| 90           | 'DT46 : Other coded - '+' + QInter.QTenure.QNeighb.DT46a)   |
| 91           | 'DT47 : Other coded - '+' + QInter.QTenure.QNeighb.DT47a)   |
| 92           | 'DT47 : Other coded - '+' + QInter.QTenure.QNeighb.DT47b)   |
| 93           | 'DT47 : Other coded - '+' + QInter.QTenure.QNeighb.DT47c)   |
| 94           | 'DT51 : These codes only apply to those living in flats.')  |
| 95           | 'DT51 : These codes only apply to those living in flats.')  |
| 99           | 'xDT68 : Other coded - '+' + QInter.QTenure.QPrevAdd.xDT68oth)  |
| 100          | 'DT69 : Other coded - '+' + QInter.QTenure.QPrevAdd.DT69a)  |
| 101          | 'DT70 : Other coded - '+' + QInter.QTenure.QPrevAdd.DT70a)  |
| 102          | 'DT71 : Other coded - '+' + QInter.QTenure.QPrevAdd.DT71a)  |
| 104          | 'DT61d : Sufficient postcode information was previously entered. Full or Sufficient postcode given expected.')                |
| 105          | 'DT61d : Insufficient postcode information was previously entered.')  |
| 106          | 'DT61d : Insufficient postcode information was previously entered.')  |
| 108          | 'DPF1 : Other coded - '+' + QInter.QPrefAcc.DPF1a)  |
| 109          | 'DPF7 : Other coded - '+' + QInter.QPrefAcc.DSPEC7)   |
| 110          | 'DPF8b : Other coded - '+' + QInter.QPrefAcc.DPF8b1)  |
| 111          | 'DPF8c : Other coded - '+' + QInter.QPrefAcc.DPF8c1)  |
| 113          | 'DPF4 : Detached house and already live in it is coded but does not match type of house coded earlier.')                      |
| 114          | 'DPF4 : Preferred accomodation is semidetached house and already live in it but does not match type of house coded earlier.') |
| 116          | 'DPF4 : Preferred accomodation is bungalow and already live in it but does not match type of house coded earlier.')           |
| 130          | 'DT48 : Response coded that was not mentioned at DT47.')  |
| 200          | 'DR2 : Entryphone generally applies to flats.')   |
| 203          | 'DR19 : Range check. Total annual spend on repairs was less than 50.')  |
| 204          | 'DR19 : Range check. Total annual spend on repairs was greater than 8,000.')  |
| 205          | 'DR3a : Some repair costs grouped together. Manual range check on figures required.')   |
| 206          | 'DR19 : Total spent on repairs is less than the individual cost of repairs minus any grants received.')                       |
| 351          | 'DR22 : Other coded - '+' + QInter.QRepair.Qneedrep.DSPEC22)  |
| 352          | 'DHT14 : Other coded - '+' + QInter.QUtility.DSPEC14)   |
| 353          | 'DHT1 : No kitchen at this address.')   |
| 354          | 'DHT1 : No bathroom at this address.')  |
| 355          | 'DHT1 : No bedroom at this address.')   |
| 356          | 'DHT1 : No main bedroom but another bedroom.')  |
| 357          | DHT1 : 3rd bedroom, but no 2nd bedroom.')   |
| 358          | DHT1 : Public room but not main living room.')  |
| 359          | DHT5 : Electricity not selected as fuel type.')   |
| 360          | DHT5 : More than 4 types of fuel are used for lighting/heating/power.')   |
| 361          | DHT5a : One fuel at DHT5 so should have selected Only one type of fuel at DHT5a.')  |
| 362          | DHT14 : No central heating at DHT14; but central heating at DHT2.')   |
| 370          | DHT5b : There should be more than one fuel bill in a single group.')  |
| 371          | DHT6b : Less than 10 entered.')   |
| 372          | DHT6b : Less than 10 entered.')   |
| 373          | DHT6b : Less than 10 entered.')   |
| 374          | DHT6b : Less than 10 entered.')   |

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| Check Number | Description of Error   |
|--------------|--|
| 375          | DHT6b : Less than 10 entered.')  |
| 376          | DHT6b : Less than 10 entered.')  |
| 377          | DHT6b : Less than 10 entered.')  |
| 378          | DHT6b : Less than 10 entered.')  |
| 379          | DHT6b : Bill for fuels paid together is less than 300 per year.')          |
| 380          | DHT6b : Bill for fuels paid together is more than 1358 per year.')         |
| 381          | DHT6b : Enter amount given at DHT6a but no amount given at DHT6b. Amend.') |
| 400          | DHT6b : Less than 10 entered.')  |
| 401          | DHT6b : Less than 10 entered.')  |
| 402          | DHT6b : Less than 10 entered.')  |
| 403          | DHT6b : Less than 10 entered.')  |
| 409          | DHT6b : Range check. Cost of gas is less than 168 a year.')                |
| 410          | DHT6b : Range check. Cost of heating oil is less than 300 a year.')        |
| 411          | DHT6b : Range check. Cost of solid fuel is less than 40 a year.')          |
| 412          | DHT6b : Range check. Cost of bottled gas is less than 15 a year.')         |
| 413          | DHT6b : Range check. Cost of propane gas is less than 43 a year.')         |
| 414          | DHT6b : Range check. Cost of paraffin is less than 3.8 a year.')           |
| 415          | DHT6b : Range check. Cost of other fuel is less than 4.6 a year.')         |
| 416          | DHT6b : Range check. Cost of electricity is more than 1200 a year.')       |
| 417          | DHT6b : Range check. Cost of gas is more than 936 a year.')                |
| 418          | DHT6b : Range check. Cost of heating oil is more than 1800 a year.')       |
| 419          | DHT6b : Range check. Cost of solid fuel is more than 1248 a year.')        |
| 420          | DHT6b : Range check. Cost of bottled gas is more than 600 a year.')        |
| 421          | DHT6b : Range check. Cost of propane gas is more than 2806 a year.')       |
| 422          | DHT6b : Range check. Cost of paraffin is more than 2400 a year.')          |
| 423          | DHT6b : Range check. Cost of other fuel is more than 1300 a year.')        |
| 425          | DHT6b : Range check. Electricity less than 160 per year.')                 |
| 426          | DHT6b : Range check. Gas less than 168 per year.')                         |
| 427          | DHT6b : Range check. Gas less than 168 per year.')                         |
| 428          | DHT6b : Range check. Oil less than 300 per year.')                         |
| 429          | DHT6b : Range check. Oil less than 300 per year.')                         |
| 430          | DHT6b : Range check. Oil less than 300 per year.')                         |
| 431          | DHT6b : Range check. Solid fuel less than 40 per year.')                   |
| 432          | DHT6b : Range check. Solid fuel less than 40 per year.')                   |
| 433          | DHT6b : Range check. Solid fuel less than 40 per year.')                   |
| 434          | DHT6b : Range check. Bottled Gas less than 15 per year.')                  |
| 436          | DHT6b : Range check. Bottled Gas less than 15 per year.')                  |
| 437          | DHT6b : Range check. Bottled Gas less than 15 per year.')                  |
| 438          | DHT6b : Range check. Bottled Gas less than 15 per year.')                  |
| 439          | DHT6b : Range check. Bottled Gas less than 15 per year.')                  |
| 440          | DHT6b : Range check. Liquid Propane Gas less than 43 per year.')           |
| 441          | DHT6b : Range check. Liquid Propane Gas less than 43 per year.')           |
| 442          | DHT6b : Range check. Liquid Propane Gas less than 43 per year.')           |
| 443          | DHT6b : Range check. Liquid Propane Gas less than 43 per year.')           |
| 444          | DHT6b : Range check. Liquid Propane Gas less than 43 per year.')           |
| 445          | DHT6b : Range check. Liquid Propane Gas less than 43 per year.')           |
| 446          | DHT6b : Range check. Electricity more than 1200 per year.')                |
| 447          | DHT6b : Range check. Gas more than 936 per year.')                         |
| 448          | DHT6b : Range check. Gas more than 936 per year.')                         |
| 449          | DHT6b : Range check. Oil more than 1800 per year.')                        |
| 450          | DHT6b : Range check. Oil more than 1800 per year.')                        |
| 451          | DHT6b : Range check. Oil more than 1800 per year.')                        |

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| Check Number | Description of Error   |
|--------------|--|
| 452          | DHT6b : Range check. Solid fuel more than 1248 per year.)                                  |
| 453          | DHT6b : Range check. Solid fuel more than 1248 per year.)                                  |
| 454          | DHT6b : Range check. Solid fuel more than 1248 per year.)                                  |
| 455          | DHT6b : Range check. Solid fuel more than 1248 per year.)                                  |
| 456          | DHT6b : Range check. Bottled Gas more than 600 per year.)                                  |
| 457          | DHT6b : Range check. Bottled Gas more than 600 per year.)                                  |
| 458          | DHT6b : Range check. Bottled Gas more than 600 per year.)                                  |
| 459          | DHT6b : Range check. Bottled Gas more than 600 per year.)                                  |
| 460          | DHT6b : Range check. Bottled Gas more than 600 per year.)                                  |
| 461          | DHT6b : Range check. Liquid Propane Gas more than 2806 per year.)                          |
| 462          | DHT6b : Range check. Liquid Propane Gas more than 2806 per year.)                          |
| 463          | DHT6b : Range check. Liquid Propane Gas more than 2806 per year.)                          |
| 464          | DHT6b : Range check. Liquid Propane Gas more than 2806 per year.)                          |
| 465          | DHT6b : Range check. Liquid Propane Gas more than 2806 per year.)                          |
| 466          | DHT6b : Range check. Liquid Propane Gas more than 2806 per year.)                          |
| 467          | DHT6b : Enter amount given at DHT6a but no amount given at DHT6b. Amend.)                  |
| 470          | DCD5 : Other coded '-' + QInter.QDamp.DCD5a)   |
| 471          | DCD1 : The respondent said there were some problems with damp and condensation.)           |
| 472          | DCC6 : Other coded '-' + QInter.QDisable.DSPEC6)   |
| 473          | DCC8a : Other coded '-' + QInter.QDisable.DSPEC8a)   |
| 474          | DCC8b : Other coded '-' + QInter.QDisable.DSPEC8b)   |
| 475          | DCC10 : Other coded '-' + QInter.QDisable.DSPEC10a)  |
| 476          | DCC11 : Other coded '-' + QInter.QDisable.DSPEC11a)  |
| 499          | DCC2 : Other coded '-' + QInter.QDisable.QADAPT[loop].DSPEC2)                              |
| 500          | DCC3 : Other coded '-' + QInter.QDisable.QADAPT[loop].DSPEC3)                              |
| 501          | 'DHE8 : Age of first asthma attack is greater than respondents current age.)               |
| 502          | 'DHE12 : Age of most recent asthma attack is greater than respondents current age.)        |
| 503          | 'DHE11/12 : Respondent was older at first asthma attack than most recent attack.)          |
| 504          | 'DHE12 : Age is not within 12 months of the age of respondent.)                            |
| 507          | 'Wrking : Recorded earlier that respondent in paid work.)                                  |
| 508          | 'Wrking : Recorded earlier that respondent was unemployed.)                                |
| 509          | 'Stat : Recorded as self-employed earlier. Inconsistent.)                                  |
| 510          | 'Stat : Recorded as full-time employee earlier. Inconsistent.)                             |
| 511          | 'Stat : Recorded as part-time employee earlier. Inconsistent.)                             |
| 512          | 'FiPtWk : Recorded as being in full-time employment earlier. Inconsistent.)                |
| 513          | 'FiPtWk : Recorded as being in part-time employment earlier. Inconsistent.)                |
| 518          | 'DVUSHr : KeyHH coded as working part-time but work more than 30 hours.)                   |
| 519          | 'DVUSHr : KeyHH coded as working full-time but work less than 30 hours.)                   |
| 520          | 'Usuhr : Overtime hours equal or exceed basic hours.)                                      |
| 521          | 'Usuhr : Overtime hours equal or exceed basic hours.)                                      |
| 523          | 'DOH11 : Other coded '-' + QInter.QHomeOwn.DOH11a)   |
| 530          | 'DOH15 : borrowed more for property than they did in total.)                               |
| 532          | 'DOH14a : borrowed more for property and repairs than did in total.)                       |
| 534          | 'DOH20 : Has had current mortgage for less than 5 years but has less than 5 years to run.) |
| 536          | 'DOH22 : Monthly mortgage of more than 1,500.)   |
| 537          | 'DOH24 : Total monthly loan and endowment payment of less than 100.)                       |
| 539          | 'DOH6 : Range check. House price before discount less than or equal to 14,000.)            |
| 540          | 'DOH6 : Range check. House price before discount more than or equal to 50,000.)            |
| 541          | 'DOH7 : Range check. Percentage discount less than or equal to 30 per cent.)               |
| 542          | 'DOH7 : Range check. Percentage discount greater than or equal to 75 per cent.)            |
| 543          | 'DOH8 : Range check. House price after discount less than or equal to 5,000.)              |
| 544          | 'DOH8 : Range check. House price after discount more than or equal to 25,000.)             |

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| Check Number | Description of Error  |
|--------------|---|
| 545          | 'DOH9 : Range check. House price less than or equal to 5,000.'  |
| 546          | 'DOH9 : Range check. House price more than or equal to 140,000.'  |
| 547          | 'DOH10 : Range check. Amount could sell house for less than or equal to 35,000.'                          |
| 548          | 'DOH10 : Range check. Amount could sell house for more than or equal to 250,000.'                         |
| 549          | 'DOH14a : Range check. Amount borrowed including repairs less than or equal to 9,000.'                    |
| 550          | 'DOH14a : Range check. Amount borrowed including repairs more than or equal to 85,000.'                   |
| 551          | 'DOH15a : Range check. Amount borrowed for purchase less than or equal to 6,210.'                         |
| 552          | 'DOH15a : Range check. Amount borrowed for purchase more than or equal to 55,000.'                        |
| 553          | 'DOH16a : Range check. Amount borrowed for repairs less than or equal to 1,000.'                          |
| 554          | 'DOH16a : Range check. Amount borrowed for repairs more than or equal to 20,000.'                         |
| 555          | 'DOH17 : Range check. Total amount borrowed less than or equal to 5,000.'                                 |
| 556          | 'DOH17 : Range check. Total amount borrowed more than or equal to 91,000.'                                |
| 557          | 'DOH22 : Range check. Monthly mortgage payment less than or equal to 10.'                                 |
| 558          | 'DOH22 : Range check. Monthly mortgage payment more than or equal to 650.'                                |
| 559          | 'DOH24 : Range check. Monthly endowment payment less than or equal to 10.'                                |
| 560          | 'DOH24 : Range check. Monthly endowment payment more than or equal to 200.'                               |
| 561          | 'DOH26 : Range check. Mortgage insurance less than or equal to 7.'  |
| 562          | 'DOH26 : Range check. Mortgage insurance more than or equal to 100.'                                      |
| 563          | 'DOH6 : House price before discount is less than price after discount.'                                   |
| 564          | 'DOH11 : No mortgage or loan to buy property but have one outstanding.'                                   |
| 569          | 'xRent : Respondent said they lived rent free, but paying rent.'  |
| 570          | 'Rebate : Respondent said they lived rent free but they receive 100% Housing Benefit.'                    |
| 571          | 'xRent : Respondent said they paid rent but have recorded £0 rent.'                                       |
| 574          | 'xRent : Monthly rent after benefit more than 400.'   |
| 575          | 'HBenAmt : Amount paid after HB is greater or equal to amount before HB is deducted.'                     |
| 576          | 'HBenAmt : Amount paid after HB is greater or equal to amount before HB is deducted.'                     |
| 577          | 'HBenAmt : Amount paid after HB is greater or equal to amount before HB is deducted.'                     |
| 578          | 'HBenAmt : Amount paid after HB is greater or equal to amount before HB is deducted.'                     |
| 579          | 'HBenAmt : Amount paid after HB is greater or equal to amount before HB is deducted.'                     |
| 580          | 'HBenAmt : Amount paid after HB is greater or equal to amount before HB is deducted.'                     |
| 581          | 'xRent/HBen : Time periods are different and amount paid after HB MAY be >= before HB is deducted.'       |
| 582          | 'xRent : Range check. Rent before HB is equal to or less than 1,500 per year.'                            |
| 583          | 'xRent : Range check. Rent before HB is equal to or greater than 4,800 per year.'                         |
| 584          | 'xRent : Range check. Rent after HB is equal to or less than 73 per year.'                                |
| 585          | 'DRH6a : Range check. Rent after HB is equal to or greater than 2,452 per year.'                          |
| 587          | 'xRent : Range check. Rent before HB is equal to or less than 1,500 per year.'                            |
| 588          | 'DIN1 : Respondent is over retirement age and receives pension, but not coded as retired or not working.' |
| 588          | 'DIN1 : Respondent is over retirement age and receives pension, but not coded as retired or not working.' |
| 589          | 'DIN35 : Partner is over retirement age and receives pension, but not coded as retired or not working.'   |
| 589          | 'DIN1 : Respondent is over retirement age and receives pension, but not coded as retired or not working.' |
| 590          | 'DIN35 : Partner is over retirement age and receives pension, but not coded as retired or not working.'   |
| 590          | 'DIN35 : Partner is over retirement age and receives pension, but not coded as retired or not working.'   |
| 591          | 'DIN1 : Partner is over retirement age and receives pension, but not coded as retired or not working.'    |
| 599          | 'DIN1 : No response at DIN1. Check this is a complete interview.'   |
| 600          | 'DIN1 : Not in paid work entered but earlier working was coded.'  |
| 601          | 'DIN1 : In paid work entered but earlier said were not working.'  |
| 602          | 'DIN1 : Retired but doing some work entered but earlier said permanently retired.'                        |
| 603          | 'DIN1 : Retired but doing some work entered but are aged under 60 years.'                                 |
| 604          | 'DIN1 : Maternity leave entered but male.'  |
| 605          | 'DIN1 : Student entered but earlier said that were not in education.'                                     |
| 606          | 'DIN3a/b : Employee entered but earlier said that self-employed.'   |
| 607          | 'DIN3a/b : Self-employed entered but earlier said employed.'  |

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| Check Number | Description of Error   |
|--------------|--|
| 608          | 'DIN5 : Income works out to be more than 50,000 per year.'   |
| 609          | 'DIN5 : Income works out to be less than 5,000 per year.'  |
| 610          | 'DIN9 : Income works out to be more than 50,000 per year.'   |
| 611          | 'DIN9 : Income works out to be less than 5,000 per year.'  |
| 612          | 'DIN13 : Income works out to be more than 50,000 per year.'  |
| 613          | 'DIN13 : Income works out to be less than 5,000 per year.'   |
| 614          | 'DIN17 : Income works out to be more than 50,000 per year.'  |
| 615          | 'DIN17 : Income works out to be less than 5,000 per year.'   |
| 616          | 'DIN21 : Income works out to be more than 50,000 per year.'  |
| 617          | 'DIN21 : Income works out to be less than 5,000 per year.'   |
| 618          | 'DIN25 : Number of hours worked is more than 100.'   |
| 619          | 'DIN24 : Income of more than 50,000 per year.'   |
| 620          | 'DIN24 : Income of less than 5,000 per year.'  |
| 621          | DIN27 : Income works out to be more than 50,000 per year.'   |
| 622          | DIN27 : Income works out to be less then 5,000 per year.'  |
| 623          | DIN31 : Income works out to be more than 50,000 per year.'   |
| 624          | DIN31 : Income works out to be less than 5,000 per year.'  |
| 625          | DIN35 : Spouse/partner not in paid work but earlier said that they were working.'                  |
| 626          | DIN35 : Spouse/partner not in paid work but earlier said that they were working.'                  |
| 627          | DIN35 : Spouse/partner is in paid work but earlier said that they were not working.'               |
| 628          | DIN35 : Spouse/partner is in paid work but earlier said that they were not working.'               |
| 629          | DIN35 : Maternity leave, but they are not female!')  |
| 630          | DIN35 : Maternity leave, but they are not female!')  |
| 631          | DIN35 : Spouse/partner is retired but doing some work, but earlier said that permanently retired.' |
| 632          | DIN35 : Spouse/partner is retired but doing some work, but earlier said that permanently retired.' |
| 635          | DIN35 : Student entered but earlier said they were not in education.'                              |
| 637          | 'DIN38 : Spouse/partner is an employee but earlier said that they were not.'                       |
| 638          | 'DIN38 : Spouse/partner is self-employed but earlier said they were not self-employed.'            |
| 639          | 'DIN38 : Spouse/partner is self-employed but earlier said they were not self-employed.'            |
| 640          | 'DIN40 : Income works out to be more than 50,000 per year.'  |
| 641          | 'DIN40 : Income works out to be less than 5,000 per year.'   |
| 642          | DIN45 : Income works out to be more than 50,000 per year.'   |
| 643          | DIN45 : Income works out to be less than 5,000 per year.'  |
| 644          | DIN49 : Income works out to be more than 50,000 per year.'   |
| 645          | DIN49 : Income works out to be less than 5,000 per year.'  |
| 646          | DIN53 : Income works out to be more than 50,000 per year.'   |
| 647          | DIN53 : Income works out to be less than 5,000 per year.'  |
| 648          | DIN57 : Income works out to be more than 50,000 per year.'   |
| 649          | DIN57 : Income works out to be less than 5,000 per year.'  |
| 650          | DIN60 : Income of more than 50,000 per year.'  |
| 651          | DIN60 : Income of less than 5,000 per year.'   |
| 652          | DIN61 : Number of hours worked is more than 100.'  |
| 653          | DIN63 : Income works out to be more than 50,000 per year.'   |
| 654          | DIN63 : Income works out to be less then 5,000 per year.'  |
| 655          | DIN64 : Income works out to be more than 50,000 per year.'   |
| 656          | DIN67 : Income works out to be less than 5,000 per year.'  |
| 657          | DIN7 : Respondent coded as working part-time but working more than 30 hours.'                      |
| 658          | DIN7 : Respondent coded as working full-time but working less than 30 hours.'                      |
| 659          | DIN42 : Partner coded as working full-time but working less than 30 hours.'                        |
| 660          | DIN63 : Income works out to be more than 50,000 per year.'   |
| 661          | DIN63 : Income works out to be less then 5,000 per year.'  |
| 662          | 'DIN35 : Check why Other Working recorded at DIN35.'   |

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| Check Number | Description of Error  |
|--------------|---|
| 663          | DIN8a : Enter amount given at DIN8a but no amount given at DIN8b. Amend.')                                      |
| 664          | DIN20a : Enter amount given at DIN20a but no amount given at DIN20b. Amend.')                                   |
| 665          | DIN4a : Enter amount given at DIN44a but no amount given at DIN4b. Amend.')                                     |
| 666          | DIN56a : Enter amount given at DIN56a but no amount given at DIN56b. Amend.')                                   |
| 680          | Ben1Q : Not in receipt of child benefit but are recorded as having children.')                                  |
| 681          | Ben1Q : Not in receipt of child benefit but someone 18 or under and in Further Ed recorded at DHC8.')           |
| 682          | Ben1Q : To receive Child Benefit there should be a dependent child in the household.')                          |
| 683          | Ben1Q : Respondent receiving both Retirement Pension/Old Persons Pension and Widows Pension.')                  |
| 684          | Ben1Q : Partner/spouse receiving both Retirement Pension/Old Persons Pension and Widows Pension.')              |
| 685          | Ben1Q : Both the respondent and the partner/spouse receiving both RP/Old Persons Pension and Widows Pension.')  |
| 688          | Ben1Q : Retirement Pension coded but respondent is under retirement age.')                                      |
| 689          | Ben1Q : Retirement Pension coded but neither respondent or partner are below retirement age.')                  |
| 690          | Ben1Q : respondent is recorded receiving Widows Benefit, but not coded as a widow in the Household Grid.')      |
| 691          | Ben1Q : Respondent is recorded as receiving Widows Pension, but this stops at the age of 65.')                  |
| 692          | Ben1Q : Respondent is recorded as receiving Widows Pension, but this stops at the age of 65.')                  |
| 693          | Ben1Q : Partner is recorded as receiving Widows Pension, but this stops at the age of 65.')                     |
| 694          | Ben1Q : Partner is recorded as receiving Widows Pension, but this stops at the age of 65.')                     |
| 695          | Ben1Q : Respondent and partner are both receiving Widows Pension, but this stops at the age of 65.')            |
| 696          | Ben1Q : Unusual for men to receive Widows Benefits.')   |
| 697          | Ben1Q : Unusual for men to receive Widows Benefits.')   |
| 698          | Ben1Q : Unusual for men to receive Widows Benefits.')   |
| 699          | Ben1Q : Respondent recorded as receiving Severe Disablement Allowance, but not recorded as being out of work.') |
| 702          | DisBen : Respondent claims DLA mobility but over 80.')  |
| 703          | DisBen : Respondent claims DLA mobility but over 80.')  |
| 704          | DisBen : Partner claims DLA mobility but over 80.')   |
| 705          | DisBen : Partner claims DLA mobility but over 80.')   |
| 707          | DisBen : Respondent claims DLA mobility but over 65.')  |
| 708          | DisBen : Partner claims DLA mobility but over 65.')   |
| 709          | DisBen : Partner claims DLA mobility but over 65.')   |
| 710          | DisBen : Respondent or spouse/partner receiving DLA but no one in the household with disability.')              |
| 711          | DisBen : Respondent or spouse/partner receiving DLA but no one in the household with disability.')              |
| 717          | Ben2Q : Respondent is coded as working and receiving JSA.')   |
| 718          | Ben2Q : Partner is coded as working and receiving JSA.')  |
| 719          | Ben2Q : Respondent is coded as working more than 15 hours per week and receiving JSA.')                         |
| 720          | Ben2Q : Partner is coded as working more than 15 hours per week and receiving JSA.')                            |
| 721          | Ben2Q : Respondent receiving both JSA and Income Support.')   |
| 722          | Ben2Q : Partner receiving both JSA and Income Support.')  |
| 723          | Ben2Q : Both respondent and partner receiving both JSA and Income Support.')                                    |
| 724          | Ben2Q : Respondent is self-employed and receiving JSA.')  |
| 725          | Ben2Q : Partner is self-employed and receiving JSA.')   |
| 726          | Ben2Q : Partner is working and receiving JSA.')   |
| 727          | Ben2Q : Partner is working and receiving JSA.')   |
| 728          | Ben2Q : Respondent is working and receiving JSA.')  |
| 729          | Ben2Q : Respondent is working and receiving JSA.')  |
| 730          | Ben2Q : Partner is self-employed and receiving JSA.')   |
| 731          | Ben2Q : Partner is self-employed and receiving JSA.')   |
| 732          | Ben2Q : Respondent or partner is working and receiving JSA.')   |
| 733          | Ben2Q : Respondent or partner is working and receiving JSA.')   |
| 734          | Ben2Q : Respondent and/or partner is self-employed and receiving JSA.')   |
| 735          | Ben2Q : Respondent receiving both Incapacity Benefit and RP.')  |
| 736          | Ben2Q : Partner receiving both Incapacity Benefit and RP.')   |

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| Check Number | Description of Error   |
|--------------|--|
| 737          | Ben2Q : Respondent recv'g both Statutory Sick Pay and Incapacity Benefit.')  |
| 738          | Ben2Q : Partner receiving both Statutory Sick Pay and Incapacity Benefit.')  |
| 739          | Ben2Q : Respondent receiving both Incapacity Benefit and Severe Disablement Allowance.')   |
| 740          | Ben2Q : Partner receiving both Incapacity Benefit and Severe Disablement Allowance.')  |
| 741          | TxCred : WTC received but no children and Keyhouseholder doesnt work for 30 or more hours a week.')                                |
| 742          | TxCred : WTC received and Keyhouseholder doesnt work for 16 or more hours per week. Check partner.')                               |
| 743          | TxCred : Child Tax Credit received but no child under 19 in the household.')   |
| 744          | Inclus : Key householder or partner receiving Statutory Maternity Pay but neither is working.')                                    |
| 745          | Ben2Q : Coded as working and receiving Maternity Allowance at the same time.')   |
| 746          | MatAll : Coded as receiving Maternity Allowance and Statutory Maternity Pay at the same time.')                                    |
| 747          | Ben1Q : Coded as receiving Guardians Allowance but not claiming Child Benefit.')   |
| 748          | Winter : Not old enough to be eligible for Winter Fuel Payment.')  |
| 749          | Winter : Not old enough to be eligible for Winter Fuel Payment.')  |
| 750          | Winter : Not old enough to be eligible for Winter Fuel Payment.')  |
| 751          | Winter : Not old enough to be eligible for Winter Fuel Payment.')  |
| 752          | Ben6m : In receipt of child maintenance bonus and/or lone-parent benefit run-on but no children.')                                 |
| 780          | ComBAM : Only 1 benefit recorded as being paid in combination.')   |
| 780          | AXNCobBen : Only 1 benefit recorded as being paid in combination.')  |
| 781          | QWintAm : Winter fuel payments over 200 per year, check that person is over 80.')  |
| 782          | QWintAm : Winter fuel payments over 300 per year.')  |
| 783          | QCBenAm : Child Benefit outside minimum amount 16.50 and maximum amount 104.90 per week.')   |
| 784          | QCBenAm.BPd : Unexpected Child Benefit amount.')   |
| 785          | QCBenAm : Child Benefit outside minimum amount 16.50 and maximum amount 104.90 per week.')   |
| 786          | QDLAMob : DLA Mobility payment outside expected weekly values of 41.05 or 15.55.')   |
| 787          | QDLACrAm : DLA Care outside expected weekly values of 58.80, 39.35 or 15.55.')   |
| 788          | QAtAllAm : Attendance Allowance outside expected weekly values of 58.80 or 39.35.')  |
| 789          | QCBenAm.Bmt : Range check. Child benefit less than or equal to 780 a year. Check number of children and whether lone parent.')     |
| 790          | QCBenAm.Bmt : Range check. Child benefit greater than or equal to 1976 a year. Check number of children and whether lone parent.') |
| 791          | QMatAlAm.Bmt : Range check. Maternity Allowance less than or equal to 196 a year.')  |
| 792          | QMatAlAm.Bmt : Range check. Maternity Allowance greater than or equal to 7,200 a year.')   |
| 793          | QNIPenAm.Bmt : Range check. Pension less than or equal to 2,111 a year.')  |
| 794          | QNIPenAm.Bmt : Range check. Pension greater than or equal to 8,684 a year.')   |
| 795          | QMatStAm.Bmt : Range check. Statutory Maternity Pay less than or equal to 1,040 a year.')  |
| 796          | QMatStAm.Bmt : Range check. Statutory Maternity Pay greater than or equal to 25,200 a year.')                                      |
| 797          | QOthBAm.Bmt : Range check. Other benefit less than or equal to 339 a year.')   |
| 798          | QOthBAm.Bmt : Range check. Other benefit greater than or equal to 10,230 a year.')   |
| 799          | QWidowAm.Bmt : Range check. Widows benefit less than or equal to 100 a year.')   |
| 800          | QWidowAm.Bmt : Range check. Widows benefit greater than or equal to 8,788 a year.')  |
| 801          | QIncapAm.Bmt : Range check. Incapacity benefit less than or equal to 1144 a year.')  |
| 802          | QIncapAm.Bmt : Range check. Incapacity benefit greater than or equal to 10,000 a year.')   |
| 803          | QDLACrAm.Bmt : Range check. DLA Care less than or equal to 672 a year.')   |
| 804          | QDLACrAm.Bmt : Range check. DLA Care greater than or equal to 4,633 a year.')  |
| 805          | QDLAMob.Bmt : Range check. DLA Mobility less than or equal to 728 a year.')  |
| 806          | QDLAMob.Bmt : Range check. DLA Mobility greater than or equal to 5,616 a year.')   |
| 808          | QInDisAm.Bmt : Range check. Industrial injuries disablement benefit less than or equal to 100 a year.')                            |
| 809          | QInDisAm.Bmt : Range check. Industrial injuries disablement benefit greater than or equal to 10,000 a year.')                      |
| 810          | QICareAm.Bmt : Range check. Invalid Care Allowance less than or equal to 1,258 a year.')   |
| 811          | QICareAm.Bmt : Range check. Invalid Care Allowance greater than or equal to 3,803 a year.')  |
| 812          | QSDisAm.Bmt : Range check. Severe Disablement Benefit less than or equal to 270 a year.')  |
| 813          | QSDisAm.Bmt : Range check. Severe Disablement Benefit greater than or equal to 4,446 a year.')                                     |
| 814          | QSickAm.Bmt : Range check. Statutory Sick Pay less than or equal to 1,752 a year.')  |

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| Check Number | Description of Error  |
|--------------|---|
| 815          | QSickAm.Bmt : Range check. Statutory Sick Pay greater than or equal to 6,130 a year.')                      |
| 816          | QWarPnAm.Bmt : Range check. War Disablement Benefit less than or equal to 256 a year.')                     |
| 817          | QWarPnAm.Bmt : Range check. War Disablement Benefit greater than or equal to 10,000 a year.')               |
| 818          | QAtAllAm.Bmt : Range check. Attendance Allowance less than or equal to 1,432 a year.')                      |
| 819          | QAtAllAm.Bmt : Range check. Attendance Allowance greater than or equal to 4,436 a year.')                   |
| 849          | 'HBen : Respondent/Partner receives Income Support so likely to receive HB but none recorded.')             |
| 855          | xCTAmt : Annual amount is more than 3000 per year.')  |
| 856          | xCtAmt : Range check. Council Tax is less than lowest charge.')   |
| 900          | Total benefits received greater than 16000 per annum.')   |
| 910          | DBM16 : Other coded '-' + QInter.QIncOth.DBM16a)  |
| 911          | DMB16 : One person household so cannot be getting dig money from others.')                                  |
| 912          | DBM17aa : Range check. Occupational pension is less than or equal to 100 per year.')                        |
| 913          | DBM17aa : Range check. Occupational pension is greater than or equal to 18,000 per year.')                  |
| 914          | DBM17ba : Range check. Annuity or Trust is less than or equal to 100 per year.')                            |
| 915          | DBM17ba : Range check. Annuity or Trust is greater than or equal to 24,000 per year.')                      |
| 916          | DBM17ca : Range check. Maintenance is less than or equal to 100 per year.')                                 |
| 917          | DBM17ca : Range check. Maintenance is greater than or equal to 10,000 per year.')                           |
| 918          | DBM17da : Range check. Rent from property is less than or equal to 100 per year.')                          |
| 919          | DBM17da : Range check. Rent from property is greater than or equal to 21,850 per year.')                    |
| 920          | DBM17ea : Range check. Dig money is less than or equal to 520 per year.')                                   |
| 921          | DBM17ea : Range check. Dig money is greater than or equal to 3604 per year.')                               |
| 922          | DBM17fa : Range check. Accident or Sickness scheme is less than or equal to 884 per year.')                 |
| 923          | DBM17fa : Range check. Accident or Sickness scheme is greater than or equal to 16800 per year.')            |
| 924          | DBM17ga : Range check. Investment income is less than or equal to 20 per year.')                            |
| 925          | DBM17ga : Range check. Investment income is greater than or equal to 8000 per year.')                       |
| 926          | DBM17ha : Range check. Student Loan is less than or equal to 1191 per year.')                               |
| 927          | DBM17ha : Range check. Student Loan is greater than or equal to 10610 per year.')                           |
| 928          | DBM17ia : Range check. Student grant is less than or equal to 97 per year.')                                |
| 929          | DBM17ia : Range check. Student grant is greater than or equal to 10200 per year.')                          |
| 930          | DBM17ja : Range check. Non work income is less than or equal to 100 per year.')                             |
| 931          | DBM17ja : Range check. Non work income is greater than or equal to 21,730 per year.')                       |
| 950          | NumDwel : Should be original estimate of number of dwellings.')   |
| 951          | DwelSel : Should be dwelling number selected at Kish Grid.')  |
| 952          | TypDwell : Not made contact with the selected dwelling entered but completed questions in main survey.')    |
| 953          | TypDwell : Dwelling coded as occupied and contacted but outcome code of the main survey is a non-contact.') |
| 954          | TypDwell : Unusually large number of primary households.')  |
| 955          | SecHome : Response expected if household has more than one home.')  |

### 10.9 Monthly changes to Blaise and SPSS variables

Major changes to the Blaise program were made in April 2005. These changes were to comply with new harmonised blocks (particularly the benefit block) and to increase the maximum number of people in the household from 10 to 16. The tables below identify both the Blaise and the SPSS variable names for the previous month (e.g. Feb 05) and for the current month (e.g. April 05). The absence of a Blaise name for the previous month indicates that the variable did not exist, i.e. a new variable was introduced. This was the case for all variables associated with an individual, as six new people (persons 11-16) had to be accommodated from April 05.

There are two final columns: MatchedB and MatchedS. These take on the values True or False. MatchedB means whether the Blaise new in the preceding month was the same as in the current month; MatchedS means whether the SPSS name in the preceding month was the same as in the current month.

