

UK 2000 TIME USE SURVEY - Summary of main changes for the delivery to Essex Data Archive, July 2003

All Files

New weights

New weights (grossed and ungrossed) have been attached to all files, using 2000 population estimates based on the 2001 Census. The weights on the previous versions of the data files had used 2000 population estimates based on the 1991 Census. These new weights incorporate some minor changes to age and sex made to the household file and fed through to the other files.

Note that the worksheet and household files previously had no weights.

Standard set of variables from household and person files

With the addition of the new weights, the opportunity has been taken to make other improvements to the data files.

A standard set of household and person level variables - more comprehensive in coverage than those on the previous versions of the data files - has been devised and attached to each of the data files. The order of these variables is also clearer. In particular, the worksheet file previously had no variables attached from other files. Now it has the standard set.

Improvement to labels

The variable and value labels have been improved on all files - but in particular on the person file.

More detail

The data structure files for each data set explain the changes in more detail.

1 Household questionnaire file

Derived variables

There have been many additions and improvements to the variables at the end of the household data file. We now have region, more household counts, household reference person, household income, improved household type and indicators of response to the questionnaire, diary and worksheet. The household type variable is widely used in analysis and several versions (varying in detail) have been devised.

Weights

Three sets of weights (grossed and ungrossed) have been attached (i) for those households responding to the diary, (ii) for those households responding to the worksheet and (iii) for those households responding to both the diary and worksheet. There had been no weights on the previous version of the household file.

Improvement to labels

The variable and value labels have been improved.

2 Individual questionnaire file

Household and person variables

There have been many additions and improvements to the person-level variables at the end of the data file eg economic activity, income, working hours, occupation classification, social class and highest education qualification. In addition, the standard set of household variables has been added.

Weights

New weights (grossed and ungrossed) have been attached, using 2000 population estimates based on the 2001 Census.

Improvement to labels

There have been widespread improvements to the variable and value labels.

3 Worksheet File

Addition of valid blank records

The previous version of this data file contained only those worksheets where some time had been spent on paid work or education. The current version of this data file has had the blank worksheets added for those who were not in paid work or in education during the survey week eg the economically inactive, unemployed, those on holiday. There are now 9,823 records - 6,131 with some time recorded and 3,692 valid blanks.

Standard set of variables from household and person files

The standard set of variables from the household and person questionnaire files has been added. There had been no variables from these other files on the previous version of the worksheet file.

Weights

Weights (grossed and ungrossed) have been attached. There had been no weights on the previous version of the worksheet file.

4 Diary File

Automatic editing of missing activities

There has been further editing of time-slots to improve the quality of diaries. For time-slots with the activity code 997 ("*blank - coder has some idea of activity*") it was found that the respondent had recorded the start of an activity but not used arrows as instructed to indicate that it had continued. On these diaries the blanks (up to an hour) were replaced with the previous activity. The overall effect was that the number of missing time-slots was reduced from 1.6% to 1.2% of all time-slots.

Standard set of variables from household and person files

The standard set of household and person level variables has been attached.

New criteria for eligibility for analysis

The diary file has 20,981 records. 19,898 of these were considered to be of the required standard for analysis by ONS ie they had:

- a) 90 minutes or less of missing activities (ie time unaccounted for), with missing activities defined as those coded to 996 or 997 (both codes for 'blanks').
- b) 5 or more separate 'episodes'. A new episode is defined if any details relating to an activity change from one time period to the next ie if there is a new main or secondary activity, a new location, or who the activity was carried out with changes.

The indicator field (dry_ind) near the end of the data file indicates which records meet these criteria. These eligibility criteria become important below when devising the weights.

Weights

New weights (grossed & ungrossed) were calculated using the 2000 population estimates based on the 2001 Census. These weights correct for non-response and the different sampling rates for weekdays and weekends.

The weights on the previous version of this data file used a different definition of response - all diaries had been included (20,981), irrespective of the amount of missing time. The new definition of response (see above) on the current data file means that 19,898 diaries count as response. All 20,981 diaries remain on the data file, but only the 19,898 diaries which count as response have weights (for the rest the weight fields are empty). If analysis is carried out with the weighting variable 'on' this automatically ensures that just the 19,898 records are included in the analysis.

Episode data

The little used but lengthy episode data has been removed from the diary file and placed in a separate file, complete with a full set of explanatory variables (ie household variables, personal variables and weights).

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OVERVIEW OF THE UK 2000 TIME USE SURVEY DATA FILES

Introduction

A sample of addresses was drawn from the Royal Mail's small users Postcode Address File (PAF). There were 4 main parts to the survey:

- (i) Household questionnaire: selected household heads or their partners completed a household questionnaire.
- (ii) Individual questionnaire: all individuals aged 8 or over were asked to complete individual questionnaires.
- (iii) Diaries: all individuals aged 8 or over were asked to complete two one-day diaries (for a weekday & a weekend day)
- (iv) Worksheets: all individuals aged 8 or over were asked to complete a one week work and education time sheet.

Four corresponding main data files were produced: a household questionnaire file, an individual questionnaire file, a diary file and a 'worksheet' file. A further 'diary episode' data file was also produced, based on the diary data file. In this the diary time-slot data was converted into 'episodes' ie rather than the activity and other details for each 10 minute time-slot, we instead have fields for each activity, together with the start and stop times in separate fields.

Confidential information

All confidential information such as date-of-birth, address, post code etc has been deleted from the data files so that no individual or household can be identified in the data set.

Serial numbers

The data files can all be matched on serial number:

| Variable name | Variable description | Notes |
|---------------|-----------------------------|--|
| sn1 | Sample point number | On all files. |
| sn2 | Address or household number | On all files. Sn1 + Sn2 produce a unique reference number for the household file. |
| sn3 | Person number | Not on household file. On individual file, diary file and worksheet. Sn1 + Sn2 + Sn3 produce a unique reference number for the individual file and the worksheet. |
| sn4 | Diary number | On diary file only. Has values 1 or 2, to indicate if 1 st or 2 nd diary. Sn1 + Sn2 + Sn3 + Sn4 produce a unique reference number for the diary. |

Weights

All data files have weights attached. There is a separate note explaining this more fully.

Below we look at each data file in turn.

1 Household questionnaire data file

The household file has 6,414 records.

All individuals aged 8 yrs or more were asked to complete individual questionnaires. Household heads or their partners completed a questionnaire on behalf of the household.

Data was collected on household composition (age, sex, relationships), tenure, type of accommodation, household income, car availability, household reference person and help received from others.

There are 3 sets of weights on the file (grossed & ungrossed) for households completing diaries, households completing worksheets, and households completing both diaries and worksheets.

2 Individual questionnaire data file

The individual questionnaire file has 11,664 records.

All individuals aged 8 yrs or more were asked to complete individual questionnaires.

Data was collected *inter alia* on economic activity, job, income, education, voluntary work, leisure activities, health problems, childcare arrangements, and whether a carer.

The file has weights attached (grossed & ungrossed) and variables from the household file (eg age, sex, region, household counts, household reference person, household income & household type).

3 Worksheet data file

The worksheet file has 9,823 records (3692 were valid blanks where there was no paid work or education over the week eg the person was economically inactive, on holiday, etc), and 6131 had some work or education time recorded. There is an indicator field (W_Ind) on the file which indicates which records are valid blank and which have some time recorded.

All individuals aged 8 yrs or more were asked to complete worksheets.

Data was collected on the start and stop times of each period of work or education during the day for 7 days. This was asked separately for the main job and for other work. Data was also collected on the start and stop times of each period of travel while at work (again, for the whole week). The main means of travel was also collected. There are summary variables on the data file for the total time at work, total time travelling etc.

The file has weights attached (grossed & ungrossed) and variables from the household file (eg age, sex, region, household counts, household reference person, household income & household type) and individual file (eg economic activity, income, working hours, occupation classification, social class and highest education qualification).

4 Diary data file

The diary file has 20,981 records. 19,898 of these were considered to be of the required standard for analysis by ONS ie they had (a) 90 minutes or less of missing activities (ie time unaccounted for) and (b) 5 or more separate 'episodes'. A new episode is defined if any details relating to an activity change from one time period to the next ie if there is a new main or secondary activity, a new location, or who the activity was carried out with changes.

The indicator field (dry_ind) near the end of the data file indicates which records meet these criteria.

All individuals aged 8 yrs or more were asked to complete diaries for a weekday and a weekend day. There were two types of diary: those aged 8-13yrs were asked to complete a child diary, while those aged 14 yrs or more were asked to complete an adult diary. The information requested was slightly different on each diary.

For each 10 minute time-slot the data file has the following information:

- (i) main activity
- (ii) secondary activity (not collected for child diary)
- (iii) location
- (iv) who the activity was carried out with (several different questions: whether alone, with children 0-9, with children 10-14, with other household members, with non-household members). For the child diaries the two 'with children' questions were replaced with a single 'with parents' question. Note that on the data file the 'who with' information for adult and child diaries are in completely separate fields.

Additionally there were questions at the end of the questionnaire which asked whether the respondent was at work or school, whether the dairy day was unusual, and so on.

There are summary variables for each of the time-slot questions ie for total time on each main activity, total time on each secondary activity, total time at each location, and total time for each 'who with' question.

Attached to the data file are variables from the household file (eg age, sex, region, household counts, household reference person, household income & household type) and the individual file (eg economic activity, income, working hours, occupation classification, social class and highest education qualification).

Weights

The data file has weights attached (grossed & ungrossed) which correct for non-response and the different sampling rates for weekdays and weekends.

The weights on the previous version of this data file used a different definition of response - all diaries had been included (20,981), irrespective of the amount of missing time. The new definition of response on the current data file means that 19,898 diaries count as response. However, all 20,981 diaries remain on the data file, but only the 19,898 diaries which count as response have weights (for the rest the weight fields are empty). If analysis is carried out with the weighting variable 'on' this automatically ensures that just the 19,898 records are included in the analysis.

Cleaning the diary data

People filling in the wrong diaries

Some people completed the wrong type of diary ie adults completed child diaries, and children completed adult diaries (there were over a hundred instances of each). This resulted in some missing data for secondary activities and for the 'who were you with' questions.

Recoding secondary activities

Secondary activities were recoded as follows:

- for 8-13 yrs year olds filling in adult diaries, secondary activities were deleted.
- for those aged 14yrs or more filling in child diaries the secondary activity was missing and was coded as -2 ("*child diary - no secondary activity required*").

The variable Dtype (diary type) - which has the values 0 and 1 for 'child diary' and 'adult diary' respectively - had an extra code '2' added for '*adult completed child diary*'. There was no separate code for '*children completing adult diaries*' - these were given the normal child diary code (Dtype = 0).

Recoding the 'who were you with' questions

For adults completing child diaries (Dtype = 2), the 'who with' data was transcribed from the child fields to the adult fields. And conversely, for children completing adult diaries (Dtype = 0) the 'who with' data is in the child fields. Note that Dtype is useful in indicating where on the data file the 'who with' data is located ie when Dtype = 0 it is in the child fields, and when it is 1 or 2 it is in the adult fields. Since Dtype was originally created a number of ages have been corrected, moving people between adult and child categories - but DType still indicates the location of the 'who with' data.