The majority of changes occurred between February 05 and April 05. There were some additional changes that were necessary but had been overlooked in May 05.

| Period     | Block02 | BL0502 | SPSS0502 | Block04     | BL0504   | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|-------------|----------|----------|----------|----------|
| 502 to 504 |         |        |          | QBNames[11] | Name     | Name11   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBNames[12] | Name     | Name12   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBNames[13] | Name     | Name13   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBNames[14] | Name     | Name14   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBNames[15] | Name     | Name15   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBNames[16] | Name     | Name16   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11]  | Sex      | Sex11    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11]  | Birth    | Birth11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11]  | Agelf    | Agelf11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11]  | DVAge    | DVAge61  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11]  | MarStat  | MarSta11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11]  | LiveWith | LiveWi11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11]  | Hhldr    | Hhldr11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11]  | DHC8     | DHC18    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11]  | DVMarDF  | DVMarD11 | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504   | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|----------|----------|----------|----------|
| 502 to 504 |         |        |          | QHComp[11] | DVAge4   | DVAge62  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11] | DVAge5   | DVAge63  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11] | DVAge6   | DVAge64  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11] | DVAge9   | DVAge65  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11] | DVAge18  | DVAge66  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11] | WorkAge  | WorkAg11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[11] | JDate    | JDate11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | Sex      | Sex12    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | Birth    | Birth12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | Agelf    | Agelf12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | DVAge    | DVAge67  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | MarStat  | MarSta12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | LiveWith | LiveWi12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | Hhldr    | Hhldr12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | DHC8     | DHC19    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | DVMarDF  | DVMarD12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | DVAge4   | DVAge68  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | DVAge5   | DVAge69  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | DVAge6   | DVAge70  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | DVAge9   | DVAge71  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | DVAge18  | DVAge72  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | WorkAge  | WorkAg12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[12] | JDate    | JDate12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | Sex      | Sex13    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | Birth    | Birth13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | Agelf    | Agelf13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | DVAge    | DVAge73  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | MarStat  | MarSta13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | LiveWith | LiveWi13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | Hhldr    | Hhldr13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | DHC8     | DHC20    | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504   | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|----------|----------|----------|----------|
| 502 to 504 |         |        |          | QHComp[13] | DVMarDF  | DVMarD13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | DVAge4   | DVAge74  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | DVAge5   | DVAge75  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | DVAge6   | DVAge76  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | DVAge9   | DVAge77  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | DVAge18  | DVAge78  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | WorkAge  | WorkAg13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[13] | JDate    | JDate13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | Sex      | Sex14    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | Birth    | Birth14  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | Agelf    | Agelf14  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | DVAge    | DVAge79  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | MarStat  | MarSta14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | LiveWith | LiveWi14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | Hhldr    | Hhldr14  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | DHC8     | DHC21    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | DVMarDF  | DVMarD14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | DVAge4   | DVAge80  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | DVAge5   | DVAge81  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | DVAge6   | DVAge82  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | DVAge9   | DVAge83  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | DVAge18  | DVAge84  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | WorkAge  | WorkAg14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[14] | JDate    | JDate14  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | Sex      | Sex15    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | Birth    | Birth15  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | Agelf    | Agelf15  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | DVAge    | DVAge85  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | MarStat  | MarSta15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | LiveWith | LiveWi15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | Hhldr    | Hhldr15  | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504   | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|----------|----------|----------|----------|
| 502 to 504 |         |        |          | QHComp[15] | DHC8     | DHC22    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | DVMarDF  | DVMarD15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | DVAge4   | DVAge86  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | DVAge5   | DVAge87  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | DVAge6   | DVAge88  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | DVAge9   | DVAge89  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | DVAge18  | DVAge90  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | WorkAge  | WorkAg15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[15] | JDate    | JDate15  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | Sex      | Sex16    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | Birth    | Birth16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | Agelf    | Agelf16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | DVAge    | DVAge91  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | MarStat  | MarSta16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | LiveWith | LiveWi16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | Hhldr    | Hhldr16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | DHC8     | DHC23    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | DVMarDF  | DVMarD16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | DVAge4   | DVAge92  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | DVAge5   | DVAge93  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | DVAge6   | DVAge94  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | DVAge9   | DVAge95  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | DVAge18  | DVAge96  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | WorkAge  | WorkAg16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHComp[16] | JDate    | JDate16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[1] | R[11]    | R11      | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[1] | R[12]    | R12      | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[1] | R[13]    | R13      | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[1] | R[14]    | R14      | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[1] | R[15]    | R15      | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[1] | R[16]    | R16      | FALSE    | FALSE    |

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| Period     | Block02    | BL0502      | SPSS0502 | Block04    | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|------------|-------------|----------|------------|--------------|----------|----------|----------|
| 502 to 504 |            |             |          | QAskRel[1] | Rinverse[11] | Rinver11 | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[1] | Rinverse[12] | Rinver12 | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[1] | Rinverse[13] | Rinver13 | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[1] | Rinverse[14] | Rinver14 | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[1] | Rinverse[15] | Rinver15 | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[1] | Rinverse[16] | Rinver16 | FALSE    | FALSE    |
| 502 to 504 | QAskRel[2] | R[1]        | R11      | QAskRel[2] | R[1]         | R17      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | R[2]        | R12      | QAskRel[2] | R[2]         | R18      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | R[3]        | R13      | QAskRel[2] | R[3]         | R19      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | R[4]        | R14      | QAskRel[2] | R[4]         | R20      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | R[5]        | R15      | QAskRel[2] | R[5]         | R21      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | R[6]        | R16      | QAskRel[2] | R[6]         | R22      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | R[7]        | R17      | QAskRel[2] | R[7]         | R23      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | R[8]        | R18      | QAskRel[2] | R[8]         | R24      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | R[9]        | R19      | QAskRel[2] | R[9]         | R25      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | R[10]       | R20      | QAskRel[2] | R[10]        | R26      | TRUE     | FALSE    |
| 502 to 504 |            |             |          | QAskRel[2] | R[11]        | R27      | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[2] | R[12]        | R28      | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[2] | R[13]        | R29      | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[2] | R[14]        | R30      | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[2] | R[15]        | R31      | FALSE    | FALSE    |
| 502 to 504 |            |             |          | QAskRel[2] | R[16]        | R32      | FALSE    | FALSE    |
| 502 to 504 | QAskRel[2] | Rinverse[1] | Rinver11 | QAskRel[2] | Rinverse[1]  | Rinver17 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | Rinverse[2] | Rinver12 | QAskRel[2] | Rinverse[2]  | Rinver18 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | Rinverse[3] | Rinver13 | QAskRel[2] | Rinverse[3]  | Rinver19 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | Rinverse[4] | Rinver14 | QAskRel[2] | Rinverse[4]  | Rinver20 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | Rinverse[5] | Rinver15 | QAskRel[2] | Rinverse[5]  | Rinver21 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | Rinverse[6] | Rinver16 | QAskRel[2] | Rinverse[6]  | Rinver22 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | Rinverse[7] | Rinver17 | QAskRel[2] | Rinverse[7]  | Rinver23 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | Rinverse[8] | Rinver18 | QAskRel[2] | Rinverse[8]  | Rinver24 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[2] | Rinverse[9] | Rinver19 | QAskRel[2] | Rinverse[9]  | Rinver25 | TRUE     | FALSE    |

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| Period     | Block02    | BL0502       | SPSS0502 | Block04    | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|------------|--------------|----------|------------|--------------|----------|----------|----------|
| 502 to 504 | QAskRel[2] | Rinverse[10] | Rinver20 | QAskRel[2] | Rinverse[10] | Rinver26 | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[2] | Rinverse[11] | Rinver27 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[2] | Rinverse[12] | Rinver28 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[2] | Rinverse[13] | Rinver29 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[2] | Rinverse[14] | Rinver30 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[2] | Rinverse[15] | Rinver31 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[2] | Rinverse[16] | Rinver32 | FALSE    | FALSE    |
| 502 to 504 | QAskRel[3] | R[1]         | R21      | QAskRel[3] | R[1]         | R33      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | R[2]         | R22      | QAskRel[3] | R[2]         | R34      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | R[3]         | R23      | QAskRel[3] | R[3]         | R35      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | R[4]         | R24      | QAskRel[3] | R[4]         | R36      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | R[5]         | R25      | QAskRel[3] | R[5]         | R37      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | R[6]         | R26      | QAskRel[3] | R[6]         | R38      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | R[7]         | R27      | QAskRel[3] | R[7]         | R39      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | R[8]         | R28      | QAskRel[3] | R[8]         | R40      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | R[9]         | R29      | QAskRel[3] | R[9]         | R41      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | R[10]        | R30      | QAskRel[3] | R[10]        | R42      | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | R[11]        | R43      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | R[12]        | R44      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | R[13]        | R45      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | R[14]        | R46      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | R[15]        | R47      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | R[16]        | R48      | FALSE    | FALSE    |
| 502 to 504 | QAskRel[3] | Rinverse[1]  | Rinver21 | QAskRel[3] | Rinverse[1]  | Rinver33 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | Rinverse[2]  | Rinver22 | QAskRel[3] | Rinverse[2]  | Rinver34 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | Rinverse[3]  | Rinver23 | QAskRel[3] | Rinverse[3]  | Rinver35 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | Rinverse[4]  | Rinver24 | QAskRel[3] | Rinverse[4]  | Rinver36 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | Rinverse[5]  | Rinver25 | QAskRel[3] | Rinverse[5]  | Rinver37 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | Rinverse[6]  | Rinver26 | QAskRel[3] | Rinverse[6]  | Rinver38 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | Rinverse[7]  | Rinver27 | QAskRel[3] | Rinverse[7]  | Rinver39 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | Rinverse[8]  | Rinver28 | QAskRel[3] | Rinverse[8]  | Rinver40 | TRUE     | FALSE    |

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| Period     | Block02    | BL0502       | SPSS0502 | Block04    | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|------------|--------------|----------|------------|--------------|----------|----------|----------|
| 502 to 504 | QAskRel[3] | Rinverse[9]  | Rinver29 | QAskRel[3] | Rinverse[9]  | Rinver41 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[3] | Rinverse[10] | Rinver30 | QAskRel[3] | Rinverse[10] | Rinver42 | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | Rinverse[11] | Rinver43 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | Rinverse[12] | Rinver44 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | Rinverse[13] | Rinver45 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | Rinverse[14] | Rinver46 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | Rinverse[15] | Rinver47 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[3] | Rinverse[16] | Rinver48 | FALSE    | FALSE    |
| 502 to 504 | QAskRel[4] | R[1]         | R31      | QAskRel[4] | R[1]         | R49      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | R[2]         | R32      | QAskRel[4] | R[2]         | R50      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | R[3]         | R33      | QAskRel[4] | R[3]         | R51      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | R[4]         | R34      | QAskRel[4] | R[4]         | R52      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | R[5]         | R35      | QAskRel[4] | R[5]         | R53      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | R[6]         | R36      | QAskRel[4] | R[6]         | R54      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | R[7]         | R37      | QAskRel[4] | R[7]         | R55      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | R[8]         | R38      | QAskRel[4] | R[8]         | R56      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | R[9]         | R39      | QAskRel[4] | R[9]         | R57      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | R[10]        | R40      | QAskRel[4] | R[10]        | R58      | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | R[11]        | R59      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | R[12]        | R60      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | R[13]        | R61      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | R[14]        | R62      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | R[15]        | R63      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | R[16]        | R64      | FALSE    | FALSE    |
| 502 to 504 | QAskRel[4] | Rinverse[1]  | Rinver31 | QAskRel[4] | Rinverse[1]  | Rinver49 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | Rinverse[2]  | Rinver32 | QAskRel[4] | Rinverse[2]  | Rinver50 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | Rinverse[3]  | Rinver33 | QAskRel[4] | Rinverse[3]  | Rinver51 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | Rinverse[4]  | Rinver34 | QAskRel[4] | Rinverse[4]  | Rinver52 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | Rinverse[5]  | Rinver35 | QAskRel[4] | Rinverse[5]  | Rinver53 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | Rinverse[6]  | Rinver36 | QAskRel[4] | Rinverse[6]  | Rinver54 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | Rinverse[7]  | Rinver37 | QAskRel[4] | Rinverse[7]  | Rinver55 | TRUE     | FALSE    |

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| Period     | Block02    | BL0502       | SPSS0502 | Block04    | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|------------|--------------|----------|------------|--------------|----------|----------|----------|
| 502 to 504 | QAskRel[4] | Rinverse[8]  | Rinver38 | QAskRel[4] | Rinverse[8]  | Rinver56 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | Rinverse[9]  | Rinver39 | QAskRel[4] | Rinverse[9]  | Rinver57 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[4] | Rinverse[10] | Rinver40 | QAskRel[4] | Rinverse[10] | Rinver58 | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | Rinverse[11] | Rinver59 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | Rinverse[12] | Rinver60 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | Rinverse[13] | Rinver61 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | Rinverse[14] | Rinver62 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | Rinverse[15] | Rinver63 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[4] | Rinverse[16] | Rinver64 | FALSE    | FALSE    |
| 502 to 504 | QAskRel[5] | R[1]         | R41      | QAskRel[5] | R[1]         | R65      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | R[2]         | R42      | QAskRel[5] | R[2]         | R66      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | R[3]         | R43      | QAskRel[5] | R[3]         | R67      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | R[4]         | R44      | QAskRel[5] | R[4]         | R68      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | R[5]         | R45      | QAskRel[5] | R[5]         | R69      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | R[6]         | R46      | QAskRel[5] | R[6]         | R70      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | R[7]         | R47      | QAskRel[5] | R[7]         | R71      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | R[8]         | R48      | QAskRel[5] | R[8]         | R72      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | R[9]         | R49      | QAskRel[5] | R[9]         | R73      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | R[10]        | R50      | QAskRel[5] | R[10]        | R74      | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | R[11]        | R75      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | R[12]        | R76      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | R[13]        | R77      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | R[14]        | R78      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | R[15]        | R79      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | R[16]        | R80      | FALSE    | FALSE    |
| 502 to 504 | QAskRel[5] | Rinverse[1]  | Rinver41 | QAskRel[5] | Rinverse[1]  | Rinver65 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | Rinverse[2]  | Rinver42 | QAskRel[5] | Rinverse[2]  | Rinver66 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | Rinverse[3]  | Rinver43 | QAskRel[5] | Rinverse[3]  | Rinver67 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | Rinverse[4]  | Rinver44 | QAskRel[5] | Rinverse[4]  | Rinver68 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | Rinverse[5]  | Rinver45 | QAskRel[5] | Rinverse[5]  | Rinver69 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | Rinverse[6]  | Rinver46 | QAskRel[5] | Rinverse[6]  | Rinver70 | TRUE     | FALSE    |

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| Period     | Block02    | BL0502       | SPSS0502 | Block04    | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|------------|--------------|----------|------------|--------------|----------|----------|----------|
| 502 to 504 | QAskRel[5] | Rinverse[7]  | Rinver47 | QAskRel[5] | Rinverse[7]  | Rinver71 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | Rinverse[8]  | Rinver48 | QAskRel[5] | Rinverse[8]  | Rinver72 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | Rinverse[9]  | Rinver49 | QAskRel[5] | Rinverse[9]  | Rinver73 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[5] | Rinverse[10] | Rinver50 | QAskRel[5] | Rinverse[10] | Rinver74 | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | Rinverse[11] | Rinver75 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | Rinverse[12] | Rinver76 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | Rinverse[13] | Rinver77 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | Rinverse[14] | Rinver78 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | Rinverse[15] | Rinver79 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[5] | Rinverse[16] | Rinver80 | FALSE    | FALSE    |
| 502 to 504 | QAskRel[6] | R[1]         | R51      | QAskRel[6] | R[1]         | R81      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | R[2]         | R52      | QAskRel[6] | R[2]         | R82      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | R[3]         | R53      | QAskRel[6] | R[3]         | R83      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | R[4]         | R54      | QAskRel[6] | R[4]         | R84      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | R[5]         | R55      | QAskRel[6] | R[5]         | R85      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | R[6]         | R56      | QAskRel[6] | R[6]         | R86      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | R[7]         | R57      | QAskRel[6] | R[7]         | R87      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | R[8]         | R58      | QAskRel[6] | R[8]         | R88      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | R[9]         | R59      | QAskRel[6] | R[9]         | R89      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | R[10]        | R60      | QAskRel[6] | R[10]        | R90      | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | R[11]        | R91      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | R[12]        | R92      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | R[13]        | R93      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | R[14]        | R94      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | R[15]        | R95      | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | R[16]        | R96      | FALSE    | FALSE    |
| 502 to 504 | QAskRel[6] | Rinverse[1]  | Rinver51 | QAskRel[6] | Rinverse[1]  | Rinver81 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | Rinverse[2]  | Rinver52 | QAskRel[6] | Rinverse[2]  | Rinver82 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | Rinverse[3]  | Rinver53 | QAskRel[6] | Rinverse[3]  | Rinver83 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | Rinverse[4]  | Rinver54 | QAskRel[6] | Rinverse[4]  | Rinver84 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | Rinverse[5]  | Rinver55 | QAskRel[6] | Rinverse[5]  | Rinver85 | TRUE     | FALSE    |

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| Period     | Block02    | BL0502       | SPSS0502 | Block04    | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|------------|--------------|----------|------------|--------------|----------|----------|----------|
| 502 to 504 | QAskRel[6] | Rinverse[6]  | Rinver56 | QAskRel[6] | Rinverse[6]  | Rinver86 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | Rinverse[7]  | Rinver57 | QAskRel[6] | Rinverse[7]  | Rinver87 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | Rinverse[8]  | Rinver58 | QAskRel[6] | Rinverse[8]  | Rinver88 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | Rinverse[9]  | Rinver59 | QAskRel[6] | Rinverse[9]  | Rinver89 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[6] | Rinverse[10] | Rinver60 | QAskRel[6] | Rinverse[10] | Rinver90 | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | Rinverse[11] | Rinver91 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | Rinverse[12] | Rinver92 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | Rinverse[13] | Rinver93 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | Rinverse[14] | Rinver94 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | Rinverse[15] | Rinver95 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[6] | Rinverse[16] | Rinver96 | FALSE    | FALSE    |
| 502 to 504 | QAskRel[7] | R[1]         | R61      | QAskRel[7] | R[1]         | R97      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | R[2]         | R62      | QAskRel[7] | R[2]         | R98      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | R[3]         | R63      | QAskRel[7] | R[3]         | R99      | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | R[4]         | R64      | QAskRel[7] | R[4]         | R100     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | R[5]         | R65      | QAskRel[7] | R[5]         | R101     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | R[6]         | R66      | QAskRel[7] | R[6]         | R102     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | R[7]         | R67      | QAskRel[7] | R[7]         | R103     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | R[8]         | R68      | QAskRel[7] | R[8]         | R104     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | R[9]         | R69      | QAskRel[7] | R[9]         | R105     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | R[10]        | R70      | QAskRel[7] | R[10]        | R106     | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | R[11]        | R107     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | R[12]        | R108     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | R[13]        | R109     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | R[14]        | R110     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | R[15]        | R111     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | R[16]        | R112     | FALSE    | FALSE    |
| 502 to 504 | QAskRel[7] | Rinverse[1]  | Rinver61 | QAskRel[7] | Rinverse[1]  | Rinver97 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | Rinverse[2]  | Rinver62 | QAskRel[7] | Rinverse[2]  | Rinver98 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | Rinverse[3]  | Rinver63 | QAskRel[7] | Rinverse[3]  | Rinver99 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | Rinverse[4]  | Rinver64 | QAskRel[7] | Rinverse[4]  | Rinve100 | TRUE     | FALSE    |

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| Period     | Block02    | BL0502       | SPSS0502 | Block04    | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|------------|--------------|----------|------------|--------------|----------|----------|----------|
| 502 to 504 | QAskRel[7] | Rinverse[5]  | Rinver65 | QAskRel[7] | Rinverse[5]  | Rinve101 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | Rinverse[6]  | Rinver66 | QAskRel[7] | Rinverse[6]  | Rinve102 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | Rinverse[7]  | Rinver67 | QAskRel[7] | Rinverse[7]  | Rinve103 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | Rinverse[8]  | Rinver68 | QAskRel[7] | Rinverse[8]  | Rinve104 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | Rinverse[9]  | Rinver69 | QAskRel[7] | Rinverse[9]  | Rinve105 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[7] | Rinverse[10] | Rinver70 | QAskRel[7] | Rinverse[10] | Rinve106 | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | Rinverse[11] | Rinve107 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | Rinverse[12] | Rinve108 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | Rinverse[13] | Rinve109 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | Rinverse[14] | Rinve110 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | Rinverse[15] | Rinve111 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[7] | Rinverse[16] | Rinve112 | FALSE    | FALSE    |
| 502 to 504 | QAskRel[8] | R[1]         | R71      | QAskRel[8] | R[1]         | R113     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | R[2]         | R72      | QAskRel[8] | R[2]         | R114     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | R[3]         | R73      | QAskRel[8] | R[3]         | R115     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | R[4]         | R74      | QAskRel[8] | R[4]         | R116     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | R[5]         | R75      | QAskRel[8] | R[5]         | R117     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | R[6]         | R76      | QAskRel[8] | R[6]         | R118     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | R[7]         | R77      | QAskRel[8] | R[7]         | R119     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | R[8]         | R78      | QAskRel[8] | R[8]         | R120     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | R[9]         | R79      | QAskRel[8] | R[9]         | R121     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | R[10]        | R80      | QAskRel[8] | R[10]        | R122     | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | R[11]        | R123     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | R[12]        | R124     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | R[13]        | R125     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | R[14]        | R126     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | R[15]        | R127     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | R[16]        | R128     | FALSE    | FALSE    |
| 502 to 504 | QAskRel[8] | Rinverse[1]  | Rinver71 | QAskRel[8] | Rinverse[1]  | Rinve113 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | Rinverse[2]  | Rinver72 | QAskRel[8] | Rinverse[2]  | Rinve114 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | Rinverse[3]  | Rinver73 | QAskRel[8] | Rinverse[3]  | Rinve115 | TRUE     | FALSE    |

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| Period     | Block02    | BL0502       | SPSS0502 | Block04    | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|------------|--------------|----------|------------|--------------|----------|----------|----------|
| 502 to 504 | QAskRel[8] | Rinverse[4]  | Rinver74 | QAskRel[8] | Rinverse[4]  | Rinve116 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | Rinverse[5]  | Rinver75 | QAskRel[8] | Rinverse[5]  | Rinve117 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | Rinverse[6]  | Rinver76 | QAskRel[8] | Rinverse[6]  | Rinve118 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | Rinverse[7]  | Rinver77 | QAskRel[8] | Rinverse[7]  | Rinve119 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | Rinverse[8]  | Rinver78 | QAskRel[8] | Rinverse[8]  | Rinve120 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | Rinverse[9]  | Rinver79 | QAskRel[8] | Rinverse[9]  | Rinve121 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[8] | Rinverse[10] | Rinver80 | QAskRel[8] | Rinverse[10] | Rinve122 | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | Rinverse[11] | Rinve123 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | Rinverse[12] | Rinve124 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | Rinverse[13] | Rinve125 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | Rinverse[14] | Rinve126 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | Rinverse[15] | Rinve127 | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[8] | Rinverse[16] | Rinve128 | FALSE    | FALSE    |
| 502 to 504 | QAskRel[9] | R[1]         | R81      | QAskRel[9] | R[1]         | R129     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | R[2]         | R82      | QAskRel[9] | R[2]         | R130     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | R[3]         | R83      | QAskRel[9] | R[3]         | R131     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | R[4]         | R84      | QAskRel[9] | R[4]         | R132     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | R[5]         | R85      | QAskRel[9] | R[5]         | R133     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | R[6]         | R86      | QAskRel[9] | R[6]         | R134     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | R[7]         | R87      | QAskRel[9] | R[7]         | R135     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | R[8]         | R88      | QAskRel[9] | R[8]         | R136     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | R[9]         | R89      | QAskRel[9] | R[9]         | R137     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | R[10]        | R90      | QAskRel[9] | R[10]        | R138     | TRUE     | FALSE    |
| 502 to 504 |            |              |          | QAskRel[9] | R[11]        | R139     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[9] | R[12]        | R140     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[9] | R[13]        | R141     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[9] | R[14]        | R142     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[9] | R[15]        | R143     | FALSE    | FALSE    |
| 502 to 504 |            |              |          | QAskRel[9] | R[16]        | R144     | FALSE    | FALSE    |
| 502 to 504 | QAskRel[9] | Rinverse[1]  | Rinver81 | QAskRel[9] | Rinverse[1]  | Rinve129 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9] | Rinverse[2]  | Rinver82 | QAskRel[9] | Rinverse[2]  | Rinve130 | TRUE     | FALSE    |

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| Period     | Block02     | BL0502       | SPSS0502 | Block04     | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|-------------|--------------|----------|-------------|--------------|----------|----------|----------|
| 502 to 504 | QAskRel[9]  | Rinverse[3]  | Rinver83 | QAskRel[9]  | Rinverse[3]  | Rinve131 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9]  | Rinverse[4]  | Rinver84 | QAskRel[9]  | Rinverse[4]  | Rinve132 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9]  | Rinverse[5]  | Rinver85 | QAskRel[9]  | Rinverse[5]  | Rinve133 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9]  | Rinverse[6]  | Rinver86 | QAskRel[9]  | Rinverse[6]  | Rinve134 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9]  | Rinverse[7]  | Rinver87 | QAskRel[9]  | Rinverse[7]  | Rinve135 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9]  | Rinverse[8]  | Rinver88 | QAskRel[9]  | Rinverse[8]  | Rinve136 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9]  | Rinverse[9]  | Rinver89 | QAskRel[9]  | Rinverse[9]  | Rinve137 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[9]  | Rinverse[10] | Rinver90 | QAskRel[9]  | Rinverse[10] | Rinve138 | TRUE     | FALSE    |
| 502 to 504 |             |              |          | QAskRel[9]  | Rinverse[11] | Rinve139 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[9]  | Rinverse[12] | Rinve140 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[9]  | Rinverse[13] | Rinve141 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[9]  | Rinverse[14] | Rinve142 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[9]  | Rinverse[15] | Rinve143 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[9]  | Rinverse[16] | Rinve144 | FALSE    | FALSE    |
| 502 to 504 | QAskRel[10] | R[1]         | R91      | QAskRel[10] | R[1]         | R145     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | R[2]         | R92      | QAskRel[10] | R[2]         | R146     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | R[3]         | R93      | QAskRel[10] | R[3]         | R147     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | R[4]         | R94      | QAskRel[10] | R[4]         | R148     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | R[5]         | R95      | QAskRel[10] | R[5]         | R149     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | R[6]         | R96      | QAskRel[10] | R[6]         | R150     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | R[7]         | R97      | QAskRel[10] | R[7]         | R151     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | R[8]         | R98      | QAskRel[10] | R[8]         | R152     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | R[9]         | R99      | QAskRel[10] | R[9]         | R153     | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | R[10]        | R100     | QAskRel[10] | R[10]        | R154     | TRUE     | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | R[11]        | R155     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | R[12]        | R156     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | R[13]        | R157     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | R[14]        | R158     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | R[15]        | R159     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | R[16]        | R160     | FALSE    | FALSE    |
| 502 to 504 | QAskRel[10] | Rinverse[1]  | Rinver91 | QAskRel[10] | Rinverse[1]  | Rinve145 | TRUE     | FALSE    |

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| Period     | Block02     | BL0502       | SPSS0502 | Block04     | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|-------------|--------------|----------|-------------|--------------|----------|----------|----------|
| 502 to 504 | QAskRel[10] | Rinverse[2]  | Rinver92 | QAskRel[10] | Rinverse[2]  | Rinve146 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | Rinverse[3]  | Rinver93 | QAskRel[10] | Rinverse[3]  | Rinve147 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | Rinverse[4]  | Rinver94 | QAskRel[10] | Rinverse[4]  | Rinve148 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | Rinverse[5]  | Rinver95 | QAskRel[10] | Rinverse[5]  | Rinve149 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | Rinverse[6]  | Rinver96 | QAskRel[10] | Rinverse[6]  | Rinve150 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | Rinverse[7]  | Rinver97 | QAskRel[10] | Rinverse[7]  | Rinve151 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | Rinverse[8]  | Rinver98 | QAskRel[10] | Rinverse[8]  | Rinve152 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | Rinverse[9]  | Rinver99 | QAskRel[10] | Rinverse[9]  | Rinve153 | TRUE     | FALSE    |
| 502 to 504 | QAskRel[10] | Rinverse[10] | Rinve100 | QAskRel[10] | Rinverse[10] | Rinve154 | TRUE     | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | Rinverse[11] | Rinve155 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | Rinverse[12] | Rinve156 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | Rinverse[13] | Rinve157 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | Rinverse[14] | Rinve158 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | Rinverse[15] | Rinve159 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[10] | Rinverse[16] | Rinve160 | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[1]         | R161     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[2]         | R162     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[3]         | R163     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[4]         | R164     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[5]         | R165     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[6]         | R166     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[7]         | R167     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[8]         | R168     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[9]         | R169     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[10]        | R170     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[11]        | R171     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[12]        | R172     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[13]        | R173     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[14]        | R174     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[15]        | R175     | FALSE    | FALSE    |
| 502 to 504 |             |              |          | QAskRel[11] | R[16]        | R176     | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04     | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|-------------|--------------|----------|----------|----------|
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[1]  | Rinve161 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[2]  | Rinve162 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[3]  | Rinve163 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[4]  | Rinve164 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[5]  | Rinve165 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[6]  | Rinve166 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[7]  | Rinve167 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[8]  | Rinve168 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[9]  | Rinve169 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[10] | Rinve170 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[11] | Rinve171 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[12] | Rinve172 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[13] | Rinve173 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[14] | Rinve174 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[15] | Rinve175 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Rinverse[16] | Rinve176 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[11] | Count        | Count11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[1]         | R177     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[2]         | R178     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[3]         | R179     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[4]         | R180     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[5]         | R181     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[6]         | R182     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[7]         | R183     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[8]         | R184     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[9]         | R185     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[10]        | R186     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[11]        | R187     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[12]        | R188     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[13]        | R189     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[14]        | R190     | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04     | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|-------------|--------------|----------|----------|----------|
| 502 to 504 |         |        |          | QAskRel[12] | R[15]        | R191     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | R[16]        | R192     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[1]  | Rinve177 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[2]  | Rinve178 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[3]  | Rinve179 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[4]  | Rinve180 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[5]  | Rinve181 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[6]  | Rinve182 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[7]  | Rinve183 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[8]  | Rinve184 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[9]  | Rinve185 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[10] | Rinve186 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[11] | Rinve187 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[12] | Rinve188 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[13] | Rinve189 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[14] | Rinve190 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[15] | Rinve191 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Rinverse[16] | Rinve192 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[12] | Count        | Count12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[1]         | R193     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[2]         | R194     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[3]         | R195     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[4]         | R196     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[5]         | R197     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[6]         | R198     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[7]         | R199     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[8]         | R200     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[9]         | R201     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[10]        | R202     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[11]        | R203     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[12]        | R204     | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04     | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|-------------|--------------|----------|----------|----------|
| 502 to 504 |         |        |          | QAskRel[13] | R[13]        | R205     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[14]        | R206     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[15]        | R207     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | R[16]        | R208     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[1]  | Rinve193 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[2]  | Rinve194 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[3]  | Rinve195 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[4]  | Rinve196 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[5]  | Rinve197 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[6]  | Rinve198 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[7]  | Rinve199 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[8]  | Rinve200 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[9]  | Rinve201 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[10] | Rinve202 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[11] | Rinve203 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[12] | Rinve204 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[13] | Rinve205 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[14] | Rinve206 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[15] | Rinve207 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Rinverse[16] | Rinve208 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[13] | Count        | Count13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[1]         | R209     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[2]         | R210     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[3]         | R211     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[4]         | R212     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[5]         | R213     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[6]         | R214     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[7]         | R215     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[8]         | R216     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[9]         | R217     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[10]        | R218     | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04     | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|-------------|--------------|----------|----------|----------|
| 502 to 504 |         |        |          | QAskRel[14] | R[11]        | R219     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[12]        | R220     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[13]        | R221     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[14]        | R222     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[15]        | R223     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | R[16]        | R224     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[1]  | Rinve209 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[2]  | Rinve210 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[3]  | Rinve211 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[4]  | Rinve212 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[5]  | Rinve213 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[6]  | Rinve214 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[7]  | Rinve215 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[8]  | Rinve216 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[9]  | Rinve217 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[10] | Rinve218 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[11] | Rinve219 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[12] | Rinve220 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[13] | Rinve221 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[14] | Rinve222 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[15] | Rinve223 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Rinverse[16] | Rinve224 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[14] | Count        | Count14  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[1]         | R225     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[2]         | R226     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[3]         | R227     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[4]         | R228     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[5]         | R229     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[6]         | R230     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[7]         | R231     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[8]         | R232     | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04     | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|-------------|--------------|----------|----------|----------|
| 502 to 504 |         |        |          | QAskRel[15] | R[9]         | R233     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[10]        | R234     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[11]        | R235     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[12]        | R236     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[13]        | R237     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[14]        | R238     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[15]        | R239     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | R[16]        | R240     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[1]  | Rinve225 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[2]  | Rinve226 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[3]  | Rinve227 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[4]  | Rinve228 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[5]  | Rinve229 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[6]  | Rinve230 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[7]  | Rinve231 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[8]  | Rinve232 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[9]  | Rinve233 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[10] | Rinve234 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[11] | Rinve235 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[12] | Rinve236 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[13] | Rinve237 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[14] | Rinve238 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[15] | Rinve239 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Rinverse[16] | Rinve240 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[15] | Count        | Count15  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[1]         | R241     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[2]         | R242     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[3]         | R243     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[4]         | R244     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[5]         | R245     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[6]         | R246     | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04     | BL0504       | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|-------------|--------------|----------|----------|----------|
| 502 to 504 |         |        |          | QAskRel[16] | R[7]         | R247     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[8]         | R248     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[9]         | R249     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[10]        | R250     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[11]        | R251     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[12]        | R252     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[13]        | R253     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[14]        | R254     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[15]        | R255     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | R[16]        | R256     | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[1]  | Rinve241 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[2]  | Rinve242 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[3]  | Rinve243 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[4]  | Rinve244 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[5]  | Rinve245 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[6]  | Rinve246 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[7]  | Rinve247 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[8]  | Rinve248 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[9]  | Rinve249 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[10] | Rinve250 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[11] | Rinve251 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[12] | Rinve252 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[13] | Rinve253 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[14] | Rinve254 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[15] | Rinve255 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Rinverse[16] | Rinve256 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAskRel[16] | Count        | Count16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[1]   | RFrom[11]    | RFrom11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[1]   | RFrom[12]    | RFrom12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[1]   | RFrom[13]    | RFrom13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[1]   | RFrom[14]    | RFrom14  | FALSE    | FALSE    |

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| Period     | Block02   | BL0502    | SPSS0502 | Block04   | BL0504    | SPSS0504 | MatchedB | MatchedS |
|------------|-----------|-----------|----------|-----------|-----------|----------|----------|----------|
| 502 to 504 |           |           |          | QRelTo[1] | RFrom[15] | RFrom15  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[1] | RFrom[16] | RFrom16  | FALSE    | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[1]  | RFrom11  | QRelTo[2] | RFrom[1]  | RFrom17  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[2]  | RFrom12  | QRelTo[2] | RFrom[2]  | RFrom18  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[3]  | RFrom13  | QRelTo[2] | RFrom[3]  | RFrom19  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[4]  | RFrom14  | QRelTo[2] | RFrom[4]  | RFrom20  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[5]  | RFrom15  | QRelTo[2] | RFrom[5]  | RFrom21  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[6]  | RFrom16  | QRelTo[2] | RFrom[6]  | RFrom22  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[7]  | RFrom17  | QRelTo[2] | RFrom[7]  | RFrom23  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[8]  | RFrom18  | QRelTo[2] | RFrom[8]  | RFrom24  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[9]  | RFrom19  | QRelTo[2] | RFrom[9]  | RFrom25  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[2] | RFrom[10] | RFrom20  | QRelTo[2] | RFrom[10] | RFrom26  | TRUE     | FALSE    |
| 502 to 504 |           |           |          | QRelTo[2] | RFrom[11] | RFrom27  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[2] | RFrom[12] | RFrom28  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[2] | RFrom[13] | RFrom29  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[2] | RFrom[14] | RFrom30  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[2] | RFrom[15] | RFrom31  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[2] | RFrom[16] | RFrom32  | FALSE    | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[1]  | RFrom21  | QRelTo[3] | RFrom[1]  | RFrom33  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[2]  | RFrom22  | QRelTo[3] | RFrom[2]  | RFrom34  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[3]  | RFrom23  | QRelTo[3] | RFrom[3]  | RFrom35  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[4]  | RFrom24  | QRelTo[3] | RFrom[4]  | RFrom36  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[5]  | RFrom25  | QRelTo[3] | RFrom[5]  | RFrom37  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[6]  | RFrom26  | QRelTo[3] | RFrom[6]  | RFrom38  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[7]  | RFrom27  | QRelTo[3] | RFrom[7]  | RFrom39  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[8]  | RFrom28  | QRelTo[3] | RFrom[8]  | RFrom40  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[9]  | RFrom29  | QRelTo[3] | RFrom[9]  | RFrom41  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[3] | RFrom[10] | RFrom30  | QRelTo[3] | RFrom[10] | RFrom42  | TRUE     | FALSE    |
| 502 to 504 |           |           |          | QRelTo[3] | RFrom[11] | RFrom43  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[3] | RFrom[12] | RFrom44  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[3] | RFrom[13] | RFrom45  | FALSE    | FALSE    |

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| Period     | Block02   | BL0502    | SPSS0502 | Block04   | BL0504    | SPSS0504 | MatchedB | MatchedS |
|------------|-----------|-----------|----------|-----------|-----------|----------|----------|----------|
| 502 to 504 |           |           |          | QRelTo[3] | RFrom[14] | RFrom46  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[3] | RFrom[15] | RFrom47  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[3] | RFrom[16] | RFrom48  | FALSE    | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[1]  | RFrom31  | QRelTo[4] | RFrom[1]  | RFrom49  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[2]  | RFrom32  | QRelTo[4] | RFrom[2]  | RFrom50  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[3]  | RFrom33  | QRelTo[4] | RFrom[3]  | RFrom51  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[4]  | RFrom34  | QRelTo[4] | RFrom[4]  | RFrom52  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[5]  | RFrom35  | QRelTo[4] | RFrom[5]  | RFrom53  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[6]  | RFrom36  | QRelTo[4] | RFrom[6]  | RFrom54  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[7]  | RFrom37  | QRelTo[4] | RFrom[7]  | RFrom55  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[8]  | RFrom38  | QRelTo[4] | RFrom[8]  | RFrom56  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[9]  | RFrom39  | QRelTo[4] | RFrom[9]  | RFrom57  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[4] | RFrom[10] | RFrom40  | QRelTo[4] | RFrom[10] | RFrom58  | TRUE     | FALSE    |
| 502 to 504 |           |           |          | QRelTo[4] | RFrom[11] | RFrom59  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[4] | RFrom[12] | RFrom60  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[4] | RFrom[13] | RFrom61  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[4] | RFrom[14] | RFrom62  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[4] | RFrom[15] | RFrom63  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[4] | RFrom[16] | RFrom64  | FALSE    | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[1]  | RFrom41  | QRelTo[5] | RFrom[1]  | RFrom65  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[2]  | RFrom42  | QRelTo[5] | RFrom[2]  | RFrom66  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[3]  | RFrom43  | QRelTo[5] | RFrom[3]  | RFrom67  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[4]  | RFrom44  | QRelTo[5] | RFrom[4]  | RFrom68  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[5]  | RFrom45  | QRelTo[5] | RFrom[5]  | RFrom69  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[6]  | RFrom46  | QRelTo[5] | RFrom[6]  | RFrom70  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[7]  | RFrom47  | QRelTo[5] | RFrom[7]  | RFrom71  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[8]  | RFrom48  | QRelTo[5] | RFrom[8]  | RFrom72  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[9]  | RFrom49  | QRelTo[5] | RFrom[9]  | RFrom73  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[5] | RFrom[10] | RFrom50  | QRelTo[5] | RFrom[10] | RFrom74  | TRUE     | FALSE    |
| 502 to 504 |           |           |          | QRelTo[5] | RFrom[11] | RFrom75  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[5] | RFrom[12] | RFrom76  | FALSE    | FALSE    |

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| Period     | Block02   | BL0502    | SPSS0502 | Block04   | BL0504    | SPSS0504 | MatchedB | MatchedS |
|------------|-----------|-----------|----------|-----------|-----------|----------|----------|----------|
| 502 to 504 |           |           |          | QRelTo[5] | RFrom[13] | RFrom77  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[5] | RFrom[14] | RFrom78  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[5] | RFrom[15] | RFrom79  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[5] | RFrom[16] | RFrom80  | FALSE    | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[1]  | RFrom51  | QRelTo[6] | RFrom[1]  | RFrom81  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[2]  | RFrom52  | QRelTo[6] | RFrom[2]  | RFrom82  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[3]  | RFrom53  | QRelTo[6] | RFrom[3]  | RFrom83  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[4]  | RFrom54  | QRelTo[6] | RFrom[4]  | RFrom84  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[5]  | RFrom55  | QRelTo[6] | RFrom[5]  | RFrom85  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[6]  | RFrom56  | QRelTo[6] | RFrom[6]  | RFrom86  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[7]  | RFrom57  | QRelTo[6] | RFrom[7]  | RFrom87  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[8]  | RFrom58  | QRelTo[6] | RFrom[8]  | RFrom88  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[9]  | RFrom59  | QRelTo[6] | RFrom[9]  | RFrom89  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[6] | RFrom[10] | RFrom60  | QRelTo[6] | RFrom[10] | RFrom90  | TRUE     | FALSE    |
| 502 to 504 |           |           |          | QRelTo[6] | RFrom[11] | RFrom91  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[6] | RFrom[12] | RFrom92  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[6] | RFrom[13] | RFrom93  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[6] | RFrom[14] | RFrom94  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[6] | RFrom[15] | RFrom95  | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[6] | RFrom[16] | RFrom96  | FALSE    | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[1]  | RFrom61  | QRelTo[7] | RFrom[1]  | RFrom97  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[2]  | RFrom62  | QRelTo[7] | RFrom[2]  | RFrom98  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[3]  | RFrom63  | QRelTo[7] | RFrom[3]  | RFrom99  | TRUE     | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[4]  | RFrom64  | QRelTo[7] | RFrom[4]  | RFrom100 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[5]  | RFrom65  | QRelTo[7] | RFrom[5]  | RFrom101 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[6]  | RFrom66  | QRelTo[7] | RFrom[6]  | RFrom102 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[7]  | RFrom67  | QRelTo[7] | RFrom[7]  | RFrom103 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[8]  | RFrom68  | QRelTo[7] | RFrom[8]  | RFrom104 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[9]  | RFrom69  | QRelTo[7] | RFrom[9]  | RFrom105 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[7] | RFrom[10] | RFrom70  | QRelTo[7] | RFrom[10] | RFrom106 | TRUE     | FALSE    |
| 502 to 504 |           |           |          | QRelTo[7] | RFrom[11] | RFrom107 | FALSE    | FALSE    |