With the different types of diary across all ages, it is simplest in any analysis to ignore diary type and accept that there will simply be some extra missing data for some fields for those completing the wrong type of diary.

Swapping primary and secondary activities

In a number of cases activities were coded as a secondary activity when by our coding rules they should have been coded as a primary activity. In such cases the primary and secondary activities were swapped. For instance, if during a lunch break at work a respondent went shopping, 'shopping' should be recorded as the main activity and 'lunch break' as the secondary activity.

Deleting secondary activity

Secondary activities should not have been recorded by adults when the primary activity was work, study or sleep. For all cases when adults' primary activities were work, study or sleep, secondary activities were recoded to -9 ("*no secondary activity required*").

Automatic editing of missing activities

There was editing of time-slots to improve the quality of diaries. For time-slots with the activity code 997 ("*blank - coder has some idea of activity*") it was found that the respondent had recorded the start of an activity but not used arrows as instructed to indicate that it had continued. On these diaries the blanks (up to an hour) were replaced with the previous activity. The overall effect was that the number of missing time-slots was reduced from 1.6% to 1.2% of all time-slots.

5 Diary Episode data file

The 'diary episode' data file is based on the diary data file. The diary time-slot data is converted into 'episodes' ie rather than having the activity and other details for each 10 minute time-slot, we instead have fields for each activity, together with the start and stop times in separate fields.

All other details are as for the diary file.

There are 20,981 records, with 19,898 of these of the required standard for analysis by ONS. The indicator field (dry_ind) near the end of the data file indicates which records meet this standard.

Attached to the data file are variables from the household file (eg age, sex, region, household counts, household reference person, household income & household type) and the individual file (eg economic activity, income, working hours, occupation classification, social class and highest education qualification).

Weights

The episode file has the same weights that are on the diary file. As before, if analysis is carried out with the weighting variable 'on' this automatically ensures that just the 19,898 records are included in the analysis.

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Structure of files for TUS 2000 - DIARY

- This document refers to the file diary_data_8, dated 3 July 2003 .
- Each record records main activity, secondary activity, location and who the person was with for each 10 minute time slot over 24hrs.
- Each person in the household aged 8yrs or more were asked to complete diaries (child diary if 8-13yrs, adult diary for rest) for two days (weekday, and weekend day).

SUMMARY OF SECTIONS & VARIABLES

| Section | Description/ comments |
|--|---|
| Serial number | SN1, SN2, SN3, SN4 There are 20981 records on the file. |
| Diary details | Diary type (adult/ child), diary date and day of week. |
| Diary time slots | For each 10 min time slot (144 time slots) we record main activity, secondary activity, location, and who with. There are 7 separate 'who with' fields for adult diaries, and 6 for child diaries. |
| Questions at end of diary | Questions on location of person at start/ end of diary, whether at work/school, anything unusual on diary day, etc |
| Summary variables | These variables record total time for each code in each time slot field: main activity (totals for each of @ 250 codes) secondary activity, location, and totals for each 'who with' field. |
| Person/ diary characteristics | Age, sex, ethnic group, weekday/weekend |
| Variables added from household questionnaire | This is the standard selection of hhld variables added to each data file, and includes: region, counts of adults & children in the hhld, HRP, spouse, tenure, car availability, gross household income and household type. |
| Variables added from person questionnaire | This is the standard selection of person variables added to each data file, and includes: economic activity, net income, hours worked, SOC & SIC, NSSEC and highest education qualification. |
| Mosaic & ISBA classification | The household location is categorised by MOSAIC codes and ISBA codes |
| Proximity data | Distance to nearest facility |
| Analysis indicator | Indicator of which diaries are unsuitable for inclusion in analysis because eg of too much missing data. |
| Weights | New weights based on 2001 Census and with new diary eligibility criteria |

VARIABLES IN DETAIL

| Field name | Fuller name | Description/ comments |
|--|-------------------|--|
| FRONT COVER - SERIAL NUMBER, DATE & DAY | | |
| SN1 | Point number | Area / quota indicator |
| SN2 | Household number | |
| SN3 | Person number | Person number from hhld grid on hhld file |
| SN4 | Day number | Each person was asked to complete diaries for 2 separate days (weekday & weekend day), so this has the values 1 or 2. SN1 + SN2 + SN3 + SN4 is the unique serial number for each record. There are 20981 records on the file. |
| Dtype | Diary type | Adult diary or child diary (also indicates adult keeping child diary). |
| Dday, DMonth, DYear | Diary date | Date of diary day - day, month & year in 3 separate fields. This replaces single field DDATE. |
| DDayofWk | Diary day of week | Day of week Monday - Sunday. The days are now numbered 1 - 7, replacing the previous day numbers 0 - 6. |

| DIARY TIME SLOTS | | |
|---|--------------------|---|
| <p>Each 10 min time slot is described by the 11 fields (7 describe 'who with'), For the first time slot they are: act1_001, act2_001, wher_001, wit0_001, wit1_001, wit1_001, wit2_001, wit3_001, wit4_001, wit5_001, wit6_001</p> | | |
| Act1_001 .. Act1_144 | Main activity | <p>Main activity 4.00-4.10 am etc (144*10 min time slots in 24 hrs).</p> <p>See the separate coding list for the timeuse activity codes. All time slots must have a main activity - there are no missing values.</p> |
| Act2_001 .. Act2_144 | Secondary activity | <p>Secondary activity 4.00-4.10 am etc</p> <p>Activities are coded to the same coding frame as the main activity. Additionally, there are a number of different missing codes:</p> <ul style="list-style-type: none"> -9 Primary activity = work / study / asleep - no secondary activity required -1 No secondary activity recorded -2 Child diary – no secondary activity required. <i>As well as children 8-13 completing child diaries, this also includes adults who completed child diaries.</i> |
| Wher_001 .. Wher_144 | Location | <p>Where respondent was (incl mode of transport)</p> <p>Codes range from 0 - 32 (see separate coding frame). Additionally there is one 'missing' code:</p> <ul style="list-style-type: none"> -9 Primary activity = work / study / asleep - no location code required <p>There are also variables (see later in file) which summarise each code: Loc_00 to Loc_32, loc_NA.</p> |
| <p>Who diary-keeper was with – adult diaries</p> <p>These are separate questions - so a person can eg say they are both with children 0-9 and with children 10-14. Codes are '1' for 'yes' and '0' for 'no'.</p> | | |
| Wit0_001 .. Wit0_144 | Who with | Alone with people don't know |
| Wit1_001 .. Wit1_144 | Who with | With children 0-9 from household |
| Wit2_001 .. Wit2_144 | Who with | With children 10-14 from household |
| Wit3_001 .. Wit3_144 | Who with | With other household members |
| Wit4_001 .. Wit4_144 | Who with | With others you know |
| Wit5_001 .. Wit5_144 | Who with | At work / study / asleep - 'who with' not required |
| Wit6_001 .. Wit6_144 | Who with | No answer |
| <p>Who diary-keeper was with – child diaries</p> | | |
| Kid01 .. Kid0144 | Who with | Alone |
| Kid11 .. Kid1144 | Who with | With parents |
| Kid21 .. Kid2144 | Who with | With other people from household |
| Kid31 .. Kid3144 | Who with | With others you know |
| Kid41 .. Kid4144 | Who with | At work / study / asleep - 'who with' not required |
| Kid51 .. Kid5144 | Who with | no answer |

| QUESTIONS AT END OF ADULT DIARY | | |
|--|--|--|
| Da@Q1a | | Q1a: Did you help someone from outside the hhld? |
| Dq1b@1 to Dq1b@8 | | Q1b: Start and stop times for 4 separate periods of help |
| Da@Q2 | | Q2: When was the diary filled in? <i>during diary day, at end off day, next day, later.</i> |
| Da@Q3 | | Q3: Location at START of diary day <i>at home, elsewhere</i> |
| Da@Q4 | | Q4: Location at END of diary day <i>at home, elsewhere</i> |
| @Da@q5a1 to Da@q5a4 | | Q5a: Whether in paid work, or at school/college |
| Da@Q5b | | Q5b: Were you working on the diary day? <i>yes, no - weekend, no - on leave, no - sick</i> |
| Da@Q6 | | Q6: Was the diary day during TERM or holidays? |
| Da@Q7a | | Q7a: Were you on a TRIP on the diary day? <i>no, yes- day trip, yes - overnight, yes - this country, yes - abroad</i> |
| Da@Q7b@C | | Q7b: Name of country visited? |
| Da@Q8 | | Q8: Was the diary day UNUSUAL? |
| Da@Q8@1 to Da@Q8@5 | | Q8: Reasons for unusual day (max of 5 recorded) |
| Da@Q9 | | Q9: Any PROBLEMS filling in the diary? |
| Da@Q9@1 to Da@Q9@5 | | Q9: Problems filling in the diary (max of 5 recorded) |
| QUESTIONS AT END OF CHILD DIARY | | |
| DK@Q1 | | Q1: When was the diary filled in? <i>during diary day, at end off day, next day, later.</i> |
| DK@Q2 | | Q2: Location at START of diary day <i>at home, elsewhere</i> |
| DK@Q3 | | Q3: Location at END of diary day <i>at home, elsewhere</i> |
| DK@Q4 | | Q4: Was the diary day during TERM or holidays? |
| DK@Q5 | | Q5: Was the diary day UNUSUAL? |
| DK@Q5@1 to DK@Q5@5 | | Q5: Reasons for unusual day (max of 5 recorded) |
| DK@Q6 | | Q6: Did anyone HELP you filling in the diary? |

| SUMMARY VARIABLES | | |
|---|--|--|
| ACTIVITY: total time in each activity | | |
| DmL1@0 .. DmL1@9a, DmL1@9b | | main (primary) activities – 1 digit codes Note that code 9 is spilt into 'travel' and 'other/ unknown'. |
| DsL1@0 .. DsL1@9a, DsL1@9b | | secondary activities – 1 digit codes Note that code 9 is spilt into 'travel' and 'other/ unknown'. |
| DmL2@00 .. DmL2@99 | | main (primary) activities – 2 digit codes |
| DsL2@00 .. DsL2@99 | | secondary activities – 2 digit codes |
| DmL3@000..DmL3@999 | | main (primary) activities – 3 digit codes |
| DsL3@000 .. DsL3@999 | | secondary activities – 3 digit codes |
| Dm4@1391 ..Dm4@8319 | | main (primary) activities – 4 digit codes |
| Ds4 @1391.. Ds4@8319 | | secondary activities – 4 digit codes |
| MTotTime | | Total time on main (primary) activities. This totals 1440 minutes for all. |
| STotTime | | Total time on secondary activities |
| LOCATION: total time in each location (incl travelling) | | |
| loc_00 to loc_32 | | Total time for each location code |
| loc_NA | | Main actvty = sleep/work/study - location not required |
| sum_loc | | Sum of time spent at each location (= 1440 mins) |
| WHO WITH: Total Time for each 'Who were you with' question | | |
| Adult diaries | | |
| A_Alone | | alone with people don't know |
| A_WCh9 | | with children 0-9 from household |
| A_WCh14 | | with children 10-14 from household |
| A_WOthH | | with other household members |
| A_WOthP | | with others you know |
| A_Asleep | | Main actvty = sleep/work/study - 'Who with' not required |
| A_NoAns | | No answer to 'Who were you with?' questions |
| A_TotWth | | Sum of "Who were you with? questions |
| Child diaries | | |
| K_Alone | | alone with people don't know |
| K_WPar | | with parents |
| K_WOthH | | with other household members |
| K_WOthP | | with others you know |
| K_Asleep | | Main actvty = sleep/work/study - 'Who with' not required |
| K_NoAns | | No answer to 'Who were you with?' questions |
| K_TotWth | | Sum of "Who were you with? questions |

| PERSON/ DIARY CHARACTERISTICS | | |
|--------------------------------------|-----------------------------|--|
| Dage | Age of respondent | Age as on household grid |
| DAgeGrp | Age group of respondent | Recode of Dage. 5 age groups: 8-15yrs, 16-24yrs, 25-44yrs, 45-64yrs, 65yrs or more. Note the age group fields dage2, dage5, dageA, dageC from the previous version of the file have been deleted. |
| Dsex | Sex | Sex as on household grid. Note codes have been changed from 0 & 1 (for male & female) to 1 & 2 - to be consistent with sex codes used on other data files. |
| Dethnic | Ethnic group | As on household grid |
| DdayW | Weekday, Saturday or Sunday | DdayofWk recoded into 3 values only |
| DdayW2 | Weekday or weekend | DdayofWk recoded into 2 values only |

| VARIABLES ADDED FROM HOUSEHOLD FILE (this is the standard 'package' of hhld variables) | | |
|---|---|---|
| hday, hmonth, hyear | Day, month & year of household interview | |
| gorpaf gorpaf2 gorpaf3 | Government Office Region | GOR in 12 categories, 8 categories and 4 categories (countries) respectively. |
| pop_den | Population density | There has been a small name change - on the previous file this variable was called pop._den. Units are persons per 10 hectares, and uses the 1991 Census data for postcode sector. |
| pop_den2 | Population density - bands | New variable. Recode of pop_den into bands |
| unemp | Unemployment rate | On the previous file this variable was called 'unemploy', and it was a string. Unemp is now numeric, and a percentage. |
| unemp2 | Unemployment rate - bands | New variable. Recode of unemp |
| COUNTS OF ADULTS & CHILDREN - GENERAL | | |
| These 'hhld count' fields have replaced the various 'hhld count' fields on the previous version of this data file: noresp, guardian, Pnumb, Plus8, adult01 to adult10, kid01 to kid10. | | |
| HNumb | Number of people in household | Counted from hhld grid |
| NumAdult | Number of ADULTS in household | New variable. Count of 16yrs or more from hhld grid. |
| NumChild | Number of CHILDREN in hhld | New variable. Count of 0 - 15yrs from hhld grid. |
| COUNTS - AGE GROUPS FOR YOUNG PEOPLE | | |
| Child | Whether child 0 - 15yrs in hhld | From hhld grid. |
| AgeYngst | Age group of youngest person in household | New variable. From hhld grid. |
| Num0_2 | Number of children 0 - 2 yrs | New variable. Counted from hhld grid. Note the field Kids0to7 from the previous version of the file has been deleted and replaced by these fields. |
| Num3_4 | Number of children 3 - 4 yrs | New variable. Counted from hhld grid. |
| Num5_9 | Number of children 5 - 9yrs | New variable. Counted from hhld grid. |
| Num10_15 | Number of children 10-15yrs | New variable. Counted from hhld grid. |
| Num16_17 | Number of young adults 16-17yrs | New variable. Counted from hhld grid. |

| HOUSEHOLD REFERENCE PERSON & SPOUSE | | |
|--|--|--|
| HRP_per | Person number of household reference person | New variable. Based on questions hq2a and hq2b |
| Spouse1, Spouse2 | Person numbers of spouses | New variable. For hhlds with one married/ cohabiting couple, person number of each spouse identified. |
| TENURE | | |
| Tenure2 | Tenure - 3 categories | New variable. Recode of tenure |
| CAR/ MOTOR VEHICLE OWNERSHIP | | |
| CarAvail | Ownership/ use of car or other motor vehicle | Renamed variable - replaces OwnCar. New name clarifies that includes those who have use of a vehicle as well as ownership. This is a recoded version of question hq6a. |
| INCOME | | |
| GrosHinc | Gross household income - annual | New variable. 11 income bands. A straight copy of question hq10b, given a more helpful name. |
| HOUSEHOLD TYPE | | |
| Hhtype4 | Household type - 16 categories | This replaces HHtype & HHType2 from the previous version of the data file. Based on relationships on household grid eg single person hhld, married with children, married without children, cohabit, unrelated adults, etc See also LivArr from person file. |
| Hhtype5 | Household type - 8 categories | Hhtype4 recoded into 8 categories. |

| VARIABLES ADDED FROM PERSON QUESTIONNAIRE (this is the standard 'package' of person variables) | | |
|---|---|--|
| Manage2 | Management responsibilities | New variable. Indicates whether a manager, supervisor or have no management responsibilities |
| EconAct, EconAct3 | Economic activity | New variables (replaces EmpStat). EconAct has the broadest categories (employed, unemployed, econ inactive). EconAct3 adds further distinctions eg full-time, part-time, retired, studying, etc. |
| EmpIncBd SEIncBd TotPInc | NET monthly personal income - banded | New variables. 3 income variables - for employees, for self-employed, then for both combined. See also gross household income (GrosHInc) . |
| Hrs_UnPd, Hrs_Job1, Hrs_Job2, Hrs_Tot, Hrs_Grp | Weekly hours worked | New variables. 5 variables - unpaid work, main job, second job, total hrs worked (for unpaid + main job + second job), then total hours grouped into 8 categories. |
| SIC | SIC for respondent's MAIN job | Standard Industrial Classification (4 digit, 1992). Industry labels have been added. |
| SOC | SOC for respondent's MAIN job | Standard Occupational Classification (2000). Occupation labels have been added. |
| SIC2 | SIC for respondent's SECOND job | Standard Industrial Classification (4 digit, 1992). Industry labels have been added. |
| SOC2 | SOC for respondent's SECOND job | Standard Occupational Classification (2000). Occupation labels have been added. |
| NSSECB, NSSECB_8, NSSECB_5, NSSECB_3 | National Statistics Socio-Economic Classification | 4 variables - full classification, 8 categories, 5 categories & 3 categories. NSSEC from the previous data file has been recalculated, re-labelled and re-created as a numeric field and is now named NSSECB. |
| HiQual4 | Highest Education qualification | Replaces Hiqual. Hiqual4 now includes a category for those with no qualifications. |
| AgeLeft | Age left full-time education (grouped) | New variable This is Q23a banded. |
| LivArr | Living arrangements | Living arrangement as reported by respondent on the person qnre at questions 55 & 56 eg married, cohab, single, divorced, etc. Field Imarstat has been removed - LivArr covers it. See also HHTYPE4 & HHTYPE5. |
| ProvCare | Whether cares for elderly/ sick person | New variable. Based on Q45 & Q47 from person qnre. |

| MOSAIC & ISBA CLASSIFICATION | | |
|---|---|---|
| MGroup, MType, MGrpPC, MTypePC | Mosaic categories | Mosaic group and Mosaic type - first at household level, then at postcode level eg suburban semis, blue collar owners, stylish singles, etc... |
| ISBA | ISBA code | Area classification used by British Advertisers. eg Northern Scotland, Central Scotland, Border, North East, etc... |
| PROXIMITY DATA | | |
| Cinema, Theatre, Sport, Shopping, Grocery, School | Distance (banded) to nearest facility | New variables |
| ANALYSIS & WEIGHTS | | |
| Tot_epis | Total number of episodes | New variable. By our definition a new episode is defined if any of the details change from one time slot to the next ie if main activity, secondary activity, location, or who the person was with changes. |
| Misstime | Total amount of missing time for that diary day | New variable. Missing time is defined as the sum of main activity codes 996 and 997. |
| Dry_Ind | Suitability of diaries for analysis - indicator field | New variable. ONS excludes diaries from analysis which have fewer than 5 episodes or more than 90 minutes of missing time. This field indicates such diaries. Out of 20981 records on this file, 19898 are considered suitable for analysis (26 have fewer than 5 episodes and 1057 have more than 90 mins missing). Note that the new diary weights are based on just those diaries ONS normally selects for analysis. |
| WtDry_gr WtDry_ug | Diary weights - grossed and ungrossed | New weights. Grossed and ungrossed weights respectively. These use the new 2000 population estimates based on the 2001 Census. Diaries with fewer than 5 episodes or with more than 90 mins missing are counted as non-response - 19898 diaries are therefore treated as response. Non-response by time of year (season) has been incorporated directly in these weights. All the fields to do with the old weights have been deleted: season, seasday, wtresp, wght1ug, wght1g, wghtseas, wght2g, wght2ug DChg_Ind has also been deleted - that indicated diaries where age & sex had been changed since the weights were calculated for the first data delivery (April 2002). |

Structure of files for TUS 2000 - DIARY EPISODE

- This document refers to the file diary_data_8_episode, dated 3 July 2003 .
- This data file was created from the main diary file, which holds data for each 10 minute time slot over 24hrs. A new episode is defined if ANY of the details (main activity, secondary activity, location or who with) change from one ten minute time slot to the next.