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| Period     | Block02   | BL0502    | SPSS0502 | Block04   | BL0504    | SPSS0504 | MatchedB | MatchedS |
|------------|-----------|-----------|----------|-----------|-----------|----------|----------|----------|
| 502 to 504 |           |           |          | QRelTo[7] | RFrom[12] | RFrom108 | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[7] | RFrom[13] | RFrom109 | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[7] | RFrom[14] | RFrom110 | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[7] | RFrom[15] | RFrom111 | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[7] | RFrom[16] | RFrom112 | FALSE    | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[1]  | RFrom71  | QRelTo[8] | RFrom[1]  | RFrom113 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[2]  | RFrom72  | QRelTo[8] | RFrom[2]  | RFrom114 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[3]  | RFrom73  | QRelTo[8] | RFrom[3]  | RFrom115 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[4]  | RFrom74  | QRelTo[8] | RFrom[4]  | RFrom116 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[5]  | RFrom75  | QRelTo[8] | RFrom[5]  | RFrom117 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[6]  | RFrom76  | QRelTo[8] | RFrom[6]  | RFrom118 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[7]  | RFrom77  | QRelTo[8] | RFrom[7]  | RFrom119 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[8]  | RFrom78  | QRelTo[8] | RFrom[8]  | RFrom120 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[9]  | RFrom79  | QRelTo[8] | RFrom[9]  | RFrom121 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[8] | RFrom[10] | RFrom80  | QRelTo[8] | RFrom[10] | RFrom122 | TRUE     | FALSE    |
| 502 to 504 |           |           |          | QRelTo[8] | RFrom[11] | RFrom123 | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[8] | RFrom[12] | RFrom124 | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[8] | RFrom[13] | RFrom125 | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[8] | RFrom[14] | RFrom126 | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[8] | RFrom[15] | RFrom127 | FALSE    | FALSE    |
| 502 to 504 |           |           |          | QRelTo[8] | RFrom[16] | RFrom128 | FALSE    | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[1]  | RFrom81  | QRelTo[9] | RFrom[1]  | RFrom129 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[2]  | RFrom82  | QRelTo[9] | RFrom[2]  | RFrom130 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[3]  | RFrom83  | QRelTo[9] | RFrom[3]  | RFrom131 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[4]  | RFrom84  | QRelTo[9] | RFrom[4]  | RFrom132 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[5]  | RFrom85  | QRelTo[9] | RFrom[5]  | RFrom133 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[6]  | RFrom86  | QRelTo[9] | RFrom[6]  | RFrom134 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[7]  | RFrom87  | QRelTo[9] | RFrom[7]  | RFrom135 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[8]  | RFrom88  | QRelTo[9] | RFrom[8]  | RFrom136 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[9]  | RFrom89  | QRelTo[9] | RFrom[9]  | RFrom137 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[9] | RFrom[10] | RFrom90  | QRelTo[9] | RFrom[10] | RFrom138 | TRUE     | FALSE    |

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| Period     | Block02    | BL0502    | SPSS0502 | Block04    | BL0504    | SPSS0504 | MatchedB | MatchedS |
|------------|------------|-----------|----------|------------|-----------|----------|----------|----------|
| 502 to 504 |            |           |          | QRelTo[9]  | RFrom[11] | RFrom139 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[9]  | RFrom[12] | RFrom140 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[9]  | RFrom[13] | RFrom141 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[9]  | RFrom[14] | RFrom142 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[9]  | RFrom[15] | RFrom143 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[9]  | RFrom[16] | RFrom144 | FALSE    | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[1]  | RFrom91  | QRelTo[10] | RFrom[1]  | RFrom145 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[2]  | RFrom92  | QRelTo[10] | RFrom[2]  | RFrom146 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[3]  | RFrom93  | QRelTo[10] | RFrom[3]  | RFrom147 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[4]  | RFrom94  | QRelTo[10] | RFrom[4]  | RFrom148 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[5]  | RFrom95  | QRelTo[10] | RFrom[5]  | RFrom149 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[6]  | RFrom96  | QRelTo[10] | RFrom[6]  | RFrom150 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[7]  | RFrom97  | QRelTo[10] | RFrom[7]  | RFrom151 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[8]  | RFrom98  | QRelTo[10] | RFrom[8]  | RFrom152 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[9]  | RFrom99  | QRelTo[10] | RFrom[9]  | RFrom153 | TRUE     | FALSE    |
| 502 to 504 | QRelTo[10] | RFrom[10] | RFrom100 | QRelTo[10] | RFrom[10] | RFrom154 | TRUE     | FALSE    |
| 502 to 504 |            |           |          | QRelTo[10] | RFrom[11] | RFrom155 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[10] | RFrom[12] | RFrom156 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[10] | RFrom[13] | RFrom157 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[10] | RFrom[14] | RFrom158 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[10] | RFrom[15] | RFrom159 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[10] | RFrom[16] | RFrom160 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[11] | RFrom[1]  | RFrom161 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[11] | RFrom[2]  | RFrom162 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[11] | RFrom[3]  | RFrom163 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[11] | RFrom[4]  | RFrom164 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[11] | RFrom[5]  | RFrom165 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[11] | RFrom[6]  | RFrom166 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[11] | RFrom[7]  | RFrom167 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[11] | RFrom[8]  | RFrom168 | FALSE    | FALSE    |
| 502 to 504 |            |           |          | QRelTo[11] | RFrom[9]  | RFrom169 | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504    | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|-----------|----------|----------|----------|
| 502 to 504 |         |        |          | QRelTo[11] | RFrom[10] | RFrom170 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[11] | RFrom[11] | RFrom171 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[11] | RFrom[12] | RFrom172 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[11] | RFrom[13] | RFrom173 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[11] | RFrom[14] | RFrom174 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[11] | RFrom[15] | RFrom175 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[11] | RFrom[16] | RFrom176 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[1]  | RFrom177 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[2]  | RFrom178 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[3]  | RFrom179 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[4]  | RFrom180 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[5]  | RFrom181 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[6]  | RFrom182 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[7]  | RFrom183 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[8]  | RFrom184 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[9]  | RFrom185 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[10] | RFrom186 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[11] | RFrom187 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[12] | RFrom188 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[13] | RFrom189 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[14] | RFrom190 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[15] | RFrom191 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[12] | RFrom[16] | RFrom192 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[1]  | RFrom193 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[2]  | RFrom194 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[3]  | RFrom195 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[4]  | RFrom196 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[5]  | RFrom197 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[6]  | RFrom198 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[7]  | RFrom199 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[8]  | RFrom200 | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504    | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|-----------|----------|----------|----------|
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[9]  | RFrom201 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[10] | RFrom202 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[11] | RFrom203 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[12] | RFrom204 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[13] | RFrom205 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[14] | RFrom206 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[15] | RFrom207 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[13] | RFrom[16] | RFrom208 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[1]  | RFrom209 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[2]  | RFrom210 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[3]  | RFrom211 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[4]  | RFrom212 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[5]  | RFrom213 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[6]  | RFrom214 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[7]  | RFrom215 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[8]  | RFrom216 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[9]  | RFrom217 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[10] | RFrom218 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[11] | RFrom219 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[12] | RFrom220 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[13] | RFrom221 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[14] | RFrom222 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[15] | RFrom223 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[14] | RFrom[16] | RFrom224 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[1]  | RFrom225 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[2]  | RFrom226 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[3]  | RFrom227 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[4]  | RFrom228 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[5]  | RFrom229 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[6]  | RFrom230 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[7]  | RFrom231 | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504    | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|-----------|----------|----------|----------|
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[8]  | RFrom232 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[9]  | RFrom233 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[10] | RFrom234 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[11] | RFrom235 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[12] | RFrom236 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[13] | RFrom237 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[14] | RFrom238 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[15] | RFrom239 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[15] | RFrom[16] | RFrom240 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[1]  | RFrom241 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[2]  | RFrom242 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[3]  | RFrom243 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[4]  | RFrom244 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[5]  | RFrom245 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[6]  | RFrom246 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[7]  | RFrom247 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[8]  | RFrom248 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[9]  | RFrom249 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[10] | RFrom250 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[11] | RFrom251 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[12] | RFrom252 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[13] | RFrom253 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[14] | RFrom254 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[15] | RFrom255 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelTo[16] | RFrom[16] | RFrom256 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[11]  | Partner   | Partne11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[11]  | PartNo    | PartNo11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[11]  | SSPart    | SSPart11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[11]  | SSPNo     | SSPNo11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[12]  | Partner   | Partne12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[12]  | PartNo    | PartNo12 | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504  | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|---------|----------|----------|----------|
| 502 to 504 |         |        |          | QPart[12]  | SSPart  | SSPart12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[12]  | SSPNo   | SSPNo12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[13]  | Partner | Partne13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[13]  | PartNo  | PartNo13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[13]  | SSPart  | SSPart13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[13]  | SSPNo   | SSPNo13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[14]  | Partner | Partne14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[14]  | PartNo  | PartNo14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[14]  | SSPart  | SSPart14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[14]  | SSPNo   | SSPNo14  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[15]  | Partner | Partne15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[15]  | PartNo  | PartNo15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[15]  | SSPart  | SSPart15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[15]  | SSPNo   | SSPNo15  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[16]  | Partner | Partne16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[16]  | PartNo  | PartNo16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[16]  | SSPart  | SSPart16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPart[16]  | SSPNo   | SSPNo16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[11] | IsDep   | IsDep11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[11] | IsNDep  | IsNDep11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[12] | IsDep   | IsDep12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[12] | IsNDep  | IsNDep12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[13] | IsDep   | IsDep13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[13] | IsNDep  | IsNDep13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[14] | IsDep   | IsDep14  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[14] | IsNDep  | IsNDep14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[15] | IsDep   | IsDep15  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[15] | IsNDep  | IsNDep15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[16] | IsDep   | IsDep16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDepCh[16] | IsNDep  | IsNDep16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | HasChd  | HasChd11 | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504  | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|---------|----------|----------|----------|
| 502 to 504 |         |        |          | QNumCh[11] | HasDep  | HasDep11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | HasNDep | HasNDe11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | NChild  | NChild11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | NDepC   | NDepC11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | NNDepC  | NNDepC11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | NBaby   | NBaby11  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | NCUnd5  | NCUnd15  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | NC5to9  | NC5to19  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | NC1015  | NC1025   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | NCU16   | NCU26    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | NC1618  | NC1628   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[11] | SingPar | SingPa11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | HasChd  | HasChd12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | HasDep  | HasDep12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | HasNDep | HasNDe12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | NChild  | NChild12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | NDepC   | NDepC12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | NNDepC  | NNDepC12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | NBaby   | NBaby12  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | NCUnd5  | NCUnd16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | NC5to9  | NC5to20  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | NC1015  | NC1026   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | NCU16   | NCU27    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | NC1618  | NC1629   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[12] | SingPar | SingPa12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | HasChd  | HasChd13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | HasDep  | HasDep13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | HasNDep | HasNDe13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | NChild  | NChild13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | NDepC   | NDepC13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | NNDepC  | NNDepC13 | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504  | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|---------|----------|----------|----------|
| 502 to 504 |         |        |          | QNumCh[13] | NBaby   | NBaby13  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | NCUnd5  | NCUnd17  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | NC5to9  | NC5to21  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | NC1015  | NC1027   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | NCU16   | NCU28    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | NC1618  | NC1630   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[13] | SingPar | SingPa13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | HasChd  | HasChd14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | HasDep  | HasDep14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | HasNDep | HasNDe14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | NChild  | NChild14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | NDepC   | NDepC14  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | NNDepC  | NNDepC14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | NBaby   | NBaby14  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | NCUnd5  | NCUnd18  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | NC5to9  | NC5to22  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | NC1015  | NC1028   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | NCU16   | NCU29    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | NC1618  | NC1631   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[14] | SingPar | SingPa14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | HasChd  | HasChd15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | HasDep  | HasDep15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | HasNDep | HasNDe15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | NChild  | NChild15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | NDepC   | NDepC15  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | NNDepC  | NNDepC15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | NBaby   | NBaby15  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | NCUnd5  | NCUnd19  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | NC5to9  | NC5to23  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | NC1015  | NC1029   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | NCU16   | NCU30    | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504     | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|------------|----------|----------|----------|
| 502 to 504 |         |        |          | QNumCh[15] | NC1618     | NC1632   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[15] | SingPar    | SingPa15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | HasChd     | HasChd16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | HasDep     | HasDep16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | HasNDep    | HasNDe16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | NChild     | NChild16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | NDepC      | NDepC16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | NNDepC     | NNDepC16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | NBaby      | NBaby16  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | NCUnd5     | NCUnd20  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | NC5to9     | NC5to24  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | NC1015     | NC1030   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | NCU16      | NCU31    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | NC1618     | NC1633   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNumCh[16] | SingPar    | SingPa16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[1]  | RelRsp01 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[2]  | RelRsp02 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[3]  | RelRsp03 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[4]  | RelRsp04 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[5]  | RelRsp05 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[6]  | RelRsp06 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[7]  | RelRsp07 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[8]  | RelRsp08 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[9]  | RelRsp09 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[10] | RelRsp10 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[11] | RelRsp11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[12] | RelRsp12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[13] | RelRsp13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[14] | RelRsp14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[15] | RelRsp15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QRelResp   | RelRsp[16] | RelRsp16 | FALSE    | FALSE    |

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| Period     | Block02  | BL0502  | SPSS0502 | Block04       | BL0504      | SPSS0504 | MatchedB | MatchedS |
|------------|----------|---------|----------|---------------|-------------|----------|----------|----------|
| 502 to 504 |          |         |          | QRelResp      | Partner     | Partne17 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | PartNo      | PartNo17 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | SSPart      | SSPart17 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | SSPNo       | SSPNo17  | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | HasChd      | HasChd17 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | HasDep      | HasDep17 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | HasNDep     | HasNDe17 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | NChild      | NChild17 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | NDepC       | NDepC17  | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | NNDepC      | NNDepC17 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | NBaby       | NBaby17  | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | NCUnd5      | NCUnd21  | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | NC5to9      | NC5to25  | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | NC1015      | NC1031   | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | NCU16       | NCU32    | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | NC1618      | NC1634   | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QRelResp      | SingPar     | SingPa17 | FALSE    | FALSE    |
| 502 to 504 | QNOHLD   | DHC12   | DHC18    | QNOHLD        | DHC12       | DHC24    | TRUE     | FALSE    |
| 502 to 504 | QNOHLD   | DHC14   | DHC19    | QNOHLD        | DHC14       | DHC25    | TRUE     | FALSE    |
| 502 to 504 |          |         |          | QIStart       | PersProx    | PersProx | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QIStart       | ProxyNum    | ProxyNum | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QIStart       | DVDMNumName | DVDMNumN | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QDisable      | DCC10[11]   | DCC1011  | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QDisable      | DCC10[12]   | DCC1012  | FALSE    | FALSE    |
| 502 to 504 | QDisable | DSPEC10 | DSPEC26  | QDisable      | DSPEC10a    | DSPEC10a | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QDisable      | DSPEC10b    | DSPEC10b | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QDisable      | DSPEC10c    | DSPEC10c | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QDisable      | DCC11[11]   | DCC1111  | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QDisable      | DCC11[12]   | DCC1112  | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QChHealth[11] | DHEInt      | DHEInt11 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QChHealth[11] | DHE17       | DHE117   | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04       | BL0504 | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|---------------|--------|----------|----------|----------|
| 502 to 504 |         |        |          | QChHealth[11] | DHE18  | DHE118   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[11] | DHE19  | DHE119   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[11] | DHE20  | DHE120   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[11] | DHE21  | DHE121   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[11] | DHE22  | DHE122   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[11] | DHE23  | DHE123   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[11] | DHE24  | DHE124   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[11] | DHE25  | DHE125   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[11] | DHE26  | DHE126   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHEInt | DHEInt12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE17  | DHE127   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE18  | DHE128   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE19  | DHE129   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE20  | DHE130   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE21  | DHE131   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE22  | DHE132   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE23  | DHE133   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE24  | DHE134   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE25  | DHE135   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[12] | DHE26  | DHE136   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHEInt | DHEInt13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE17  | DHE137   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE18  | DHE138   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE19  | DHE139   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE20  | DHE140   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE21  | DHE141   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE22  | DHE142   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE23  | DHE143   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE24  | DHE144   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE25  | DHE145   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[13] | DHE26  | DHE146   | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04       | BL0504 | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|---------------|--------|----------|----------|----------|
| 502 to 504 |         |        |          | QChHealth[14] | DHEInt | DHEInt14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE17  | DHE147   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE18  | DHE148   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE19  | DHE149   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE20  | DHE150   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE21  | DHE151   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE22  | DHE152   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE23  | DHE153   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE24  | DHE154   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE25  | DHE155   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[14] | DHE26  | DHE156   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHEInt | DHEInt15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE17  | DHE157   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE18  | DHE158   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE19  | DHE159   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE20  | DHE160   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE21  | DHE161   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE22  | DHE162   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE23  | DHE163   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE24  | DHE164   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE25  | DHE165   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[15] | DHE26  | DHE166   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHEInt | DHEInt16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHE17  | DHE167   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHE18  | DHE168   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHE19  | DHE169   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHE20  | DHE170   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHE21  | DHE171   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHE22  | DHE172   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHE23  | DHE173   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHE24  | DHE174   | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04       | BL0504  | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|---------------|---------|----------|----------|----------|
| 502 to 504 |         |        |          | QChHealth[16] | DHE25   | DHE175   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChHealth[16] | DHE26   | DHE176   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCBenAm       | NumWks  | NumWks   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCBenAm       | RcptNow | RcptNow  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QInSupAm      | NumWks  | NumWks2  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QInSupAm      | RcptNow | RcptNow2 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QGdAllAm      | NumWks  | NumWks3  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QGdAllAm      | RcptNow | RcptNow3 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QICareAm      | NumWks  | NumWks4  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QICareAm      | RcptNow | RcptNow4 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNIPenAm      | NumWks  | NumWks5  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QNIPenAm      | RcptNow | RcptNow5 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWidowAm      | NumWks  | NumWks6  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWidowAm      | RcptNow | RcptNow6 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWarPnAm      | NumWks  | NumWks7  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWarPnAm      | RcptNow | RcptNow7 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QSDisAm       | NumWks  | NumWks8  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QSDisAm       | RcptNow | RcptNow8 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDLACrAm      | NumWks  | NumWks9  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDLACrAm      | RcptNow | RcptNow9 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDLAMob       | NumWks  | NumWks10 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QDLAMob       | RcptNow | RcptNo10 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAtAllAm      | NumWks  | NumWks11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QAtAllAm      | RcptNow | RcptNo11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBenAmt       | JSAChk  | JSAChk   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QJSAAmt       | NumWks  | NumWks12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QJSAAmt       | RcptNow | RcptNo12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPCAmt        | NumWks  | NumWks13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QPCAmt        | RcptNow | RcptNo13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QIncapAm      | NumWks  | NumWks14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QIncapAm      | RcptNow | RcptNo14 | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04  | BL0504     | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|----------|------------|----------|----------|----------|
| 502 to 504 |         |        |          | QSickAm  | NumWks     | NumWks15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QSickAm  | RcptNow    | RcptNo15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QInDisAm | NumWks     | NumWks16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QInDisAm | RcptNow    | RcptNo16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QMatAlAm | NumWks     | NumWks17 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QMatAlAm | RcptNow    | RcptNo17 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QMatStAm | NumWks     | NumWks18 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QMatStAm | RcptNow    | RcptNo18 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWorkFam | BAmt       | BAmt19   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWorkFam | BAmtDK     | BAmtDK19 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWorkFam | BPd        | BPd19    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWorkFam | NumWks     | NumWks19 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWorkFam | RcptNow    | RcptNo19 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBenAmt  | TaxDocs[1] | TaxDocs1 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBenAmt  | TaxDocs[2] | TaxDocs2 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBenAmt  | WFTCLUMP   | WFTCLUMP | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBenAmt  | DPTCLUMP   | DPTCLUMP | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChTC    | BAmt       | BAmt20   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChTC    | BAmtDK     | BAmtDK20 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChTC    | BPd        | BPd20    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChTC    | NumWks     | NumWks20 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QChTC    | RcptNow    | RcptNo20 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBenAmt  | ChTCLUMP   | ChTCLUMP | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBenAmt  | WTCLUMP    | WTCLUMP  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QBenAmt  | CTCLUMP    | CTCLUMP  | FALSE    | FALSE    |
| 502 to 504 | QWTC    | BAmt   | BAmt19   | QWTC     | BAmt       | BAmt21   | TRUE     | FALSE    |
| 502 to 504 | QWTC    | BAmtDK | BAmtDK19 | QWTC     | BAmtDK     | BAmtDK21 | TRUE     | FALSE    |
| 502 to 504 | QWTC    | BPd    | BPd19    | QWTC     | BPd        | BPd21    | TRUE     | FALSE    |
| 502 to 504 |         |        |          | QWTC     | NumWks     | NumWks21 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QWTC     | RcptNow    | RcptNo21 | FALSE    | FALSE    |
| 502 to 504 | QCTC    | BAmt   | BAmt20   | QCTC     | BAmt       | BAmt22   | TRUE     | FALSE    |

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| Period     | Block02  | BL0502 | SPSS0502 | Block04  | BL0504  | SPSS0504 | MatchedB | MatchedS |
|------------|----------|--------|----------|----------|---------|----------|----------|----------|
| 502 to 504 | QCTC     | BAmtDK | BAmtDK20 | QCTC     | BAmtDK  | BAmtDK22 | TRUE     | FALSE    |
| 502 to 504 | QCTC     | BPd    | BPd20    | QCTC     | BPd     | BPd22    | TRUE     | FALSE    |
| 502 to 504 |          |        |          | QCTC     | NumWks  | NumWks22 | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QCTC     | RcptNow | RcptNo22 | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QDisPers | BAmt    | BAmt23   | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QDisPers | BAmtDK  | BAmtDK23 | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QDisPers | BPd     | BPd23    | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QDisPers | NumWks  | NumWks23 | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QDisPers | RcptNow | RcptNo23 | FALSE    | FALSE    |
| 502 to 504 | QFunrlAm | BAmt   | BAmt21   | QFunrlAm | BAmt    | BAmt24   | TRUE     | FALSE    |
| 502 to 504 | QFunrlAm | BAmtDK | BAmtDK21 | QFunrlAm | BAmtDK  | BAmtDK24 | TRUE     | FALSE    |
| 502 to 504 | QFunrlAm | BPd    | BPd21    | QFunrlAm | BPd     | BPd24    | TRUE     | FALSE    |
| 502 to 504 |          |        |          | QFunrlAm | NumWks  | NumWks24 | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QFunrlAm | RcptNow | RcptNo24 | FALSE    | FALSE    |
| 502 to 504 | QMatGrAm | BAmt   | BAmt22   | QMatGrAm | BAmt    | BAmt25   | TRUE     | FALSE    |
| 502 to 504 | QMatGrAm | BAmtDK | BAmtDK22 | QMatGrAm | BAmtDK  | BAmtDK25 | TRUE     | FALSE    |
| 502 to 504 | QMatGrAm | BPd    | BPd22    | QMatGrAm | BPd     | BPd25    | TRUE     | FALSE    |
| 502 to 504 |          |        |          | QMatGrAm | NumWks  | NumWks25 | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QMatGrAm | RcptNow | RcptNo25 | FALSE    | FALSE    |
| 502 to 504 | QCCareAm | BAmt   | BAmt23   | QCCareAm | BAmt    | BAmt26   | TRUE     | FALSE    |
| 502 to 504 | QCCareAm | BAmtDK | BAmtDK23 | QCCareAm | BAmtDK  | BAmtDK26 | TRUE     | FALSE    |
| 502 to 504 | QCCareAm | BPd    | BPd23    | QCCareAm | BPd     | BPd26    | TRUE     | FALSE    |
| 502 to 504 |          |        |          | QCCareAm | NumWks  | NumWks26 | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QCCareAm | RcptNow | RcptNo26 | FALSE    | FALSE    |
| 502 to 504 | QWintAm  | BAmt   | BAmt24   | QWintAm  | BAmt    | BAmt27   | TRUE     | FALSE    |
| 502 to 504 | QWintAm  | BAmtDK | BAmtDK24 | QWintAm  | BAmtDK  | BAmtDK27 | TRUE     | FALSE    |
| 502 to 504 | QWintAm  | BPd    | BPd24    | QWintAm  | BPd     | BPd27    | TRUE     | FALSE    |
| 502 to 504 |          |        |          | QWintAm  | NumWks  | NumWks27 | FALSE    | FALSE    |
| 502 to 504 |          |        |          | QWintAm  | RcptNow | RcptNo27 | FALSE    | FALSE    |
| 502 to 504 | QBWorkAm | BAmt   | BAmt25   | QBWorkAm | BAmt    | BAmt28   | TRUE     | FALSE    |
| 502 to 504 | QBWorkAm | BAmtDK | BAmtDK25 | QBWorkAm | BAmtDK  | BAmtDK28 | TRUE     | FALSE    |

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| Period     | Block02  | BL0502  | SPSS0502 | Block04  | BL0504  | SPSS0504 | MatchedB | MatchedS |
|------------|----------|---------|----------|----------|---------|----------|----------|----------|
| 502 to 504 | QBWorkAm | BPd     | BPd25    | QBWorkAm | BPd     | BPd28    | TRUE     | FALSE    |
| 502 to 504 |          |         |          | QBWorkAm | NumWks  | NumWks28 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QBWorkAm | RcptNow | RcptNo28 | FALSE    | FALSE    |
| 502 to 504 | QExtPaAm | BAmt    | BAmt26   | QExtPaAm | BAmt    | BAmt29   | TRUE     | FALSE    |
| 502 to 504 | QExtPaAm | BAmtDK  | BAmtDK26 | QExtPaAm | BAmtDK  | BAmtDK29 | TRUE     | FALSE    |
| 502 to 504 | QExtPaAm | BPd     | BPd26    | QExtPaAm | BPd     | BPd29    | TRUE     | FALSE    |
| 502 to 504 |          |         |          | QExtPaAm | NumWks  | NumWks29 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QExtPaAm | RcptNow | RcptNo29 | FALSE    | FALSE    |
| 502 to 504 | QWidPaAm | BAmt    | BAmt27   | QWidPaAm | BAmt    | BAmt30   | TRUE     | FALSE    |
| 502 to 504 | QWidPaAm | BAmtDK  | BAmtDK27 | QWidPaAm | BAmtDK  | BAmtDK30 | TRUE     | FALSE    |
| 502 to 504 | QWidPaAm | BPd     | BPd27    | QWidPaAm | BPd     | BPd30    | TRUE     | FALSE    |
| 502 to 504 |          |         |          | QWidPaAm | NumWks  | NumWks30 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QWidPaAm | RcptNow | RcptNo30 | FALSE    | FALSE    |
| 502 to 504 | QChMaiAm | BAmt    | BAmt28   | QChMaiAm | BAmt    | BAmt31   | TRUE     | FALSE    |
| 502 to 504 | QChMaiAm | BAmtDK  | BAmtDK28 | QChMaiAm | BAmtDK  | BAmtDK31 | TRUE     | FALSE    |
| 502 to 504 | QChMaiAm | BPd     | BPd28    | QChMaiAm | BPd     | BPd31    | TRUE     | FALSE    |
| 502 to 504 |          |         |          | QChMaiAm | NumWks  | NumWks31 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QChMaiAm | RcptNow | RcptNo31 | FALSE    | FALSE    |
| 502 to 504 | QLoneRAm | BAmt    | BAmt29   | QLoneRAm | BAmt    | BAmt32   | TRUE     | FALSE    |
| 502 to 504 | QLoneRAm | BAmtDK  | BAmtDK29 | QLoneRAm | BAmtDK  | BAmtDK32 | TRUE     | FALSE    |
| 502 to 504 | QLoneRAm | BPd     | BPd29    | QLoneRAm | BPd     | BPd32    | TRUE     | FALSE    |
| 502 to 504 |          |         |          | QLoneRAm | NumWks  | NumWks32 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QLoneRAm | RcptNow | RcptNo32 | FALSE    | FALSE    |
| 502 to 504 | QOthBAm  | BAmt    | BAmt30   | QOthBAm  | BAmt    | BAmt33   | TRUE     | FALSE    |
| 502 to 504 | QOthBAm  | BAmtDK  | BAmtDK30 | QOthBAm  | BAmtDK  | BAmtDK33 | TRUE     | FALSE    |
| 502 to 504 | QOthBAm  | BPd     | BPd30    | QOthBAm  | BPd     | BPd33    | TRUE     | FALSE    |
| 502 to 504 |          |         |          | QOthBAm  | NumWks  | NumWks33 | FALSE    | FALSE    |
| 502 to 504 |          |         |          | QOthBAm  | RcptNow | RcptNo33 | FALSE    | FALSE    |
| 502 to 504 | QBenAmt  | DVCBen  | DVCBen   |          |         |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt  | DVInSup | DVInSup  |          |         |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt  | DVGdAll | DVGdAll  |          |         |          | FALSE    | FALSE    |

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| Period     | Block02 | BL0502   | SPSS0502 | Block04 | BL0504 | SPSS0504 | MatchedB | MatchedS |
|------------|---------|----------|----------|---------|--------|----------|----------|----------|
| 502 to 504 | QBenAmt | DVICare  | DVICare  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVNiPen  | DVNiPen  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVUs     | DVUs     |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVWidow  | DVWidow  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVWarPn  | DVWarPn  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVSDis   | DVSDis   |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVDLACr  | DVDLACr  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVDLAMob | DVDLAMob |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVATAII  | DVATAII  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVJSA    | DVJSA    |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVPC     | DVPC     |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVInCap  | DVInCap  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVSick   | DVSick   |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVInDis  | DVInDis  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVMatAI  | DVMatAI  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVMatSt  | DVMatSt  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVWFam   | DVWFam   |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVWTC    | DVWTC    |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVCTC    | DVCTC    |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVDisPer | DVDisPer |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVFunrl  | DVFunrl  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVMatGr  | DVMatGr  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVCCare  | DVCCare  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVWint   | DVWint   |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVBWork  | DVBWork  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVExtPa  | DVExtPa  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVWidPa  | DVWidPa  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVChMai  | DVChMai  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVLoneR  | DVLoneR  |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVOthB   | DVOthB   |         |        |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt | DVTCom   | DVTCom   |         |        |          | FALSE    | FALSE    |

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| Period     | Block02  | BL0502    | SPSS0502 | Block04  | BL0504   | SPSS0504 | MatchedB | MatchedS |
|------------|----------|-----------|----------|----------|----------|----------|----------|----------|
| 502 to 504 | QBenAmt  | ComBAm    | ComBAm   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt  | ComBPd    | ComBPd   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QBenAmt  | ComBwk    | ComBwk   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QCnclTax | xCTAmt    |          |          |          |          | FALSE    | TRUE     |
| 502 to 504 | QCnclTax | xCTInstal |          |          |          |          | FALSE    | TRUE     |
| 502 to 504 | QCnclTax | xCTTime   |          |          |          |          | FALSE    | TRUE     |
| 502 to 504 | QCnclTax | xCTReb    |          |          |          |          | FALSE    | TRUE     |
| 502 to 504 | QCnclTax | xCTRebAmt |          |          |          |          | FALSE    | TRUE     |
| 502 to 504 | QCnclTax | xCTRebPd  |          |          |          |          | FALSE    | TRUE     |
| 502 to 504 | QFamUnit | NoUnits   | NoUnits  |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[1]   | AFAM01   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[2]   | AFAM02   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[3]   | AFAM03   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[4]   | AFAM04   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[5]   | AFAM05   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[6]   | AFAM06   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[7]   | AFAM07   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[8]   | AFAM08   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[9]   | AFAM09   |          |          |          | FALSE    | FALSE    |
| 502 to 504 | QFamUnit | AFAM[10]  | AFAM10   |          |          |          | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | NoUnits  | NoUnits  | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[1]  | AFAM01   | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[2]  | AFAM02   | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[3]  | AFAM03   | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[4]  | AFAM04   | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[5]  | AFAM05   | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[6]  | AFAM06   | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[7]  | AFAM07   | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[8]  | AFAM08   | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[9]  | AFAM09   | FALSE    | FALSE    |
| 502 to 504 |          |           |          | QFamUnit | AFAM[10] | AFAM10   | FALSE    | FALSE    |

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| Period     | Block02 | BL0502 | SPSS0502 | Block04    | BL0504   | SPSS0504 | MatchedB | MatchedS |
|------------|---------|--------|----------|------------|----------|----------|----------|----------|
| 502 to 504 |         |        |          | QFamUnit   | AFAM[11] | AFAM11   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QFamUnit   | AFAM[12] | AFAM12   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QFamUnit   | AFAM[13] | AFAM13   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QFamUnit   | AFAM[14] | AFAM14   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QFamUnit   | AFAM[15] | AFAM15   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QFamUnit   | AFAM[16] | AFAM16   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[1]  | TelUse   | TelUse   | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[2]  | TelUse   | TelUse2  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[3]  | TelUse   | TelUse3  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[4]  | TelUse   | TelUse4  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[5]  | TelUse   | TelUse5  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[6]  | TelUse   | TelUse6  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[7]  | TelUse   | TelUse7  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[8]  | TelUse   | TelUse8  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[9]  | TelUse   | TelUse9  | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[10] | TelUse   | TelUse10 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[11] | TelUse   | TelUse11 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[12] | TelUse   | TelUse12 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[13] | TelUse   | TelUse13 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[14] | TelUse   | TelUse14 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[15] | TelUse   | TelUse15 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[16] | TelUse   | TelUse16 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[17] | TelUse   | TelUse17 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[18] | TelUse   | TelUse18 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[19] | TelUse   | TelUse19 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QCALLS[20] | TelUse   | TelUse20 | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHAdmin    | Issue    | Issue    | FALSE    | FALSE    |
| 502 to 504 |         |        |          | QHAdmin    | ReisTry  | ReisTry  | FALSE    | FALSE    |

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| <b>504 to 505</b> | <b>Q504</b> | <b>BL0504</b> | <b>SPSS0504</b> | <b>Q505</b> | <b>BL0505</b> | <b>SPSS0505</b> | <b>MatchedB</b> | <b>MatchedS</b> |          |
|-------------------|-------------|---------------|-----------------|-------------|---------------|-----------------|-----------------|-----------------|----------|
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC2[1]       | DCC101          | FALSE           | FALSE           | PERSON11 |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC2[2]       | DCC102          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC2[3]       | DCC103          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC2[4]       | DCC104          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC2[5]       | DCC105          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC2[6]       | DCC106          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC2[7]       | DCC107          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC2[8]       | DCC108          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DSPEC2        | DSPEC25         | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[1]       | DCC401          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[2]       | DCC402          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[3]       | DCC403          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[4]       | DCC404          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[5]       | DCC405          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[6]       | DCC406          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[7]       | DCC407          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[8]       | DCC408          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[9]       | DCC409          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DCC3[10]      | DCC410          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[11]  | DSPEC3        | DSPEC26         | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[12]  | DCC2[1]       | DCC109          | FALSE           | FALSE           | PERSON12 |
| 504 to 505        |             |               |                 | QADAPT[12]  | DCC2[2]       | DCC110          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[12]  | DCC2[3]       | DCC111          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[12]  | DCC2[4]       | DCC112          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[12]  | DCC2[5]       | DCC113          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[12]  | DCC2[6]       | DCC114          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[12]  | DCC2[7]       | DCC115          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[12]  | DCC2[8]       | DCC116          | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[12]  | DSPEC2        | DSPEC27         | FALSE           | FALSE           |          |
| 504 to 505        |             |               |                 | QADAPT[12]  | DCC3[1]       | DCC411          | FALSE           | FALSE           |          |

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| 504 to 505 | Q504 | BL0504 | SPSS0504 | Q505       | BL0505   | SPSS0505 | MatchedB | MatchedS |          |
|------------|------|--------|----------|------------|----------|----------|----------|----------|----------|
| 504 to 505 |      |        |          | QADAPT[12] | DCC3[2]  | DCC412   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[12] | DCC3[3]  | DCC413   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[12] | DCC3[4]  | DCC414   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[12] | DCC3[5]  | DCC415   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[12] | DCC3[6]  | DCC416   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[12] | DCC3[7]  | DCC417   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[12] | DCC3[8]  | DCC418   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[12] | DCC3[9]  | DCC419   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[12] | DCC3[10] | DCC420   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[12] | DSPEC3   | DSPEC28  | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC2[1]  | DCC117   | FALSE    | FALSE    | PERSON13 |
| 504 to 505 |      |        |          | QADAPT[13] | DCC2[2]  | DCC118   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC2[3]  | DCC119   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC2[4]  | DCC120   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC2[5]  | DCC121   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC2[6]  | DCC122   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC2[7]  | DCC123   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC2[8]  | DCC124   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DSPEC2   | DSPEC29  | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[1]  | DCC421   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[2]  | DCC422   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[3]  | DCC423   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[4]  | DCC424   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[5]  | DCC425   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[6]  | DCC426   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[7]  | DCC427   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[8]  | DCC428   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[9]  | DCC429   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DCC3[10] | DCC430   | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[13] | DSPEC3   | DSPEC30  | FALSE    | FALSE    |          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC2[1]  | DCC125   | FALSE    | FALSE    | PERSON14 |

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| 504 to 505 | Q504 | BL0504 | SPSS0504 | Q505       | BL0505   | SPSS0505 | MatchedB | MatchedS       |
|------------|------|--------|----------|------------|----------|----------|----------|----------------|
| 504 to 505 |      |        |          | QADAPT[14] | DCC2[2]  | DCC126   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC2[3]  | DCC127   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC2[4]  | DCC128   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC2[5]  | DCC129   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC2[6]  | DCC130   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC2[7]  | DCC131   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC2[8]  | DCC132   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DSPEC2   | DSPEC31  | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[1]  | DCC431   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[2]  | DCC432   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[3]  | DCC433   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[4]  | DCC434   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[5]  | DCC435   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[6]  | DCC436   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[7]  | DCC437   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[8]  | DCC438   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[9]  | DCC439   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DCC3[10] | DCC440   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[14] | DSPEC3   | DSPEC32  | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC2[1]  | DCC133   | FALSE    | FALSE PERSON15 |
| 504 to 505 |      |        |          | QADAPT[15] | DCC2[2]  | DCC134   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC2[3]  | DCC135   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC2[4]  | DCC136   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC2[5]  | DCC137   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC2[6]  | DCC138   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC2[7]  | DCC139   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC2[8]  | DCC140   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DSPEC2   | DSPEC33  | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC3[1]  | DCC441   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC3[2]  | DCC442   | FALSE    | FALSE          |
| 504 to 505 |      |        |          | QADAPT[15] | DCC3[3]  | DCC443   | FALSE    | FALSE          |

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| 504 to 505 | Q504     | BL0504  | SPSS0504 | Q505       | BL0505   | SPSS0505 | MatchedB | MatchedS       |
|------------|----------|---------|----------|------------|----------|----------|----------|----------------|
| 504 to 505 |          |         |          | QADAPT[15] | DCC3[4]  | DCC444   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[15] | DCC3[5]  | DCC445   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[15] | DCC3[6]  | DCC446   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[15] | DCC3[7]  | DCC447   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[15] | DCC3[8]  | DCC448   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[15] | DCC3[9]  | DCC449   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[15] | DCC3[10] | DCC450   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[15] | DSPEC3   | DSPEC34  | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC2[1]  | DCC141   | FALSE    | FALSE PERSON16 |
| 504 to 505 |          |         |          | QADAPT[16] | DCC2[2]  | DCC142   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC2[3]  | DCC143   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC2[4]  | DCC144   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC2[5]  | DCC145   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC2[6]  | DCC146   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC2[7]  | DCC147   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC2[8]  | DCC148   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DSPEC2   | DSPEC35  | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[1]  | DCC451   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[2]  | DCC452   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[3]  | DCC453   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[4]  | DCC454   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[5]  | DCC455   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[6]  | DCC456   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[7]  | DCC457   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[8]  | DCC458   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[9]  | DCC459   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DCC3[10] | DCC460   | FALSE    | FALSE          |
| 504 to 505 |          |         |          | QADAPT[16] | DSPEC3   | DSPEC36  | FALSE    | FALSE          |
| 504 to 505 | QDisable | DCC1[1] | DCC101   | QDisable   | DCC1[1]  | DCC149   | TRUE     | FALSE          |
| 504 to 505 | QDisable | DCC1[2] | DCC102   | QDisable   | DCC1[2]  | DCC150   | TRUE     | FALSE          |
| 504 to 505 | QDisable | DCC1[3] | DCC103   | QDisable   | DCC1[3]  | DCC151   | TRUE     | FALSE          |

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| 504 to 505 | Q504      | BL0504    | SPSS0504 | Q505      | BL0505    | SPSS0505 | MatchedB | MatchedS |
|------------|-----------|-----------|----------|-----------|-----------|----------|----------|----------|
| 504 to 505 | QDisable  | DCC1[4]   | DCC104   | QDisable  | DCC1[4]   | DCC152   | TRUE     | FALSE    |
| 504 to 505 | QDisable  | DCC1[5]   | DCC105   | QDisable  | DCC1[5]   | DCC153   | TRUE     | FALSE    |
| 504 to 505 | QDisable  | DCC1[6]   | DCC106   | QDisable  | DCC1[6]   | DCC154   | TRUE     | FALSE    |
| 504 to 505 | QDisable  | DCC1[7]   | DCC107   | QDisable  | DCC1[7]   | DCC155   | TRUE     | FALSE    |
| 504 to 505 | QDisable  | DCC1[8]   | DCC108   | QDisable  | DCC1[8]   | DCC156   | TRUE     | FALSE    |
| 504 to 505 | QDisable  | DCC1[9]   | DCC109   | QDisable  | DCC1[9]   | DCC157   | TRUE     | FALSE    |
| 504 to 505 | QDisable  | DCC1[10]  | DCC110   | QDisable  | DCC1[10]  | DCC158   | TRUE     | FALSE    |
| 504 to 505 |           |           |          | QDisable  | DCC1[11]  | DCC159   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QDisable  | DCC1[12]  | DCC160   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QDisable  | DCC1[13]  | DCC161   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QDisable  | DCC1[14]  | DCC162   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QDisable  | DCC1[15]  | DCC163   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QDisable  | DCC1[16]  | DCC164   | FALSE    | FALSE    |
| 504 to 505 | QDisable  | DSPEC6    | DSPEC25  | QDisable  | DSPEC6    | DSPEC37  | TRUE     | FALSE    |
| 504 to 505 |           |           |          | QBenefits | Inclus[1] | Inclus1  | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | Inclus[2] | Inclus2  | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | Inclus[3] | Inclus3  | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | Inclus[4] | Inclus4  | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | Inclus[5] | Inclus5  | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | Inclus[6] | Inclus6  | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | Inclus[7] | Inclus7  | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | Inclus[8] | Inclus8  | FALSE    | FALSE    |
| 504 to 505 | QBenefits | MatAll[1] | MatAll1  |           |           |          | FALSE    | FALSE    |
| 504 to 505 | QBenefits | MatAll[2] | MatAll2  |           |           |          | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | DBM11a    | DBM11a   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | DBM11b    | DBM11b   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | DBM11c    | DBM11c   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | DBM11d    | DBM11d   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | DBM11e    | DBM11e   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | DBM11f    | DBM11f   | FALSE    | FALSE    |
| 504 to 505 |           |           |          | QBenefits | DBM11g    | DBM11g   | FALSE    | FALSE    |

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| 504 to 505 | Q504     | BL0504  | SPSS0504 | Q505      | BL0505  | SPSS0505 | MatchedB | MatchedS |
|------------|----------|---------|----------|-----------|---------|----------|----------|----------|
| 504 to 505 |          |         |          | QBenefits | DBM11h  | DBM11h   | FALSE    | FALSE    |
| 504 to 505 | QInSupAm | BAmt    | BAmt2    |           |         |          | FALSE    | FALSE    |
| 504 to 505 | QInSupAm | BAmtDK  | BAmtDK2  |           |         |          | FALSE    | FALSE    |
| 504 to 505 | QInSupAm | BPd     | BPd2     |           |         |          | FALSE    | FALSE    |
| 504 to 505 | QInSupAm | NumWks  | NumWks2  |           |         |          | FALSE    | FALSE    |
| 504 to 505 | QInSupAm | RcptNow | RcptNow2 |           |         |          | FALSE    | FALSE    |
| 504 to 505 | QGdAllAm | BAmt    | BAmt3    | QGdAllAm  | BAmt    | BAmt2    | TRUE     | FALSE    |
| 504 to 505 | QGdAllAm | BAmtDK  | BAmtDK3  | QGdAllAm  | BAmtDK  | BAmtDK2  | TRUE     | FALSE    |
| 504 to 505 | QGdAllAm | BPd     | BPd3     | QGdAllAm  | BPd     | BPd2     | TRUE     | FALSE    |
| 504 to 505 | QGdAllAm | NumWks  | NumWks3  | QGdAllAm  | NumWks  | NumWks2  | TRUE     | FALSE    |
| 504 to 505 | QGdAllAm | RcptNow | RcptNow3 | QGdAllAm  | RcptNow | RcptNow2 | TRUE     | FALSE    |
| 504 to 505 | QICareAm | BAmt    | BAmt4    | QICareAm  | BAmt    | BAmt3    | TRUE     | FALSE    |
| 504 to 505 | QICareAm | BAmtDK  | BAmtDK4  | QICareAm  | BAmtDK  | BAmtDK3  | TRUE     | FALSE    |
| 504 to 505 | QICareAm | BPd     | BPd4     | QICareAm  | BPd     | BPd3     | TRUE     | FALSE    |
| 504 to 505 | QICareAm | NumWks  | NumWks4  | QICareAm  | NumWks  | NumWks3  | TRUE     | FALSE    |
| 504 to 505 | QICareAm | RcptNow | RcptNow4 | QICareAm  | RcptNow | RcptNow3 | TRUE     | FALSE    |
| 504 to 505 | QNIPenAm | BAmt    | BAmt5    | QNIPenAm  | BAmt    | BAmt4    | TRUE     | FALSE    |
| 504 to 505 | QNIPenAm | BAmtDK  | BAmtDK5  | QNIPenAm  | BAmtDK  | BAmtDK4  | TRUE     | FALSE    |
| 504 to 505 | QNIPenAm | BPd     | BPd5     | QNIPenAm  | BPd     | BPd4     | TRUE     | FALSE    |
| 504 to 505 | QNIPenAm | NumWks  | NumWks5  | QNIPenAm  | NumWks  | NumWks4  | TRUE     | FALSE    |
| 504 to 505 | QNIPenAm | RcptNow | RcptNow5 | QNIPenAm  | RcptNow | RcptNow4 | TRUE     | FALSE    |
| 504 to 505 | QWidowAm | BAmt    | BAmt6    | QWidowAm  | BAmt    | BAmt5    | TRUE     | FALSE    |
| 504 to 505 | QWidowAm | BAmtDK  | BAmtDK6  | QWidowAm  | BAmtDK  | BAmtDK5  | TRUE     | FALSE    |
| 504 to 505 | QWidowAm | BPd     | BPd6     | QWidowAm  | BPd     | BPd5     | TRUE     | FALSE    |
| 504 to 505 | QWidowAm | NumWks  | NumWks6  | QWidowAm  | NumWks  | NumWks5  | TRUE     | FALSE    |
| 504 to 505 | QWidowAm | RcptNow | RcptNow6 | QWidowAm  | RcptNow | RcptNow5 | TRUE     | FALSE    |
| 504 to 505 | QWarPnAm | BAmt    | BAmt7    | QWarPnAm  | BAmt    | BAmt6    | TRUE     | FALSE    |
| 504 to 505 | QWarPnAm | BAmtDK  | BAmtDK7  | QWarPnAm  | BAmtDK  | BAmtDK6  | TRUE     | FALSE    |
| 504 to 505 | QWarPnAm | BPd     | BPd7     | QWarPnAm  | BPd     | BPd6     | TRUE     | FALSE    |
| 504 to 505 | QWarPnAm | NumWks  | NumWks7  | QWarPnAm  | NumWks  | NumWks6  | TRUE     | FALSE    |
| 504 to 505 | QWarPnAm | RcptNow | RcptNow7 | QWarPnAm  | RcptNow | RcptNow6 | TRUE     | FALSE    |

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| 504 to 505 | Q504     | BL0504  | SPSS0504 | Q505     | BL0505  | SPSS0505 | MatchedB | MatchedS |
|------------|----------|---------|----------|----------|---------|----------|----------|----------|
| 504 to 505 | QSDisAm  | BAmt    | BAmt8    | QSDisAm  | BAmt    | BAmt7    | TRUE     | FALSE    |
| 504 to 505 | QSDisAm  | BAmtDK  | BAmtDK8  | QSDisAm  | BAmtDK  | BAmtDK7  | TRUE     | FALSE    |
| 504 to 505 | QSDisAm  | BPd     | BPd8     | QSDisAm  | BPd     | BPd7     | TRUE     | FALSE    |
| 504 to 505 | QSDisAm  | NumWks  | NumWks8  | QSDisAm  | NumWks  | NumWks7  | TRUE     | FALSE    |
| 504 to 505 | QSDisAm  | RcptNow | RcptNow8 | QSDisAm  | RcptNow | RcptNow7 | TRUE     | FALSE    |
| 504 to 505 | QDLACrAm | BAmt    | BAmt9    | QDLACrAm | BAmt    | BAmt8    | TRUE     | FALSE    |
| 504 to 505 | QDLACrAm | BAmtDK  | BAmtDK9  | QDLACrAm | BAmtDK  | BAmtDK8  | TRUE     | FALSE    |
| 504 to 505 | QDLACrAm | BPd     | BPd9     | QDLACrAm | BPd     | BPd8     | TRUE     | FALSE    |
| 504 to 505 | QDLACrAm | NumWks  | NumWks9  | QDLACrAm | NumWks  | NumWks8  | TRUE     | FALSE    |
| 504 to 505 | QDLACrAm | RcptNow | RcptNow9 | QDLACrAm | RcptNow | RcptNow8 | TRUE     | FALSE    |
| 504 to 505 | QDLAMob  | BAmt    | BAmt10   | QDLAMob  | BAmt    | BAmt9    | TRUE     | FALSE    |
| 504 to 505 | QDLAMob  | BAmtDK  | BAmtDK10 | QDLAMob  | BAmtDK  | BAmtDK9  | TRUE     | FALSE    |
| 504 to 505 | QDLAMob  | BPd     | BPd10    | QDLAMob  | BPd     | BPd9     | TRUE     | FALSE    |
| 504 to 505 | QDLAMob  | NumWks  | NumWks10 | QDLAMob  | NumWks  | NumWks9  | TRUE     | FALSE    |
| 504 to 505 | QDLAMob  | RcptNow | RcptNo10 | QDLAMob  | RcptNow | RcptNow9 | TRUE     | FALSE    |
| 504 to 505 | QAtAllAm | BAmt    | BAmt11   | QAtAllAm | BAmt    | BAmt10   | TRUE     | FALSE    |
| 504 to 505 | QAtAllAm | BAmtDK  | BAmtDK11 | QAtAllAm | BAmtDK  | BAmtDK10 | TRUE     | FALSE    |
| 504 to 505 | QAtAllAm | BPd     | BPd11    | QAtAllAm | BPd     | BPd10    | TRUE     | FALSE    |
| 504 to 505 | QAtAllAm | NumWks  | NumWks11 | QAtAllAm | NumWks  | NumWks10 | TRUE     | FALSE    |
| 504 to 505 | QAtAllAm | RcptNow | RcptNo11 | QAtAllAm | RcptNow | RcptNo10 | TRUE     | FALSE    |
| 504 to 505 | QBenAmt  | JSACHk  | JSACHk   |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QJSAAmt  | BAmt    | BAmt12   | QJSAAmt  | BAmt    | BAmt11   | TRUE     | FALSE    |
| 504 to 505 | QJSAAmt  | BAmtDK  | BAmtDK12 | QJSAAmt  | BAmtDK  | BAmtDK11 | TRUE     | FALSE    |
| 504 to 505 | QJSAAmt  | BPd     | BPd12    | QJSAAmt  | BPd     | BPd11    | TRUE     | FALSE    |
| 504 to 505 | QJSAAmt  | NumWks  | NumWks12 | QJSAAmt  | NumWks  | NumWks11 | TRUE     | FALSE    |
| 504 to 505 | QJSAAmt  | RcptNow | RcptNo12 | QJSAAmt  | RcptNow | RcptNo11 | TRUE     | FALSE    |
| 504 to 505 | QPCAmt   | BAmt    | BAmt13   | QPCAmt   | BAmt    | BAmt12   | TRUE     | FALSE    |
| 504 to 505 | QPCAmt   | BAmtDK  | BAmtDK13 | QPCAmt   | BAmtDK  | BAmtDK12 | TRUE     | FALSE    |
| 504 to 505 | QPCAmt   | BPd     | BPd13    | QPCAmt   | BPd     | BPd12    | TRUE     | FALSE    |
| 504 to 505 | QPCAmt   | NumWks  | NumWks13 | QPCAmt   | NumWks  | NumWks12 | TRUE     | FALSE    |
| 504 to 505 | QPCAmt   | RcptNow | RcptNo13 | QPCAmt   | RcptNow | RcptNo12 | TRUE     | FALSE    |

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| 504 to 505 | Q504     | BL0504     | SPSS0504 | Q505     | BL0505  | SPSS0505 | MatchedB | MatchedS |
|------------|----------|------------|----------|----------|---------|----------|----------|----------|
| 504 to 505 |          |            |          | QInSupAm | BAmt    | BAmt13   | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QInSupAm | BAmtDK  | BAmtDK13 | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QInSupAm | BPd     | BPd13    | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QInSupAm | NumWks  | NumWks13 | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QInSupAm | RcptNow | RcptNo13 | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QMatAlAm | BAmt    | BAmt15   | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QMatAlAm | BAmtDK  | BAmtDK15 | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QMatAlAm | BPd     | BPd15    | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QMatAlAm | NumWks  | NumWks15 | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QMatAlAm | RcptNow | RcptNo15 | FALSE    | FALSE    |
| 504 to 505 | QSickAm  | BAmt       | BAmt15   |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QSickAm  | BAmtDK     | BAmtDK15 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QSickAm  | BPd        | BPd15    |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QSickAm  | NumWks     | NumWks15 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QSickAm  | RcptNow    | RcptNo15 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatAlAm | BAmt       | BAmt17   |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatAlAm | BAmtDK     | BAmtDK17 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatAlAm | BPd        | BPd17    |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatAlAm | NumWks     | NumWks17 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatAlAm | RcptNow    | RcptNo17 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatStAm | BAmt       | BAmt18   |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatStAm | BAmtDK     | BAmtDK18 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatStAm | BPd        | BPd18    |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatStAm | NumWks     | NumWks18 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QMatStAm | RcptNow    | RcptNo18 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QWorkFam | BAmt       | BAmt19   | QWorkFam | BAmt    | BAmt17   | TRUE     | FALSE    |
| 504 to 505 | QWorkFam | BAmtDK     | BAmtDK19 | QWorkFam | BAmtDK  | BAmtDK17 | TRUE     | FALSE    |
| 504 to 505 | QWorkFam | BPd        | BPd19    | QWorkFam | BPd     | BPd17    | TRUE     | FALSE    |
| 504 to 505 | QWorkFam | NumWks     | NumWks19 | QWorkFam | NumWks  | NumWks17 | TRUE     | FALSE    |
| 504 to 505 | QWorkFam | RcptNow    | RcptNo19 | QWorkFam | RcptNow | RcptNo17 | TRUE     | FALSE    |
| 504 to 505 | QBenAmt  | TaxDocs[1] | TaxDocs1 |          |         |          | FALSE    | FALSE    |

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| 504 to 505 | Q504     | BL0504     | SPSS0504 | Q505     | BL0505  | SPSS0505 | MatchedB | MatchedS |
|------------|----------|------------|----------|----------|---------|----------|----------|----------|
| 504 to 505 | QBenAmt  | TaxDocs[2] | TaxDocs2 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QBenAmt  | WFTCLUMP   | WFTCLUMP |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QBenAmt  | DPTCLUMP   | DPTCLUMP |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QChTC    | BAmt       | BAmt20   |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QChTC    | BAmtDK     | BAmtDK20 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QChTC    | BPd        | BPd20    |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QChTC    | NumWks     | NumWks20 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QChTC    | RcptNow    | RcptNo20 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QBenAmt  | ChTCLUMP   | ChTCLUMP |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QBenAmt  | WTCLUMP    | WTCLUMP  |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QBenAmt  | CTCLUMP    | CTCLUMP  |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QWTC     | BAmt       | BAmt21   | QWTC     | BAmt    | BAmt18   | TRUE     | FALSE    |
| 504 to 505 | QWTC     | BAmtDK     | BAmtDK21 | QWTC     | BAmtDK  | BAmtDK18 | TRUE     | FALSE    |
| 504 to 505 | QWTC     | BPd        | BPd21    | QWTC     | BPd     | BPd18    | TRUE     | FALSE    |
| 504 to 505 | QWTC     | NumWks     | NumWks21 | QWTC     | NumWks  | NumWks18 | TRUE     | FALSE    |
| 504 to 505 | QWTC     | RcptNow    | RcptNo21 | QWTC     | RcptNow | RcptNo18 | TRUE     | FALSE    |
| 504 to 505 | QCTC     | BAmt       | BAmt22   | QCTC     | BAmt    | BAmt19   | TRUE     | FALSE    |
| 504 to 505 | QCTC     | BAmtDK     | BAmtDK22 | QCTC     | BAmtDK  | BAmtDK19 | TRUE     | FALSE    |
| 504 to 505 | QCTC     | BPd        | BPd22    | QCTC     | BPd     | BPd19    | TRUE     | FALSE    |
| 504 to 505 | QCTC     | NumWks     | NumWks22 | QCTC     | NumWks  | NumWks19 | TRUE     | FALSE    |
| 504 to 505 | QCTC     | RcptNow    | RcptNo22 | QCTC     | RcptNow | RcptNo19 | TRUE     | FALSE    |
| 504 to 505 | QDisPers | BAmt       | BAmt23   |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QDisPers | BAmtDK     | BAmtDK23 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QDisPers | BPd        | BPd23    |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QDisPers | NumWks     | NumWks23 |          |         |          | FALSE    | FALSE    |
| 504 to 505 | QDisPers | RcptNow    | RcptNo23 |          |         |          | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QSickAm  | BAmt    | BAmt20   | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QSickAm  | BAmtDK  | BAmtDK20 | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QSickAm  | BPd     | BPd20    | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QSickAm  | NumWks  | NumWks20 | FALSE    | FALSE    |
| 504 to 505 |          |            |          | QMatStAm | BAmt    | BAmt21   | FALSE    | FALSE    |

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| 504 to 505 | Q504 | BL0504 | SPSS0504 | Q505     | BL0505  | SPSS0505 | MatchedB | MatchedS |
|------------|------|--------|----------|----------|---------|----------|----------|----------|
| 504 to 505 |      |        |          | QMatStAm | BAmtDK  | BAmtDK21 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMatStAm | BPd     | BPd21    | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMatStAm | NumWks  | NumWks21 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMatStAm | RcptNow | RcptNo21 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QPatStAm | BAmt    | BAmt22   | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QPatStAm | BAmtDK  | BAmtDK22 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QPatStAm | BPd     | BPd22    | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QPatStAm | NumWks  | NumWks22 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QPatStAm | RcptNow | RcptNo22 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QAdpStAm | BAmt    | BAmt23   | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QAdpStAm | BAmtDK  | BAmtDK23 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QAdpStAm | BPd     | BPd23    | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QAdpStAm | NumWks  | NumWks23 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QAdpStAm | RcptNow | RcptNo23 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QTaxRfAm | BAmt    | BAmt24   | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QTaxRfAm | BAmtDK  | BAmtDK24 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QTaxRfAm | BPd     | BPd24    | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QTaxRfAm | NumWks  | NumWks24 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QTaxRfAm | RcptNow | RcptNo24 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMilAIAm | BAmt    | BAmt25   | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMilAIAm | BAmtDK  | BAmtDK25 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMilAIAm | BPd     | BPd25    | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMilAIAm | NumWks  | NumWks25 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMilAIAm | RcptNow | RcptNo25 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMotExAm | BAmt    | BAmt26   | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMotExAm | BAmtDK  | BAmtDK26 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMotExAm | BPd     | BPd26    | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMotExAm | NumWks  | NumWks26 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QMotExAm | RcptNow | RcptNo26 | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QTaxCdAm | BAmt    | BAmt27   | FALSE    | FALSE    |
| 504 to 505 |      |        |          | QTaxCdAm | BAmtDK  | BAmtDK27 | FALSE    | FALSE    |

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| 504 to 505 | Q504     | BL0504  | SPSS0504 | Q505     | BL0505  | SPSS0505 | MatchedB | MatchedS |
|------------|----------|---------|----------|----------|---------|----------|----------|----------|
| 504 to 505 |          |         |          | QTaxCdAm | BPd     | BPd27    | FALSE    | FALSE    |
| 504 to 505 |          |         |          | QTaxCdAm | NumWks  | NumWks27 | FALSE    | FALSE    |
| 504 to 505 |          |         |          | QTaxCdAm | RcptNow | RcptNo27 | FALSE    | FALSE    |
| 504 to 505 | QFunrIAm | BAmt    | BAmt24   | QFunrIAm | BAmt    | BAmt28   | TRUE     | FALSE    |
| 504 to 505 | QFunrIAm | BAmtDK  | BAmtDK24 | QFunrIAm | BAmtDK  | BAmtDK28 | TRUE     | FALSE    |
| 504 to 505 | QFunrIAm | BPd     | BPd24    | QFunrIAm | BPd     | BPd28    | TRUE     | FALSE    |
| 504 to 505 | QFunrIAm | NumWks  | NumWks24 | QFunrIAm | NumWks  | NumWks28 | TRUE     | FALSE    |
| 504 to 505 | QFunrIAm | RcptNow | RcptNo24 | QFunrIAm | RcptNow | RcptNo28 | TRUE     | FALSE    |
| 504 to 505 | QMatGrAm | BAmt    | BAmt25   | QMatGrAm | BAmt    | BAmt29   | TRUE     | FALSE    |
| 504 to 505 | QMatGrAm | BAmtDK  | BAmtDK25 | QMatGrAm | BAmtDK  | BAmtDK29 | TRUE     | FALSE    |
| 504 to 505 | QMatGrAm | BPd     | BPd25    | QMatGrAm | BPd     | BPd29    | TRUE     | FALSE    |
| 504 to 505 | QMatGrAm | NumWks  | NumWks25 | QMatGrAm | NumWks  | NumWks29 | TRUE     | FALSE    |
| 504 to 505 | QMatGrAm | RcptNow | RcptNo25 | QMatGrAm | RcptNow | RcptNo29 | TRUE     | FALSE    |
| 504 to 505 | QCCareAm | BAmt    | BAmt26   | QCCareAm | BAmt    | BAmt30   | TRUE     | FALSE    |
| 504 to 505 | QCCareAm | BAmtDK  | BAmtDK26 | QCCareAm | BAmtDK  | BAmtDK30 | TRUE     | FALSE    |
| 504 to 505 | QCCareAm | BPd     | BPd26    | QCCareAm | BPd     | BPd30    | TRUE     | FALSE    |
| 504 to 505 | QCCareAm | NumWks  | NumWks26 | QCCareAm | NumWks  | NumWks30 | TRUE     | FALSE    |
| 504 to 505 | QCCareAm | RcptNow | RcptNo26 | QCCareAm | RcptNow | RcptNo30 | TRUE     | FALSE    |
| 504 to 505 | QWintAm  | BAmt    | BAmt27   | QWintAm  | BAmt    | BAmt31   | TRUE     | FALSE    |
| 504 to 505 | QWintAm  | BAmtDK  | BAmtDK27 | QWintAm  | BAmtDK  | BAmtDK31 | TRUE     | FALSE    |
| 504 to 505 | QWintAm  | BPd     | BPd27    | QWintAm  | BPd     | BPd31    | TRUE     | FALSE    |
| 504 to 505 | QWintAm  | NumWks  | NumWks27 | QWintAm  | NumWks  | NumWks31 | TRUE     | FALSE    |
| 504 to 505 | QWintAm  | RcptNow | RcptNo27 | QWintAm  | RcptNow | RcptNo31 | TRUE     | FALSE    |
| 504 to 505 | QBWorkAm | BAmt    | BAmt28   | QBWorkAm | BAmt    | BAmt32   | TRUE     | FALSE    |
| 504 to 505 | QBWorkAm | BAmtDK  | BAmtDK28 | QBWorkAm | BAmtDK  | BAmtDK32 | TRUE     | FALSE    |
| 504 to 505 | QBWorkAm | BPd     | BPd28    | QBWorkAm | BPd     | BPd32    | TRUE     | FALSE    |
| 504 to 505 | QBWorkAm | NumWks  | NumWks28 | QBWorkAm | NumWks  | NumWks32 | TRUE     | FALSE    |
| 504 to 505 | QBWorkAm | RcptNow | RcptNo28 | QBWorkAm | RcptNow | RcptNo32 | TRUE     | FALSE    |
| 504 to 505 | QExtPaAm | BAmt    | BAmt29   | QExtPaAm | BAmt    | BAmt33   | TRUE     | FALSE    |
| 504 to 505 | QExtPaAm | BAmtDK  | BAmtDK29 | QExtPaAm | BAmtDK  | BAmtDK33 | TRUE     | FALSE    |
| 504 to 505 | QExtPaAm | BPd     | BPd29    | QExtPaAm | BPd     | BPd33    | TRUE     | FALSE    |

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| 504 to 505 | Q504     | BL0504  | SPSS0504 | Q505     | BL0505  | SPSS0505 | MatchedB | MatchedS |
|------------|----------|---------|----------|----------|---------|----------|----------|----------|
| 504 to 505 | QExtPaAm | NumWks  | NumWks29 | QExtPaAm | NumWks  | NumWks33 | TRUE     | FALSE    |
| 504 to 505 | QExtPaAm | RcptNow | RcptNo29 | QExtPaAm | RcptNow | RcptNo33 | TRUE     | FALSE    |
| 504 to 505 | QWidPaAm | BAmt    | BAmt30   | QWidPaAm | BAmt    | BAmt34   | TRUE     | FALSE    |
| 504 to 505 | QWidPaAm | BAmtDK  | BAmtDK30 | QWidPaAm | BAmtDK  | BAmtDK34 | TRUE     | FALSE    |
| 504 to 505 | QWidPaAm | BPd     | BPd30    | QWidPaAm | BPd     | BPd34    | TRUE     | FALSE    |
| 504 to 505 | QWidPaAm | NumWks  | NumWks30 | QWidPaAm | NumWks  | NumWks34 | TRUE     | FALSE    |
| 504 to 505 | QWidPaAm | RcptNow | RcptNo30 | QWidPaAm | RcptNow | RcptNo34 | TRUE     | FALSE    |
| 504 to 505 | QChMaiAm | BAmt    | BAmt31   | QChMaiAm | BAmt    | BAmt35   | TRUE     | FALSE    |
| 504 to 505 | QChMaiAm | BAmtDK  | BAmtDK31 | QChMaiAm | BAmtDK  | BAmtDK35 | TRUE     | FALSE    |
| 504 to 505 | QChMaiAm | BPd     | BPd31    | QChMaiAm | BPd     | BPd35    | TRUE     | FALSE    |
| 504 to 505 | QChMaiAm | NumWks  | NumWks31 | QChMaiAm | NumWks  | NumWks35 | TRUE     | FALSE    |
| 504 to 505 | QChMaiAm | RcptNow | RcptNo31 | QChMaiAm | RcptNow | RcptNo35 | TRUE     | FALSE    |
| 504 to 505 | QLoneRAm | BAmt    | BAmt32   | QLoneRAm | BAmt    | BAmt36   | TRUE     | FALSE    |
| 504 to 505 | QLoneRAm | BAmtDK  | BAmtDK32 | QLoneRAm | BAmtDK  | BAmtDK36 | TRUE     | FALSE    |
| 504 to 505 | QLoneRAm | BPd     | BPd32    | QLoneRAm | BPd     | BPd36    | TRUE     | FALSE    |
| 504 to 505 | QLoneRAm | NumWks  | NumWks32 | QLoneRAm | NumWks  | NumWks36 | TRUE     | FALSE    |
| 504 to 505 | QLoneRAm | RcptNow | RcptNo32 | QLoneRAm | RcptNow | RcptNo36 | TRUE     | FALSE    |
| 504 to 505 | QOthBAm  | BAmt    | BAmt33   | QOthBAm  | BAmt    | BAmt37   | TRUE     | FALSE    |
| 504 to 505 | QOthBAm  | BAmtDK  | BAmtDK33 | QOthBAm  | BAmtDK  | BAmtDK37 | TRUE     | FALSE    |
| 504 to 505 | QOthBAm  | BPd     | BPd33    | QOthBAm  | BPd     | BPd37    | TRUE     | FALSE    |
| 504 to 505 | QOthBAm  | NumWks  | NumWks33 | QOthBAm  | NumWks  | NumWks37 | TRUE     | FALSE    |
| 504 to 505 | QOthBAm  | RcptNow | RcptNo33 | QOthBAm  | RcptNow | RcptNo37 | TRUE     | FALSE    |

| 505 to 507 | <b>BL0505</b> | <b>Q505</b> | <b>SPSS0505</b> | <b>BL507</b> | <b>Q507</b> | <b>SPSS0507</b> | <b>MatchedB</b> | <b>MatchedS</b> |
|------------|---------------|-------------|-----------------|--------------|-------------|-----------------|-----------------|-----------------|
| 505 to 507 |               |             |                 | QSignIn      | SfOwchk     | SfOwchk         | FALSE           | FALSE           |
| 505 to 507 |               |             |                 | QSignIn      | DVsftck     | DVsftck         | FALSE           | FALSE           |
| 505 to 507 |               |             |                 | QSignIn      | DVsfon      | DVsfon          | FALSE           | FALSE           |
| 505 to 507 |               |             |                 | QSignIn      | HomeChks    | HomeChks        | FALSE           | FALSE           |
| 505 to 507 |               |             |                 | QSignIn      | PABNum      | PABNum          | FALSE           | FALSE           |
| 505 to 507 |               |             |                 | QSignIn      | DStart      | DStart          | FALSE           | FALSE           |
| 505 to 507 |               |             |                 | QSignIn      | PxIntEd     | PxIntEd         | FALSE           | FALSE           |
| 505 to 507 |               |             |                 | QSignIn      | Editor      | Editor          | FALSE           | FALSE           |
| 505 to 507 |               |             |                 | QSignIn      | TIntNum     | TIntNum         | FALSE           | FALSE           |
| 505 to 507 |               |             |                 | QSignIn      | TelDate     | TelDate         | FALSE           | FALSE           |

### 10.10 Benefit DVs and derivation

A series of variables was introduced to make the relationship between benefit names and corresponding values clearer. Previously, benefits had been identified only as BAm, Bam2, etc, and it required special knowledge to associate each *numbered* benefit with a *named* benefit. To resolve this problem, a new set of DVs was produced. These would have a meaningful name and would consist of a complete set, one for each benefit. The new DVs show:

- Whether a household is receiving a particular benefit
- The amount of the benefit
- The period the benefit covers
- If the benefit amount is not given, whether that is because the household receives an amount in combination with other benefits or because the respondent simply does not know the amount of the benefit.
- A flag showing whether a benefit is paid in combination or not.

Benefit information is not complete for a number of reasons. Firstly, not all respondents agreed to provide information about benefits. Secondly, not all benefits were available in all quarters/months. The values of relevant DVs take this into account. The table below shows all of the potential benefits recorded over the survey year and gives the corresponding variable names.

| <b>Benefit</b>              | <b>Household Receiving Benefit</b> | <b>Amount Received</b> | <b>“Don’t Know” given as answer</b> | <b>Period covered by the Benefit</b> | <b>Benefit Paid in Combination with another benefit</b> |
|-----------------------------|------------------------------------|------------------------|-------------------------------------|--------------------------------------|---|
| Child Benefit               | DV_RCV_Ben_Childben                | DV_ChildBen_Amt        | DV_ChildBen_AmtDK                   | DV_ChildBen_Pd                       | DVChBen   |
| Guardian’s Allowance        | DV_RCV_Ben_GuardAllw               | DV_GuardAllw_Amt       | DV_GuardAllw_AmtDK                  | DV_GuardAllw_Pd                      | DVGdAll   |
| Invalidity Care Allowance   | DV_RCV_Ben_InvCareAllw             | DV_InvCareAllw_Amt     | DV_InvCareAllw_AmtDK                | DV_InvCareAllw_Pd                    | DVICare   |
| State Pension               | DV_RCV_Ben_NIPen                   | DV_NIPen_Amt           | DV_NIPen_AmtDK                      | DV_NIPen_Pd                          | DVNiPen   |
| Widow’s Pension             | DV_RCV_Ben_WidPen                  | DV_WidPen_Amt          | DV_WidPen_AmtDK                     | DV_WidPen_Pd                         | DVWidow   |
| War Pension                 | DV_RCV_Ben_WarDis                  | DV_WarDis_Amt          | DV_WarDis_AmtDK                     | DV_WarDis_Pd                         | DVWarPn   |
| Severe Disability Allowance | DV_RCV_Ben_SevDis                  | DV_SevDis_Amt          | DV_SevDis_AmtDK                     | DV_SevDis_Pd                         | DVSDis  |
| DLA Care Allowance          | DV_RCV_Ben_DLACare                 | DV_DLACare_Amt         | DV_DLACare_AmtDK                    | DV_DLACare_Pd                        | DVDLACr   |
| DLA Mobility Allowance      | DV_RCV_Ben_DLAMob                  | DV_DLAMob_Amt          | DV_DLAMob_AmtDK                     | DV_DLAMob_Pd                         | DVDLAMob  |
| Attendance Allowance        | DV_RCV_Ben_AttAllw                 | DV_AttAllw_Amt         | DV_AttAllw_AmtDK                    | DV_AttAllw_Pd                        | DVATAll   |
| Job Seeker’s Allowance      | DV_RCV_Ben_JSAIB                   | DV_JSAIB_Amt           | DV_JSAIB_AmtDK                      | DV_JSAIB_Pd                          | DVJSA   |
| Pension Credit              | DV_RCV_Ben_PenCre                  | DV_PenCred_Amt         | DV_PenCred_AmtDK                    | DV_PenCred_Pd                        | DVPC  |
| Income Support Allowance    | DV_RCV_Ben_IncSupp                 | DV_IncSupp_Amt         | DV_IncSupp_AmtDK                    | DV_IncSupp_Pd                        | DVInSup   |
| Incapacity Benefit          | DV_RCV_Ben_IncapBen                | DV_IncapBen_Amt        | DV_IncapBen_AmtDK                   | DV_IncapBen_Pd                       | DVInCap   |
| Maternity Allowance         | DV_RCV_Ben_MatAllw                 | DV_MatAllw_Amt         | DV_MatAllw_AmtDK                    | DV_MatAllw_Pd                        | DVMatAI   |

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| <b>Benefit</b>                   | <b>Household Receiving Benefit</b> | <b>Amount Received</b> | <b>“Don't Know” given as answer</b> | <b>Period covered by the Benefit</b> | <b>Benefit Paid in Combination with another benefit</b> |
|----------------------------------|------------------------------------|------------------------|-------------------------------------|--------------------------------------|---|
| Industrial Injury Disablement    | DV_RCV_Ben_IndInj                  | DV_IndInj_Amt          | DV_IndInj_AmtDK                     | DV_IndInj_Pd                         | DVInDis   |
| Working Tax Credit               | DV_RCV_Ben_WTC                     | DV_WTC_Amt             | DV_WTC_AmtDK                        | DV_WTC_Pd                            | DVWTC   |
| Child Tax Credit                 | DV_RCV_Ben_CTC                     | DV_CTC_Amt             | DV_CTC_AmtDK                        | DV_CTC_Pd                            | DVCTC   |
| Statutory Sick Pay               | DV_RCV_Ben_StatSP                  | DV_StatSP_Amt          | DV_StatSP_AmtDK                     | DV_StatSP_Pd                         | DVSick  |
| Statutory Maternity Pay          | DV_RCV_Ben_StatMatPay              | DV_StatMatPay_Amt      | DV_StatMatPay_AmtDK                 | DV_StatMatPay_Pd                     | DVMatSt   |
| Statutory Paternity Pay          | DV_RCV_Ben_StatPatPay              | DV_StatPatPay_Amt      | DV_StatPatPay_AmtDK                 | DV_StatPatPay_Pd                     | DVPatS  |
| Statutory Adoption Pay           | DV_RCV_Ben_StatAdoptPay            | DV_StatAdoptPay_Amt    | DV_StatAdoptPay_AmtDK               | DV_StatAdoptPay_Pd                   | DVAdopS   |
| Tax Refund                       | DV_RCV_Ben_TaxRefund               | DV_TaxRefund_Amt       | DV_TaxRefund_AmtDK                  | DV_TaxRefund_Pd                      | DVTaxRf   |
| Mileage Allowance                | DV_RCV_Ben_MileAllw                | DV_MileAllw_Amt        | DV_MileAllw_AmtDK                   | DV_MileAllw_Pd                       | DVMilAlw  |
| Motoring Expenses                | DV_RCV_Ben_MotExp                  | DV_MotExp_Amt          | DV_MotExp_AmtDK                     | DV_MotExp_Pd                         | DVMotEx   |
| Tax Credit                       | DV_RCV_Ben_TaxCred                 | DV_TaxCred_Amt         | DV_TaxCred_AmtDK                    | DV_TaxCred_Pd                        | DVTaxCd   |
| Funeral Grant                    | DV_RCV_Ben_FnrlGrnt                | DV_FnrlGrnt_Amt        | DV_FnrlGrnt_AmtDK                   | DV_FnrlGrnt_Pd                       | DVFunrl   |
| Maternity Grant                  | DV_RCV_Ben_MatExpGrnt              | DV_MatExpGrnt_Amt      | DV_MatExpGrnt_AmtDK                 | DV_MatExpGrnt_Pd                     | DVMatGr   |
| Community Care Grant             | DV_RCV_Ben_ComCareGrnt             | DV_ComCareGrnt_Amt     | DV_ComCareGrnt_AmtDK                | DV_ComCareGrnt_Pd                    | DVCCare   |
| Winter Fuel Allowance            | DV_RCV_Ben_WintFuel                | DV_WintFuel_Amt        | DV_WintFuel_AmtDK                   | DV_WintFuel_Pd                       | DVWint  |
| Back to Work Allowance           | DV_RCV_Ben_BackToWk                | DV_BackToWk_Amt        | DV_BackToWk_AmtDK                   | DV_BackToWk_Pd                       | DVBWork   |
| Extended Payment Housing Benefit | DV_RCV_Ben_ExtHBen                 | DV_ExtHBen_Amt         | DV_ExtHBen_AmtDK                    | DV_ExtHBen_Pd                        | DVExtPa   |
| Widow's Lump Sum                 | DV_RCV_Ben_WidLmpSm                | DV_WidLmpSm_Amt        | DV_WidLmpSm_AmtDK                   | DV_WidLmpSm_Pd                       | DVWidPa   |
| Child Maintenance Bonus          | DV_RCV_Ben_ChldMntBon              | DV_ChldMntBon_Amt      | DV_ChldMntBon_AmtDK                 | DV_ChldMntBon_Pd                     | DVChMai   |
| Lone Parent Run-on Benefit       | DV_RCV_Ben_LoneParRun              | DV_LoneParRun_Amt      | DV_LoneParRun_AmtDK                 | DV_LoneParRun_Pd                     | DVLoneR   |
| Other State Benefit              | DV_RCV_Ben_OthBen                  | DV_OthBen_Amt          | DV_OthBen_AmtDK                     | DV_OthBen_Pd                         | DVOthB  |

| <b>Benefit Values</b> | <b>Household Receiving Benefit</b>   | <b>Amount Received</b> | <b>“Don't Know” given as answer</b>                                | <b>Period covered by the Benefit</b> | <b>Benefit Paid in Combination with another benefit</b> |
|-----------------------|--------------------------------------|------------------------|--|--------------------------------------|---|
|                       | 0 Not receiving this benefit         |                        | 1 Yes, DK because benefit paid in combination with another benefit | 1 'one week'                         | 0 No  |
|                       | 1 Receiving this benefit             |                        | 2 No, Just don't know how much was paid                            | 2 'two weeks'                        | 1 Yes   |
|                       | -8 Benefit section refused           |                        |  | 3 'three weeks'                      |   |
|                       | -9 Benefit not available this mo/qtr |                        |  | 4 'four weeks'                       |   |
|                       |                                      |                        |  | 5 'calendar month'                   |   |
|                       |                                      |                        |  | 7 'two calendar months'              |   |
|                       |                                      |                        |  | 8 'eight times a year'               |   |
|                       |                                      |                        |  | 9 'nine times a year'                |   |
|                       |                                      |                        |  | 10 'ten times a year'                |   |
|                       |                                      |                        |  | 13 'three months/13 weeks'           |   |
|                       |                                      |                        |  | 26 'six months/26 weeks'             |   |
|                       |                                      |                        |  | 52 'one yr/12 mos/52 wks'            |   |
|                       |                                      |                        |  | 90 'less than one week'              |   |
|                       |                                      |                        |  | 95 'one off/lump sum'                |   |
|                       |                                      |                        |  | 97 'none of these'                   |   |

### **10.11 Legal Statement to Householders**



#### **The Physical Survey**

Thank you again for helping with this important research.

The SHCS is designed to give a broad overview of the state of homes in Scotland, and is used to monitor housing standards over time.

It should only take the surveyor fifteen to twenty minutes to carry out the observation. He/she will look around the inside and outside of your home, at your heating system and other amenities, and record information on a form. The survey is observational, so it will not be necessary to move any furniture. There is no need for any particular member of the household to be present.

The survey cannot be considered an official safety inspection and the surveyor will not be able to give you any official advice about the condition of your home or amenities.