SUMMARY OF SECTIONS & VARIABLES

| Section | Description/ comments |
|--|---|
| Serial number | SN1, SN2, SN3, SN4 There are 20981 records on the file. |
| Diary details | Diary type (adult/ child), diary date and day of week. |
| Diary episodes | For each episode (up to a maximum of 99) we record main activity, secondary activity, location, who with and start and end times. |
| Person/ diary characteristics | Age, sex, ethnic group, weekday/weekend |
| Variables added from household questionnaire | This is the standard selection of hhld variables added to each data file, and includes: region, counts of adults & children in the hhld, HRP, spouse, tenure, car availability, gross household income and household type. |
| Variables added from person questionnaire | This is the standard selection of person variables added to each data file, and includes: economic activity, net income, hours worked, SOC & SIC, NSSEC and highest education qualification. |
| Mosaic & ISBA classification | The household location is categorised by MOSAIC codes and ISBA codes |
| Proximity data | Distance to nearest facility |
| Analysis indicator | Indicator of which diaries are unsuitable for inclusion in analysis because eg of too much missing data. |
| Weights | New weights based on 2001 Census and with new diary eligibility criteria |

VARIABLES IN DETAIL

| Field name | Fuller name | Description/ comments |
|--|-------------------|---|
| FRONT COVER - SERIAL NUMBER, DATE & DAY | | |
| SN1 | Point number | Area / quota indicator |
| SN2 | Household number | |
| SN3 | Person number | Person number from hhld grid on hhld file |
| SN4 | Day number | Each person was asked to complete diaries for 2 separate days (weekday & weekend day), so this has the values 1 or 2. SN1 + SN2 + SN3 + SN4 is the unique serial number for each record. There are 20981 records on the file. |
| Dtype | Diary type | Adult diary or child diary (also indicates adult keeping child diary). |
| Dday, DMonth, DYear | Diary date | Date of diary day - day, month & year in 3 separate fields. This replaces single field DDATE. |
| DDayofWk | Diary day of week | Day of week Monday - Sunday. The days are now numbered 1 - 7, replacing the previous day numbers 0 - 6. |

| DIARY EPISODES | | |
|--|--|--|
| Each episode is described by fields equivalent to those describing each 10 min time slot. | | |
| EvAct1 .. EvAct99 | Main activity for up to 99 episodes | See the separate coding list for the timeuse activity codes. |
| EsAct1 .. EsAct99 | Secondary activity for up to 99 episodes | Activities are coded to the same coding frame as the main activity. Where there is no secondary activity 'system missing' is recorded (NB there are no codes -9, -1 or -2 as on the main diary file). |
| EWher1 .. EWher9 | Location for up to 99 episodes | Where respondent was (incl mode of transport) for each episode Codes range from 0 - 32 (see separate coding frame). When the main activity is work /study /sleep no location code is required, and 'system missing' is recorded (NB the main diary file records -9 in such cases). |
| Who diary-keeper was with – adult diaries | | |
| These are separate questions - so a person can eg say they are both with children 0-9 and with children 10-14. Codes are '1' for 'yes' and '0' for 'no'. | | |
| EWit01 .. EWit099 | Who with | Alone with people don't know |
| EWit11 .. EWit199 | Who with | With children 0-9 from household |
| EWit21 .. EWit299 | Who with | With children 10-14 from household |
| EWit31 .. EWit399 | Who with | With other household members |
| EWit41 .. EWit499 | Who with | With others you know |
| EWit51 .. EWit599 | Who with | At work / study / asleep - 'who with' not required |
| EWit61 .. EWit699 | Who with | No answer |
| Start and end times of each episode | | |
| EvST1 .. EvST99 | Time episode started | |
| EvND1 .. EvND99 | Time episode ended | |
| Who diary-keeper was with – child diaries | | |
| EKid01 .. EKid099 | Who with | Alone |
| EKid11 .. EKid199 | Who with | With parents |
| EKid21 .. EKid299 | Who with | With other people from household |
| EKid31 .. EKid399 | Who with | With others you know |
| EKid41 .. EKid499 | Who with | At work / study / asleep - 'who with' not required |
| EKid51 .. EKid599 | Who with | no answer |

| PERSON/ DIARY CHARACTERISTICS | | |
|--------------------------------------|-----------------------------|--|
| Dage | Age of respondent | Age as on household grid |
| DAgeGrp | Age group of respondent | Recode of Dage. 5 age groups: 8-15yrs, 16-24yrs, 25-44yrs, 45-64yrs, 65yrs or more. Note the age group fields dage2, dage5, dageA, dageC from the previous version of the file have been deleted. |
| Dsex | Sex | Sex as on household grid. Note codes have been changed from 0 & 1 (for male & female) to 1 & 2 - to be consistent with sex codes used on other data files. |
| Dethnic | Ethnic group | As on household grid |
| DdayW | Weekday, Saturday or Sunday | DdayofWk recoded into 3 values only |
| DdayW2 | Weekday or weekend | DdayofWk recoded into 2 values only |

| VARIABLES ADDED FROM HOUSEHOLD FILE (this is the standard 'package' of hhld variables) | | |
|---|---|--|
| hday, hmonth, hyear | Day, month & year of household interview | |
| gorpaf gorpaf2 gorpaf3 | Government Office Region | GOR in 12 categories, 8 categories and 4 categories (countries) respectively. |
| pop_den | Population density | There has been a small name change - on the previous file this variable was called pop._den. Units are persons per 10 hectares, and uses the 1991 Census data for postcode sector. |
| pop_den2 | Population density - bands | New variable. Recode of pop_den into bands |
| unemp | Unemployment rate | On the previous file this variable was called 'unemploy', and it was a string. Unemp is now numeric, and a percentage. |
| unemp2 | Unemployment rate - bands | New variable. Recode of unemp |
| COUNTS OF ADULTS & CHILDREN - GENERAL | | |
| HNumb | Number of people in household | Counted from hhld grid |
| NumAdult | Number of ADULTS in household | New variable. Count of 16yrs or more from hhld grid. |
| NumChild | Number of CHILDREN in hhld | New variable. Count of 0 - 15yrs from hhld grid. |
| COUNTS - AGE GROUPS FOR YOUNG PEOPLE | | |
| Child | Whether child 0 - 15yrs in hhld | From hhld grid. |
| AgeYngst | Age group of youngest person in household | New variable. From hhld grid. |
| Num0_2 | Number of children 0 - 2 yrs | New variable. Counted from hhld grid. Note the field Kids0to7 from the previous version of the file has been deleted and replaced by these fields. |
| Num3_4 | Number of children 3 - 4 yrs | New variable. Counted from hhld grid. |
| Num5_9 | Number of children 5 - 9yrs | New variable. Counted from hhld grid. |
| Num10_15 | Number of children 10-15yrs | New variable. Counted from hhld grid. |
| Num16_17 | Number of young adults 16-17yrs | New variable. Counted from hhld grid. |

| HOUSEHOLD REFERENCE PERSON & SPOUSE | | |
|--|--|--|
| HRP_per | Person number of household reference person | New variable. Based on questions hq2a and hq2b |
| Spouse1, Spouse2 | Person numbers of spouses | New variable. For hhlds with one married/ cohabiting couple, person number of each spouse identified. |
| TENURE | | |
| Tenure2 | Tenure - 3 categories | New variable. Recode of tenure |
| CAR/ MOTOR VEHICLE OWNERSHIP | | |
| CarAvail | Ownership/ use of car or other motor vehicle | Renamed variable - replaces OwnCar. New name clarifies that includes those who have use of a vehicle as well as ownership. This is a recoded version of question hq6a. |
| INCOME | | |
| GrosHinc | Gross household income - annual | New variable. 11 income bands. A straight copy of question hq10b, given a more helpful name. |
| HOUSEHOLD TYPE | | |
| Hhtype4 | Household type - 16 categories | This replaces HHtype & HHType2 from the previous version of the data file. Based on relationships on household grid eg single person hhld, married with children, married without children, cohabit, unrelated adults, etc See also LivArr from person file. |
| Hhtype5 | Household type - 8 categories | Hhtype4 recoded into 8 categories. |

| VARIABLES ADDED FROM PERSON QUESTIONNAIRE (this is the standard 'package' of person variables) | | |
|---|---|--|
| Manage2 | Management responsibilities | New variable. Indicates whether a manager, supervisor or have no management responsibilities |
| EconAct, EconAct3 | Economic activity | New variables (replaces EmpStat). EconAct has the broadest categories (employed, unemployed, econ inactive). EconAct3 adds further distinctions eg full-time, part-time, retired, studying, etc. |
| EmpIncBd SEIncBd TotPInc | NET monthly personal income - banded | New variables. 3 income variables - for employees, for self-employed, then for both combined. See also gross household income (GrosHInc) . |
| Hrs_UnPd, Hrs_Job1, Hrs_Job2, Hrs_Tot, Hrs_Grp | Weekly hours worked | New variables. 5 variables - unpaid work, main job, second job, total hrs worked (for unpaid + main job + second job), then total hours grouped into 8 categories. |
| SIC | SIC for respondent's MAIN job | Standard Industrial Classification (4 digit, 1992). Industry labels have been added. |
| SOC | SOC for respondent's MAIN job | Standard Occupational Classification (2000). Occupation labels have been added. |
| SIC2 | SIC for respondent's SECOND job | Standard Industrial Classification (4 digit, 1992). Industry labels have been added. |
| SOC2 | SOC for respondent's SECOND job | Standard Occupational Classification (2000). Occupation labels have been added. |
| NSSECB, NSSECB_8, NSSECB_5, NSSECB_3 | National Statistics Socio-Economic Classification | 4 variables - full classification, 8 categories, 5 categories & 3 categories. NSSEC from the previous data file has been recalculated, re-labelled and re-created as a numeric field and is now named NSSECB. |
| HiQual4 | Highest Education qualification | Replaces Hiqual. Hiqual4 now includes a category for those with no qualifications. |
| AgeLeft | Age left full-time education (grouped) | New variable This is Q23a banded. |
| LivArr | Living arrangements | Living arrangement as reported by respondent on the person qnr at questions 55 & 56 eg married, cohab, single, divorced, etc. Field Imarstat has been removed - LivArr covers it. See also HHTYPE4 & HHTYPE5. |
| ProvCare | Whether cares for elderly/ sick person | New variable. Based on Q45 & Q47 from person qnr. |

| MOSAIC & ISBA CLASSIFICATION | | |
|---|---|---|
| MGroup, MType, MGrpPC, MTypePC | Mosaic categories | Mosaic group and Mosaic type - first at household level, then at postcode level eg suburban semis, blue collar owners, stylish singles, etc... |
| ISBA | ISBA code | Area classification used by British Advertisers. eg Northern Scotland, Central Scotland, Border, North East, etc... |
| PROXIMITY DATA | | |
| Cinema, Theatre, Sport, Shopping, Grocery, School | Distance (banded) to nearest facility | New variables |
| ANALYSIS & WEIGHTS | | |
| Tot_epis | Total number of episodes | New variable. By our definition a new episode is defined if any of the details change from one time slot to the next ie if main activity, secondary activity, location, or who the person was with changes. |
| Misstime | Total amount of missing time for that diary day | New variable. Missing time is defined as the sum of main activity codes 996 and 997. |
| Dry_Ind | Suitability of diaries for analysis - indicator field | New variable. ONS excludes diaries from analysis which have fewer than 5 episodes or more than 90 minutes of missing time. This field indicates such diaries. Out of 20981 records on this file, 19898 are considered suitable for analysis (26 have fewer than 5 episodes and 1057 have more than 90 mins missing). Note that the new diary weights are based on just those diaries ONS normally selects for analysis. |
| WtDry_gr WtDry_ug | Diary weights - grossed and ungrossed | New weights. Grossed and ungrossed weights respectively. These use the new 2000 population estimates based on the 2001 Census. Diaries with fewer than 5 episodes or with more than 90 mins missing are counted as non-response - 19898 diaries are therefore treated as response. Non-response by time of year (season) has been incorporated directly in these weights. All the fields to do with the old weights have been deleted: season, seasday, wtresp, wght1ug, wght1g, wghtseas, wght2g, wght2ug DChg_Ind has also been deleted - that indicated diaries where age & sex had been changed since the weights were calculated for the first data delivery (April 2002). |