*On behalf of,  
Communities Scotland, Miller Mitchell Burley Lane and the Office for National Statistics*

10.12 Physical Survey Form



Surveyor Name

Surveyor Number

Surveyor: write serial number here  
Affix serial number label here

**A. CONTACT INFORMATION**

1. Contact Record **Make at least 4 attempts to obtain a full survey including a weekday (morning, afternoon and evening) and a weekend**

| Call No. | Day (1-7) | Time (1-4) | Date (ddmmyy) | Day 1 = Monday<br>2 = Tuesday<br>3 = Wednesday<br>4 = Thursday<br>5 = Friday<br>6 = Saturday<br>7 = Sunday | Surveyor's Comments |
|----------|-----------|------------|---------------|--|---------------------|
| 1        |           |            | / /           |  |                     |
| 2        |           |            | / /           |  |                     |
| 3        |           |            | / /           |  |                     |
| 4        |           |            | / /           |  |                     |
| 5        |           |            | / /           | Time<br>1 = Morning<br>2 = Early Afternoon<br>3 = Late Afternoon<br>4 = Evening                            |                     |
| 6        |           |            | / /           |  |                     |

2. Total number of calls

3. Time at Dwelling (minutes)

4. Final Outcome

|                                   |                                       |                        |                       |           |
|-----------------------------------|---------------------------------------|------------------------|-----------------------|-----------|
| property not usable as dwelling 5 | property no longer used as dwelling 4 | contact & refusal 3    | no contact 2          | contact 1 |
| invalid dwelling type 9           | withdrawn by ONS 8                    | dwelling untraceable 7 | dwelling demolished 6 |           |

5. Refusal Information **If Final Outcome is Refusal, select a reason AND after T13 explain what the householder said**

|                           |                                |                                  |                                  |                   |                       |                         |                       |
|---------------------------|--------------------------------|----------------------------------|----------------------------------|-------------------|-----------------------|-------------------------|-----------------------|
| worried about landlord 08 | nothing wrong with my house 07 | not interested 06                | no reason for refusal 05         | too busy 04       | SHCS too intrusive 03 | will take too long 02   | never does surveys 01 |
| not applicable 88         | other 14                       | worried about safety/security 13 | worried about confidentiality 12 | waste of money 11 | not council house 10  | nothing in it for me 09 |                       |

6. Recontact by another surveyor?

no (exceptional circumstances only) 2    yes 1

7. Photographic Record

|                |        |                        |        |         |         |
|----------------|--------|------------------------|--------|---------|---------|
| A Photograph 1 | none 8 | dwelling description 4 | area 3 | back 2  | front 1 |
| B Photograph 2 | none 8 | area 3                 | back 2 | front 1 |         |
| C Photograph 3 | none 8 | area 3                 | back 2 | front 1 |         |
| D Photograph 4 | none 8 | area 3                 | back 2 | front 1 |         |

**Essential Facts**

|                       |  |
|-----------------------|--|
| <b>Porch</b>          | Attached to and project from the house.<br>Single storey.<br>Enclosed weather protection to an entrance.<br>Door between porch and house.<br>Contain no room or WC.<br>If unheated, do not include in floor dimensions. If heated include in floor dimensions.   |
| <b>Conservatory</b>   | $\frac{3}{4}$ roof area and $\frac{1}{2}$ external wall area glazed or translucent.<br>Attached to dwelling.<br>Provide enclosed weather protection.<br>Accessible from inside the house.<br>Need not have door into house.<br>If all of the above then must be 8m <sup>2</sup> , otherwise = porch.<br>If separated by door and unheated, do not include in floor dimensions. If heated, or not separated, include in floor dimensions. |
| <b>Habitable room</b> | Floor area 4.65m <sup>2</sup> .<br>Ceiling height 2m over at least half of this.   |
| <b>Basement</b>       | A basement is a storey which has it's lowest floor at least 1m below ground level. If retaining walls then basement if retaining walls are within 3m of edge of floor.   |

**Barrier Free**

|               |   |
|---------------|---|
| <b>D8-D11</b> | Same entrance assessed for D8, D9 & D10. D11 entrance is not necessarily the same entrance as D8, D9 & D10.   |
| <b>D8</b>     | <b>Wheelchair access to entrance door of dwelling or common block is...</b><br>To be suitable: Gates/Gaps min 850 wide, Surface Access material min 900 wide and of hard standing material.   |
| <b>D9</b>     | <b>Pathways from road and/or car spaces up to but not including the entrance door to the dwelling or common block are...</b> Max ramp gradient 1:12, min 1000mm wide with 1000mm platform at entrance level. If ramp longer than 10m and steeper than 1:15 an intermediate platform required. |
| <b>D11</b>    | <b>Is door bell/entry system to dwelling or common block accessible for wheelchair users?</b> Assess changes in level, gates/gaps, paths, path gradients, level standing at entrance, accessibility of bells/knockers/entry systems.  |
| <b>D15</b>    | <b>Is Dwelling suitable for Solar Panels or Photo voltaics?</b> Dwelling needs a suitable roof area larger than 8m <sup>2</sup> . Sloping roof areas require to be between 150°-210°. Both sloping & flat roof areas should not be over shaded.   |

**B. TYPE OF SURVEY**

|                               |   |   |   |   |  |   |                          |
|-------------------------------|---|---|---|---|--|---|--------------------------|
| 1. Extent of survey completed | dwelling description sections A,B,D & E | 3 | external survey, sections A,B,D,E,O,P,Q,R,S,T1,T8,T10,T13 | 2 | full survey all relevant sections                  | 1 | <input type="checkbox"/> |
| 2. Is the dwelling occupied?  | no, requires repair, not being marketed | 5 | no, requires repair, being marketed                       | 4 | no, suitable for immediate use, not being marketed | 3 | <input type="checkbox"/> |
|                               |   |   |   |   | no, suitable for immediate use, being marketed     | 2 | <input type="checkbox"/> |
|                               |   |   |   |   | yes  | 1 | <input type="checkbox"/> |

**D. DWELLING DESCRIPTION Answer all questions in this section**

|  |                      |   |                     |   |                        |   |                           |   |                            |   |                          |   |                          |   |                          |   |                          |   |                          |
|--|----------------------|---|---------------------|---|------------------------|---|---------------------------|---|----------------------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|
| 1. Type of house   | not a house          | 8 | corner              | 6 | detached               | 5 | semi-detached             | 4 | end terrace                | 3 | terrace with passage     | 2 | mid terrace              | 1 | <input type="checkbox"/> |   |                          |   |                          |
| 2. Type of flat  |                      |   |                     |   | not a flat             | 8 | flat from converted house | 4 | tower/slab                 | 3 | 4-in-block type          | 2 | tenement                 | 1 | <input type="checkbox"/> |   |                          |   |                          |
| 3. If a flat, is it located directly above shops, offices or other commercial premises?                                  |                      |   |                     |   |                        |   |                           |   | not a flat                 | 8 | yes                      | 2 | no                       | 1 | <input type="checkbox"/> |   |                          |   |                          |
| 4. Flat only, floor exposure   |                      |   |                     |   | not a flat             | 8 | non heat loss floor       | 4 | part exposed               | 3 | exposed (above grd)      | 2 | ground floor             | 1 | <input type="checkbox"/> |   |                          |   |                          |
| 5. Flat only, roof exposure  |                      |   |                     |   | not a flat             | 8 | non heat loss roof        | 4 | part exposed               | 3 | flat roof                | 2 | pitched roof             | 1 | <input type="checkbox"/> |   |                          |   |                          |
| 6. Flat only, wall exposure  | not a flat           | 8 | 4 walls exposed     | 7 | 3-4 walls exposed      | 6 | 3 walls exposed           | 5 | 2-3 walls exposed          | 4 | 2 walls exposed          | 3 | 1-2 walls exposed        | 2 | 1 wall exposed           | 1 | <input type="checkbox"/> |   |                          |
| 7. Entry level of dwelling   | unob.                | 9 | basement            | 7 | six-plus               | 6 | fifth                     | 5 | fourth                     | 4 | third                    | 3 | second                   | 2 | first                    | 1 | ground                   | 0 | <input type="checkbox"/> |
| 8. Wheelchair access to entrance door of dwelling or common block is...  |                      |   |                     |   | unob.                  | 9 | n/a                       | 8 | loose / unsuit surface     | 3 | suit. width, hard stand. | 2 | inad. width, hard stand. | 1 | <input type="checkbox"/> |   |                          |   |                          |
| 9. Pathways from road and/or car spaces up to but not including the entrance door to the dwelling or common block are... |                      |   |                     |   | unob.                  | 9 | n/a                       | 8 | step free                  | 3 | potentially step free    | 2 | step free not poss.      | 1 | <input type="checkbox"/> |   |                          |   |                          |
| 10. Number of access steps within the curtilage to the entrance door   | unob.                | 9 | over 10 steps       | 4 | 6-10 steps             | 3 | 3-5 steps                 | 2 | 1-2 steps                  | 1 | no steps                 | 0 | <input type="checkbox"/> |   |                          |   |                          |   |                          |
| 11. Is door bell/ entry system to dwelling or common block accessible for wheelchair users?                              |                      |   |                     |   | unob.                  | 9 | n/a                       | 8 | yes                        | 2 | no                       | 1 | <input type="checkbox"/> |   |                          |   |                          |   |                          |
| 12. Quality assessment of dwelling   |                      |   |                     |   |                        |   |                           |   | of superior quality        | 3 | better than basic        | 2 | basic                    | 1 | <input type="checkbox"/> |   |                          |   |                          |
| 13. Date of construction of dwelling   |                      |   |                     |   |                        |   | Pre - 1919                | 5 | 1919 - 1944                | 4 | 1945 - 1964              | 3 | 1965 - 1982              | 2 | post 1982                | 1 | <input type="checkbox"/> |   |                          |
| 14. Presence of porch / conservatory   | unob.                | 9 | n/a                 | 8 | porch and conservatory | 4 | conservatory only         | 3 | porch only                 | 2 | none                     | 1 | <input type="checkbox"/> |   |                          |   |                          |   |                          |
| 15. Is dwelling suitable for solar panels or photo voltaics?   | unob.                | 9 | n/a                 | 8 | pv already installed   | 4 | sp already installed      | 3 | yes                        | 2 | no                       | 1 | <input type="checkbox"/> |   |                          |   |                          |   |                          |
| 16. Provision for exclusive parking associated with dwelling   | no exclus. parking   | 8 | space/gar elsewhere | 4 | space on plot          | 3 | garage on plot            | 2 | integral / attached garage | 1 | <input type="checkbox"/> |   |                          |   |                          |   |                          |   |                          |
| 17. Evidence of residential building activity  | no adjacent dwelling | 8 | mixed activity      | 5 | developing             | 4 | demolishing               | 3 | repairing or improving     | 2 | no activity              | 1 | <input type="checkbox"/> |   |                          |   |                          |   |                          |
| 18. Parking provision  |                      |   |                     |   | unob.                  | 9 | adequate                  | 3 | inadequate                 | 2 | no parking provision     | 1 | <input type="checkbox"/> |   |                          |   |                          |   |                          |

**Essential Facts**

|                       |  |
|-----------------------|--|
| <b>Porch</b>          | Attached to and project from the house.<br>Single storey.<br>Enclosed weather protection to an entrance.<br>Door between porch and house.<br>Contain no room or WC.<br>If unheated, do not included in floor dimensions. If heated include in floor dimensions.  |
| <b>Conservatory</b>   | $\frac{3}{4}$ roof area and $\frac{1}{2}$ external wall area glazed or translucent.<br>Attached to dwelling.<br>Provide enclosed weather protection.<br>Accessible from inside the house.<br>Need not have door into house.<br>If all of the above then must be <b>8m<sup>2</sup></b> , otherwise = porch.<br>If separated by door and unheated, do not include in floor dimensions. If heated, or not separated, include in floor dimensions. |
| <b>Habitable room</b> | Floor area <b>4.65m<sup>2</sup></b> .<br>Ceiling height <b>2m</b> over at least <b>half of this</b> .  |
| <b>Basement</b>       | A basement is a storey which has it's lowest floor at least <b>1m</b> below ground level. If retaining walls then basement if retaining walls are within <b>3m</b> of edge of floor.   |

| E. CHARACTERISTICS OF COMMON BLOCK  |                       |   |          |   |  |   |               |                          |             |                          |                          |                          |
|---|-----------------------|---|----------|---|--|---|---------------|--------------------------|-------------|--------------------------|--------------------------|--------------------------|
| 1. Is the dwelling a flat?  | no - ignore section E |   | 2        |   | yes - complete section E                       |   | 1             | <input type="checkbox"/> |             |                          |                          |                          |
| 2. Type of common block (or converted building)                                   | corner                | 5 | detached | 4 | semi detached                                  | 3 | end terrace   | 2                        | mid terrace | 1                        | <input type="checkbox"/> |                          |
| 3. Does the common block contain a non-residential use?                           |                       |   |          |   | unob.  | 9 | yes           | 2                        | no          | 1                        | <input type="checkbox"/> |                          |
| 4. Is there a dwelling(s) or part dwelling(s) in the roof?                        |                       |   |          |   | unob.  | 9 | yes           | 2                        | no          | 1                        | <input type="checkbox"/> |                          |
| 5. Is there a dwelling(s) or part dwelling(s) in the basement?                    | unob.                 | 9 | yes      | 3 | no dwelling(s) or part dwelling(s) in basement |   | 2             | no basement              |             | 1                        | <input type="checkbox"/> |                          |
| 6. Number of actual dwellings in the common block                                 |                       |   |          |   |  |   | unob.         | 999                      | specify     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Estimate equivalent number of dwellings in the common block (floor area basis) |                       |   |          |   |  |   | unob.         | 999                      | specify     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Number of storeys in the common block  |                       |   |          |   |  |   | unob.         | 99                       | specify     | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| 9. Original tenure of common block  |                       |   |          |   |  |   | social rented | 2                        | private     |                          | 1                        | <input type="checkbox"/> |
| 10. Current tenure of common block  |                       |   |          |   | mixed  | 3 | social rented | 2                        | private     |                          | 1                        | <input type="checkbox"/> |

**Repairs**

|    |                  |                  |     |
|----|------------------|------------------|-----|
| G7 | Doors and Frames | Door leaf        | 30% |
|    |                  | Frame            | 50% |
|    |                  | Ironmongery      | 20% |
| I3 | Staircase(s)     | Risings & goings | 50% |
|    |                  | Stringers        | 30% |
|    |                  | Handrails        | 20% |

|     |                              |                        |     |
|-----|------------------------------|------------------------|-----|
| G8  | Fireplaces and Flues         | Grate                  | 20% |
|     |                              | Hearth                 | 30% |
|     |                              | Fireback up to throat  | 40% |
|     |                              | Surround               | 20% |
| K15 | Kitchen storage and Worktops | Kitchen unit carcasses | 30% |
|     |                              | Doors/drawers          | 30% |
|     |                              | Ironmongery            | 10% |
|     |                              | Work surfaces          | 30% |

**Essential Facts**

|                       |   |
|-----------------------|---|
| <b>Porch</b>          | Attached to and project from the house.<br>Single storey.<br>Enclosed weather protection to an entrance.<br>Door between porch and house.<br>Contain no room or WC.<br>If unheated, do not included in floor dimensions. If heated include in floor dimensions.   |
| <b>Conservatory</b>   | ¼ roof area and ½ external wall area glazed or translucent.<br>Attached to dwelling.<br>Provide enclosed weather protection.<br>Accessible from inside the house.<br>Need not have door into house.<br>If all of the above then must be 8m <sup>2</sup> , otherwise = porch.<br>If separated by door and unheated, do not include in floor dimensions. If heated, or not separated, include in floor dimensions.  |
| <b>Habitable room</b> | Floor area 4.65m <sup>2</sup> .<br>Ceiling height 2m over at least half of this.  |
| <b>Basement</b>       | A basement is a storey which has it's lowest floor at least 1m below ground level. If retaining walls then basement if retaining walls are within 3m of edge of floor.  |
| <b>J1</b>             | <b>Total number of habitable rooms plus kitchen.</b> Do NOT include conservatories, bathrooms, toilets, utility rooms, storerooms, cupboards, recesses, sculleries no longer used for cooking or halls/landings as habitable rooms.   |
| <b>J6</b>             | Is the internal circulation barrier free?<br>Barrier free access required to living room, bedroom, kitchen & bathroom (must contain WC, WHB, bath/shower).<br>· Passages at least 900mm wide which are free of obstructions, radiators etc.<br>· Doors at least 750mm wide<br>· Where 90° turn into room from passage required for full barrier free access– passageway 1200mm wide by door or door 900mm wide<br>· Surveyors should not consider the potential for a stair lift or other conversion but can redesignate rooms. |

| F. ROOM BY ROOM RECORD   |                                    |                          |  |                          |                             |                          |                          | 0 entry level<br>1 first level<br>2 second level<br>3 third or more<br>7 below entry level<br>8 no room<br>9 unob               |
|--|------------------------------------|--------------------------|--|--------------------------|-----------------------------|--------------------------|--------------------------|---|
|  | Hall/<br>Landing                   | Kitchen                  | R1                                     | R2                       | R3                          | R4                       | R5                       | Bathroom  |
| 1. Room level  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 2. Room type   | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| G. ROOM REPAIRS ('00' no repairs; '55', '01' - '10' disrepair; '88' n/a; '99' unobtainable)              |                                    |                          |  |                          |                             |                          |                          | 1 kitchen only<br>2 living<br>3 other public<br>4 bed<br>5 bath and WC<br>6 bath only<br>7 WC only                              |
|  | Hall/<br>Landing                   | Kitchen                  | R1                                     | R2                       | R3                          | R4                       | R5                       | Bathroom  |
| 1. Floor structure   | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 2. Floor finish  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 3. Skirtings   | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 4. Wall finish   | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 5. Ceiling finish  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 6. Cornices  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 7. Doors and frames  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 8. Fireplaces and flues  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| H. TYPES OF DEFECT/CONDITION   |                                    |                          |  |                          |                             |                          |                          | 1 satisfactory<br>2 through another room<br>3 inadequate fixed access<br>4 off winder   |
|  | Hall/<br>Landing                   | Kitchen                  | R1                                     | R2                       | R3                          | R4                       | R5                       | Bathroom  |
| 1. Is access to room satisfactory?   | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 2. Is arrangement of room or area satisfactory?  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 3. Is the room structurally stable?  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 4. Is the room free from dry/wet rot?  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 5. Has the room satisfactory provision for natural light?  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 6. Has the room satisfactory provision for artificial light?   | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 7. Have all opening windows suitable window locks?   | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 8. Has room satisfactory provision for ventilation?  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 9. Has room satisfactory provision for heating?  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 10. Is room free from rising damp?   | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 11. Is room free from penetrating damp?  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 12. Is room free from condensation?  | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| 13. Is room free from mould?   | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/>               | <input type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  |
| I. REPAIRS TO WHOLE DWELLING ('00' no repairs; '55', '01' - '10' disrepair; '88' n/a; '99' unobtainable) |                                    |                          |  |                          |                             |                          |                          | 1 yes, central heating<br>2 yes, room heater<br>3 yes socket<br>4 no  |
| 1. Internal walls / partition(s)   |                                    |                          |  |                          |                             |                          |                          | <input type="checkbox"/>  |
| 2. Party wall(s)   |                                    |                          |  |                          |                             |                          |                          | <input type="checkbox"/>  |
| 3. Staircase(s)  |                                    |                          |  |                          |                             |                          |                          | <input type="checkbox"/>  |
| J. ROOMS/FLOORS-SUMMARY  |                                    |                          |  |                          |                             |                          |                          | 0 yes, 0%<br>1 no, <2%<br>2 no, 2% <5%<br>3 no, 5% <10%<br>4 no, 10% <20%<br>5 no, 20% <30%<br>6 no, 30% <40%<br>7 no, over 40% |
| 1. Total number of habitable rooms plus kitchen  | unob. <input type="checkbox"/>     |                          | specify: <input type="checkbox"/>      |                          |                             |                          |                          | <input type="checkbox"/>  |
| 2. Number of habitable floors in the dwelling(excluding the roof)  | unob. <input type="checkbox"/>     |                          | specify: <input type="checkbox"/>      |                          |                             |                          |                          | <input type="checkbox"/>  |
| 3. Number of habitable rooms in roof space   | unob. <input type="checkbox"/>     |                          | specify: <input type="checkbox"/>      |                          |                             |                          |                          | <input type="checkbox"/>  |
| 4. Number of habitable rooms in the basement   | unob. <input type="checkbox"/>     |                          | specify: <input type="checkbox"/>      |                          |                             |                          |                          | <input type="checkbox"/>  |
| 5. Does the dwelling have a non-residential use?   | yes <input type="checkbox"/>       |                          | no <input type="checkbox"/>            |                          |                             |                          |                          | <input type="checkbox"/>  |
| 6. Is the internal circulation barrier free?   | yes, full <input type="checkbox"/> |                          | yes, ambulant <input type="checkbox"/> |                          | no <input type="checkbox"/> |                          | <input type="checkbox"/> |   |

**Repairs**

|     |                                 |                        |     |
|-----|---------------------------------|------------------------|-----|
| K15 | Kitchen storage<br>and Worktops | Kitchen unit carcasses | 30% |
|     |                                 | Doors/drawers          | 30% |
|     |                                 | Ironmongery            | 10% |
|     |                                 | Work surfaces          | 30% |

**Services**

|     |  |                    |   |                    |                            |                    |                            |                    |
|-----|--|--------------------|---|--------------------|----------------------------|--------------------|----------------------------|--------------------|
| K17 | <b>What extra kitchen storage provision is required?</b> |                    | 1 or 2 person dwellings: 1.7m <sup>3</sup> ; 3+ person dwellings: 2.3m <sup>3</sup> . |                    |                            |                    |                            |                    |
|     | <u>500 deep Base Units</u>                               |                    | <u>600 deep Base Units</u>  |                    | <u>600 high Wall Units</u> |                    | <u>900 high Wall Units</u> |                    |
|     | 600 unit   | 0.17m <sup>3</sup> | 600 unit  | 0.25m <sup>3</sup> | 600 unit                   | 0.08m <sup>3</sup> | 600 unit                   | 0.21m <sup>3</sup> |
|     | 1000 unit  | 0.28m <sup>3</sup> | 1000 unit   | 0.41m <sup>3</sup> | 1000 unit                  | 0.18m <sup>3</sup> | 1000 unit                  | 0.27m <sup>3</sup> |
|     | 1200 unit  | 0.34m <sup>3</sup> | 1200 unit   | 0.50m <sup>3</sup> | 1200 unit                  | 0.20m <sup>3</sup> | 1200 unit                  | 0.32m <sup>3</sup> |
|     | 1200 sink unit   | 0.26m <sup>3</sup> | 1200 sink unit  | 0.42m <sup>3</sup> |                            |                    |                            |                    |

| K. AMENITIES   |         |                                   |                      |                    |               |               |                      |
|--|---------|-----------------------------------|----------------------|--------------------|---------------|---------------|----------------------|
| 1. Where is the bathroom located?  | unob. 9 | no bathroom 8                     | shared bathroom 4    | outside 3          | in building 2 | in dwelling 1 |                      |
| 2. Is the shortest dimension of the bathroom compartment...?                                       | unob. 9 | no bathroom 8                     | >=2400mm 3           | >=2100mm 2         | <2100mm 1     |               |                      |
| 3. Where is the main WC located?   | unob. 9 | no WC 8                           | shared WC 5          | outside 4          | in building 3 | in dwelling 2 | in bathroom 1        |
| 4. Is there a separate WC compartment, within the dwelling, suitable for use by a wheelchair user? | unob. 9 | yes, 1500 x 1800mm 3              | no, too small 2      | no sep. WC comp. 1 |               |               |                      |
| 5. Is the main WC located directly off kitchen?  | unob. 9 | no WC 3                           | yes 2                | no 1               |               |               |                      |
| 6. Is wash-hand basin associated with main WC located with?  | unob. 9 | no WC 8                           | no wash-hand basin 3 | elsewhere 2        | WC 1          |               |                      |
| 7. Number of WC's within dwelling?   |         |                                   |                      |                    |               |               |                      |
| What repairs are required to the following exclusive amenities inside the dwelling                 | unob. 9 | no amenity 8                      | renew 100% 4         | medium 60% 3       | minor 25% 2   | small 5% 1    | no repair up to 5% 0 |
| 8. Main WC   | 9       | 8                                 | 4                    | 3                  | 2             | 1             | 0                    |
| 9. Wash-hand basin   | 9       | 8                                 | 4                    | 3                  | 2             | 1             | 0                    |
| 10. Hot and cold to wash-hand basin  | 9       | 8                                 | 4                    | 3                  | 2             | 1             | 0                    |
| 11. Fixed bath/shower in bathroom  | 9       | 8                                 | 4                    | 3                  | 2             | 1             | 0                    |
| 12. Hot and cold to bath/shower  | 9       | 8                                 | 4                    | 3                  | 2             | 1             | 0                    |
| 13. Sink   | 9       | 8                                 | 4                    | 3                  | 2             | 1             | 0                    |
| 14. Hot and cold to sink   | 9       | 8                                 | 4                    | 3                  | 2             | 1             | 0                    |
| 15. Kitchen storage and worktops   | 9       | 8                                 | 4                    | 3                  | 2             | 1             | 0                    |
| 16. Is area in front of all kitchen worktops and fittings...?                                      | unob. 9 | no kitchen worktops or fittings 8 | >=1500mm 3           | >=1200mm 2         | <1200mm 1     |               |                      |
| 17. What extra kitchen storage provision is required?  | unob. 9 | 100% 5                            | 75% 4                | 50% 3              | 25% 2         | 0% 1          |                      |
| 18. Number of power sockets in kitchen   | unob. 9 | n/a 8                             | specify: 8           |                    |               |               |                      |
| 19. Is there a min of 1m <sup>3</sup> food storage in the kitchen?                                 | unob. 9 | n/a 8                             | no 2                 | yes 1              |               |               |                      |
| 20. Is the kitchen working arrangement safe?   | unob. 9 | n/a 8                             | no 2                 | yes 1              |               |               |                      |
| 21. Is the area around the cooker safe?  | unob. 9 | n/a 8                             | no 2                 | yes 1              |               |               |                      |



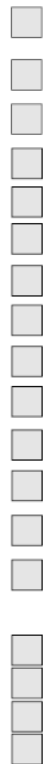
**Barrier Free**

|                 |   |
|-----------------|---|
| L7<br>L8<br>M15 | Power sockets require to be 450 – 1050mm above the floor.<br>Light switches and Heating controls require to be 900 – 1050mm above floor.<br>For L7 & L8 the kitchen, bathroom and two other rooms must comply with barrier free access available. |
|-----------------|---|

**Services**

|    |   |
|----|---|
| L3 | <b>Is the Standard of the Electrical Power System satisfactory?</b><br>Satisfactory = Kitchen 6 sockets, each apartment 4 sockets plus additional 4 sockets in dwelling (Twin = 2 sockets). |
|----|---|

| L. SERVICES AND FITTINGS   |       |            |                               |        |                   |       |                           |    |                            |   |                              |   |                   |   |
|--|-------|------------|-------------------------------|--------|-------------------|-------|---------------------------|----|----------------------------|---|------------------------------|---|-------------------|---|
| 1. What mains services does the dwelling have?                                     | unob. | 9          | no services                   | 8      | gas only          | 3     | electricity and gas       | 2  | electricity only           | 1 |                              |   |                   |   |
| 2. Does the dwelling have a privately generated power supply?                      | unob. | 9          | no power supply               | 8      | yes, other        | 5     | yes, hydro                | 4  | yes, wind                  | 3 | yes, fuel generator          | 2 | no                | 1 |
| 3. Is standard of electrical power system satisfactory?                            | unob. | 9          | no electrical power sys.      | 8      | 5/15 amp system   | 4     | mixed system              | 3  | adequate number of sockets | 2 | inadequate number of sockets | 1 |                   |   |
| 4. Are there any power socket(s) in the conservatory?                              | unob. | 9          | no conservatory               | 8      | yes               | 2     | no                        | 1  |                            |   |                              |   |                   |   |
| 5. Is the electrical power system dangerous?                                       | unob. | 9          | no power system               | 8      | yes               | 2     | no                        | 1  |                            |   |                              |   |                   |   |
| 6. Is the standard of the electrical lighting system satisfactory?                 | unob. | 9          | no electrical lighting system | 8      | no, dangerous     | 3     | no                        | 2  | yes                        | 1 |                              |   |                   |   |
| 7. Are the location of power sockets barrier free?                                 | unob. | 9          | n/a                           | 8      | yes               | 2     | no                        | 1  |                            |   |                              |   |                   |   |
| 8. Are the location of light switches barrier free?                                | unob. | 9          | n/a                           | 8      | yes               | 2     | no                        | 1  |                            |   |                              |   |                   |   |
| 9. Is the underground water main (or communal rising main to the flat) lead free?  | unob. | 9          | no water main                 | 8      | no                | 2     | yes                       | 1  |                            |   |                              |   |                   |   |
| 10. Is the entire water distribution and storage system in the dwelling lead free? | unob. | 9          | no                            | 2      | yes               | 1     |                           |    |                            |   |                              |   |                   |   |
| 11. Is there a private water supply to the dwelling?                               | unob. | 9          | no water main                 | 8      | yes               | 2     | no                        | 1  |                            |   |                              |   |                   |   |
| 12. Are there smoke detectors in the dwelling?                                     | unob. | 9          | no                            | 8      | more than 1 mixed | 5     | more than 1 mains powered | 4  | 1 mains powered            | 3 | more than 1 batt power       | 2 | 1 battery powered | 1 |
| 13. Do all external door(s) have adequate locks?                                   | unob. | 9          | no                            | 2      | yes               | 1     |                           |    |                            |   |                              |   |                   |   |
| 14. Door viewer and restrictor present on main entrance door?                      | unob. | 9          | both viewer & restrictor      | 4      | restrictor only   | 3     | viewer only               | 2  | no                         | 1 |                              |   |                   |   |
| <b>What repairs are required to the following services and fittings?</b>           | unob. | no amenity | renew                         | medium | minor             | small | no repair                 |    |                            |   |                              |   |                   |   |
|  |       |            | 100%                          | 60%    | 60%               | 25%   | 25%                       | 5% | up to 5%                   |   |                              |   |                   |   |
| 15. Cold water system  | 9     | 8          | 4                             | 3      | 2                 | 1     | 0                         |    |                            |   |                              |   |                   |   |
| 16. Hot water system   | 9     | 8          | 4                             | 3      | 2                 | 1     | 0                         |    |                            |   |                              |   |                   |   |
| 17. Electrical power system  | 9     | 8          | 4                             | 3      | 2                 | 1     | 0                         |    |                            |   |                              |   |                   |   |
| 18. Electrical lighting system   | 9     | 8          | 4                             | 3      | 2                 | 1     | 0                         |    |                            |   |                              |   |                   |   |



**Completing Section M**

|            |   |
|------------|---|
| <b>M1</b>  | <p><b>Primary Heating Conventions</b></p> <p>1 Only fixed systems/ appliances. Ignore portable heaters.</p> <p>2 System / appliances that heats most rooms and hot water preferably (M1 code 1, 2, 3, 5 or 6).</p> <p>3 If choice between system and room heaters: system (inc. storage heaters) is primary. Room heaters are secondary.</p> <p>4 If choice between room heaters, one that heats lounge is primary (M1 code 4).</p> <p>5 Back boiler with no radiators = room heater (M1 code 4): back boiler with radiators = boiler system (M1 code 1).</p>   |
|            | <p><b>M1 Code 1 (boiler):</b> M5 or M6 Select type of boiler as appropriate; M7, M8, M9 = Not applicable (code 8).</p> <p><b>M1 Code 2 (community Heating):</b> M5, M6, M7, M8, M9 = Not applicable (code 8)</p> <p><b>M1 Code 3 (storage heating):</b> M5, M6, M7, M8 = Not applicable (code 8); M9 Select type of electric storage heating.</p> <p><b>M1 Code 4 (room heater):</b> M5, M6, M9 = Not applicable (code 8); M7 or M8 Select type of room heater as appropriate.</p> <p><b>M1 Code 5 (warm air system):</b> M5, M6, M7, M8, M9 = Not applicable (code 8).</p> <p><b>M1 Code 6 (heat pump):</b> M5, M6, M7, M8, M9 = Not applicable (code 8). M4 Fuel will be either code 11 peak electric or code 12 off peak electric.</p> |
| <b>M14</b> | <p><b>Code 11</b> ScottishPower's Radio Teleswitch <b>Group Codes</b> for auto charge control on night storage heaters are: 97, 98, 99, 100, 101, 102, 103, 104 &amp; 105. All other Group Codes are 'Manual charge control'. In Scottish Hydro area: Total Heating Total Control (THTC) tariff is Auto Charge Control.</p>   |
| <b>M16</b> | <p><b>Secondary Heating Conventions</b></p> <p>1 Room heaters that heat most rooms + bias towards lounge.</p> <p>2 Upper floor open fires can be ignored as secondary heating.</p>  |

**M. HEATING AND INSULATION**

|   |                 |                |                       |                          |                        |                         |                         |                   |                   |
|---|-----------------|----------------|-----------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------|-------------------|
| 0. NHER age category                                      | pre 1919        | 1919 - 1929    | 1930 - 1949           | 1950 - 1964              | 1965 - 1974            | 1975 - 1982             | 1983 - 1990             | 1991 - 1997       | post 1997         |
| 1. What is the primary source of heating in the dwelling? | heat pump       |                |                       |                          | warm air system        | room heater             | storage heating         | community heating | boiler            |
| 2. Primary wet system heat emitters?                      | unob.           |                |                       |                          | no wet system          | under floor chip. floor | under floor conc. floor | radiators         |                   |
| 3. Extent of central heating system?                      | unob.           |                |                       |                          | no central heating     | partial                 | full                    |                   |                   |
| 4. Primary heating fuel?                                  | anthracite nuts | smokeless fuel | house coal            | oil (28sec/ kero/C1)     | oil (35sec/ diesel/D1) | bottled gas             | bulk LPG                | gas mains         | anthracite grains |
|   | 08              | 07             | 06                    | 05                       | 04                     | 03                      | 02                      | 01                | 09                |
|   | unob. 99        | n/a 88         | comm.heat with CHP 14 | comm.heat with no CHP 13 | off peak elec 12       | peak electric 11        | wood/peat 10            |                   |                   |

**Primary appliance type:**

|  |                 |                           |                            |                              |                              |                           |                     |                   |                   |
|--|-----------------|---------------------------|----------------------------|------------------------------|------------------------------|---------------------------|---------------------|-------------------|-------------------|
| 5. Gas central heating                 | n/a             | back boiler               | condensing combi           | combi                        | pre 79                       | condensing                | standard            |                   |                   |
| 6. Oil central heating                 | n/a             | condensing combi          | combi                      | pre 85                       | condensing                   | standard                  |                     |                   |                   |
| 7. Gas room heaters                    | n/a             | pre 60                    | condensing                 | gas, coal effect fire, open  | gas, coal effect fire, flued | post 60                   |                     |                   |                   |
| 8. Solid fuel room heaters/boilers     | n/a             | auto feed                 | man. feed                  | closed fire with back boiler | open fire with back boiler   | closed fire               | open fire           |                   |                   |
| 9. Electric storage heating            | n/a             | under floor               | old style                  | fan assisted                 | new style                    |                           |                     |                   |                   |
| 10. Principal hot water heating source | kitchen range   | gas instant (multi point) | gas instant (single point) | electric instantaneous       | electrical single immersion  | electrical dual immersion | pri. heating source |                   |                   |
|  | 07              | 06                        | 05                         | 04                           | 03                           | 02                        | 01                  |                   |                   |
|  | unob. 99        | n/a 88                    | comm.heat with CHP 14      | comm.heat with no CHP 13     | off peak elec 12             | peak electric 11          | wood/peat 10        | gas circulator 08 |                   |
| 11. What is the water heating fuel?    | anthracite nuts | smokeless fuel            | house coal                 | oil (28sec/ kero/C1)         | oil (35sec/ diesel/D1)       | bottled gas               | bulk LPG            | gas (mains)       | anthracite grains |
|  | 08              | 07                        | 06                         | 05                           | 04                           | 03                        | 02                  | 01                | 09                |
|  | unob. 99        | n/a 88                    | comm.heat with CHP 14      | comm.heat with no CHP 13     | off peak elec 12             | peak electric 11          | wood/peat 10        |                   |                   |

**What repairs are required to the central heating system?**

|   | unob.                | no amenity               | renew                       | medium                        | minor                         | small                         | no repair              |    |          |  |
|---|----------------------|--------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------|----|----------|--|
|   |                      |                          | 100%                        | 60%                           | 60%                           | 25%                           | 25%                    | 5% | up to 5% |  |
| 12. Central heating source?   | 9                    | 8                        | 4                           | 3                             | 2                             | 1                             | 0                      |    |          |  |
| 13. Central heating distribution?   | 9                    | 8                        | 4                           | 3                             | 2                             | 1                             | 0                      |    |          |  |
| 14. Heating controls for primary heating                                  | TRV only             | programmer & TRV         | programmer, room stat & TRV | programmer & room stat        | room stat only                | programmer only               | no controls            |    |          |  |
|   | 07                   | 06                       | 05                          | 04                            | 03                            | 02                            | 01                     |    |          |  |
|   | unob. 99             | Boiler energy manager 99 | SHtr auto charge control 12 | SHtr manual charge control 11 | SHtr appliance stat & prog 10 | RHtr appliance stat & prog 09 | RHtr appliance stat 08 |    |          |  |
| 15. Are all the primary heating controls accessible for wheelchair users? | unob.                | n/a                      | all                         | some                          | none                          |                               |                        |    |          |  |
|   | 9                    | 8                        | 3                           | 2                             | 1                             |                               |                        |    |          |  |
| 16. What is the secondary heating, if any? (room heaters only)            | open solid fuel fire | pre 1960 gas fire        | post 1960 gas fire          | gas, coal effect fire         | no secondary system           |                               |                        |    |          |  |
|   | 4                    | 3                        | 2                           | 1                             | 0                             |                               |                        |    |          |  |
|   | unob. 9              | other 9                  | electric room heaters 7     | closed solid fuel fire 5      |                               |                               |                        |    |          |  |
| 17. Is the loft space insulated?  | 100mm                | 75mm                     | 50mm                        | 25mm                          | none                          |                               |                        |    |          |  |
|   | 4                    | 3                        | 2                           | 1                             | 0                             |                               |                        |    |          |  |
|   | unob. 9              | n/a 8                    | >200mm 7                    | 200mm 6                       | 150mm 5                       |                               |                        |    |          |  |
| 18. Type of insulation to hot water storage cylinder?                     | unob.                | no hw storage            | no insulation               | jacket                        | sprayed                       |                               |                        |    |          |  |
|   | 9                    | 8                        | 3                           | 2                             | 1                             |                               |                        |    |          |  |
| 19. Is the insulation to hot water storage satisfactory?                  | unob.                | no hw storage            | no insulation               | no                            | yes                           |                               |                        |    |          |  |
|   | 9                    | 8                        | 3                           | 2                             | 1                             |                               |                        |    |          |  |
| 20. Is the insulation to own tanks and pipes in loft satisfactory?        | unob.                | n/a                      | no loft space               | no insulation                 | no                            | yes                           |                        |    |          |  |
|   | 9                    | 8                        | 4                           | 3                             | 2                             | 1                             |                        |    |          |  |
| 21. Heating in conservatory   | unob.                | no conservatory          | portable heater             | fixed heater                  | direct from pri. system       | no heating                    |                        |    |          |  |
|   | 9                    | 8                        | 4                           | 3                             | 2                             | 1                             |                        |    |          |  |
| 22. Is there a door separating the dwelling from the conservatory?        | unob.                | no conservatory          | no                          | yes                           |                               |                               |                        |    |          |  |
|   | 9                    | 8                        | 2                           | 1                             |                               |                               |                        |    |          |  |
| 23. Is the gas/oil heating system safe?                                   | unob.                | n/a                      | no                          | yes                           |                               |                               |                        |    |          |  |
|   | 9                    | 8                        | 2                           | 1                             |                               |                               |                        |    |          |  |

**Essential Facts**

|                       |  |
|-----------------------|--|
| <b>Porch</b>          | Attached to and project from the house.<br>Single storey.<br>Enclosed weather protection to an entrance.<br>Door between porch and house.<br>Contain no room or WC.<br>If unheated, do not included in floor dimensions. If heated include in floor dimensions.  |
| <b>Conservatory</b>   | $\frac{1}{4}$ roof area and $\frac{1}{2}$ external wall area glazed or translucent.<br>Attached to dwelling.<br>Provide enclosed weather protection.<br>Accessible from inside the house.<br>Need not have door into house.<br>If all of the above then must be 8m <sup>2</sup> , otherwise = porch.<br>If separated by door and unheated, do not include in floor dimensions. If heated, or not separated, include in floor dimensions. |
| <b>Habitable room</b> | Floor area 4.65m <sup>2</sup> .<br>Ceiling height 2m over at least half of this.   |
| <b>Basement</b>       | A basement is a storey which has it's lowest floor at least 1m below ground level. If retaining walls then basement if retaining walls are within 3m of edge of floor.   |
| <b>O6</b>             | <b>Is the common circulation area barrier free?</b><br>For req. dimensions see J6. A change in level greater than 20mm renders common circulation are unsuitable.  |