Structure of files for TUS 2000 - HOUSEHOLD

- This document refers to the file hhld_data_6, dated 18/06/2003 .
- The data file covers household structure, tenure, type of accommodation, ownership of hhld goods, car ownership, household income, help received from others, etc .
- One questionnaire per household

SUMMARY OF SECTIONS & VARIABLES

| Section | Description/ comments |
|-------------------------------|---|
| Serial number | SN1 & SN2 There are 6414 records on the file. |
| Household Grid | Sex, age, ethnic group & relationships |
| HRP | Standard HRP questions: - Who owns/ rents accommodation? - Who is highest earner? |
| Tenure | Tenure: own/buy/rent accommodation? |
| Ownership of hhld goods | TV, video, CD player, computer, dishwasher, microwave, etc |
| Internet access | |
| Cars/ vehicles | Ownership/use of cars/vehicles |
| Own plants | Whether grow own fruit and vegetables |
| DIY | Whether do own DIY |
| Receiving help from others | Type of help received (eg childcare, cleaning, gardening) Who provides help How often help provided How much time spent helping Whether help paid for |
| Income | Sources of household income Gross annual household income |
| Childcare | Which adults are responsible for children |
| Type of accommodation | Whether house, flat etc |
| Date of interview | |
| DERIVED VARIABLES | |
| Region | |
| Population density | |
| Unemployment rate | |
| Household counts | Counts of adults & children |
| HRP | Household Reference Person |
| Household Type | Single person hhld, married with children, married without children, single parent, unrelated adults, etc |
| RESPONSE & WEIGHTS | |
| Response | Response to questionnaire, diary & worksheet |
| Weights | Household level weights for diary and worksheet response |

VARIABLES IN DETAIL

| Field name | Fuller name | Description/ comments |
|---|---|---|
| FRONT COVER - SERIAL NUMBER | | |
| SN1 | Point number | Area / quota indicator |
| SN2 | Household number | <p>SN1 + SN2 create a unique serial number for each record. Only one hhd per address was interviewed, so address number on sample file = household number here.</p> <p>SN3 (person) & SN4 (day) were on previous version of file, but served no purpose and have been deleted.</p> <p>There are 6414 records on the file.</p> |
| HOUSEHOLD GRID (details of up to 10 people recorded) | | |
| hsex01 to hsex10 | Sex of person 1 to person 10 | |
| age01 to age10 | Age of person 1 to person 10 | Age in years |
| hqf01 to hqf10 | Ethnic group for person 1 to person 10 | |
| rel01@02 to rel01@10 to rel10@01 to rel10@09 | Relationships | All relationships to others in the household coded for each person. eg rel01@02 to rel01@10 are nine fields for relationships of person 1 to persons 2 to 9 respectively. |
| hqh | Any non-hhld members staying for 7 nights or more? | yes/ no |
| hqi | Number of non-household members staying for 7 nights or more? | |
| hqj | Expected length of stay of non-household members | In weeks. |

| HOUSEHOLD REFERENCE PERSON (HRP) QUESTIONS | | |
|---|--|--|
| hq2a01 to hq2a10 | In whose name is the accommodation owned or rented? | <p>This is a multicode question recoded into 10 'yes/no' fields, one for each possible household person.</p> <ul style="list-style-type: none"> the previous data file included two extra fields (hq2a11 & hq2a12) for DKs & Refusals respectively. These have been deleted and the codes for DK & refusal have been added to each question. Answers had previously been coded as NO when there was no such person on hhld grid - these have been changed to missing (-1). |
| hq2b01 to hq2b10 | Who has the highest income? | <p>This is a multicode question recoded into 10 'yes/no' fields, one for each possible household person.</p> <p>Only asked if 2 or more people say they jointly own or rent accommodation, or if they refuse to say who owns/rents.</p> <p>We do not ask one person hhlds or those where the respondent does not know who owns/rents.</p> <ul style="list-style-type: none"> the previous data file included two extra fields (hq2b11 & hq2b12) for DKs & Refusals respectively. These have been deleted and one code for 'DK/refusal' has been added to each question. Answers had previously been coded as NO when there was no such person on hhld grid - these have been changed to missing (-1). <p>The variable indicating the HRP is at the end of the file .</p> <p>THESE QUESTIONS WERE OUT OF SEQUENCE ON THE PREVIOUS VERSION OF THIS DATA FILE - NOW BACK IN PLACE</p> |
| TENURE | | |
| hq3a | In which of these ways do you occupy this accommodation? | <p>eg whether own/ buying / renting/ etc.</p> <p>This important variable has been copied to the new and clearly named variable TENURE, located at the end of the file.</p> |
| hq3b | Who is your landlord? | |

| OWNERSHIP OF HOUSEHOLD GOODS | | |
|--|---|--|
| Does your household have any of the following items...? | | |
| hq4a@1 | Colour TV | Distinguishes between one and more than one. |
| hq4a@2 | Black & white TV | Distinguishes between one and more than one. |
| hq4b@1 to hq4b@13 | | Various household items. Coded as 'yes/no'. |
| INTERNET ACCESS | | |
| hq5a | Does your hhld have access to the internet at home? | |
| hq5b01 to hq5b05 | Type of internet access | This is a multi-code question recoded to separate variables, one for each possible answer. The separate variables created for DK and REFUSE (hq5b06 & hq5b07) have been deleted and their answers incorporated in the other 5 variables. |
| hq5bi | Can you access web from home? | |
| hq5c | Do any of you use the internet to LOOK FOR goods or services? | |
| hq5d | Do any of you use the internet to BUY goods or services? | |
| hq5e | How do you pay for goods ordered over internet? | |

| HOUSEHOLD VEHICLES | | |
|--|--|---|
| hq6a | Does household own/ have continuous use of any motor vehicles | This important variable has been copied to the new and more clearly named variable CARAVAIL , located at the end of the file. |
| hq6b | Number of vehicles in household | |
| | Description of each vehicle | This is question hq6c. Not on data file |
| hq6d01 to hq6d10 | Vehicle type | Car, van, motorcycle, other - for up to 10 vehicles |
| hq6e01 to hq6e10 | Ownership of each vehicle | For up to 10 vehicles |
| hq6f01 to hq6f10 | Main driver of each vehicle | Person number entered - for up to 10 vehicles |
| hq6g01a to hq6g01j, hq6g01K, hq6g01L to hq6g10a to hq6g10j, hq6g10K, hq6g10L | Who else drives vehicle 01 ? to Who else drives vehicle 10 ? | Separate 'yes/ no' variables created for 10 people, then extra variables for 'No answer' and 'Refuse'. These variables repeated for 10 vehicles. |
| OWN PLANTS | | |
| hq7a | Grow own fruit or veg? | |
| hq7b | How much of your own fruit or veg do you eat in a year? | |
| DIY | | |
| hq8a | Carried out any major repairs in last 12 months? | |
| hq8b | How much have you saved by doing work yourself? | |
| hq8c | Anyone in household still carrying out this work? | |

| RECEIVING HELP & SERVICES | | |
|---|---|--|
| hq9a01 to hq9a16 | Type of help received over the last 4 weeks | One question for each of 16 possible types of help, from childcare (hq9a01) to 'any other help' (hq9a16) . Help is further distinguished between: <ul style="list-style-type: none"> • help provided by someone as part of their normal job • help provided but NOT as part of someone's job. |
| HELP FROM SOMEONE DOING IT AS PART OF THEIR NORMAL PAID WORK | | |
| hq9b01a to hq9b01z to hq9b16a to hq9b16z | Who provides help AS PART OF THEIR NORMAL PAID WORK | This generates a lot of variables. For instance, the 26 variables hq9b01a to hq9b01z show who provided help for childcare (incl 2 variables for DK & Refuse). These 26 variables are then repeated for each of the 16 types of help, up to hq9b16a to hq9b16z . |
| hq9c01 to hq9c16 | Number of times help provided | A variable for each of the 16 types of help. |
| hq9d01d to hq9d16d | Number of DAYS help provided | A variable for each of the 16 types of help. Note this is help provided LAST TIME, not all help |
| hq9d01h to hq9d16h | Number of HOURS help provided | A variable for each of the 16 types of help. Note this is help provided LAST TIME, not all help |
| hq9d01m to hq9d16m | Number of MINUTES help provided | A variable for each of the 16 types of help. Note this is help provided LAST TIME, not all help |
| hq9e01 to hq9e16 | Whether paid for help | A variable for each of the 16 types of help. These are the last questions for help provided AS PART OF SOMEONE'S NORMAL PAID WORK . |
| HELP FROM SOMEONE NOT DOING IT AS PART OF THEIR NORMAL PAID WORK | | |
| hq9f01a to hq9f01z to hq9f16a to hq9f16z | Who provides help NOT AS PART OF THEIR JOB | This generates a lot of variables. For instance, the 26 variables hq9f01a to hq9f01z show who provided help for childcare . These 26 variables are then repeated for each of the 16 types of help, up to hq9f16a to hq9f16z . |
| hq9g01 to hq9g16 | Number of times help provided | A variable for each of the 16 types of help. |
| hq9h01d to hq9h16d | Number of DAYS help provided | A variable for each of the 16 types of help. Note this is help provided LAST TIME, not all help |
| hq9h01h to hq9h16h | Number of HOURS help provided | A variable for each of the 16 types of help. Note this is help provided LAST TIME, not all help |
| hq9h01m to hq9h16m | Number of MINUTES help provided | A variable for each of the 16 types of help. Note this is help provided LAST TIME, not all help |
| hq9i01 to hq9i16 | Whether paid for help | A variable for each of the 16 types of help. These are the last questions for help provided NOT AS PART OF SOMEONE'S NORMAL JOB . |

| INCOME | | |
|--------------------|--|--|
| hq10a01 to hq10a11 | Sources of household income | <p>This is a multicode question recoded to 11 separate variables, one for each possible answer.</p> <p>The separate variables created for DK and REFUSE (hq10a12 & hq10a13) have been deleted and their answers incorporated in the other 11 variables.</p> |
| hq10b | Gross annual household income (banded) | <p>Labels have been clarified.</p> <p>This important variable has been copied to the new and clearly named variable GrosHinc, located at the end of the file.</p> |

| CHILDCARE | | |
|--|--|---|
| guard01 to guard10 | Q11: Who is main adult responsible for childcare? | <p>Note definition of child used here: these questions apply if there is a child in the household aged 0 - 14yrs.</p> <p>The purpose of this question is to identify the person who will be asked the childcare questions in the individual questionnaire.</p> <p>This is a multi-code question recoded to 10 separate variables, one for each possible person.</p> <p>The separate variable for NO ANSWER (guard11) has been deleted. The intention was to add a code for 'no answer' to each of the other 10 variables, but as all households answered this question this wasn't necessary.</p> <p>About 1 in 20 hhlds had more than one person claiming to be the main childcarer. The person number of the person selected for interview was not stored in the data.</p> |
| guard01a to guard01j to guard10a to guard10j | Person 1: who is person 1 responsible for? to Person 10: who is person 10 responsible for? | For each person in turn (01 - 10) these variables identify which other people on the hhld grid (10 possible, a - j) they are responsible for. |
| TELEPHONE NUMBER | | |
| | Q12: telephone number for office checks | Not on data file |
| TYPE OF ACCOMMODATION | | |
| hq13a to hq13d | Type of accommodation | House/ flat / rooms/ caravan etc Detached/ semi/ terraced Purpose built/ converted |
| DATE OF INTERVIEW | | |
| hday, hmonth, hyear | Day, month & year of household interview | 17 records with missing values have been identified (in the previous data file these had been given a default date). |