**Repairs**

|            |                      |                         |     |
|------------|----------------------|-------------------------|-----|
| <b>P7</b>  | <b>Lifts</b>         | Lift call panel         | 10% |
|            |                      | Lift control panel      | 10% |
|            |                      | Lift car                | 60% |
|            |                      | Lift doors              | 20% |
| <b>P12</b> | <b>Refuse Chutes</b> | Refuse Chutes & linings | 60% |
|            |                      | Hoppers                 | 10% |
|            |                      | Chambers                | 20% |
|            |                      | Drainage to system      | 10% |
| <b>P13</b> | <b>Bin stores</b>    | Structure of bin store  | 40% |
|            |                      | Doors                   | 30% |
|            |                      | Ironmongery             | 20% |
|            |                      | Drainage to stores      | 10% |

**N. DWELLING MEASUREMENTS**

|                           | area (m <sup>2</sup> ) | measurement type (area) | height (m)           | Area<br>888 = not applicable<br>999 = unobtainable<br>Measurement Type (area)<br>1 = External<br>2 = Internal<br>8 = not applicable<br>9 = unobtainable<br>Height<br>8.8 = not applicable<br>9.9 = unobtainable |
|---------------------------|------------------------|-------------------------|----------------------|---|
| 1. Ground / lowest floor  | <input type="text"/>   | <input type="text"/>    | <input type="text"/> |   |
| 2. First floor            | <input type="text"/>   | <input type="text"/>    | <input type="text"/> |   |
| 3. Second floor           | <input type="text"/>   | <input type="text"/>    | <input type="text"/> |   |
| 4. Third floor            | <input type="text"/>   | <input type="text"/>    | <input type="text"/> |   |
| 5. Fourth floor and above | <input type="text"/>   | <input type="text"/>    | <input type="text"/> |   |

Surveyors working space for calculating floor areas

**O. CHARACTERISTICS OF COMMON ELEMENTS**

|  |                   |           |                 |        |                      |           |                    |  |                          |  |
|--|-------------------|-----------|-----------------|--------|----------------------|-----------|--------------------|--|--------------------------|--|
| 1. Is the dwelling part of a block with common access? | no - ignore O & P |           | 2               |        | yes - complete O & P |           | 1                  |  |                          |  |
| 2. Type of common access in the block                  | other 7           | gallery 6 | balcony 5       | deck 4 | passage 3            | landing 2 | ground only 1      |  |                          |  |
| 3. Number of staircases in the block                   | unob. 9           |           | no staircases 8 |        | specify:             |           |                    |  |                          |  |
| 4. Number of lifts in the block                        | unob. 9           |           | no lifts 8      |        | specify:             |           |                    |  |                          |  |
| 5. Are the lifts suitable for wheelchair users?        | unob. 9           |           | no lifts 8      |        | no 2                 |           | yes 1              |  |                          |  |
| 6. Is the common circulation area barrier free?        | unob. 9           |           | yes, full 3     |        | yes ambulant 2       |           | no 1               |  |                          |  |
| 7. Is there an entry system?                           | unob. 9           |           | no 4            |        | yes, concierge 3     |           | yes, entry phone 2 |  | yes, bell to each flat 1 |  |
| 8. Is front access to common block secure?             | unob. 9           |           | n/a 8           |        | no 2                 |           | yes 1              |  |                          |  |
| 9. Is rear access to common block secure?              | unob. 9           |           | n/a 8           |        | no 2                 |           | yes 1              |  |                          |  |

**P. REPAIRS TO COMMON ELEMENTS**

| What repairs are required to the following common elements? | Repair assessment:<br>00 = no repairs<br>55, 01-10 = disrepair<br>88 = n/a<br>99 = unob | Is the repair urgent?<br>1 = yes<br>2 = no<br>8 = n/a<br>9 = unob | Residual life after repair for whole element:<br>1 = 1 - 15 years    4 = 30+ years<br>2 = 6 - 10 years    8 = n/a<br>3 = 11 - 30 years    9 = unob |                      |
|---|---|---|--|----------------------|
|   |   |   | <input type="text"/>   | <input type="text"/> |
| 1. Stairs, landings and balustrades (O3)                    | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 2. Access balcony / gallery / decks and balustrades         | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 3. Halls and passages                                       | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 4. Wall finishes  | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 5. Ceilings and soffit finishes                             | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 6. Doors, screens, windows and rooflights                   | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 7. Lifts (O4)   | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 8. Decorations  | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 9. Service mains  | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 10. Public lighting to common areas                         | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 11. Communal security systems                               | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 12. Refuse chutes / chambers                                | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |
| 13. Bin stores  | <input type="text"/>  | <input type="text"/>  | <input type="text"/>   | <input type="text"/> |

**Repairs**

|            |                                   |             |     |
|------------|-----------------------------------|-------------|-----|
| <b>R5</b>  | <b>Chimney Stacks</b>             | Cope        | 10% |
|            |                                   | Structure   | 60% |
|            |                                   | Finish      | 15% |
|            |                                   | Pots        | 15% |
| <b>R15</b> | <b>External doors to Dwelling</b> | Door        | 30% |
|            |                                   | Frame       | 50% |
|            |                                   | Ironmongery | 20% |
| <b>R16</b> | <b>Windows to Dwelling</b>        | Frame       | 50% |
|            |                                   | Glazing     | 30% |
|            |                                   | Ironmongery | 20% |

**Q. EXTERNAL CONSTRUCTION / MATERIALS**

|  |                      |                     |                     |                        |                      |                      |                |                |             |
|--|----------------------|---------------------|---------------------|------------------------|----------------------|----------------------|----------------|----------------|-------------|
| 1. Is more than two thirds of the attached flank wall(s) exposed?      | unob. 9              | detached 4          | yes, both flanks 3  | yes, one flank 2       | no 1                 |                      |                |                |             |
| 2. External wall construction  | unob. 9              | other 3             | cavity 2            | solid 1                |                      |                      |                |                |             |
| 3. External wall construction material                                 | unob. 9              | other 8             | metal 7             | concrete 6             | timber 5             | blockwork 4          | brick 3        | whin/granite 2 | sandstone 1 |
| 4. Principal external wall finish                                      | other 8              | metal 7             | concrete panel 6    | concrete block 5       | timber 4             | brick 3              | stone 2        | render 1       |             |
| 5. External wall thickness   | unob. 9              | >750mm 3            | 450 - 750mm 2       | <450mm 1               |                      |                      |                |                |             |
| 6. Has additional insulation been added to external walls since built? | 100mm int. or ext. 7 | 75mm int. or ext. 6 | 50mm int. or ext. 5 | 25mm int. or ext. 4    | filled 75mm cavity 3 | filled 50mm cavity 2 | none/partial 1 |                |             |
| 7. Principal roof type   | unob. 9              | half mansard 5      | mansard 4           | mono 3                 | flat 2               | pitched 1            |                |                |             |
| 8. Extent of principal roof type                                       | unob. 9              | specify: (tenths)   |                     |                        |                      |                      |                |                |             |
| 9. Principal roof cover  | unob. 9              | other 7             | metal 6             | asbestos 5             | asphalt 4            | felt 3               | tiles 2        | slates 1       |             |
| 10. Cover to secondary roof  | unob. 9              | no secondary roof 8 | other 7             | metal 6                | asbestos 5           | asphalt 4            | felt 3         | tiles 2        | slates 1    |
| 11. Underground drainage   | unob. 9              | no drainage 4       | other 3             | septic tank cesspool 2 | public connection 1  |                      |                |                |             |

**Dwelling only**

|  |            |                             |                         |               |                  |                     |
|--|------------|-----------------------------|-------------------------|---------------|------------------|---------------------|
| 12. Principal window type to dwelling                          | unob. 9    | other/mixed 5               | pivot 4                 | tilt & turn 3 | casement 2       | sash & case 1       |
| 13. Window frames  | u.p.v.c. 4 | metal (no thermal break) 3  | metal (thermal break) 2 | wood 1        |                  |                     |
| 14. Glazing (if some single & some double select largest area) | unob. 9    | double with low 'e' glass 4 | triple 3                | double 2      | single 1         |                     |
| 15. Type of double glazing                                     | unob. 9    | no double glazing 5         | part only 4             | mixed 3       | yes, secondary 2 | yes, sealed units 1 |

**R. EXTERNAL REPAIRS**

|                      |                     |  |
|----------------------|---------------------|--|
| front only = 1       | back only = 4       | 5      4      6<br>DWELLING / BLOCK<br>3      1      2 |
| front with right = 2 | back with left = 5  |  |
| front with left = 3  | back with right = 6 |  |
| unobtainable = 9     | unobtainable = 9    |  |

| What repairs are required to the following elements of the dwelling or common block | VIEWPOINT 1              | VIEWPOINT 2              | Is the repair urgent?    | Residual Life            |
|---|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. Principal roof structure   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Principal roof covering  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Secondary roof structure   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Secondary roof covering  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Chimney stacks   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Flashings  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Roof gutters and downpipes   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Soil waste and vent pipes  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Wall structure (Q2/Q3)   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Wall finish   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Foundations   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. DPC   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Underground drainage  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>What repairs are required to the following elements of the dwelling only?</b>    |                          |                          |                          |                          |
| 14. Private balcony to dwelling   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. External doors to dwelling  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Windows to dwelling   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. External paint to dwelling  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. External stairs to own door (4-in-block & converted houses only)                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Repair score**

00 = no repair  
 55, 01 - 10 = disrepair  
 88 = n/a  
 99 = unob.

**Is the repair urgent?**

1 = yes  
 2 = no  
 8 = n/a  
 9 = unob.

**Residual life for whole element after repair**

1 = 1-5 years  
 2 = 6-10 years  
 3 = 11-30 years  
 4 = 30+ years  
 8 = n/a  
 9 = unob.

**Repairs**

|           |                        |               |     |
|-----------|------------------------|---------------|-----|
| <b>S5</b> | <b>Attached Garage</b> | Roof          | 45% |
|           |                        | Walls         | 45% |
|           |                        | Doors/Windows | 10% |

**S. EXTERNAL AND OTHER FEATURES**

What repairs are required to the following external elements?

|                              |   |            |       |     |        |     |       |                          |                          |
|------------------------------|---|------------|-------|-----|--------|-----|-------|--------------------------|--------------------------|
| 1. Fences, walls and gates   | ('00' no repairs, '55', '01' - '10' disrepair; '88' n/a; '99' unobtainable) |            |       |     |        |     |       | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Paths, paved areas, ramps | ('00' no repairs, '55', '01' - '10' disrepair; '88' n/a; '99' unobtainable) |            |       |     |        |     |       | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Attached garage           | ('00' no repairs, '55', '01' - '10' disrepair; '88' n/a; '99' unobtainable) |            |       |     |        |     |       | <input type="checkbox"/> | <input type="checkbox"/> |
|                              | unob.   | no amenity | renew |     | medium |     | minor | small                    | no repair                |
|                              |   |            | 100%  | 60% | 60%    | 25% | 25%   | 5%                       | up to 5%                 |
| 3. Steps and plats           | 9   | 8          | 4     | 3   | 2      | 1   | 0     |                          | <input type="checkbox"/> |
| 4. Surface drainage          | 9   | 8          | 4     | 3   | 2      | 1   | 0     |                          | <input type="checkbox"/> |

**T. TOLERABLE STANDARD - STATUTORY ACTION**

For a Full Survey (B1) answer all questions in this section, for an External Survey (B1) answer T1, T8, T10 & T13.

|   | unob.   | no (BTS)            | yes                 |                          |                          |                          |
|---|---------|---------------------|---------------------|--------------------------|--------------------------|--------------------------|
| 1. Is the dwelling structurally stable?   | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 2. Is the dwelling substantially free from rising or penetrating damp?  | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 3. Has the dwelling satisfactory provision for natural and artificial light, for ventilation and for heating?   | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 4. Has the dwelling an adequate piped supply of wholesome water within the house?   | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 5. Has the dwelling a sink provided with satisfactory supply of both hot and cold water within the house?   | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 6. Has the dwelling a water closet available for the exclusive use of the occupants of the house suitably located within the house?                   | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 7. Has the dwelling a fixed bath/shower and a wash-hand basin all with a satisfactory supply of hot and cold water suitably located within the house? | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 8. Has the dwelling an effective system for the drainage and disposal of foul and surface water?  | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 9. Has the dwelling satisfactory facilities for the cooking of food within the dwelling?  | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 10. Is there satisfactory access to all external doors and outbuildings?  | 9       | 2                   | 1                   | <input type="checkbox"/> |                          |                          |
| 11. Would you expect action to be taken on this dwelling under the Housing Acts?  | unob. 9 | close or demolish 4 | improvement order 3 | repair notice 2          | no action 1              | <input type="checkbox"/> |
| 12. Would you expect the common parts to be subject to a repairs notice?  | unob. 9 | no common parts 3   | action 2            | no action 1              | <input type="checkbox"/> |                          |

13. Write in reason for each BTS failure, at 1 - 10 (above)

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Surveyors notes box to assist data validation team (including reason for refusal)

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### 10.13 Physical Survey Validation (Manipula)

| ErrNo | Description   |
|-------|---|
| 1     | M4R10 : Unexpected value in M04; no services indicated at L01; but mains gas/electric indicated   |
| 3     | M5R3 : Unexpected value in M05; Gas boiler indicated at M01/M04; 1 to 6 expected  |
| 4     | M5R1 : Unexpected value in M05; Non-gas boiler indicated at M01/M04; 8 expected in M05  |
| 5     | M5R2 : Unexpected value in M05; Non-boiler indicated at M01/M04; 8 expected   |
| 6     | M6R3 : Unexpected value in M06; Oil-boiler indicated at M01/M04; 1 to 5 expected  |
| 7     | M6R1 : Unexpected value in M06; Non-oil boiler indicated at M01/M04; 8 expected   |
| 8     | M6R2 : Unexpected value in M06; Non-boiler system indicated at M01; 8 expected  |
| 9     | M7R1 : Unexpected value in M07; Gas room indicated at M01/M04; 8 expected   |
| 10    | M8R1 : Unexpected value in M08; Non-solid fuel indicated at M01/M04; 8 expected   |
| 11    | M9R1 : Unexpected value in M09; Storage heater indicated in M01; 1 to 4 expected  |
| 12    | M10R1 : Unexpected value in M10; Storage heater indicated in M01; 2 to 10 expected  |
| 13    | M11R17 : Unexpected value in M11; electrical dual emersion heater indicated at M10; 12 expected   |
| 14    | M11R18 : Unexpected value in M11; electrical emersion heater indicated at M10; 11,12 expected   |
| 15    | M11R19 : Unexpected value in M11; electrical instant hot water indicated at M10; 11 expected  |
| 16    | M11R20 : Unexpected value in M11; Gas multipoint indicated at M10; 1 to 3 expected  |
| 17    | M1121 : Unexpected value in M11; Not applicable at M10; 88 expected; REFER TO SUPERVISOR  |
| 18    | M1122 : Unexpected value in M11; Unobtainable at M10; 99 expected   |
| 19    | M1123 : Unexpected value in M10; Not applicable in M11; 88 expected; REFER TO SUPERVISOR  |
| 20    | M1124 : Unexpected value in M10; Unobtainable at M11; 99 expected; REFER TO SUPERVISOR  |
| 21    | M17R4 : Unexpected value in M17; D05 indicates flat with a non-heat loss roof; 8 expected   |
| 22    | M18R1 : Unexpected value in M18; combi indicated as primary appliance but hot water water storage indicated at M18; REFER TO SUPERVISOR |
| 23    | M19R5 : Unexpected value in M18; M19 indicates no insulation to hot water storage; 3 expected   |
| 24    | M19R6 : Unexpected value in M18; No hot water storage indicated; 8 expected   |
| 25    | M19R7 : Unexpected value in M18; M19 indicates unobtainable; 9 expected   |
| 26    | M20R4 : D05 indicates this is not applicable. M20 should be "no loft space"   |
| 27    | M17R2 : Unexpected value - Q07/D01 indicates house without flat roof; 0, 1 to 7, 9 expected   |
| 29    | J3R6 : D01/Q07/Q08 indicate house with flat roof only; 88 in J03 expected   |
| 30    | J3R8 : D01/Q07/Q08 indicate house with flat roof less than 10/10; 00, 1-10, 99 expected in J03  |
| 31    | L3R2 :L01 and L02 indicate no power system in dwelling; 8 expected at L03   |
| 32    | L5R4 : L01 and l02 indicate no power system in dwelling; 8 expected in L05  |
| 100   | A5R1 : Error in A5 - A4 indicates not a contact and refusal; 88 expected  |
| 101   | A5R2 : Error in A5 - A4 indicates a contact and refusal; 01-14 expected   |
| 102   | A7aR1 : Error in A7a - A4 indicates invalid dwelling; 8 expected  |
| 103   | A7bR1 : Error in A7b - A4 indicates invalid dwelling; 8 expected  |
| 104   | A7cR1 : Error in A7c - A4 indicates invalid dwelling; 8 expected  |
| 105   | A7dR1 : Error in A7d - A4 indicates invalid dwelling; 8 expected  |
| 111   | ***** JO2 = ' + STR(groomsum.J02) + ', J03 = ' + STR(groomsum.J03) + ', N03AREA = ' + STR(qdwlmeas.N03AREA))                            |
| 150   | D2R1 : Unexpected value in D2 - D1 indicates not a house; 1-4 expected  |
| 151   | D2R2 : Unexpected value in D2 - D1 indicates a house; 8 expected  |
| 152   | D3R1 : Unexpected value in D3 - D2 indicates not a flat; 8 expected   |
| 153   | D3R2 : Unexpected value in D3 - D2 indicates a flat; 1 or 2 expected  |
| 154   | D4R1 : Unexpected value in D4 - D2 indicates not a flat; 8 expected   |
| 155   | D4R2 : Unexpected value in D4 - D2 indicates a flat; 1-4 expected   |
| 156   | D5R1 : Unexpected value in D5 - D2 indicates not a flat; 8 expected   |
| 157   | D5R2 : Unexpected value in D5 - D2 indicates a flat; 1-4 expected   |
| 158   | D6R1 : Unexpected value in D6 - D2 indicates not a flat; 8 expected   |
| 159   | D6R2 : Unexpected value in D6 - D2 indicates a flat; 1-7 expected   |
| 160   | D7R1 : Unexpected value in D7 - D2 indicates a house; 0,1 or 7 expected   |

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| ErrNo | Description  |
|-------|--|
| 162   | D9R1 : Unexpected value in D9 - D8 indicates unobtainable access; 9 expected                                 |
| 163   | D9R2 : D08 indicates this is not applicable. Response at d09 is not consistent Please check.                 |
| 164   | D9R3 : Unexpected value in D9 - D8 indicates some access; 1-3 expected                                       |
| 165   | D10R1 : Unexpected value in D10 - D8 indicates unobtainable access; 9 expected                               |
| 166   | D15R1 : Unexpected value in D15 - D5 indicates flat has non heat loss roof; 8 expected                       |
| 175   | E1R1 : Unexpected value in E1 - D1 indicates house, 2 expected   |
| 176   | E1R2 : Unexpected value in E1 - D2 indicates flat with common access; 1 expected                             |
| 177   | E6R0 : Unexpected value in E6 - not a valid answer; 001-299 or 999 expected                                  |
| 179   | E7R0 : Unexpected value in E7 - not a valid answer; 002-299 or 999 expected                                  |
| 181   | E8R0 : Unexpected value in E8 - not a valid answer; 02-25 or 99 expected                                     |
| 182   | E8R1 : Unexpected value in E8 - Common block should have two or more storeys; 02-25 or 99 expected           |
| 190   | F2CR0 : Unexpected value in F2 Kitchen - not a valid answer; 1-4 expected                                    |
| 191   | F2DR0 : Unexpected value in F2 R1 - not a valid answer; 2-4 expected   |
| 192   | F2ER0 : Unexpected value in F2 R2 - not a valid answer; 2-4 expected   |
| 193   | F2FR0 : Unexpected value in F2 R3 - not a valid answer; 2-4 expected   |
| 194   | F2GR0 : Unexpected value in F2 R4 - not a valid answer; 2-4 expected   |
| 195   | F2HR0 : Unexpected value in F2 R5 - not a valid answer; 2-4 expected   |
| 196   | F2IR0 : Unexpected value in F2 Bathroom - not a valid answer; 5-7 expected                                   |
| 200   | G1BR0 : Unexpected value in G1 Hall - F1 Hall indicates room surveyed; 00,55,01-10,88 or 99 expected         |
| 201   | G1CR0 : Unexpected value in G1 Kitchen - F1 Kitchen indicates room surveyed; 00,55,01-10,88 or 99 expected   |
| 202   | G1DR0 : Unexpected value in G1 R1 - F1 R1 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 203   | G1ER0 : Unexpected value in G1 R2 - F1 R2 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 204   | G1FR0 : Unexpected value in G1 R3 - F1 R3 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 205   | G1GR0 : Unexpected value in G1 R4 - F1 R4 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 206   | G1HR0 : Unexpected value in G1 R5 - F1 R5 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 207   | G1IR0 : Unexpected value in G1 Bathroom - F1 Bathroom indicates room surveyed; 00,55,01-10,88 or 99 expected |
| 208   | G2BR0 : Unexpected value in G2 Hall - F1 Hall indicates room surveyed; 00,55,01-10,88 or 99 expected         |
| 209   | G2CR0 : Unexpected value in G2 Kitchen - F1 Kitchen indicates room surveyed; 00,55,01-10,88 or 99 expected   |
| 210   | G2DR0 : Unexpected value in G2 R1 - F1 R1 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 211   | G2ER0 : Unexpected value in G2 R2 - F1 R2 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 212   | G2FR0 : Unexpected value in G2 R3 - F1 R3 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 213   | G2GR0 : Unexpected value in G2 R4 - F1 R4 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 214   | G2HR0 : Unexpected value in G2 R5 - F1 R5 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 215   | G2IR0 : Unexpected value in G2 Bathroom - F1 Bathroom indicates room surveyed; 00,55,01-10,88 or 99 expected |
| 216   | G3BR0 : Unexpected value in G3 Hall - F1 Hall indicates room surveyed; 00,55,01-10,88 or 99 expected         |
| 217   | G3CR0 : Unexpected value in G3 Kitchen - F1 Kitchen indicates room surveyed; 00,55,01-10,88 or 99 expected   |
| 218   | G3DR0 : Unexpected value in G3 R1 - F1 R1 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 219   | G3ER0 : Unexpected value in G3 R2 - F1 R2 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 220   | G3FR0 : Unexpected value in G3 R3 - F1 R3 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 221   | G3GR0 : Unexpected value in G3 R4 - F1 R4 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 222   | G3HR0 : Unexpected value in G3 R5 - F1 R5 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 223   | G3IR0 : Unexpected value in G3 Bathroom - F1 Bathroom indicates room surveyed; 00,55,01-10,88 or 99 expected |
| 224   | G4BR0 : Unexpected value in G4 Hall - F1 Hall indicates room surveyed; 00,55,01-10,88 or 99 expected         |
| 225   | G4CR0 : Unexpected value in G4 Kitchen - F1 Kitchen indicates room surveyed; 00,55,01-10,88 or 99 expected   |
| 226   | G4DR0 : Unexpected value in G4 R1 - F1 R1 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 227   | G4ER0 : Unexpected value in G4 R2 - F1 R2 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 228   | G4FR0 : Unexpected value in G4 R3 - F1 R3 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 229   | G4GR0 : Unexpected value in G4 R4 - F1 R4 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 230   | G4HR0 : Unexpected value in G4 R5 - F1 R5 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 231   | G4IR0 : Unexpected value in G4 Bathroom - F1 Bathroom indicates room surveyed; 00,55,01-10,88 or 99 expected |
| 232   | G5BR0 : Unexpected value in G5 Hall - F1 Hall indicates room surveyed; 00,55,01-10,88 or 99 expected         |

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| ErrNo | Description  |
|-------|--|
| 233   | G5CR0 : Unexpected value in G5 Kitchen - F1 Kitchen indicates room surveyed; 00,55,01-10,88 or 99 expected   |
| 234   | G5DR0 : Unexpected value in G5 R1 - F1 R1 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 235   | G5ER0 : Unexpected value in G5 R2 - F1 R2 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 236   | G5FR0 : Unexpected value in G5 R3 - F1 R3 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 237   | G5GR0 : Unexpected value in G5 R4 - F1 R4 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 238   | G5HR0 : Unexpected value in G5 R5 - F1 R5 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 239   | G5IR0 : Unexpected value in G5 Bathroom - F1 Bathroom indicates room surveyed; 00,55,01-10,88 or 99 expected |
| 240   | G6BR0 : Unexpected value in G6 Hall - F1 Hall indicates room surveyed; 00,55,01-10,88 or 99 expected         |
| 241   | G6CR0 : Unexpected value in G6 Kitchen - F1 Kitchen indicates room surveyed; 00,55,01-10,88 or 99 expected   |
| 242   | G6DR0 : Unexpected value in G6 R1 - F1 R1 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 243   | G6ER0 : Unexpected value in G6 R2 - F1 R2 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 244   | G6FR0 : Unexpected value in G6 R3 - F1 R3 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 245   | G6GR0 : Unexpected value in G6 R4 - F1 R4 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 246   | G6HR0 : Unexpected value in G6 R5 - F1 R5 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 247   | G6IR0 : Unexpected value in G6 Bathroom - F1 Bathroom indicates room surveyed; 00,55,01-10,88 or 99 expected |
| 248   | G7BR0 : Unexpected value in G7 Hall - F1 Hall indicates room surveyed; 00,55,01-10,88 or 99 expected         |
| 249   | G7CR0 : Unexpected value in G7 Kitchen - F1 Kitchen indicates room surveyed; 00,55,01-10,88 or 99 expected   |
| 250   | G7DR0 : Unexpected value in G7 R1 - F1 R1 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 251   | G7ER0 : Unexpected value in G7 R2 - F1 R2 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 252   | G7FR0 : Unexpected value in G7 R3 - F1 R3 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 253   | G7GR0 : Unexpected value in G7 R4 - F1 R4 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 254   | G7HR0 : Unexpected value in G7 R5 - F1 R5 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 255   | G7IR0 : Unexpected value in G7 Bathroom - F1 Bathroom indicates room surveyed; 00,55,01-10,88 or 99 expected |
| 256   | G8BR0 : Unexpected value in G8 Hall - F1 Hall indicates room surveyed; 00,55,01-10,88 or 99 expected         |
| 257   | G8CR0 : Unexpected value in G8 Kitchen - F1 Kitchen indicates room surveyed; 00,55,01-10,88 or 99 expected   |
| 258   | G8DR0 : Unexpected value in G8 R1 - F1 R1 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 259   | G8ER0 : Unexpected value in G8 R2 - F1 R2 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 260   | G8FR0 : Unexpected value in G8 R3 - F1 R3 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 261   | G8GR0 : Unexpected value in G8 R4 - F1 R4 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 262   | G8HR0 : Unexpected value in G8 R5 - F1 R5 indicates room surveyed; 00,55,01-10,88 or 99 expected             |
| 263   | G8IR0 : Unexpected value in G8 Bathroom - F1 Bathroom indicates room surveyed; 00,55,01-10,88 or 99 expected |
| 300   | I1R0 : Unexpected value in I1 - not a valid answer; 00,55,01-10,88 or 99 expected                            |
| 301   | I2R0 : Unexpected value in I2 - not a valid answer; 00,55,01-10,88 or 99 expected                            |
| 302   | I2R1 : Unexpected value in I2 - D1 indicates detached house; 88 expected                                     |
| 303   | I3R0 : Unexpected value in I3 - not a valid answer; 00,55,01-10,88 or 99 expected                            |
| 310   | J1R0 : Unexpected value in J1 - not a valid answer; 00-90 or 99 expected                                     |
| 312   | J1R2 : Unexpected value in J1 - F1 R5 indicates R5 does not exist; 01-05 expected                            |
| 313   | J1R3 : Unexpected value in J1 - F1 R4 indicates R4 does not exist; 01-04 expected                            |
| 314   | J1R4 : Unexpected value in J1 - F1 R3 indicates R3 does not exist; 01-03 expected                            |
| 315   | J1R5 : Unexpected value in J1 - F1 R2 indicates R2 does not exist; 01 or 02 expected                         |
| 316   | J1R6 : Unexpected value in J1 - F1 R1 indicates R1 does not exist; 01 expected                               |
| 317   | J1R7 : Unexpected value in J1 - F2 R5, F2 R4, F2 R3, F2 R2, F2 R1 & F2 Kitchen are unobtainable; 99 expected |
| 318   | J3R0 : Unexpected value in J3 - not a valid answer; 01-90 or 99 expected                                     |
| 319   | J3R1 : WARNING - Unusual value in J3 - check value   |
| 320   | J3R2 : Error in J3 - rooms in basement more than rooms in dwelling   |
| 325   | K1R1 : Unexpected value in K1 - F1/Bathroom indicates no bathroom in dwelling; 2-4 or 8 expected             |
| 326   | K1R2 : Unexpected value in K1 - F2/Bathroom indicates some form of bathroom in dwelling; 1 expected          |
| 327   | K1R3 : Unexpected value in K1 - F1/F2 indicate some form of bathroom in dwelling; 1 expected                 |
| 328   | K2R1 : Unexpected value in K2 - K1 indicates no bathroom; 8 expected   |
| 329   | K2R2 : Unexpected value in K2 - K1 indicates bathroom/unob; 1-3 or 9 expected                                |

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| ErrNo | Description   |
|-------|---|
| 330   | K2R3 : Unexpected value in K2 - K1 indicates unobtainable bathroom; 9 expected                        |
| 331   | K2R4 : Unexpected value in K2 - K1 indicates bathroom/no bathroom; 1-3 or 8 expected                  |
| 332   | K3R1 : Unexpected value in K3 - K1 indicates bathroom is in dwelling; 1 or 2 expected                 |
| 333   | K4R1 : Unexpected value in K4 - K3 indicates no WC; 1 expected  |
| 334   | K4R2 : Unexpected value in K4 - K3 indicates WC not within dwelling; 1 expected                       |
| 335   | K5R1 : Unexpected value in K5 - K3 indicates WC within dwelling or building; 1 or 2 expected          |
| 336   | K5R2 : Unexpected value in K5 - K3 indicates location of WC unobtainable; 9 expected                  |
| 337   | K5R3 : Unexpected value in K5 - K3 indicates no WC; 8 expected  |
| 338   | K6R1 : Unexpected value in K6 - K3 indicates no WC; 8 expected  |
| 339   | K6R2 : Unexpected value in K6 - K3 indicates location of WC unobtainable; 9 expected                  |
| 340   | K7R1 : Unexpected value in K7 - K3 indicates WC in dwelling; 01-99 expected                           |
| 341   | K8R1 : Unexpected value in K8 - K3 indicates no exclusive WC in dwelling; 8 expected                  |
| 342   | K8R2 : Unexpected value in K8 - K3 indicates unobtainable WC; 9 expected                              |
| 343   | K9R1 : Unexpected value in K9 - K6 indicates no wash hand basin; 8 expected                           |
| 344   | K9R2 : Unexpected value in K9 - K6 indicates wash hand basin unobtainable; 9 expected                 |
| 345   | K11R1 : Unexpected value in K11 - K1 indicates bathroom is in the dwelling; 0,1-4 or 9 expected       |
| 346   | K11R2 : Unexpected value in K11 - K1 indicates bathroom not inside dwelling; 8 expected               |
| 347   | K11R3 : Unexpected value in K11 - K1 indicates bathroom location is unobtainable; 9 expected          |
| 348   | K12R1 : Unexpected value in K12 - K1 indicates bathroom is in the dwelling; 0,1-4 or 9 expected       |
| 349   | K12R2 : Unexpected value in K12 - K1 indicates bathroom not inside dwelling; 8 expected               |
| 350   | K12R3 : Unexpected value in K12 - K1 indicates bathroom location is unobtainable; 9 expected          |
| 351   | K13R1 : Unexpected value in K13 - F1/Kitchen indicates no kitchen in dwelling; 8 expected             |
| 352   | K14R1 : Unexpected value in K14 - F1/Kitchen indicates no kitchen in dwelling; 8 expected             |
| 353   | K14R2 : Unexpected value in K14 - K13 indicates no sink; 8 expected                                   |
| 355   | K16R1 : Unexpected value in K16 - K15 indicates no kitchen storage/worktops; 8 expected               |
| 356   | K16R2 : Unexpected value in K16 - K15 indicates unob kitchen storage/worktops; 9 expected             |
| 357   | K16R3 : Unexpected value in K16 - K15 indicates kitchen storage/worktops; 1-3 expected                |
| 358   | K17R1 : Unexpected value in K17 - K15 indicates no kitchen storage provision; 5 expected              |
| 359   | K17R2 : Unexpected value in K17 - K15 indicates kitchen storage and worktops unobtainable; 9 expected |
| 360   | K07R3 : Unexpected value in K7 - J1 has to greater than K7  |
| 360   | K07R3 : Unexpected value in K7 - J1 has to greater than K7  |
| 375   | L1R1 : Unexpected value in L1 - H9 Hall indicates a socket; 1 or 2 expected                           |
| 376   | L1R2 : Unexpected value in L1 - H9 Kitchen indicates a socket; 1 or 2 expected                        |
| 377   | L1R3 : Unexpected value in L1 - H9 R1 indicates a socket; 1 or 2 expected                             |
| 378   | L1R4 : Unexpected value in L1 - H9 R2 indicates a socket; 1 or 2 expected                             |
| 379   | L1R5 : Unexpected value in L1 - H9 R3 indicates a socket; 1 or 2 expected                             |
| 380   | L1R6 : Unexpected value in L1 - H9 R4 indicates a socket; 1 or 2 expected                             |
| 381   | L1R7 : Unexpected value in L1 - H9 R5 indicates a socket; 1 or 2 expected                             |
| 382   | L1R8 : Unexpected value in L1 - H9 Bathroom indicates a socket; 1 or 2 expected                       |
| 383   | L3R1 : Unexpected value in L3 - L1 and L2 indicate no electrical power system in dwelling; 8 expected |
| 384   | L4R1 : Unexpected value in L4 - conservatory indicated at D14; 1,2 or 9 expected                      |
| 385   | L4R2 : Unexpected value in L4 - No conservatory indicated at D14; 8 expected                          |
| 386   | L4R3 : Unexpected value in L4 - D14 is unobtainable; 9 expected                                       |
| 387   | L5R1a : Unexpected value in L5 - Electricity present at L1 / L2; 1,2 or 9 expected                    |
| 387   | L5R1b : Unexpected value in L5 - Electricity present at L1 / L2; 1,2 or 9 expected                    |
| 388   | L5R2 : Unexpected value in L5 - No electricity present at L1 / L2; 8 expected                         |
| 389   | L5R3 : Unexpected value in L5 - L3 standard of electrical power system is unobtainable; 9 expected    |
| 390   | L6R1 : Unexpected value in L6 - L1 and L2 indicates no electrical system present; 8 expected          |
| 391   | L7R1 : Unexpected value in L7 - L1 indicates electricity present in dwelling; 1,2 or 9 expected       |
| 392   | L7R2 : Unexpected value in L7 - L1 indicates no electricity in dwelling; 8 expected                   |
| 393   | L7R3 : Unexpected value in L7 - L1 is unobtainable; 9 expected  |
| 394   | L8R1 : Unexpected value in L8 - L1 indicates electricity present in dwelling; 1,2 or 9 expected       |
| 395   | L8R2 : Unexpected value in L8 - L1 indicates no electricity in dwelling; 8 expected                   |

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| ErrNo | Description   |
|-------|---|
| 396   | L8R3 : Unexpected value in L8 - L1 is unobtainable; 9 expected  |
| 397   | L15R1 : Unexpected value in L15 - L10 indicates no water system within dwelling; 8 expected   |
| 398   | L15R2 : Unexpected value in L15 - L10 indicates water system within dwelling unobtainable; 9 expected   |
| 399   | L16R1 : Unexpected value in L16 - L10 indicates no water system within dwelling; 8 expected   |
| 425   | M2R1 : Unexpected value in M2 - Wet CH system indicated at M1; 1 to 3 expected  |
| 426   | M2R2 : Unexpected value in M2 - Dry CH system indicated at M1; 8 expected   |
| 427   | M3R1 : Unexpected value in M3 - room heaters indicated at M1; 8 expected  |
| 428   | M3R2 : Unexpected value in M3 - CH system indicated at M1; 1,2 or 9 expected  |
| 430   | M4R3 : Unexpected value in M4 - Sstorage heaters indicated at M1; 12 expected   |
| 431   | M4R4 : Unexpected value in M04; Room heating indicated in M01; 1..3,6..11 expected  |
| 432   | M4R5 : Unexpected value in M04; Warm air system indicated in M01; 1 to 5,6,11,12 expected   |
| 436   | M6R3 : Unexpected value in M6 - M1/M4 indicates non oil boiler system; 8 expected   |
| 437   | M7R2 : Unexpected value in M07; Non-room heater system indicated at M01; 8 expected   |
| 438   | M7R3 : Unexpected value in M07; Gas room heater indicated at M01/M04; 1 to 5 expected   |
| 439   | M8R2 : Unexpected value in M08; Non-room heater indicated in M01; 3,4,5,6,8 expected  |
| 440   | M8R3 : Unexpected value in M08; Solid fuel room heater indicated at M01/M04; 1 to 4 expected  |
| 442   | M9R2 : Unexpected value in M09; No storage heater indicated in M01; 8 expected  |
| 443   | + iM11R' + str(i) + spacer +': Unexpected value in M11 - M4 Primary heating Fuel must match the M11 water heating fuel where M10 principal hot water heating source is the primary heating source |
| 458   | M11R15: Unexpected value in M11 - M4 Primary heating Fuel is not applicable, M10 principal hot water heating source is the primary heating source; 88 expected                                    |
| 459   | M11R16: Unexpected value in M11 - M4 Primary heating Fuel is unobtainable, M10 principal hot water heating source is the primary heating source; 99 expected                                      |
| 460   | M12R2 : Unexpected value in M12 - M3 indicates no central heating; 8 expected   |
| 461   | M12R3 : Unexpected value in M12 - M3 indicates some central heating; 0-4 or 9 expected  |
| 462   | M12R4 : Unexpected value in M12 - M3 indicates unobtainable extent of CH; 9 expected  |
| 463   | M12R5 : M03 indicates central heating; m12 should not be "no amenity". Please check   |
| 464   | M13R2 : Unexpected value in M13 - M3 indicates no central heating; 8 expected   |
| 465   | M13R3 : Unexpected value in M13 - M3 indicates some central heating; 0-4 or 9 expected  |
| 466   | M13R4 : Unexpected value in M13 - M3 indicates unobtainable extent of CH; 9 expected  |
| 467   | M13R5 : Unexpected value in M13 - M3 indicates central heating; 0-4 expected  |
| 468   | M15R2 : Unexpected value in M15 - M14 indicates no controls present; 8 expected   |
| 469   | M15R3 : Unexpected value in M15 - M14 indicates controls unobtainable; 8 expected   |
| 470   | M16R1 : Unexpected value in M16 - M1 indicates storage heating; 1-7 or 9 expected   |
| 475   | M19R2 : Unexpected value in M19 - M18 indicates no insulation to hot water storage; 3 expected  |
| 476   | M19R3 : Unexpected value in M19 - M18 indicates no hot water storage; 8 expected  |
| 477   | M19R4 : Unexpected value in M19 - M18 indicates unobtainable; 9 expected  |
| 478   | M20R2 : Unexpected value in M20 - M17 indicates not applicable for loft space; 4 expected   |
| 479   | M20R3 : Unexpected value in M20 - M17 indicates loft space unobtainable; 9 expected   |
| 480   | M21R2 : Unexpected value in M21 - D14 indicates conservatory present; 1-4 or 9 expected   |
| 481   | M21R3 : Unexpected value in M21 - D14 indicates no conservatory present; 8 expected   |
| 482   | M21R4 : Unexpected value in M21 - D14 indicates unobtainable for conservatory; 9 expected   |
| 483   | M22R2 : Unexpected value in M22 - M21 indicates no conservatory; 8 expected   |
| 484   | M22R3 : Unexpected value in M22 - M22 indicates unobtainable for conservatory; 9 expected   |
| 500   | N1AR1 : Unexpected value in N1 area - Ground or Lowest floor should not be Not Applicable; 020-800 or 999 expected  |
| 501   | L18R2 : Unexpected value in L18 - L6 is unobtainable; 9 expected  |
| 501   | N1BR1 : Unexpected value in N1 measurement type - Ground or Lowest floor should not be Not Applicable; 1,2 or 9 expected  |
| 502   | N1CR1 : Unexpected value in N1 height - Ground or Lowest floor should not be Not Applicable; 1.5-4.0 or 9.9 expected  |
| 503   | N2AR1 : Unexpected value in N2 area - J2 and/or J03 indicates more than one floor; 020-800 or 999 expected  |
| 504   | N3AR1 : Unexpected value in N3A - J2 and/or J3 indicates more than two floors; 020-800 or 999 expected  |
| 505   | N4AR1 : Unexpected value in N4 area - J2 and/or J3 indicates more than three floors; 020-800 or 999 expected  |
| 506   | N5AR1 : Unexpected value in N5 area - J2 and/or J3 indicates more than four floors; 020-800 or 999 expected   |
| 507   | N2BR1 : Unexpected value in N2TYPE - J2 and/or J3 indicates more than one floor; 1,2 or 9 expected  |