| DERIVED VARIABLES/ VARIABLES ADDED FROM OTHER FILES | | |
|--|---|---|
| VARIABLES ADDED FROM SAMPLE FILE | | |
| gorpaf | Government Office Region | New variable. From Post Office Address File (PAF) |
| gorpaf2 | Government Office Region - 8 categories | New variable. Recode of gorpaf |
| gorpaf3 | Government Office Region - 4 categories/ countries | New variable. Recode of gorpaf2 |
| pop_den | Population density | There has been a small name change - on the previous file this variable was called pop._den. Units are persons per 10 hectares, and uses the 1991 Census data for postcode sector. |
| pop_den2 | Population density - bands | New variable. Recode of pop_den into bands |
| unemp | Unemployment rate | On the previous file this variable was called 'unemploy', and it was a string. Unemp is now numeric, and a percentage. |
| unemp2 | Unemployment rate - bands | New variable. Recode of unemp |
| start_da, end_date, week_no | Fieldwork period - start date, end date and week number | Deleted. Not relevant to know interviewer's fieldwork period. |
| COUNTS OF ADULTS & CHILDREN - GENERAL | | |
| HNumb | Number of people in household | Counted from hhld grid. This is a new position in the data file for this variable. |
| NumAdult | Number of ADULTS in household | New variable. Counted from hhld grid. Aged 16 yrs or more. |
| NumChild | Number of CHILDREN in household | New variable. Counted from hhld grid. Aged 0 - 15yrs |

| COUNTS - ELIGIBILITY FOR SURVEY COMPONENTS | | |
|---|---|--|
| Num7Undr | Number aged 0 - 7 yrs | New variable. Count of those NOT eligible for Qnre or Diary. Counted from hhld grid. |
| Num8Ovr | Number aged 8 yrs or over | New variable. Count of those ELIGIBLE for Qnre or Diary. Counted from hhld grid. |
| Num8_13 | Number aged 8 - 13 yrs | New variable. Count of those eligible for CHILD DIARY. Counted from hhld grid. |
| Num14Ovr | Number aged 14 yrs or over | New variable. Count of those eligible for ADULT DIARY. Counted from hhld grid. |
| Num8_15 | Number aged 8 - 15 yrs | New variable. Count of those eligible for CHILD QNRE. Counted from hhld grid. |
| COUNTS - AGE GROUPS FOR YOUNG PEOPLE | | |
| Num0_2 | Number of children 0 - 2 yrs | New variable. Counted from hhld grid. |
| Num3_4 | Number of children 3 - 4 yrs | New variable. Counted from hhld grid. |
| Num5_9 | Number of children 5 - 9yrs | New variable. Counted from hhld grid. |
| Num10_15 | Number of children 10-15yrs | New variable. Counted from hhld grid. |
| Num16_17 | Number of young adults 16-17yrs | New variable. Counted from hhld grid. |
| Child | Whether child 0 - 15yrs in hhld | From hhld grid. |
| AgeYngst | Age group of youngest person in household | New variable. From hhld grid. |
| HOUSEHOLD REFERENCE PERSON & SPOUSE | | |
| HRP_per | Person number of household reference person | New variable. Based on questions hq2a and hq2b |
| Spouse1, Spouse2 | Person numbers of spouses | New variable. For hhlds with one married/ cohabiting couple, person number of each spouse identified. |
| TENURE | | |
| Tenure | Tenure - 5 categories | eg own, buy with mortgage, rent, etc. A straight copy of question hq3a, given a more helpful name and placed here for ease of use |
| Tenure2 | Tenure - 3 categories | New variable. Recode of tenure |

| CAR/ MOTOR VEHICLE OWNERSHIP | | |
|-------------------------------------|--|--|
| CarAvail | Ownership/ use of car or other motor vehicle | <p>New variable. This is a recoded version of question hq6a, given a more helpful name and placed here for ease of use</p> <p>This replaces OwnCar. It is labelled differently from OwnCar, to emphasise that it is not just car ownership, but covers ownership & use of cars and other motor vehicles.</p> |
| INCOME | | |
| GrosHinc | Gross household income - annual | <p>New variable. 11 income bands. A straight copy of question hq10b, given a more helpful name and placed here for ease of use.</p> |
| HOUSEHOLD TYPE | | |
| Hhtype3 | Household type - detailed categories | <p>These replace hhtype & hhtype2. Household type has been recalculated and re-labelled. It is derived from the household grid.</p> <p>Hhtype3 is the most detailed hhtype, and is intended as the raw variable for the creation of the main DV hhtype4.</p> |
| Hhtype4 | Household type - detailed categories | Main variable for household type - 16 categories eg single person hhld, married with children, married without children, single parent, unrelated adults, etc |
| Hhtype5 | Household type - detailed categories | Hhtype4 recoded into 8 categories. |

| HOUSEHOLD RESPONSE TO QUESTIONNAIRE, DIARY & WORKSHEET | | |
|---|---|---|
| Q_resp | Hhld response to questionnaire | |
| Dry_resp | Hhld response to diary | |
| Wk_resp | Hhld response to worksheet | |
| WEIGHTS (Previous data file had no non-response weights) | | |
| WtDh_gr WtDh_ug | Household weights - for hhlds keeping DIARIES | New variable. Grossed and ungrossed weights respectively. |
| WtWh_gr WtWh_ug | Household weights - for hhlds keeping WORKSHEETS | New variable. Grossed and ungrossed weights respectively. |
| WtDWh_gr WtDWh_ug | Household weights - for hhlds keeping DIARIES & WORKSHEETS | New variable. Grossed and ungrossed weights respectively. Note that the field HChg_Ind (change indicator) has been deleted as no longer relevant. In the previous data file this indicated those hhlds where age or sex had been changed since the person & diary weights were calculated for the first data delivery (April 2002). |

ONS
New Sources Implementation Branch
11 July 2003

Structure of files for TUS 2000 - INDIVIDUAL

- This document refers to the file Individual_data_5, dated 1 August 2003 .
- The interviewer completed an interview with each person in the household aged 8yrs or more (child questionnaire if 8-15yrs, adult questionnaire if aged 16yrs or more).
- Note the adult/ child cut-off is different from that of the diary: 8 - 13yrs for the child diary, 8 - 15yrs for the child questionnaire.

SUMMARY OF SECTIONS & VARIABLES

| Section | Description/ comments |
|--|---|
| Serial number | SN1, SN2, SN3 There are 11664 records on the file. |
| Economic Activity | Including main job, second job, income, working hours, leave and location. |
| State benefits | Whether receive benefits - no details of amounts received.. |
| Education & Training | Qualifications have or are studying for. Age left full-time education. |
| Voluntary work for organisations | Type of organisation, type of help, and amount of help given. |
| Help for friends & neighbours | Who was helped, type of help, and amount of help given. |
| Attitudes to household activities | Whether like/ dislike cooking, gardening, shopping, etc. |
| Leisure & physical activities | Amount of participation in various leisure and physical/ sporting activities. |
| National Lottery | Whether bought lottery ticket/ scratch card, who for. |
| Access to transport | Whether have car or van available |
| Health | Types of health problem and whether limit type or amount of work can do. |
| Childcare | For each child in hhld: type of childcare, amount of childcare, and whether that childcare was paid for. |
| Carers | Whether look after anyone, who look after, type of help given, amount of help given. |
| Classification | Nationality and marital status |
| Person/ diary characteristics | Whether proxy interview, age, sex, ethnic group |
| Variables derived from questions on person questionnaire | These include: economic activity, net income, hours worked, SOC & SIC, NSSEC and highest education qualification. |
| Variables added from household questionnaire | This is the standard selection of hhld variables added to each data file, and includes: region, counts of adults & children in the hhld, HRP, spouse, tenure, car availability, gross household income and household type. |
| Weights | New weights based on population figures based on 2001 Census. |

VARIABLES IN DETAIL

| Field name | Fuller name | Description/ comments |
|--|---|--|
| FRONT COVER - SERIAL NUMBER | | |
| SN1 | Point number | Area / quota indicator |
| SN2 | Household number | |
| SN3 | Person number | Person number from hhld grid on hhld file sn1 + sn2 + sn3 create a unique serial number for each questionnaire. There are 11664 records on the file. |
| ECONOMIC ACTIVITY (EMPLOYMENT STATUS) | | |
| q1a | Any paid work in last 7 days? | See the separate coding list for the timeuse activity codes. |
| pc1 | Any paid work after school? | Children (under 16s) only asked |
| pc3 | Number of hours worked in last 7 days | Children (under 16s) only asked |
| q1b | On government scheme? | |
| q1c | Type of government scheme | |
| q2a | Were you away from a job or business? | |
| q2b | Why were you away? | Holiday, sickness, studying, maternity/paternity leave |
| q3a | Did you do any unpaid work for OWN business? | |
| q3b | Did you do any unpaid work for RELATIVE'S business? | |
| q3c | Have you ever had a paid job? | |
| q3dd q3dm q3dy | When did you leave your last paid job? | 3 fields: day, month, year |
| q3dwk | Did you leave your paid job in the last week? | These questions have been used to create the economic activity variables EconAct, EconAct2 & EconAct3. |
| MAIN JOB (for self-employed & employed) | | |
| q4 | Description of what your firm makes/does | TEXT FIELD - NOT ON DATABASE Used to code SOC & SIC |
| q5 | Is your organisation public or private sector? | |
| q6a q6b | Job title/ What mainly do in job | TEXT FIELDS - NOT ON DATABASE Used to code SOC |
| q7 | Employee or self-employed? | |