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| ErrNo | Description  |
|-------|--|
| 508   | N3BR1 : Unexpected value in N3type - J2 and/or J3 indicates more than two floors; 1,2 or 9 expected        |
| 509   | N4BR1 : Unexpected value in N4type - J2 and/or J3 indicates more than three floors; 1,2 or 9 expected      |
| 510   | N5BR1 : Unexpected value in N5type - J2 and/or J3 indicates more than one floor; 1,2 or 9 expected         |
| 511   | N2CR1 : Unexpected value in N02HGT - J2 and/or J3 indicates more than one floor; 1.5-4 or 9.9 expected     |
| 512   | N3CR1 : Unexpected value in N3HGT - J2 and/or J3 indicates more than two floors; 1.5-4.0 or 9.9 expected   |
| 513   | N4CR1 : Unexpected value in N4HGT - J2 and/or J3 indicates more than three floors; 1.5-4.0 or 9.9 expected |
| 514   | N5CR1 : Unexpected value in N5HGT - J2 and/or J3 indicates more than three floors; 1.5-4.0 or 9.9 expected |
| 515   | N2AR2 : Unexpected value in N2 area - J2 and/or J3 indicates only one floor; 888 expected                  |
| 517   | N4AR2 : Unexpected value in N4 area - J2 and/or J3 indicates only three floors; 888 expected               |
| 517   | N4AR2 : Unexpected value in N4 area - J2 and/or J3 indicates only three floors; 888 expected               |
| 518   | N5AR2 : Unexpected value in N5 area - J2 and/or J3 indicates only four floors; 888 expected                |
| 518   | N5AR2 : Unexpected value in N5 area - J2 and/or J3 indicates only four floors; 888 expected                |
| 519   | N2BR2 : Unexpected value in N2type - J2 and/or J3 indicates only one floor; 8 expected                     |
| 519   | N2BR2 : Unexpected value in N2type - J2 and/or J3 indicates only one floor; 8 expected                     |
| 521   | N4BR2 : Unexpected value in N4type - J2 and/or J3 indicates only three floors; 8 expected                  |
| 521   | N4BR2 : Unexpected value in N4type - J2 and/or J3 indicates only three floors; 8 expected                  |
| 522   | N5BR2 : Unexpected value in N5type - J2 and/or J3 indicates only four floors; 8 expected                   |
| 522   | N5BR2 : Unexpected value in N5type - J2 and/or J3 indicates only four floors; 8 expected                   |
| 523   | N2CR2 : Unexpected value in N2HGT - J2 and/or J3 indicates only one floor; 8.8 expected                    |
| 523   | N2CR2 : Unexpected value in N2HGT - J2 and/or J3 indicates only one floor; 8.8 expected                    |
| 524   | N3CR2 : Unexpected value in N3HGT - J2 and/or J3 indicates only two floors; 8.8 expected                   |
| 524   | N3CR2 : Unexpected value in N3HGT - J2 and/or J3 indicates only two floors; 8.8 expected                   |
| 525   | N4CR2 : Unexpected value in N4HGT - J2 and/or J3 indicates only three floors; 8.8 expected                 |
| 525   | N4CR2 : Unexpected value in N4HGT - J2 and/or J3 indicates only three floors; 8.8 expected                 |
| 526   | N5CR2 : Unexpected value in N5HGT - J2 and/or J3 indicates only four floors; 8.8 expected                  |
| 526   | N5CR2 : Unexpected value in N5HGT - J2 and/or J3 indicates only four floors; 8.8 expected                  |
| 527   | N2CR2 : Unexpected value in N2 height - J2 indicates only one floor; 8.8 expected                          |
| 550   | O1R1 : Unexpected value in O1 - D1 indicates house or D2 indicates 4-in-block flat; 2 expected             |
| 551   | O1R2 : Unexpected value in O1 - D2 indicates flat with common access; 1 expected                           |
| 552   | O2R1 : Unexpected value in O2 - D2 indicates a tenement type; 1 or 2 expected                              |
| 553   | O2R2 : Unexpected value in O2 - D2 indicates a tower/slab; 2-7 expected                                    |
| 554   | O5R1 : Unexpected value in O5 - O4 indicates no lifts; 8 expected  |
| 600   | P1BR1 : Unexpected value in P1 repair urgent - P1 repair assessment indicates no repair; 8 expected        |
| 601   | P2BR1 : Unexpected value in P2 repair urgent - P2 repair assessment indicates no repair; 8 expected        |
| 602   | P3BR1 : Unexpected value in P3 repair urgent - P3 repair assessment indicates no repair; 8 expected        |
| 603   | P4BR1 : Unexpected value in P4 repair urgent - P4 repair assessment indicates no repair; 8 expected        |
| 604   | P5BR1 : Unexpected value in P5 repair urgent - P5 repair assessment indicates no repair; 8 expected        |
| 605   | P6BR1 : Unexpected value in P6 repair urgent - P6 repair assessment indicates no repair; 8 expected        |
| 606   | P7BR1 : Unexpected value in P7 repair urgent - P7 repair assessment indicates no repair; 8 expected        |
| 607   | P8BR1 : Unexpected value in P8 repair urgent - P8 repair assessment indicates no repair; 8 expected        |
| 608   | P9BR1 : Unexpected value in P9 repair urgent - P9 repair assessment indicates no repair; 8 expected        |
| 609   | P10BR1 : Unexpected value in P10 repair urgent - P10 repair assessment indicates no repair; 8 expected     |
| 610   | P11BR1 : Unexpected value in P11 repair urgent - P11 repair assessment indicates no repair; 8 expected     |
| 611   | P12BR1 : Unexpected value in P12 repair urgent - P12 repair assessment indicates no repair; 8 expected     |
| 612   | P13BR1 : Unexpected value in P13 repair urgent - P13 repair assessment indicates no repair; 8 expected     |
| 613   | P1BR2 : Unexpected value in P1 repair urgent - P1 repair assessment indicates unobtainable; 9 expected     |
| 614   | P2BR2 : Unexpected value in P2 repair urgent - P2 repair assessment indicates unobtainable; 9 expected     |
| 615   | P3BR2 : Unexpected value in P3 repair urgent - P3 repair assessment indicates unobtainable; 9 expected     |
| 616   | P4BR2 : Unexpected value in P4 repair urgent - P4 repair assessment indicates unobtainable; 9 expected     |
| 617   | P5BR2 : Unexpected value in P5 repair urgent - P5 repair assessment indicates unobtainable; 9 expected     |
| 618   | P6BR2 : Unexpected value in P6 repair urgent - P6 repair assessment indicates unobtainable; 9 expected     |
| 619   | P7BR2 : Unexpected value in P7 repair urgent - P7 repair assessment indicates unobtainable; 9 expected     |
| 620   | P8BR2 : Unexpected value in P8 repair urgent - P8 repair assessment indicates unobtainable; 9 expected     |

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|-------|--|
| 621   | P9BR2 : Unexpected value in P9 repair urgent - P9 repair assessment indicates unobtainable; 9 expected     |
| 622   | P10BR2: Unexpected value in P10 repair urgent - P10 repair assessment indicates unobtainable; 9 expected   |
| 623   | P11BR2: Unexpected value in P11 repair urgent - P11 repair assessment indicates unobtainable; 9 expected   |
| 624   | P12BR2: Unexpected value in P12 repair urgent - P12 repair assessment indicates unobtainable; 9 expected   |
| 625   | P13BR2: Unexpected value in P13 repair urgent - P13 repair assessment indicates unobtainable; 9 expected   |
| 626   | P1BR3 : Unexpected value in P1 repair urgent - P1 repair assessment indicates repair; 1 or 2 expected      |
| 627   | P2BR3 : Unexpected value in P2 repair urgent - P2 repair assessment indicates repair; 1 or 2 expected      |
| 628   | P3BR3 : Unexpected value in P3 repair urgent - P3 repair assessment indicates repair; 1 or 2 expected      |
| 629   | P4BR3 : Unexpected value in P4 repair urgent - P4 repair assessment indicates repair; 1 or 2 expected      |
| 630   | P5BR3 : Unexpected value in P5 repair urgent - P5 repair assessment indicates repair; 1 or 2 expected      |
| 631   | P6BR3 : Unexpected value in P6 repair urgent - P6 repair assessment indicates repair; 1 or 2 expected      |
| 632   | P7BR3 : Unexpected value in P7 repair urgent - P7 repair assessment indicates repair; 1 or 2 expected      |
| 633   | P8BR3 : Unexpected value in P8 repair urgent - P8 repair assessment indicates repair; 1 or 2 expected      |
| 634   | P9BR3 : Unexpected value in P9 repair urgent - P9 repair assessment indicates repair; 1 or 2 expected      |
| 635   | P10BR3: Unexpected value in P10 repair urgent - P10 repair assessment indicates repair; 1 or 2 expected    |
| 636   | P11BR3: Unexpected value in P11 repair urgent - P11 repair assessment indicates repair; 1 or 2 expected    |
| 637   | P12BR3: Unexpected value in P12 repair urgent - P12 repair assessment indicates repair; 1 or 2 expected    |
| 638   | P13BR3: Unexpected value in P13 repair urgent - P13 repair assessment indicates repair; 1 or 2 expected    |
| 639   | P1CR1 : Unexpected value in P1 residual life - P1 repair assessment indicates not applicable; 8 expected   |
| 640   | P2CR1 : Unexpected value in P2 residual life - P2 repair assessment indicates not applicable; 8 expected   |
| 641   | P3CR1 : Unexpected value in P3 residual life - P3 repair assessment indicates not applicable; 8 expected   |
| 642   | P4CR1 : Unexpected value in P4 residual life - P4 repair assessment indicates not applicable; 8 expected   |
| 643   | P5CR1 : Unexpected value in P5 residual life - P5 repair assessment indicates not applicable; 8 expected   |
| 644   | P6CR1 : Unexpected value in P6 residual life - P6 repair assessment indicates not applicable; 8 expected   |
| 645   | P7CR1 : Unexpected value in P7 residual life - P7 repair assessment indicates not applicable; 8 expected   |
| 646   | P8CR1 : Unexpected value in P8 residual life - P8 repair assessment indicates not applicable; 8 expected   |
| 647   | P9CR1 : Unexpected value in P9 residual life - P9 repair assessment indicates not applicable; 8 expected   |
| 648   | P10CR1: Unexpected value in P10 residual life - P10 repair assessment indicates not applicable; 8 expected |
| 649   | P11CR1: Unexpected value in P11 residual life - P11 repair assessment indicates not applicable; 8 expected |
| 650   | P12CR1: Unexpected value in P12 residual life - P12 repair assessment indicates not applicable; 8 expected |
| 651   | P13CR1: Unexpected value in P13 residual life - P13 repair assessment indicates not applicable; 8 expected |
| 652   | P1CR2 : Unexpected value in P1 residual life - P1 repair assessment indicates unobtainable; 9 expected     |
| 653   | P2CR2 : Unexpected value in P2 residual life - P2 repair assessment indicates unobtainable; 9 expected     |
| 654   | P3CR2 : Unexpected value in P3 residual life - P3 repair assessment indicates unobtainable; 9 expected     |
| 655   | P4CR2 : Unexpected value in P4 residual life - P4 repair assessment indicates unobtainable; 9 expected     |
| 656   | P5CR2 : Unexpected value in P5 residual life - P5 repair assessment indicates unobtainable; 9 expected     |
| 657   | P6CR2 : Unexpected value in P6 residual life - P6 repair assessment indicates unobtainable; 9 expected     |
| 658   | P7CR2 : Unexpected value in P7 residual life - P7 repair assessment indicates unobtainable; 9 expected     |
| 659   | P8CR2 : Unexpected value in P8 residual life - P8 repair assessment indicates unobtainable; 9 expected     |
| 660   | P9CR2 : Unexpected value in P9 residual life - P9 repair assessment indicates unobtainable; 9 expected     |
| 661   | P10CR2: Unexpected value in P10 residual life - P10 repair assessment indicates unobtainable; 9 expected   |
| 662   | P11CR2: Unexpected value in P11 residual life - P11 repair assessment indicates unobtainable; 9 expected   |
| 663   | P12CR2: Unexpected value in P12 residual life - P12 repair assessment indicates unobtainable; 9 expected   |
| 664   | P13CR2: Unexpected value in P13 residual life - P13 repair assessment indicates unobtainable; 9 expected   |
| 665   | P1CR3 : Unexpected value in P1 residual life - P1 repair assessment indicates repair; 1-4 expected         |
| 666   | P2CR3 : Unexpected value in P2 residual life - P2 repair assessment indicates repair; 1-4 expected         |
| 667   | P3CR3 : Unexpected value in P3 residual life - P3 repair assessment indicates repair; 1-4 expected         |
| 668   | P4CR3 : Unexpected value in P4 residual life - P4 repair assessment indicates repair; 1-4 expected         |
| 669   | P5CR3 : Unexpected value in P5 residual life - P5 repair assessment indicates repair; 1-4 expected         |
| 670   | P6CR3 : Unexpected value in P6 residual life - P6 repair assessment indicates repair; 1-4 expected         |
| 671   | P7CR3 : Unexpected value in P7 residual life - P7 repair assessment indicates repair; 1-4 expected         |
| 672   | P8CR3 : Unexpected value in P8 residual life - P8 repair assessment indicates repair; 1-4 expected         |
| 673   | P9CR3 : Unexpected value in P9 residual life - P9 repair assessment indicates repair; 1-4 expected         |

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| ErrNo | Description  |
|-------|--|
| 674   | P10CR3: Unexpected value in P10 residual life - P10 repair assessment indicates repair; 1-4 expected   |
| 675   | P11CR3: Unexpected value in P11 residual life - P11 repair assessment indicates repair; 1-4 expected   |
| 676   | P12CR3: Unexpected value in P12 residual life - P12 repair assessment indicates repair; 1-4 expected   |
| 677   | P13CR3: Unexpected value in P13 residual life - P13 repair assessment indicates repair; 1-4 expected   |
| 678   | P1AR4 : Unexpected value in P1 repair assessment - O3 indicates no stairs; 88 expected   |
| 679   | P1AR5 : Unexpected value in P1 repair assessment - O3 indicates unob stairs; 99 expected   |
| 681   | P7AR4 : Unexpected value in P7 repair assessment - O4 indicates no lifts; 88 expected  |
| 682   | P7AR5 : Unexpected value in P7 repair assessment - O4 indicates unob lifts; 99 expected  |
| 700   | Q1R4 : Unexpected value in Q1 - D1/E2 indicates detached house/block; 4 expected   |
| 701   | Q1R5 : Unexpected value in Q1 - D1/E2 indicates end/ter,semi-det house/block; 1,2 or 9 expected  |
| 702   | Q1R6 : Unexpected value in Q1 - D1/E2 indicates mid,corner,mid_terr house/block; 1,2,3 or 9 expected   |
| 703   | Q1R7 : Unexpected value in Q1 - D1/E2 indicates a semi/end terrace house/common block; 1 or 2 expected   |
| 704   | Q2R3 : Unexpected value in Q2 - D13 indicates a pre 1919 dwelling; 1 or 3 expected   |
| 705   | Q2R4 : Unexpected value in Q2 - D13 indicates a post 1975 dwelling; 2 or 3 expected  |
| 706   | Q3R3 : Unexpected value in Q3 - D13 indicates a pre 1919 dwelling; 1,2 or 3 expected   |
| 708   | Q5R4 : Unexpected value in Q5 - D13 indicates a 1919 to Post 1997 dwelling; 1 expected   |
| 709   | Q6R3 : Unexpected value in Q6 - Q2 indicates a solid wall construction; 1,4,5,6 or 7 expected  |
| 710   | Q7R3 : WARNING Unexpected value in Q7 - D5 indicates a pitched roof. Response at Q07 is unlikely - please check                                    |
| 711   | Q7R4 : WARNING Unexpected value in Q7 - D5 indicates a flat roof. Response at Q07 is unlikely - please check                                       |
| 712   | Q10R3 : Unexpected value in Q10 - 100% principal roof cover shown in Q8; 8 expected  |
| 713   | Q10R4 : Unexpected value in Q10 - less than 100% principal roof cover or unob shown in Q8; 1-7 or 9 expected                                       |
| 714   | Q10R5 : Unexpected value in Q10 - Q8 indicates unobtainable principal roof type; 1-7 expected  |
| 715   | Q13R3 : Unexpected value in Q13 - D13 indicates a post 1983 dwelling; Q13 indicates metal window frames without a thermal break; 1,2 or 4 expected |
| 716   | Q14R3 : Unexpected value in Q14 - Q12 indicates unobtainable for principal window type; 9 expected   |
| 717   | Q15R3 : Unexpected value in Q15 - Q14 indicates single glazing; 2,3,4 or 5 expected  |
| 718   | Q15R4 : Unexpected value in Q15 - Q14 indicates unobtainable glazing; 9 expected   |
| 719   | Q15R5 : Unexpected value in Q15 - Q14 indicates some form of glazing; 1-5 or blank expected  |
| 720   | Q15R6 : Unexpected value in Q15 - Q14 indicates double glazing; 1-4 expected   |
| 750   | R0aR3 : Unexpected value in R0a - D1/E2 indicates mid terr house/block with no exposed flanks; 1 or 9 expected                                     |
| 751   | R0aR4 : Unexpected value in R0a - D1/E2 indicates detached house/block; 2,3 or 9 expected  |
| 752   | R0bR3 : Unexpected value in R0b - D1/E2 indicates mid terr house/block with no exposed flanks; 4 or 9 expected                                     |
| 753   | R0bR4 : Unexpected value in R0b - D1/E2 indicates detached house/block; 5,6 or 9 expected  |
| 754   | R1aR3 : Unexpected value in R1 viewpoint 1 - Q7 indicates unob principal roof type; 99 expected  |
| 756   | R1bR3 : Unexpected value in R1 viewpoint 2 - Q7 indicates unob principal roof type; 99 expected  |
| 757   | R1bR4 : Q7 indicates some principal roof type; Response at R01VPT2 is inconsistent. Please check.  |
| 759   | R1cR4 : Unexpected value in R1 repair urgent - valid repair in R1 viewpoint 1 or R1 viewpoint 2; 1 or 2 expected                                   |
| 761   | R1cR6 : Unexpected value in R1 repair urgent - Q7 indicates unob roof type; 9 expected   |
| 763   | R2aR3 : Unexpected value in R2 viewpoint 1 - Q9 indicates unob principal roof cover; 99 expected   |
| 765   | R2bR3 : Unexpected value in R2 viewpoint 2 - Q9 indicates unob principal roof cover; 99 expected   |
| 768   | R2cR4 : Unexpected value in R2 repair urgent - valid repair in R2 viewpoint 1 or R2 viewpoint 2; 1 or 2 expected                                   |
| 770   | R2cR6 : Unexpected value in R2 repair urgent - Q9 indicates unob principal roof cover; 9 expected  |
| 771   | R2cR7 : Q9 indicates no unob principal roof cover. Response at R01VPT1 is inconsistent with this. Please Check.                                    |
| 775   | R2dR6 : Unexpected value in R2 residual life - Q9 indicates unob principal roof cover; 9 expected  |
| 776   | R2dR7 : Q9 indicates some principal roof cover. Response at R02RES is inconsistent with this. Please check.  |
| 777   | R3aR3 : Q10 indicates unob secondary roof cover; Response at R03VPT1 is inconsistent with this. Please Check.                                      |
| 778   | R3aR4 : Q10 indicates no secondary roof cover; Response at R03VPT1 is inconsistent. Please check.  |
| 778   | R3aR5 : Q10 shows secondary roof;R03VPT1 & R03VPT2 cannot be equal 88. Please check.   |
| 779   | R3bR4 : Q10 indicates no secondary roof cover; 88 expected   |
| 783   | R3cR5 : Unexpected value in R3 repair urgent - no repair or not applic in R3 viewpoint 1 or R3 viewpoint 2; 8 expected                             |

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| ErrNo | Description  |
|-------|--|
| 784   | R3cR6 : Unexpected value in R3 repair urgent - Q10 indicates unob secondary roof cover; 9 expected   |
| 785   | R3cR7 : Unexpected value in R3 repair urgent - Q10 indicates some/no secondary roof cover; 1,2 or 8 expected                               |
| 786   | R4aR3 : Q10 indicates unob secondary roof cover; Response at R04VPT1 is inconsistent. Please Check   |
| 787   | R4aR4 : Q10 indicates no secondary roof cover; Response at R04VPT1 is inconsistent. Please Check   |
| 788   | R4aR5 : Q10 shows secondary roof. R4VPT1 & R4VPT2 cannot both equal 88;Please Check.   |
| 789   | R4bR3 : Q10 indicates unob secondary roof cover; Response at R04VPT2 is inconsistent with this.Please Check.                               |
| 790   | R4bR4 : Q10 indicates no secondary roof cover. Response at R04VPT2 is inconsistent with this. Please Check.                                |
| 791   | R3bR5 : Q10 shows secondary roof cover, R03VPT1 & R3VPT2 cannot both equal 88; Please Check  |
| 791   | R4bR5 : Q10 shows secondary roof. R4VPT1 & R4VPT2 cannot both equal 88;Please Check.   |
| 793   | R4cR4 : Unexpected value in R4 repair urgent - valid repair in R4 viewpoint 1 or R4 viewpoint 2; 1 or 2 expected                           |
| 795   | R4cR6 : Unexpected value in R4 repair urgent - Q10 indicates unob secondary roof cover; 9 expected   |
| 796   | R4cR7 : Unexpected value in R4 repair urgent - Q10 indicates no/some secondary roof cover; 1,2 or 8 expected                               |
| 800   | R4dR6 : Unexpected value in R4 residual life - Q10 indicates unob secondary roof cover; 9 expected   |
| 801   | R4dR7 : Unexpected value in R4 residual life - Q10 indicates some/no secondary roof cover. Response at R04ES is inconsistent. Please check |
| 803   | R5cR4 : Unexpected value in R5 repair urgent - valid repair in R5 viewpoint 1 or R5 viewpoint 2; 1 or 2 expected                           |
| 809   | R6cR4 : Unexpected value in R6 repair urgent - valid repair in R6 viewpoint 1 or R6 viewpoint 2; 1 or 2 expected                           |
| 815   | R7cR4 : Unexpected value in R7 repair urgent - valid repair in R7 viewpoint 1 or R7 viewpoint 2; 1 or 2 expected                           |
| 821   | R8cR4 : Unexpected value in R8 repair urgent - valid repair in R8 viewpoint 1 or R8 viewpoint 2; 1 or 2 expected                           |
| 827   | R9cR4 : Unexpected value in R9 repair urgent - valid repair in R9 viewpoint 1 or R9 viewpoint 2; 1 or 2 expected                           |
| 830   | R10cR4: Unexpected value in R10 repair urgent - valid repair in R10 viewpoint 1 or R10 viewpoint 2; 1 or 2 expected                        |
| 836   | R11cR4: Unexpected value in R11 repair urgent - valid repair in R11 viewpoint 1 or R11 viewpoint 2; 1 or 2 expected                        |
| 839   | R12cR4: Unexpected value in R12 repair urgent - valid repair in R12 viewpoint 1 or R12 viewpoint 2; 1 or 2 expected                        |
| 845   | R13cR4: Unexpected value in R13 repair urgent - valid repair in R13 viewpoint 1 or R13 viewpoint 2; 1 or 2 expected                        |
| 848   | R14cR4: Unexpected value in R14 repair urgent - valid repair in R14 viewpoint 1 or R14 viewpoint 2; 1 or 2 expected                        |
| 854   | R15cR4: Unexpected value in R15 repair urgent - valid repair in R15 viewpoint 1 or R15 viewpoint 2; 1 or 2 expected                        |
| 860   | R16cR4: Unexpected value in R16 repair urgent - valid repair in R16 viewpoint 1 or R16 viewpoint 2; 1 or 2 expected                        |
| 866   | R17cR4: Unexpected value in R17 repair urgent - valid repair in R17 viewpoint 1 or R17 viewpoint 2; 1 or 2 expected                        |
| 870   | R1bR4a : Viewpoint 2 is coded unobtainable. Response at R01VPT2 should be unob.  |
| 870   | R2bR4a : Viewpoint 2 is coded unobtainable. Response at R02VPT2 should be also be unobtainable   |
| 870   | R3bR3 : Q10 indicates unobtainable secondary roof cover. Response at R03VPT2 is inconsistent with this. Please Check.                      |
| 871   | R18aR3: Unexpected value in R18 viewpoint 1 - Valid only for 4-in-Block or Conversion; 88 expected   |
| 872   | R18bR3: Unexpected value in R18 viewpoint 2 - Valid only for 4-in-Block or Conversion; 88 expected   |
| 873   | R10BR2 : Viewpoint 2 is coded unobtainable. Response at R10VPT2 should also be unobtainable.   |
| 873   | R11BR2 : Viewpoint 2 is coded unobtainable. Response at R11VPT2 should also be unobtainable.   |
| 873   | R12BR2 : Viewpoint 2 is coded unobtainable. Response at R12VPT2 should also be unobtainable.   |
| 873   | R13BR2 : Viewpoint 2 is coded unobtainable. Response at R13VPT2 should also be unobtainable.   |
| 873   | R14BR2 : Viewpoint 2 is coded unobtainable. Response at R14VPT2 should also be unobtainable.   |
| 873   | R15BR2 : Viewpoint 2 is coded unobtainable. Response at R15VPT2 should also be unobtainable.   |
| 873   | R16BR2 : Viewpoint 2 is coded unobtainable. Response at R16VPT2 should also be unobtainable.   |
| 873   | R17BR2 : Viewpoint 2 is coded unobtainable. Response at R17VPT2 should also be unobtainable.   |
| 873   | R18BR2 : Viewpoint 2 is coded unobtainable. Response at R18VPT2 should also be n/a or unobtainable.  |
| 873   | R18BR2 : Viewpoint 2 is coded unobtainable. Response at R18VPT2 should also be unobtainable normal houses.                                 |
| 873   | R5BR2 : Viewpoint 2 is coded unobtainable. Response at R05VPT2 should also be unobtainable.  |
| 873   | R6BR2 : Viewpoint 2 is coded unobtainable. Response at R06VPT2 should also be unobtainable.  |
| 873   | R7BR2 : Viewpoint 2 is coded unobtainable. Response at R07VPT2 should also be unobtainable.  |
| 873   | R8BR2 : Viewpoint 2 is coded unobtainable. Response at R08VPT2 should also be unobtainable.  |
| 873   | R9BR2 : Viewpoint 2 is coded unobtainable. Response at R09VPT2 should also be unobtainable.  |

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|-------|---|
| 874   | R18cR4: Unexpected value in R18 repair urgent - valid repair in R18 viewpoint 1 or R18 viewpoint 2; 1 or 2 expected   |
| 876   | R18cR6: Unexpected value in R18 repair urgent - Valid only for 4-in-Block or Conversion; 8 expected   |
| 883   | R18dR6: Unexpected value in R18 residual life - Valid only for 4-in-Block or Conversion; 8 expected   |
| 900   | T1R3 : Unexpected value in T1 - H3 Hall to H3 Bathroom indicates structural instability; 2 expected   |
| 901   | T1R4 : Unexpected value in T1 - H3 Hall to H3 Bathroom indicates no structural instability; 1 or 9 expected   |
| 902   | T2R4 : Unexpected value in T2 - H10 Dwelling and H11 Dwelling indicate no rising or penetrating damp; 1 expected  |
| 904   | T2R6 : Unexpected value in T2 - H10 Dwelling and H11 Dwelling indicate rising or penetrating damp greater than 40%; 2 expected  |
| 905   | T3R3 : Unexpected value in T3 - Kitchen Hall & Bathroom do not indicate any rooms with poor natural light' +  |
| 906   | T5R3 : Unexpected value in T5; BTS expected. REFER TO SUPERVISOR  |
| 907   | T5R4 : Unexpected value in T5 - K13 indicates hot and cold water present within the dwelling; 1 expected  |
| 908   | T5R5 : Unexpected value in T5 - K13 is unobtainable; 9 expected   |
| 909   | T6R3 : Unexpected value in T6 - K3 indicates a WC located in building, outside, shared WC or no WC; 2 expected  |
| 911   | T6R5 : Unexpected value in T6 - K3 is unobtainable; 9 expected  |
| 912   | T7R3 : Unexpected value in T7 - K11 and K12 indicate that dwelling has an internal bath/shower and a suitable supply of hot and cold water to the bath/shower; 1 expected |
| 913   | T7R4 : Unexpected value in T7 - K11 and K12 indicate that internal bath/shower unob. and a suitable supply of hot and cold water to the bath/shower unob.; 9 expected     |
| 914   | T7R5 : Unexpected value in T7; BST expected . REFER TO SUPERVISOR   |
| 915   | T8R3 : Unexpected value in T8 - Q11 indicates no drainage; 2 expected   |
| 916   | T11R3 : Unexpected value in T11 - T1 to T10 indicates above Tolerable Standard or unob.; 1,2 or 9 expected  |
| 917   | T11R4 : Unexpected value in T11 - T1 to T10 indicates dwelling is BTS; 2-4 expected   |
| 918   | T12R3 : Unexpected value in T12 - E1 indicates the dwelling is part of a common block; 1,2 or 9 expected  |
| 919   | T12R4 : Unexpected value in T12 - E1 indicates the dwelling is not part of a common block; 3 expected   |
| 920   | X1R0 : Unexpected value in T6 - BTS expected. REFER to SUPERVISOR   |
| 921   | X2R0 : Unexpected value in T7 - BTS expected. REFER to SUPERVISOR   |
| 922   | X3R0 : Unexpected value in T7 - BTS expected. REFER to SUPERVISOR   |
| 923   | X4R0 : Unexpected value in T5 - BTS expected. REFER to SUPERVISOR   |
| 924   | X17R0 : Unexpected value in T6 - H10B indicates Bathroom off winder; expect T6 to be BTS. REFER TO SUPERVISOR   |
| 925   | X18R0 : Unexpected value in T7 - H10B indicates Bathroom off winder; expect T7 to be BTS. REFER TO SUPERVISOR   |
| 941   | D13R4 : Age code at D13 suggests property post 1982 - but not at M00, check coding and amend  |
| 942   | D13R5a : Age mismatch between D13 and M0 - Please check   |
| 942   | D13R5b : Age mismatch between D13 and M0 - Please check   |
| 942   | D13R5c : Age mismatch between D13 and M0 - Please check   |
| 942   | D13R5d : Age mismatch between D13 and M0 - Please check   |
| 945   | X14R0 : D02 indicates a flat, J03 shows no rooms in the roof, expect one floor at J02. Please Check.  |
| 950   | J2R0 : Unexpected value in J2 - J2 habitable floors; 1 to 9 expected  |
| 952   | J2R2 : Unexpected value in J2, J03 does not indicate a stair case   |
| 953   | J3R4 : Unexpected value in J03 - D05 indicates a flat or non-heat loss roof; 88 expected  |
| 954   | J3R5 : Unexpected value in J03 - D05 indicates not a flat or non-heat loss roof. Response at J03 should not be "not applicable".  |
| 954   | J3R5 : Unexpected value in J03 - D05 indicates not a flat or non-heat loss roof. Response at J03 should not be "not applicable".  |
| 955   | J4R0 : Unexpected value in J04 - Not valid answer; 0-90, or 99 expected   |
| 956   | J4R1 : Unusual value in J04 - check value   |
| 957   | J4R2 : Unexpected value in J04 - Rooms in basement cannot be more than in dwelling  |
| 958   | J4R3 : D7 indicates basement present - 00,1-10,99 expected in J4' )   |
| 959   | J5R0 : Unexpected value in J5 - 1,2 expected in J5  |
| 960   | J6R0 : Unexpected value in J6 - 1,2,3,9 expected in J6  |
| 961   | H10DR1 : Unexpected value in H10 - individual rooms indicate rising damp - H10D 1-7 expected  |
| 962   | H11DR1 : Unexpected value in H11 - individual rooms indicate penetrating damp - H11D 1-7 expected   |
| 963   | H12D1 : Unexpected value in H12 - individual rooms indicate some condensation - H12D 1-7 expected   |
| 964   | H13DR1 : Unexpected value in H13 - individual rooms indicate mould - H13D 1-7 expected  |

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| ErrNo | Description  |
|-------|--|
| 965   | J3R7 : Unexpected value in JO3; 00, 0 to 10 expected   |
| 966   | L8R4 : Unexpected value in L08; L01 and L02 indicates no power system in dwelling; 8 expected in L08                                   |
| 968   | L11R1 : Unexpected value in L11; L09 - no water indicated; 8 expected in L11   |
| 969   | L11R2 : Unexpected value in L09; L09 - Unobserved water indicated; 8 expected in L09   |
| 970   | L11R3 : Unexpected value in L09; L09 - Water main indicated; 1,2,9 expected in L11   |
| 971   | L11R4 : Unexpected value in L09; L09 - No water main indicated; 8 expected in L09  |
| 972   | L11R5 : Unexpected value in L09; L11 - Unobserved water indicated; 9 expected in L09   |
| 977   | L15R2 : Unexpected value in L15; L10 indicates water system in dwelling unobtainable - 9 expected in L09                               |
| 978   | L15R3 : Unexpected value in L15; L09/L11 indicates no water main - 8 expected in L15   |
| 979   | L15R4 : Unexpected value in K10/K12/K14; L15 indicates no amenity - 8  |
| 981   | L16R2 : L10 indicates water system unobtainable; 9 expected in L16   |
| 983   | L17R1 : Unexpected value in L17; L05 indicates no power system; 8 expected in L17  |
| 984   | L17R2 : Unexpected value in L17; L05 is unobtainable; 9 expected in L17  |
| 985   | L17R3 : Unexpected value in L05; L17 indicates no electrical power system; 8 expected in L05   |
| 987   | L18R1 : Unexpected value in L18; L06 indicates no lighting system; 8 expected in L18   |
| 988   | J3R6 : J02 indicates no habitable floors in dwelling, this suggests all rooms in the roof space and J03 should equal J01. Please check |
| 988   | R7DR14: Error in R07RES - Valid repair in R07VPT1; 1 to 4 expected   |
| 989   | R7DR15: Error in R07RES - Valid repair in R07VPT1; 1 to 4 expected   |
| 990   | L1R6 : Unexpected value in M04; no services indicated at L01; but mains electric indicated   |
| 991   | M4R1 : Unexpected value in M04; individual boiler indicated in M01; 1 to 12 expected   |
| 991   | R10DR14: Error in R10RES - Valid repair in R10VPT1; 1 to 4 expected  |
| 991   | R10DR15: Error in R10RES - Valid repair in R10VPT2; 1 to 4 expected  |
| 991   | R12DR14: Error in R12RES - Valid repair in R12VPT1; 1 to 4 expected  |
| 991   | R12DR15: Error in R12RES - Valid repair in R12VPT2; 1 to 4 expected  |
| 991   | R14DR14: Error in R14RES - Valid repair in R14VPT1; 1 to 4 expected  |
| 991   | R14DR15: Error in R14RES - Valid repair in R14VPT2; 1 to 4 expected  |
| 991   | R15DR14: Error in R15RES - Valid repair in R15VPT1; 1 to 4 expected  |
| 991   | R15DR14: Error in R15RES - Valid repair in R15VPT1; 1 to 4 expected  |
| 991   | R15DR15: Error in R15RES - Valid repair in R15VPT2; 1 to 4 expected  |
| 991   | R15DR15: Error in R15RES - Valid repair in R15VPT2; 1 to 4 expected  |
| 991   | R16DR14: Error in R16RES - Valid repair in R16VPT1; [1-4] expected   |
| 991   | R16dR15: Error in R16RES Valid repair in R16VPT1; 1 to 4 expected  |
| 991   | R17DR14: Error in R17RES - Valid repair in R17VPT1; 1 to 4 expected  |
| 991   | R17DR15: Error in R17RES - Valid repair in R17VPT2; 1 to 4 expected  |
| 991   | R18DR14: Error in R18RES - Valid repair in R18VPT1; 1 to 4 expected  |
| 991   | R18DR15: Error in R18RES - Valid repair in R18VPT2; 1 to 4 expected  |
| 991   | R2dR14: Error in R02RES - Valid repair in R01VPT1; [1-4] expected  |
| 991   | R2dR15: Error in R02RES - Valid repair in R01VPT2; [1-4] expected  |
| 991   | R4dR14: Error in R02RES - Valid repair in R04VPT; [1-4] expected   |
| 991   | R4dR15: Error in R02RES - Valid repair in R02VPT2; [1-4] expected  |
| 991   | R5dR14: Error in R02RES - Valid repair in R05VPT1; [1-4] expected  |
| 991   | R5dR15: Error in R02RES - Valid repair in R05VPT1; [1-4] expected  |
| 991   | R6dR14: Error in R02RES - Valid repair in R06VPT1; [1-4] expected  |
| 991   | R6dR15: Error in R02RES - Valid repair in R06VPT2; [1-4] expected  |
| 991   | R7dR14: Error in R02RES - Valid repair in R07VPT1; [1-4] expected  |
| 991   | R7dR15: Error in R02RES - Valid repair in R07VPT2; [1-4] expected  |
| 991   | R8DR14: Error in R08RES - Valid repair in R08VPT1; 1 to 4 expected   |
| 991   | R8dR15: Error in R02RES - Valid repair in R08VPT2; [1-4] expected  |
| 991   | R8dR15: Error in R02RES - Valid repair in R08VPT2; [1-4] expected  |
| 991   | R8DR15: Error in R08RES - Valid repair in R08VPT2; 1 to 4 expected   |
| 992   | M4R2 : Unexpected value in M04; Community heating indicated in M01; 13,14 expected   |
| 992   | R10DR12: Error in R10RES - no repair in R10VPT1/R10VPT2; 1 to 4 expected   |