| EMPLOYEE IN MAIN JOB: FURTHER DETAILS (Working patterns, income, leave) | | |
|--|---|--|
| q8a | EMPLOYEE: Any managerial duties? | |
| q8b | EMPLOYEE: Number of employees at place of work | |
| q8c | EMPLOYEE: Full time or part-time | |
| q8d | EMPLOYEE: Do you do shiftwork? | In your main job |
| q8e | EMPLOYEE: Type of shiftwork | eg three-shift, double day, split shifts, night shifts etc These labels were missing on the previous data file. <i>Not asked for proxy interviews (code added to questions)</i> |
| @q9a1 to @q9a8 | EMPLOYEE: Any special working arrangements | Multicode - converted to 8 separate fields Codes include flexitime, job sharing, 9-day fortnight etc The variables for DK & REFUSE (@q9a9 & @q9a10) have been deleted and their answers incorporated in the other variables. |
| q10 | EMPLOYEE - take home pay? | Last time paid. An amount. For period covered see Q11. |
| q10x | EMPLOYEE - take home pay? | Last time paid. Banded. Asked if Q10 not answered. For period covered see Q11. |
| q11 | EMPLOYEE - period covered by amount/ banded figure? | |
| q11a | EMPLOYEE - monthly take home pay? | Banded amount - asked if Q10 and Q10x not answered. <i>Not asked for proxy interviews</i> |
| q11n | EMPLOYEE - period covered by last take home pay IN HOURS? | This is any written in figure at Q11. Q11ax (combined income) has been deleted - see variable EmpIncBd. |
| q12 | EMPLOYEE - number of days paid holiday ENTITLED to? | Per year. |
| q12a | EMPLOYEE - number of days paid holiday TAKEN? | Per year. <i>Not asked for proxy interviews (code added to questions)</i> |
| SELF-EMPLOYED IN MAIN JOB: FURTHER DETAILS (incl income) | | |
| q13a | SELF-EMPLOYED - work on own or with employees? | |
| q13b | SELF-EMPLOYED - number employed? | |
| q13c | SELF-EMPLOYED - net monthly income? | Actual amount <i>Not asked for proxy interviews</i> |
| q13d | SELF-EMPLOYED - number employed? | Banded (asked if dk/refuse q13c) |
| q13e | SELF-EMPLOYED - full-time or part-time? | |

| EMPLOYED & SELF-EMPLOYED: MAIN JOB - HOURS AND LOCATION | | |
|--|---|---|
| q14a | Amount of unpaid work per week | Hours |
| q14b | Main job - do you ever work overtime? | Working hours questions apply to self-employed and employed. |
| q14c | DO NOT WORK OVERTIME - usual hrs per week in main job? | |
| q14d | WORK OVERTIME- usual hrs per week EXCL overtime | |
| q14e | WORK OVERTIME- usual hrs per week PAID overtime | <i>Not asked for proxy interviews (code added to questions)</i> |
| q14f | WORK OVERTIME- usual hrs per week UNPAID overtime | <i>Not asked for proxy interviews (code added to questions)</i> |
| q15 | Main place of work | Home/ home as base/ etc |
| q15b | Do you ever do paid/ unpaid work at home for your main job? | |
| q15c | How many hours work from home last week? | <i>Not asked for proxy interviews (code added to questions)</i> |

| SECOND JOB (as employee or self-employed) | | |
|--|---|--|
| q16a | Any other paid work/ job? | |
| q16b | How many paid jobs do you have? | |
| q16c q16d q16e | Description of second job | Job title, job description and description of what firm mainly does. THIS TEXT DATA IS NOT HELD ON THE DATA FILE Used to code SOC2 & SIC2. |
| q16f | SECOND JOB - hours per week usually worked | |
| q16g | SECOND JOB - any managerial duties? | |
| q16h | SECOND JOB - number of employees | |
| | | Note we don't ask if the second job was as an employee or self-employed. The wording of the questions is more appropriate for employees. |
| EMPLOYMENT STATUS: LOOKING FOR WORK | | |
| q17 | Were you looking for paid work in last 4 weeks? | |
| q18a - q18k | Action taken to find work | 11 actions listed, including visiting careers office, looking at newspaper ads, answering adverts, etc.. <i>Not asked for proxy interviews (code added to questions)</i> |
| q19 | Are you able to start work within 2 weeks? | <i>Not asked for proxy interviews (code added to questions)</i> |
| q20 | Main reason not looking for work? | eg retired, student, disabled, looking after home, etc The questions in this section have been used to create the economic activity variables EconAct, EconAct2 & EconAct3. |

| STATE BENEFITS | | |
|--|---|---|
| @q21a1 to @q21a11 | Q21a: State benefits received | Multicode question converted to one field per code, incl separate fields for DK & Refuse. Asks about child benefit, retirement pension, invalid care allowance, etc. |
| @q21b1 to @q21b6 | Q21b: Other state benefits received | Multicode question converted to one field per code, incl separate fields for DK and Refuse. Asks about 3 benefits only: - Disability Living Allowance (Care component) - Disability Living Allowance (Mobility component) - Attendance Allowance. |
| q21ba01 to q21ba10, q21ba11 to q21ba13, | Q21bi: Who do you receive the CARE COMPONENT for? | Multicode question. Fields for person 01 to person 10 (eg do you receive care component for person 1?), then separate fields for DK, Refuse & NA. @q21bi1 to @q21bi13 - duplicate fields for this question deleted |
| q21bb01 to q21bb10, q21bb11 to q21bb13, | Q21bii: Who do you receive the MOBILITY COMPONENT for? | Multicode question. Fields for person 01 to person 10 (eg do you receive mobility component for person 1?), then separate fields for DK, Refuse & NA. aq21bi1, bq21bi2 to mq21bi13 - duplicate fields for this question deleted |
| q21bc01 to q21bc10, q21bc11 to q21bc13, | Q21biii: Who do you receive the ATTENDANCE ALLOWANCE for? | Multicode question. Fields for person 01 to person 10 (eg do you receive attendance allowance for person 1?), then separate fields for DK, Refuse & NA. nq21bi1 to zq21bi13 - duplicate fields for this question deleted |
| q21c | Q21c: Is Attendance Allowance paid as part of retirement pension? | <i>Not asked for proxy interviews (code added to questions)</i> |
| @q21d1 to @q21d8 | Q21d: Benefits received in own right? | Multicode question - one field per code, incl fields for DK & Refuse. Asks whether receive Job Seeker's Allowance, Income Support, Incapacity benefit etc. |
| q21e | Q21e: Type of Job Seeker's Allowance | |
| q21f | Q21f: Other benefits receive in own right | Includes Maternity Allowance & Maternity Pay. |
| @q21h1 to @q21h12 | Q21g: Benefits received in last 6 months | List includes grants from the Social Fund for funeral expenses & maternity expenses, 'back to work' bonus, and any benefit not previously mentioned. There is an inconsistency with the paper questionnaire, where this question is listed as Q21g. |

| | | |
|--------------------|---|---|
| q21ha | Q21hi: (SELF-EMPLOYED) Tax credit payments | Q21hi: (SELF-EMPLOYED) Are you receiving any of these tax credit payments.... Working Family Tax Credit, Disabled Person's Tax Credit, None of these? |
| q21hb | Q21hii: (SELF-EMPLOYED) Lump sum tax credit payments | Q21hi: (SELF-EMPLOYED) Are you receiving any of these LUMP SUM tax credit payments? |
| @q21hc1 to @q21hc5 | Q21hiii: (EMPLOYEE) Tax credit payments | Multicode. Q21hiii: (EMPLOYEE) Did your last wage include.... Working Family Tax Credit, Disabled Person's Tax Credit, None of these? |

| EDUCATION & TRAINING - QUALIFICATIONS ACHIEVED | | |
|---|--|---|
| | | These questions are used to construct the 'highest qualification' variable HIQUAL4. |
| q22a | Any educational qualifications? | yes/ no/ don't know |
| @q22b1 to @q22b24 | Q22b: Education qualifications | Multicode. Separate fields for each of 23 qualifications, plus a field for 'DK'. The subsequent questions then refine these answers by asking eg for type or level of qualification. |
| @q22c1 to @q22c5 | Q22c: Type of DEGREE | <i>Not asked for proxy interviews</i> |
| q22d | Q22d: Type of HIGHER DEGREE | <i>Not asked for proxy interviews</i> |
| q22e | Q22e: Type of BTEC | <i>Not asked for proxy interviews</i> |
| q22f | Q22f: Type of SCOTVEC | <i>Not asked for proxy interviews</i> |
| @q22fi1 to @q22fi5 | Q22fi: Type of TEACHING QUALIFICATION | Multicode. Separate fields for further edn, secondary edn, primary edn, DK & REFUSE. <i>Not asked for proxy interviews</i> |
| q22g | Q22g: Number of A levels | <i>Not asked for proxy interviews</i> |
| q22h | Q22h: Number of SCOTTISH HIGHERS | <i>Not asked for proxy interviews</i> |
| q22i | Q22i: Highest NVQ/SVQ | <i>Not asked for proxy interviews</i> |
| q22j | Q22j: Highest GNVQ/GSVQ | <i>Not asked for proxy interviews</i> |
| q22k | Q22k: Number of AS levels | <i>Not asked for proxy interviews</i> |
| q22L | Q22L: Highest RSA | <i>Not asked for proxy interviews</i> |
| q22m | Q22m: Highest CITY & GUILDS | <i>Not asked for proxy interviews</i> |
| q22n | Q22n: Highest grade of GCSE/ O LEVELS/ SCE | <i>Not asked for proxy interviews</i> |
| q22o | Q22o: CSEs at grade 1 | <i>Not asked for proxy interviews</i> |
| q22p | Q22p: Number of GCSE above grade C | <i>Not asked for proxy interviews</i> |
| @q22q1 to @q22q3 | Q22q: English or Mathematics GCSE above grade C? | Multicode. Separate fields for English, Maths & Neither. <i>Not asked for proxy interviews</i> |
| q22r | Q22r: Completed a TRADE APPRENTICESHIP? | <i>Not asked for proxy interviews</i> |
| AGE LEFT EDUCATION | | |
| q23a | Q23a: Age left full-time education? | See variable AGELEFT, which is a banded version of this question. |
| q23b | Q23b: Started any other full-time education? | |
| q23c | Q23c: Age when finish that education? | |

| THOSE CURRENTLY IN FULL-TIME EDUCATION - QUALIFICATIONS STUDYING FOR & WHERE STUDYING | | |
|--|--|---|
| @q23d1 to @q23d25 | Q23d: Qualifications studying for at present | Multicode, with one field per code. There are 25 codes/ fields: 23 qualifications as at Q22b, plus codes for DK & REFUSE. |
| q23di | Q23di: Type of DEGREE studying for at present? | <i>Not asked for proxy interviews</i> |
| q23dii | Q23dii: Type of HIGHER DEGREE studying for at present? | <i>Not asked for proxy interviews</i> |
| q23e | Q23e: Type of BTEC studying for at present? | <i>Not asked for proxy interviews</i> |
| q23ei | Q23ei: Type of SCOTVEC studying for at present? | <i>Not asked for proxy interviews</i> |
| q23f | Q23f: Type of CITY & GUILDS studying for at present? | <i>Not asked for proxy interviews</i> |
| q23g | Q23g: Type of RSA studying for at present? | <i>Not asked for proxy interviews</i> |
| q23h | Q23h: Level of NVQ/SVQ studying for at present? | <i>Not asked for proxy interviews</i> |
| q23i | Q23i: Level of GNVQ/GSVQ studying for at present? | <i>Not asked for proxy interviews</i> |
| q23j | Q23j: Where are you studying? | |