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| ErrNo | Description   |
|-------|---|
| 992   | R10DR13: Error in R10RES - no repair in R10VPT1/R10VPT2; 1 to 4 expected                      |
| 992   | R12DR12: Error in R12RES - no repair in R12VPT1/R12VPT2; 1 to 4 expected                      |
| 992   | R12DR13: Error in R12RES - no repair in R12VPT1/R12VPT2; 1 to 4 expected                      |
| 992   | R14DR12: Error in R14RES - No repair in R14VPT1/R14VPT2; 1 to 4 expected                      |
| 992   | R14DR13: Error in R14RES - No repair in R14VPT1/R14VPT2; 1 to 4 expected                      |
| 992   | R15dR12: Error in R15RES - No repair in R15VPT1/R15VPT2; 1 to 4 expected                      |
| 992   | R15dR13: Error in R15RES - No repair in R15VPT1/R15VPT2; 1 to 4 expected                      |
| 992   | R16DR12: Error in R16RES - No repair in R16VPT1/R16VPT2; 1 to 4 expected                      |
| 992   | R16DR13: Error in R16RES - No repair in R16VPT1/R16VPT2; 1 to 4 expected                      |
| 992   | R17DR12: Error in R17RES - No repair in R17VPT1/R17VPT2; 1 to 4 expected                      |
| 992   | R17dR13: Error in R17RES - No repair in R17VPT1/R17VPT2; 1 to 4 expected                      |
| 992   | R18DR12: Error in R18RES - No repair in R18VPT1/R18VPT2; 1 to 4 expected                      |
| 992   | R18DR13: Error in R18RES - No repair in R18VPT1/R18VPT2; 1 to 4 expected                      |
| 992   | R2dR12: Error in R02RES - No repair in R01VPT1/R02VPT2; 1 to 4 expected                       |
| 992   | R2dR13: Error in R02RES - No repair in R01VPT1/R02VPT2; 1 to 4 expected                       |
| 992   | R4dR12: Error in R04RES - No repair in R04VPT1/R04VPT2; 1 to 4 expected                       |
| 992   | R4dR13: Error in R04RES - No repair in R04VPT1/R04VPT2; 1 to 4 expected                       |
| 992   | R5dR12: Error in R05RES - No repair in R05VPT1/R05VPT2; 1 to 4 expected                       |
| 992   | R5dR13: Error in R05RES - No repair in R05VPT1/R05VPT2; 1 to 4 expected                       |
| 992   | R6dR12: Error in R06RES - No repair in R06VPT1/R06VPT2; 1 to 4 expected                       |
| 992   | R6dR13: Error in R06RES - No repair in R06VPT1/R06VPT2; 1 to 4 expected                       |
| 992   | R7DR12: Error in R07RES - no repair in R07VPT1/R07VPT2; 1 to 4 expected                       |
| 992   | R7DR13: Error in R07RES - no repair in R07VPT1/R07VPT2; 1 to 4 expected                       |
| 992   | R8dR12: Error in R08RES - No repair in R08VPT1/R08VPT2; 1 to 4 expected                       |
| 992   | R8DR13: Error in R08RES - No repair in R08VPT1 or R08VPT2; 1 to 4 expected                    |
| 992   | R8dR13: Error in R08RES - No repair in R08VPT1/R08VPT2; 1 to 4 expected                       |
| 993   | Error in R18RES - No repair in R18VPT1 and R18VPT2; with unob; 1 to 4 expected                |
| 993   | R10DR11: Error in R10RES - Unob with no repair in R10VPT1 or R10VPT2; 1 to 4 expected         |
| 993   | R12DR11: Error in R12RES - no repair with unob in R12VPT1 and R12VPT2; [1..4] expected        |
| 993   | R14DR11: Error in R14RES - No repair in R14VPT1 or R14VPT2 with unob; [1..4] expected         |
| 993   | R15DR11: Error in R15RES - No repair with unobtainable in R15VPT1 OR R15VPT2; [1..4] expected |
| 993   | R16DR11: Error in R16RES - No repair in R16VPT1 or R16VPT2 with unob; 1 to 4 expected         |
| 993   | R17DR11: Error in R17RES - No repair in R17VPT1 OR R17VPT2 with Unob; 1 to 4 expected         |
| 993   | R2dR11: Error in R02RES - No repair in R01VPT1 or R02VPT2 with Unob; 1 to 4 expected          |
| 993   | R4dR11: Error in R04RES - No repair in R04VPT1 or R04VPT2 with Unob; 1 to 4 expected          |
| 993   | R5dR11: Error in R05RES - No repair in R05VPT1 or R05VPT2 with Unob; 1 to 4 expected          |
| 993   | R6dR11: Error in R06RES - No repair in R06VPT1 or R06VPT2 with Unob; 1 to 4 expected          |
| 993   | R7DR11: Error in R07RES - No repair in R07VPT1 or R07VPT2; 1 to 4 expected                    |
| 993   | R8dR11: Error in R08RES - No repair in R08VPT1 or R08VPT2 with Unob; 1 to 4 expected          |
| 994   | R10CR13: Error in R10REP - Not applicable in R10VPT1; 8 expected                              |
| 994   | R11CR13: Error in R11REP - Not applicable in R11VPT1; 8 expected                              |
| 994   | R12CR13: Error in R12REP - Not applicable in R12VPT1; 8 expected                              |
| 994   | R13CR13: Error in R13REP - Not applicable in R13VPT1; 8 expected                              |
| 994   | R14CR13: Error in R14REP - Not applicable in R14VPT1; 8 expected                              |
| 994   | R15CR13: Error in R15REP - Not applicable in R15VPT1; 8 expected                              |
| 994   | R16CR13: Error in R16REP - Not applicable in R16VPT1; 8 expected                              |
| 994   | R17CR13: Error in R17REP - Not applicable in R17VPT1; 8 expected                              |
| 994   | R18CR13: Error in R18REP - Not applicable in R18VPT1; 8 expected                              |
| 994   | R1CR13: Error in R01REP - Not applicable in R01VPT1; 8 expected                               |
| 994   | R2CR13: Error in R02REP - Not applicable in R01VPT1; 8 expected                               |
| 994   | R3CR13: Error in R03REP - Not applicable in R03VPT1; 8 expected                               |
| 994   | R4CR13: Error in R04REP - Not applicable in R04VPT1; 8 expected                               |
| 994   | R5CR13: Error in R02REP - Not applicable in R05VPT1; 8 expected                               |

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| ErrNo | Description   |
|-------|---|
| 994   | R6CR13: Error in R06REP - Not applicable in R06VPT1; 8 expected                         |
| 994   | R7CR13: Error in R07REP - Not applicable in R07VPT1; 8 expected                         |
| 994   | R8CR13: Error in R08REP - Not applicable in R08VPT1; 8 expected                         |
| 994   | R9CR13: Error in R09REP - not applicable in R09VPT1; 8 expected                         |
| 995   | R10CR12: Error in R10REP - Not applicable in R10VPT2; 8 expected                        |
| 995   | R11CR12: Error in R11REP - Not applicable in R11VPT2; 8 expected                        |
| 995   | R12CR12: Error in R12REP - Not applicable in R12VPT2; 8 expected                        |
| 995   | R13CR12: Error in R13REP - Not applicable in R13VPT2; 8 expected                        |
| 995   | R14CR12: Error in R14REP - Not applicable in R14VPT2; 8 expected                        |
| 995   | R15CR12: Error in R15REP - Not applicable in R15VPT2; 8 expected                        |
| 995   | R16CR12: Error in R16REP - Not applicable in R16VPT2; 8 expected                        |
| 995   | R17CR12: Error in R17REP - Not applicable in R17VPT2; 8 expected                        |
| 995   | R18CR12: Error in R18REP - Not applicable in R18VPT2; 8 expected                        |
| 995   | R1CR12: Error in R01REP - Not applicable in R01VPT2; 8 expected                         |
| 995   | R2CR12: Error in R02REP - Not applicable in R02VPT2; 8 expected                         |
| 995   | R3CR12: Error in R03REP - Not applicable in R03VPT2; 8 expected                         |
| 995   | R4CR12: Error in R04REP - Not applicable in R04VPT1; 0 or 8 expected                    |
| 995   | R5CR12: Error in R05REP - Not applicable in R05VPT2; 8 expected                         |
| 995   | R6CR12: Error in R01REP - Not applicable in R06VPT2; 8 expected                         |
| 995   | R7CR12: Error in R07REP - Not applicable in R07VPT2; 8 expected                         |
| 995   | R8CR12: Error in R08REP - Not applicable in R08VPT2; 8 expected                         |
| 995   | R9CR12: Error in R09REP - not applicable in R09VPT2; 8 expected                         |
| 996   | M4R6 : Unexpected value in M04; Heat pump indicated in M01; 88 expected                 |
| 996   | R10CR10: Error in R10REP - Unob with not applicable in R10VPT1 and R10VPT2; 9 expected  |
| 996   | R10DR10: Error in R10RES - Unob with not applicable in R10VPT1 and R10VPT2; 9 expected  |
| 996   | R11CR10: Error in R11REP - Unob with not applicable in R11VPT1 and R11VPT2; 9 expected  |
| 996   | R12CR10: Error in R12REP - Unob with not applicable in R12VPT1 and R12VPT2; 9 expected  |
| 996   | R12DR10: Error in R12RES - Unob with not applicable in R12VPT1 and R12VPT2; 9 expected  |
| 996   | R13CR10: Error in R12RES - Unob with not applicable in R13VPT1 and R13VPT2; 9 expected  |
| 996   | R14CR10: Error in R14REP - Unob with not applicable in R14VPT1 and R14VPT2; 9 expected  |
| 996   | R14DR10: Error in R14RES - Unob with not applicable in R14VPT1 and R14VPT2; 9 expected  |
| 996   | R15CR10: Error in R15REP - Unob with not applicable in R15VPT1 and R15VPT2; 9 expected  |
| 996   | R15dR10: Error in R12RES - Unob with not applicable in R15VPT1 and R15VPT2; 9 expected  |
| 996   | R16CR10: Error in R16REP - Unob with not applicable in R16VPT1 and R16VPT2; 9 expected  |
| 996   | R16DR10: Error in R16RES - Unob with not applicable in R16VPT1 and R16VPT2; 9 expected  |
| 996   | R17CR10: Error in R17REP - Unob with not applicable in R17VPT1 AND R17VPT2; 9 expected  |
| 996   | R17DR10: Error in R17RES - Unob with not applicable in R17VPT1 and R17VPT2; 9 expected  |
| 996   | R18CR10: Error in R18REP - Unopb with not applicable in R18VPT1 and R18VPT2; 9 expected |
| 996   | R18DR10: Error in R18RES - Unob with not applicable in R18VPT1 and R18VPT2; 9 expected  |
| 996   | R1CR10: Error in R01REP - Unob with not applicable in R01VPT1 and R01VPT2; 9 expected   |
| 996   | R2CR10 Error in R02REP - Unob with not applicable in R01VPT1 and R02VPT2; 9 expected    |
| 996   | R2dR10: Error in R02RES - Unob with not applicable in R01VPT1 and R02VPT2; 9 expected   |
| 996   | R3CR10 Error in R03REP - Unob with not applicable in R03VPT1 and R03VPT2; 9 expected    |
| 996   | R4CR10: Error in R04REP - Unob with not applicable in R04VPT1 and R04VPT2; 9 expected   |
| 996   | R4dR10 Error in R04RES - Unob with not applicable in R04VPT1 and R04VPT2; 9 expected    |
| 996   | R5CR10: Error in R05REP - Unob with not applicable in R05VPT1 and R05VPT2; 9 expected   |
| 996   | R5dR10: Error in R05RES - Unob with not applicable in R05VPT1 and R05VPT2; 9 expected   |
| 996   | R6CR10: Error in R06REP - Unob with not applicable in R06VPT1 and R06VPT2; 9 expected   |
| 996   | R6dR10: Error in R06RES - Unob with not applicable in R06VPT1 and R06VPT2; 9 expected   |
| 996   | R7CR10: Error in R07REP - Unob with not applicable in R07VPT1 and R07VPT2; 9 expected   |
| 996   | R7DR10: Error in R07RES - Unob with not applicable in R07VPT1 and R07VPT2; 9 expected   |
| 996   | R8CR10: Error in R08REP - Unob with not applicable in R08VPT1 and R08VPT2; 9 expected   |
| 996   | R8DR10: Error in R08RES - Unob with Not applicable in R08VPT1 and R08VPT2; 9 expected   |

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| ErrNo | Description  |
|-------|--|
| 996   | R9CR10: Error in R09REP - Unob with not applicable in R09VPT1 and R09VPT2; 9 expected  |
| 997   | M4R7 : Unexpected value in M01; Not applicable fuel indicated at M04, but no heat pump indicated at M1 - REFER TO SUPERVISOR |
| 997   | R10CR11: Error in R10REP - Unob with no repair in R10VPT1 and R10VPT2; 9 expected  |
| 997   | R11CR11: Error in R11REP - Unob with no repair in R11VPT1 and R11VPT2; 9 expected  |
| 997   | R12CR11: Error in R12REP - Unob with not repair in R12VPT1 and R12VPT2; 9 expected   |
| 997   | R13CR11: Error in R13REP - Unob with no repair in R13VPT1 and R13VPT2; 9 expected  |
| 997   | R14CR11: Error in R14REP - Unob with no repair in R14VPT1 and R14VPT2; 9 expected  |
| 997   | R14DR9: Error in R14RES - Unob in R14VPT1 and R14VPT2; 9 expected  |
| 997   | R15CR11: Error in R15REP - Unob with no repair in R15VPT1 and R15VPT2; 9 expected  |
| 997   | R16CR11: Error in R16REP - Unob with no repair in R16VPT1 and R16VPT2; 9 expected  |
| 997   | R17CR11: Error in R17REP - Unob with no repair in R17VPT1 and R17VPT2; 9 expected  |
| 997   | R18CR11: Error in R18REP - Unob with no repair in R18VPT1 and R18VPT2; 9 expected  |
| 997   | R1CR11: Error in R01REP - Unob with no repair in R01VPT1 and R01VPT2; 9 expected   |
| 997   | R2CR11: Error in R02REP - Unob with no repair in R01VPT1 and R02VPT2; 9 expected   |
| 997   | R3CR11: Error in R03REP - Unob with no repair in R03VPT1 and R03VPT2; 9 expected   |
| 997   | R4CR11: Error in R04REP - Unob with no repair in R04VPT1 and R04VPT2; 9 expected   |
| 997   | R5CR11: Error in R05REP - Unob with no repair in R05VPT1 and R05VPT2; 9 expected   |
| 997   | R6CR11: Error in R06REP - Unob with no repair in R06VPT1 and R06VPT2; 9 expected   |
| 997   | R7CR11: Error in R07REP - Unob with no repair in R07VPT1 and R07VPT2; 9 expected   |
| 997   | R8CR11: Error in R08REP - Unob with no repair in R08VPT1 and R08VPT2; 9 expected   |
| 997   | R9CR11: Error in R09REP - Unob with no repair in R09VPT1 and R00VPT2; 9 expected   |
| 998   | M4R8 : Unexpected value in M04; Electric Heating indicated at M4; 11,12 expected   |
| 998   | R10CR9: Error in R10REP - Unob in R10VPT1 and R10VPT2; 9 expected  |
| 998   | R10DR9: Error in R10RES - Unob in R10VPT1 and R10VPT2; 9 expected  |
| 998   | R11CR9: Error in R11REP - Unob in R11VPT1/R11VPT2; 8 expected  |
| 998   | R12CR9: Error in R12REP - Unob in R12VPT1 and R12VPT2; 9 expected  |
| 998   | R12DR9: Error in R12RES - Unob in R12VPT1 and R12VPT2; 9 expected  |
| 998   | R13CR9: Error in R13REP - UNOB in R13VPT1 and R13VPT2; 9 expected  |
| 998   | R14CR9: Error in R14REP - Unob in R14VPT1 and R14VPT2; 9 expected  |
| 998   | R15CR9: Error in R15REP - Unob in R15VPT1 and R15VPT2; 9 expected  |
| 998   | R15DR9: Error in R15RES - Unob in R15VPT1 and R15VPT2; 9 expected  |
| 998   | R16CR9: Error in R16REP - Unob in R16VPT1 AND R16VPT2; 9 expected  |
| 998   | R16DR9: Error in R16RES - Unob in R16VPT1 and R16VPT2; 9 expected  |
| 998   | R17cr9: Error in R17REP - Unob in R17VPT1 and R17VPT2; 9 expected  |
| 998   | R17DR9: Error in R17RES - Unob in R17VPT1 AND R17VPT2; 9 expected  |
| 998   | R18CR9: Error in R18REP - Unob in R18VPT1 and R18VPT2; 9 expected  |
| 998   | R18DR9: Error in R18RES - Unob in R18VPT1 AND R18VPT2; 9 expected  |
| 998   | R1CR9: Error in R01REP - Unob in R01VPT1 and R01VPT2; 9 expected   |
| 998   | R2CR9: Error in R02REP - Unob in R01VPT1 and R02VPT2; 9 expected   |
| 998   | R2dR9: Error in R02RES - Unob in R01VPT1 and R02VPT2; 9 expected   |
| 998   | R3CR9 Error R03REP Unob in R03VPT1 and R03VPT2; 9 expected   |
| 998   | R4CR9: Error in R04REP - Unob in R04VPT1 AND R04VPT2; 9 expected   |
| 998   | R4dR9: Error in R04RES Unob in R04VPT1 and R04VPT2; 9 expected   |
| 998   | R5CR9: Error in R05REP - Unob in R05VPT1 and R05VPT2; 9 expected   |
| 998   | R5dR9: Error in R05RES unob in R05VPT1 and R05VPT2; 9 expected   |
| 998   | R6CR9: Error in R06REP unob in R06VPT1 and R06VPT2; 9 expected   |
| 998   | R6dR9 Error in R06RES - Unob in R06VPT1 and R06VPT2; 9 expected  |
| 998   | R7CR9: Error in R07REP - Unob in R07VPT1 and R07VPT2; 9 expected   |
| 998   | R7DR9: Error in R07RES - Unob in R07VPT1 and R07VPT2; 9 expected   |
| 998   | R8CR9: Error in R08REP - Unob with not applicable in R08VPT1 and R08VPT2; 9 expected   |
| 998   | R8DR9: Error in R08RES - Unob in R08VPT1 and R08VPT2; 9 expected   |
| 998   | R9CR9: Error in R09REP - Unob in R09VPT1 and R09VPT2; 9 expected   |

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| ErrNo | Description   |
|-------|---|
| 999   | M4R9 : Unexpected value in M04; Gas indicated at M4 but not in L01            |
| 999   | R10CR8: Error in R10REP - Not applicable in R10VPT1 and R10VPT2; 8 expected   |
| 999   | R10cR8: Error in R10REP: - Not applicable in R10VPT1 and R10VPT2; 8 expected  |
| 999   | R10DR8: Error in R10RES - Not applicable in R10VPT1 and R10VPT2; 8 expected   |
| 999   | R11CR8: Error in R11REP - Not applicable in R11VPT1/R11VPT2; 8 expected       |
| 999   | R12CR8: Error in R12REP - Not applicable in R12VPT1 and R12VPT2; 8 expected   |
| 999   | R12DR8: Error in R12RES - not applicable in R12VPT1 and R12VPT2; 8 expected   |
| 999   | R13CR8: Error in R13REP - Not applicable in R13VPT1 and R13VPT2; 8 expected   |
| 999   | R14CR8: Error in R14REP - Not applicable in R14VPT1 and R14VPT2; 8 expected   |
| 999   | R14DR8: Error in R14RES - Not applicable in R14VPT1 and R14VPT2; 8 expected   |
| 999   | R15CR8: Error in R15REP - Not applicable in R15VPT1 and R15VPT2; 8 expected   |
| 999   | R15DR8: Error in R15RES - Not applicable in R15VPT1 and R15VPT2; 8 expected   |
| 999   | R16CR8: Error in R16REP - Not applicable in R16VPT1 AND R16VPT2; 8 expected   |
| 999   | R16DR8: Error in R16RES - Not applicable in R16VPT1 and R16VPT2; 8 expected   |
| 999   | R17cr8: Error in R17REP - Not applicable in R17VPT1 and R17VPT2; 8 expected   |
| 999   | R17DR8: Error in R17RES - Not applicable in R17VPT1 and R17VPT2; 8 expected   |
| 999   | R18cR8: Error in R18REP - Not applicable in R18VPT1 AND R18VPT/2; 8 expected  |
| 999   | R18DR8: Error in R18RES - Not applicable in R18VPT1 AND R18VPT2; 8 expected   |
| 999   | R1CR8: Error in R1C - Not applicable in R01VPT1 and R01VPT2; 8 expected       |
| 999   | R2CR8: Error in R02REP - Not applicable in R01VPT1 and R02VPT2; 8 expected    |
| 999   | R2dR8: Error in R02RES - Not applicable in R01VPT1 and R02VPT2; 8 expected    |
| 999   | R3cR8: Error in R03REP - Not applicable in R03VPT1 and R03VPT2; 8 expected    |
| 999   | R4cR8: Error in R04REP - Not applicable in R04VPT1 and R04VPT2; 8 expected    |
| 999   | R4dR8: Error in R04RES : Not applicable in R04VPT1 AND R04VPT2; 8 expected    |
| 999   | R5cR8: Error in R05REP: - Not applicable in R05VPT1 and R05VPT2; 8 expected   |
| 999   | R5dR8: Error in R05RES: - Not applicable in R05VPT1 and R05VPT2; 8 expected   |
| 999   | R6cR8: Error in R06REP - Not applicable in R06VPT1 and R06VPT2; 8 expected    |
| 999   | R6dR8: Error in R06RES: - Not applicable in R06VPT1 AND R06VPT2; [8] expected |
| 999   | R7CR8: Error in R07REP - Not applicable in R07VPT1 and R07VPT2; 8 expected    |
| 999   | R7DR8: Error in R07RES - Not applicable in R07VPT1 and R07VPT2; 8 expected    |
| 999   | R8CR8: Error in R08REP - Not applicable in R08VPT1 and R08VPT2; 8 expected    |
| 999   | R8DR8: Error in R08RES - Not applicable in R08VPT1 and R08VPT2; 8 expected    |
| 999   | R9cR8: Error in R09REP - Not applicable in R09VPT1 and R09VPT2; 8 expected    |

### 10.14 Imputation

As long as mandatory questions (generally demographic) are answered, cases are deemed to be acceptable even if the respondent is unable to answer certain questions. This can result in valid cases with missing data. Using a variety of methodologies, it is possible to impute answers.

For Year Two of the CSHCS (as for Year One), Communities Scotland asked ONS to impute income and some housing cost data, where that data was missing. The variables chosen were all related to income (e.g. earnings and benefits) and housing cost (mortgage cost/rent) and would be used to categorise households by income for other analyses. Table 26, below, identifies the items considered for imputation and their corresponding flag (impflag). Where a flag has a value of 1, the corresponding variable has been imputed; otherwise the flag has a no value.

Imputation was carried out by ONS using Canceis<sup>9</sup>. This tool uses a nearest-neighbour, minimum-change donor methodology. This methodology requires a sufficient number of donor cases and a restricted range of variability in responses in order to be valid. Where these conditions were not met, imputation could not be carried out. Therefore, there may still be a remnant of “Don’t Knows” in the data.

**Table 26: Variables imputed**

|    | Income        | Description                 | No. Cases Imputed |
|----|---------------|-----------------------------|-------------------|
| 2  | din1          | Employment status           |                   |
| 3  | din4          | Usual net pay               |                   |
| 4  | din5          | Period                      |                   |
| 5  | din6          | Exact/Estimate              |                   |
| 6  | din7          | Usual hours/wk              |                   |
| 7  | din35         | Spouse partner in paid work |                   |
| 8  | din36         | 1 job/>1 job                |                   |
| 9  | din38         | Employee/SelfEmp            |                   |
| 10 | din37         | Employee/SelfEmp            |                   |
| 11 | din39         | Usual Net Pay               |                   |
| 12 | din40         | Usual period                |                   |
| 13 | din41         | Exact/Estimate              |                   |
| 14 | din42         | Hours/wk                    |                   |
| 15 | din1_impflag  |                             | 2                 |
| 16 | din4_impflag  |                             | 143               |
| 17 | din5_impflag  |                             | 143               |
| 18 | din6_impflag  |                             | 143               |
| 19 | din7_impflag  |                             | 143               |
| 20 | din35_impflag |                             | 5                 |

<sup>9</sup> (Canadian Census Edit and Imputation System), produced by Statistics Canada.

|    | <b>Income</b> | <b>Description</b> | <b>No. Cases Imputed</b> |
|----|---------------|--------------------|--------------------------|
| 21 | din36_impflag |                    | 5                        |
| 22 | din37_impflag |                    | 5                        |
| 23 | din38_impflag |                    | 11                       |
| 24 | din39_impflag |                    | 174                      |
| 25 | din40_impflag |                    | 174                      |
| 26 | din41_impflag |                    | 174                      |
| 27 | din42_impflag |                    | 177                      |

|    | <b>Benefits</b>            |                           | <b>No. Cases imputed</b> |
|----|----------------------------|---------------------------|--------------------------|
| 28 | DV_RCV_Ben_Childben        | Child benefit             |                          |
| 29 | DVCBEN                     |                           |                          |
| 30 | DV_ChildBen_Amt            |                           |                          |
| 31 | DV_ChildBen_AmtDK          |                           |                          |
| 32 | DV_ChildBen_Pd             |                           |                          |
| 33 | dv_childben_amt_impflag    |                           | 39                       |
| 34 | dv_childben_pd_impflag     |                           | 40                       |
| 35 | DV_RCV_Ben_GuardAllw       | Guardian's allowance      |                          |
| 36 | DVGDALL                    |                           |                          |
| 37 | DV_GuardAllw_Amt           |                           |                          |
| 38 | DV_GuardAllw_AmtDK         |                           |                          |
| 39 | DV_GuardAllw_Pd            |                           |                          |
| 40 | dv_guardallw_amt_impflag   |                           | 0                        |
| 41 | dv_guardallw_pd_impflag    |                           | 0                        |
| 42 | DV_RCV_Ben_InvCareAllw     | Invalidity Care Allowance |                          |
| 43 | DVICARE                    |                           |                          |
| 44 | DV_InvCareAllw_Amt         |                           |                          |
| 45 | DV_InvCareAllw_AmtDK       |                           |                          |
| 46 | DV_InvCareAllw_Pd          |                           |                          |
| 47 | dv_invcareallw_amt_impflag |                           | 15                       |
| 48 | dv_invcareallw_pd_impflag  |                           | 15                       |
| 49 | DV_RCV_Ben_NIPen           | State Pension             |                          |
| 50 | DVNIPEN                    |                           |                          |
| 51 | DV_NIPen_Amt               |                           |                          |
| 52 | DV_NIPen_AmtDK             |                           |                          |
| 53 | DV_NIPen_Pd                |                           |                          |
| 54 | dv_nipen_amt_impflag       |                           | 133                      |
| 55 | dv_nipen_pd_impflag        |                           | 135                      |
| 56 | DV_RCV_Ben_WidPen          | Widow's Pension           |                          |
| 57 | DVWIDOW                    |                           |                          |
| 58 | DV_WidPen_Amt              |                           |                          |
| 59 | DV_WidPen_AmtDK            |                           |                          |
| 60 | DV_WidPen_Pd               |                           |                          |
| 61 | dv_widpen_amt_impflag      |                           | 4                        |
| 62 | dv_widpen_pd_impflag       |                           | 6                        |
| 63 | DV_RCV_Ben_WarDis          | War Disability Pension    |                          |

|     | <b>Benefits</b>        | <b>No. Cases imputed</b>  |
|-----|------------------------|---------------------------|
| 64  | DVWARPN                |                           |
| 65  | DV_WarDis_Amt          |                           |
| 66  | DV_WarDis_AmtDK        |                           |
| 67  | DV_WarDis_Pd           |                           |
| 68  | dv_wardis_amt_impflag  | 0                         |
| 69  | dv_wardis_pd_impflag   | 0                         |
| 70  | DV_RCV_Ben_SevDis      | Severe Disability Pension |
| 71  | DVSDIS                 |                           |
| 72  | DV_SevDis_Amt          |                           |
| 73  | DV_SevDis_AmtDK        |                           |
| 74  | DV_SevDis_Pd           |                           |
| 75  | dv_sevdis_amt_impflag  | 23                        |
| 76  | dv_sevdis_pd_impflag   | 24                        |
| 77  | DV_RCV_Ben_DLACare     | DLA Care allowance        |
| 78  | DVDLACR                |                           |
| 79  | DV_DLACare_Amt         |                           |
| 80  | DV_DLACare_AmtDK       |                           |
| 81  | DV_DLACare_Pd          |                           |
| 82  | dv_dlacare_amt_impflag | 80                        |
| 83  | dv_dlacare_pd_impflag  | 81                        |
| 84  | DV_RCV_Ben_DLAMob      | DLA Mobility Allowance    |
| 85  | DVDLAMOB               |                           |
| 86  | DV_DLAMob_Amt          |                           |
| 87  | DV_DLAMob_AmtDK        |                           |
| 88  | DV_DLAMob_Pd           |                           |
| 89  | dv_dlamob_amt_impflag  | 92                        |
| 90  | dv_dlamob_pd_impflag   | 94                        |
| 91  | DV_RCV_Ben_AttAllw     | Attendance Allowance      |
| 92  | DVATALL                |                           |
| 93  | DV_AttAllw_Amt         |                           |
| 94  | DV_AttAllw_AmtDK       |                           |
| 95  | DV_AttAllw_Pd          |                           |
| 96  | dv_attallw_amt_impflag | 95                        |
| 97  | dv_attallw_pd_impflag  | 96                        |
| 98  | DV_RCV_Ben_JSAIB       | JSA                       |
| 99  | DVJSA                  |                           |
| 100 | DV_JSAIB_Amt           |                           |
| 101 | DV_JSAIB_AmtDK         |                           |
| 102 | DV_JSAIB_Pd            |                           |
| 103 | dv_jsaib_amt_impflag   | 3                         |
| 104 | dv_jsaib_pd_impflag    | 3                         |
| 105 | DV_RCV_Ben_IncSupp     | Income Support Allowance  |
| 106 | DVINSUP                |                           |
| 107 | DV_IncSupp_Amt         |                           |
| 108 | DV_IncSupp_AmtDK       |                           |
| 109 | DV_IncSupp_Pd          |                           |

|     | <b>Benefits</b>         | <b>No. Cases imputed</b>    |
|-----|-------------------------|-----------------------------|
| 110 | dv_incsupp_amt_impflag  | 72                          |
| 111 | dv_incsupp_pd_impflag   | 72                          |
| 112 | DV_RCV_Ben_PenCre       | Pension Credit              |
| 113 | DVPC                    |                             |
| 114 | DV_PenCred_Amt          |                             |
| 115 | DV_PenCred_AmtDK        |                             |
| 116 | DV_PenCred_Pd           |                             |
| 117 | dv_pencred_amt_impflag  | 53                          |
| 118 | dv_pencred_pd_impflag   | 54                          |
| 119 | DV_RCV_Ben_IncapBen     | Incapacity Benefit          |
| 120 | DVINCAP                 |                             |
| 121 | DV_IncapBen_Amt         |                             |
| 122 | DV_IncapBen_AmtDK       |                             |
| 123 | DV_IncapBen_Pd          |                             |
| 124 | dv_incapben_amt_impflag | 47                          |
| 125 | dv_incapben_pd_impflag  | 47                          |
| 126 | DV_RCV_Ben_MatAllw      |                             |
| 127 | DVMATAL                 | Maternity Allowance         |
| 128 | DV_MatAllw_Amt          |                             |
| 129 | DV_MatAllw_AmtDK        |                             |
| 130 | DV_MatAllw_Pd           |                             |
| 131 | dv_matallw_amt_impflag  | 1                           |
| 132 | dv_matallw_pd_impflag   | 1                           |
| 133 | DV_RCV_Ben_IndInj       | Industrial Injury Allowance |
| 134 | DVINDIS                 |                             |
| 135 | DV_IndInj_Amt           |                             |
| 136 | DV_IndInj_AmtDK         |                             |
| 137 | DV_IndInj_Pd            |                             |
| 138 | dv_indinj_amt_impflag   | 2                           |
| 139 | dv_indinj_pd_impflag    | 2                           |
| 140 | DV_RCV_Ben_WTC          | Working Tax Credit          |
| 141 | DVWTC                   |                             |
| 142 | DV_WTC_Amt              |                             |
| 143 | DV_WTC_AmtDK            |                             |
| 144 | DV_WTC_Pd               |                             |
| 145 | dv_wtc_amt_impflag      | 38                          |
| 146 | dv_wtc_pd_impflag       | 39                          |
| 147 | DV_RCV_Ben_CTC          |                             |
| 148 | DVCTC                   |                             |
| 149 | DV_CTC_Amt              | Child Tax Credit            |
| 150 | DV_CTC_AmtDK            |                             |
| 151 | DV_CTC_Pd               |                             |
| 152 | dv_ctc_amt_impflag      | 61                          |
| 153 | dv_ctc_pd_impflag       | 65                          |
| 154 | DV_RCV_Ben_StatSP       | Statutory Sick Pay          |
| 155 | DVSICK                  |                             |

|     | <b>Benefits</b>             | <b>No. Cases imputed</b> |
|-----|-----------------------------|--------------------------|
| 156 | DV_StatSP_Amt               |                          |
| 157 | DV_StatSP_AmtDK             |                          |
| 158 | DV_StatSP_Pd                |                          |
| 159 | dv_statsp_amt_impflag       | 1                        |
| 160 | dv_statsp_pd_impflag        | 1                        |
| 161 | DV_RCV_Ben_StatMatPay       | Statutory Maternity Pay  |
| 162 | DVMATST                     |                          |
| 163 | DV_StatMatPay_Amt           |                          |
| 164 | DV_StatMatPay_AmtDK         |                          |
| 165 | DV_StatMatPay_Pd            |                          |
| 166 | dv_statmatpay_amt_impflag   | 2                        |
| 167 | dv_statmatpay_pd_impflag    | 2                        |
| 168 | DV_RCV_Ben_StatPatPay       | Statutory Paternity Pay  |
| 169 | DVPATS                      |                          |
| 170 | DV_StatPatPay_Amt           |                          |
| 171 | DV_StatPatPay_AmtDK         |                          |
| 172 | DV_StatPatPay_Pd            |                          |
| 173 | dv_statpatpay_amt_impflag   | 0                        |
| 174 | dv_statpatpay_pd_impflag    | 0                        |
| 175 | DV_RCV_Ben_StatAdoptPay     | Statutory Adoption Pay   |
| 176 | DVADOPS                     |                          |
| 177 | DV_StatAdoptPay_Amt         |                          |
| 178 | DV_StatAdoptPay_AmtDK       |                          |
| 179 | DV_StatAdoptPay_Pd          |                          |
| 180 | dv_statadoptpay_amt_impflag | 0                        |
| 181 | dv_statadoptpay_pd_impflag  | 0                        |
| 182 | DV_RCV_Ben_TaxRefund        | Tax Refund               |
| 183 | DVTAXRF                     |                          |
| 184 | DV_TaxRefund_Amt            |                          |
| 185 | DV_TaxRefund_AmtDK          |                          |
| 186 | DV_TaxRefund_Pd             |                          |
| 187 | dv_taxrefund_amt_impflag    | 1                        |
| 188 | dv_taxrefund_pd_impflag     | 1                        |
| 189 | DV_RCV_Ben_MileAllw         | Mileage Allowance        |
| 190 | DVMILALW                    |                          |
| 191 | DV_MileAllw_Amt             |                          |
| 192 | DV_MileAllw_AmtDK           |                          |
| 193 | DV_MileAllw_Pd              |                          |
| 194 | dv_mileallw_amt_impflag     | 3                        |
| 195 | dv_mileallw_pd_impflag      | 3                        |
| 196 | DV_RCV_Ben_MotExp           | Motoring Expenses        |
| 197 | DVMOTEX                     |                          |
| 198 | DV_MotExp_Amt               |                          |
| 199 | DV_MotExp_AmtDK             |                          |
| 200 | DV_MotExp_Pd                |                          |
| 201 | dv_motexp_amt_impflag       | 0                        |

|     | <b>Benefits</b>            | <b>No. Cases imputed</b> |
|-----|----------------------------|--------------------------|
| 202 | dv_motexp_pd_impflag       | 0                        |
| 203 | DV_RCV_Ben_TaxCred         | Tax Credit               |
| 204 | DVTAXCD                    |                          |
| 205 | DV_TaxCred_Amt             |                          |
| 206 | DV_TaxCred_AmtDK           |                          |
| 207 | DV_TaxCred_Pd              |                          |
| 208 | dv_taxcred_amt_impflag     | 4                        |
| 209 | dv_taxcred_pd_impflag      | 4                        |
| 210 | DV_RCV_Ben_FnlGrnt         | Funeral Grant            |
| 211 | DVFUNRL                    |                          |
| 212 | DV_FnlGrnt_Amt             |                          |
| 213 | DV_FnlGrnt_AmtDK           |                          |
| 214 | DV_FnlGrnt_Pd              |                          |
| 215 | dv_fnlgrnt_amt_impflag     | 1                        |
| 216 | dv_fnlgrnt_pd_impflag      | 1                        |
| 217 | DV_RCV_Ben_MatExpGrnt      | Maternity Expenses Grant |
| 218 | DVMATGR                    |                          |
| 219 | DV_MatExpGrnt_Amt          |                          |
| 220 | DV_MatExpGrnt_AmtDK        |                          |
| 221 | DV_MatExpGrnt_Pd           |                          |
| 222 | dv_matexpgrnt_amt_impflag  | 8                        |
| 223 | dv_matexpgrnt_pd_impflag   | 8                        |
| 224 | DV_RCV_Ben_ComCareGrnt     | Community Care Grant     |
| 225 | DVCCARE                    |                          |
| 226 | DV_ComCareGrnt_Amt         |                          |
| 227 | DV_ComCareGrnt_AmtDK       |                          |
| 228 | DV_ComCareGrnt_Pd          |                          |
| 229 | dv_comcaregrnt_amt_impflag | 35                       |
| 230 | dv_comcaregrnt_pd_impflag  | 35                       |
| 231 | DV_RCV_Ben_WintFuel        | Winter Fuel Allowance    |
| 232 | DVWINT                     |                          |
| 233 | DV_WintFuel_Amt            |                          |
| 234 | DV_WintFuel_AmtDK          |                          |
| 235 | DV_WintFuel_Pd             |                          |
| 236 | dv_wintfuel_amt_impflag    | 599                      |
| 237 | dv_wintfuel_pd_impflag     | 600                      |
| 238 | DV_RCV_Ben_BackToWk        | Back to Work Bonus       |
| 239 | DVBWORK                    |                          |
| 240 | DV_BackToWk_Amt            |                          |
| 241 | DV_BackToWk_AmtDK          |                          |
| 242 | DV_BackToWk_Pd             |                          |
| 243 | dv_backtowk_amt_impflag    | 4                        |
| 244 | dv_backtowk_pd_impflag     | 4                        |
| 245 | DV_RCV_Ben_ExtHBen         | Extended Housing Benefit |
| 246 | DVEXTPA                    |                          |
| 247 | DV_ExtHBen_Amt             |                          |

|     | <b>Benefits</b>           | <b>No. Cases imputed</b>         |
|-----|---------------------------|----------------------------------|
| 248 | DV_ExtHBen_AmtDK          |                                  |
| 249 | DV_ExtHBen_Pd             |                                  |
| 250 | dv_exthben_amt_impflag    | 9                                |
| 251 | dv_exthben_pd_impflag     | 9                                |
| 252 | DV_RCV_Ben_WidLmpSm       | Widow's Payment                  |
| 253 | DVWIDPA                   |                                  |
| 254 | DV_WidLmpSm_Amt           |                                  |
| 255 | DV_WidLmpSm_AmtDK         |                                  |
| 256 | DV_WidLmpSm_Pd            |                                  |
| 257 | dv_widlmpsm_amt_impflag   | 2                                |
| 258 | dv_widlmpsm_pd_impflag    | 2                                |
| 259 | DV_RCV_Ben_ChldMntBon     | Child Maintenance Bonus          |
| 260 | DVCHMAI                   |                                  |
| 261 | DV_ChldMntBon_Amt         |                                  |
| 262 | DV_ChldMntBon_AmtDK       |                                  |
| 263 | DV_ChldMntBon_Pd          |                                  |
| 264 | dv_chldmntbon_amt_impflag | 0                                |
| 265 | dv_chldmntbon_pd_impflag  | 0                                |
| 266 | DV_RCV_Ben_LoneParRun     | Lone Parent Run-on Allowance     |
| 267 | DVLONER                   |                                  |
| 268 | DV_LoneParRun_Amt         |                                  |
| 269 | DV_LoneParRun_AmtDK       |                                  |
| 270 | DV_LoneParRun_Pd          |                                  |
| 271 | dv_loneparrun_amt_impflag | 2                                |
| 272 | dv_loneparrun_pd_impflag  | 2                                |
| 273 | DV_RCV_Ben_OthBen         | Other State Benefit              |
| 274 | DVOTHB                    |                                  |
| 275 | DV_OthBen_Amt             |                                  |
| 276 | DV_OthBen_AmtDK           |                                  |
| 277 | DV_OthBen_Pd              |                                  |
| 278 | dv_othben_amt_impflag     | 16                               |
| 279 | dv_othben_pd_impflag      | 16                               |
| 280 | numbens_incomb            | No. benefits paid in combination |
| 281 | tot_incomb                |                                  |
| 282 | tot_incomb_pd             |                                  |

|     | <b>Mortgage</b> |                   | <b>No. Cases Imputed</b> |
|-----|-----------------|-------------------|--------------------------|
| 283 | DOH22           | Monthly Payment   |                          |
| 284 | DOH24           | Endowment Portion |                          |
| 285 | DOH22_ImpFlag   |                   | 101                      |
| 286 | DOH24_ImpFlag   |                   | 40                       |

|     | <b>Rent &amp; housing benefit</b> |                                  | <b>No. Cases Imputed</b> |
|-----|-----------------------------------|----------------------------------|--------------------------|
| 287 | XRENT                             | Rent                             |                          |
| 288 | XRENTPD                           | Period                           |                          |
| 289 | HBENAMT                           | Housing Benefit Amt              |                          |
| 290 | HBENPD                            | Period                           |                          |
| 291 | HBENCHK                           | Before/After Housing Benefit     |                          |
| 292 | RENTFULL                          | Full rent before Housing Benefit |                          |
| 293 | RENTPD1                           | Period                           |                          |
| 294 | DV_Renting_Flag                   |                                  |                          |
| 295 | DV_RCV_HBen_Flag                  |                                  |                          |
| 296 | xrent_impflag                     |                                  | 38                       |
| 297 | xrentpd_impflag                   |                                  | 38                       |
| 298 | hbenamt_impflag                   |                                  | 105                      |
| 299 | hbenpd_impflag                    |                                  | 105                      |
| 300 | rentfull_impflag                  |                                  | 82                       |
| 301 | rentpd1_impflag                   |                                  | 82                       |