| THOSE NOT CURRENTLY IN FULL-TIME EDUCATION - ATTENDANCE OF 'TAUGHT' COURSES | | |
|--|--|--|
| @q24a1 to @q24a9 | Q24a: Been on any TAUGHT COURSES? | Multicode, with one field per code. There are 9 codes/ fields: 7 for the types of course, plus codes for DK & REFUSE. <i>Not asked for proxy interviews</i> |
| q24b | Q24b: Number of TAUGHT COURSES attending | Maximum of 9 courses. <i>Not asked for proxy interviews</i> |
| q24ca to q24ci | Q24c: Subject of course? | The subject of each course (up to 9 courses) is recorded. Two of these questions (q24ca & q24cg) were originally on the data file as multicode (@q24ca1 to @q24ca45, and @q24cg1 to @q24cg45). The multicode have been deleted and the original single answers q24ca & q24cg have been recreated. <i>Not asked for proxy interviews</i> |
| q24da to q24di | Q24d: Does course lead to a qualification? | Answers for each course (up to 9 courses) recorded <i>Not asked for proxy interviews</i> |
| @q24ea1 to @q24ea23 | Q24e: Qualifications studying for? | FIRST COURSE. Multicode - one course can sometimes lead to more than one qualification. There are fields for 23 qualifications (as listed at Q22) <i>Not asked for proxy interviews</i> |
| @q24eb1 to @q24eb23 | Q24e: Qualifications studying for? | SECOND COURSE. Multicode. There are fields for 23 qualifications (as listed at Q22) |
| q24ec to q24ei | Q24e: Qualifications studying for? | THIRD TO NINTH COURSE.S. For these courses one qualification per course is recorded. |
| q24fa to q24fi | Q24f: Where did the teaching take place? | First to ninth courses <i>Not asked for proxy interviews</i> |
| q24ga to q24gi | Q24g: Number of OCCASIONS studied in past 4 weeks? | First to ninth courses <i>Not asked for proxy interviews</i> |
| q24ha to q24hi | Q24h: Number of HOURS studied last time studied? | First to ninth courses Now ask about LAST TIME studied - not last 4 weeks <i>Not asked for proxy interviews</i> |
| THOSE NOT CURRENTLY IN FULL-TIME EDUCATION - OTHER TRAINING | | |
| @q25a1 to @q25a7 | Q25a: Any studying/ training NOT on a taught course? | Whether study and type of study coded. Multicode, with one field per code. Codes include on-the-job training, reading books, teaching oneself. |
| q25b | Q25b: Amount of training | Q25b: Number of HOURS spent in SELF-DIRECTED training. 2 categories: under 10hrs, 10 or more hrs. <i>Not asked for proxy interviews</i> |
| q25c | Q25c: Amount of training | Q25c: Number of separate DAYS spent in SELF-DIRECTED training <i>Not asked for proxy interviews</i> |
| q25d | Q25d: Period of training | Q25d: Over what period of time was this training? <i>Not asked for proxy interviews</i> |
| TRAINING - DRIVING LICENCE | | |
| q25e | Q25e: Do you currently hold a driving licence? | |

| VOLUNTARY WORK FOR ORGANISATIONS | | |
|---|---|---|
| q26a | Q26a: Do you do any voluntary work? | For an organisation - not for friends/ neighbours |
| q26b1 to q26b6 | Q26b: Which organisations have you worked with? | New variables. Up to 6 organisations - in decreasing order of time spent with them. Open question - coded to 40 types of organisation (eg parent/ teachers, hospital, WI, etc), plus codes for DK & REFUSE. Some of the code labels were truncated but have now been clarified. These questions were originally recorded as 6 multicode questions (@q26ba1 to @q26ba42 for the first orgn, up to @q26bf1 to @q26bf42 for the sixth orgn). These were not in fact multicode questions and the multicode variables have now been deleted and 6 variables q26b1 to q26b6 have been created in their place. |
| @q26ca1 to @q26ca16 | Q26c: Type of voluntary work | For FIRST organisation work for. Multicode with separate fields for each code. Note the different pre-codes for adult and child questionnaires. The first 9 fields are for the types of vol work listed on the adult diary (eg raising money, visiting people, providing transport), then the next 4 fields are for the different types of vol work listed on the child diary, then there is a common field for 'other types of vol work', then fields for DK & REFUSE. |
| @q26cb1 to @q26cb16 | Q26c: Type of voluntary work | For SECOND organisation work for. <i>Multicode with 14 separate fields for types of work, plus fields for DK & REFUSE.</i> |
| @q26cc1 to @q26cc16 | Q26c: Type of voluntary work | For THIRD organisation work for. <i>Multicode with codes/ fields as above.</i> |
| @q26cd1 to @q26cd16 | Q26c: Type of voluntary work | For FOURTH organisation work for. <i>Multicode with codes/ fields as above.</i> |
| @q26ce1 to @q26ce16 | Q26c: Type of voluntary work | For FIFTH organisation work for. <i>Multicode with codes/ fields as above.</i> |
| @q26cf1 to @q26cf16 | Q26c: Type of voluntary work | For SIXTH organisation work for. <i>Multicode with codes/ fields as above.</i> |
| q26da to q26df | Q26d: Number of times help voluntary orgn in last 4 weeks | 6 fields, for 1 st to 6 th voluntary organisation <i>Not asked for proxy interviews</i> |
| q26ea to q26ef | Q26e: Number of DAYS helped vol org last time helped | 6 fields, for 1 st to 6 th voluntary organisation Note we are now asking about the LAST TIME help was given - not the last 4 weeks. <i>Not asked for proxy interviews</i> |
| q26ha to q26hf | Q26e: Number of HOURS helped vol org last time helped | 6 fields, for 1 st to 6 th voluntary organisation |
| q26ma to q26mf | Q26e: Number of MINUTES helped vol org last time helped | 6 fields, for 1 st to 6 th voluntary organisation |

| HELP FOR FRIENDS & NEIGHBOURS | | |
|--|---|--|
| q27a | Q27a: Have you helped anyone in last 4 weeks? | We are now asking about helping individuals directly (not through an organisation). This excludes helping members of the same household. <i>Not asked for proxy interviews (code added to questions)</i> |
| q27b1 to q27b8 | Q27b: Who did you help? | New variables. This records details of up to 8 people (eg parents, neighbours, window cleaners, etc) in decreasing order of time spent helping them. Q27b was an open question , coded to 24 types of people plus codes for DK & NO ANSWER. It was originally recorded as 8 multicode questions (@q27ba1 to @q27ba26 for the first person, up to @q27bh1 to @q27bh26 for the eighth person). These were in fact not multicode questions and the multicode variables have now been deleted and 8 variables q27b1 to q27b8 have been created in their place. |
| @q27ca1 to @q26ca36 | Q27c: Type of help | For FIRST person helped - multicode with codes/ fields for 34 types of help (plus fields for DK & REFUSE). Q27c was an open question , and the 34 codes the answers were coded to closely follow the coding frame for diary activities. |
| @q27cb1 to @q26cb36 | Q27c: Type of help | For SECOND person helped - codes/ fields as above |
| @q27cc1 to @q26cc36 | Q27c: Type of help | For THIRD person helped - codes/ fields as above |
| @q27cd1 to @q26cd36 | Q27c: Type of help | For FOURTH person helped - codes/ fields as above |
| @q27ce1 to @q26ce36 | Q27c: Type of help | For FIFTH person helped - codes/ fields as above |
| @q27cf1 to @q26cf36 | Q27c: Type of help | For SIXTH person helped - codes/ fields as above |
| @q27cg1 to @q26cg36 | Q27c: Type of help | For SEVENTH person helped - codes/ fields as above |
| @q27ch1 to @q26ch36 | Q27c: Type of help | For EIGHTH person helped - codes/ fields as above |
| q27da to q27dh | Q27d: Number of times helped in last 4 weeks | 8 fields, 1 st to 8 th person helped |
| q27eda to q27edh | Q27e: Number of DAYS helped last time helped | 8 fields, 1 st to 8 th person helped Note we are now asking about the LAST TIME help was given - not the last 4 weeks. |
| q27eha to q27ehh | Q27e: Number of HOURS helped last time helped | 8 fields, 1 st to 8 th person helped |
| q27ema to q27emh | Q27e: Number of MINUTES helped last time helped | 8 fields, 1 st to 8 th person helped |
| q27fa to q27fh | Q27f: Were you paid for that help? | 8 fields, 1 st to 8 th person helped |

| ATTITUDES TO HOUSEHOLD ACTIVITIES/ HELPING AROUND THE HOUSE | | |
|--|--|---|
| q28a to q28k | Q28: ADULTS ONLY ASKED: Whether like/ dislike various household tasks | Tasks include cooking, gardening, shopping, decorating, tidying, washing & ironing. <i>Not asked for proxy interviews (code added to questions)</i> |
| q28L to q28Q | Q28: CHILDREN ONLY ASKED: Whether like/ dislike various household tasks | Tasks include helping with cooking, washing up, helping in garden, going to shops, tidying and looking after brothers & sisters. <i>Not asked for proxy interviews (code added to questions)</i> |
| LEISURE & SPORTING/ PHYSICAL ACTIVITIES | | |
| q29a to q29s | Q29: Leisure activities carried out in last 4 weeks | 19 activities listed eg cinema, play, concert, ballet, library, zoo. <i>Not asked for proxy interviews (code added to questions)</i> |
| q30a to q30s | Q30: Number of times carried out each leisure activity in last 4 weeks | One variable for each leisure activity listed at Q29. |
| q31a01 to q31a46 | Q31a: Sporting/ physical activities carried out in last 4 weeks | 43 separate activities listed. q31a44 is for 'none of these activities', and q31a45 & q31a46 are for DK & REFUSE. <i>Not asked for proxy interviews (code added to questions)</i> |
| q31b | Q31b: Description of 'other sport/ activity' at Q31a | Not on data file |
| q31c01 to q31c43 | Q31c: Number of days on which carried out each sporting activity in last 4 weeks | One variable for each of the 43 sports/ physical activities mentioned at Q31a |
| NATIONAL LOTTERY | | |
| q32a | Q32a: Bought a lottery ticket? | Q32a: Have you bought a lottery ticket in last 7 days? <i>Not asked for proxy interviews (code added to question)</i> |
| q32b | Q32b: Who bought the lottery ticket? | Q32b: Buy lottery ticket yourself (or someone else buy for you)? |
| q32c | Q32c: Who was it for? | Q32c: Purchased for yourself or jointly with others? |
| q32d | Q32d: Who was it for? | Q32d: Was this jointly with other members of your hhld or with people outside your hhld? |
| ACCESS TO TRANSPORT | | |
| q33 | Q33: Do you have access to a car or van for transport? | Answer options are: all the time/ some of the time/ rarely/ never. See also q25e which asks if have a driving licence. There is also a question on the hhld qstnre (CARAVAIL) which asks about household vehicle availability. |

| HEALTH | | |
|---------------------|--|--|
| q34a | Q34a: How is your general health? | Answer options are: very good, good, fair, bad, very bad. |
| q34b | Q34b: Cutting back | Q34b: Have you CUT-BACK on the things you do because of health problems? |
| q34c | Q34c: Cutting back | Q34c: How many days cut-back in last 2 weeks? |
| q35a | Q35a: Long term health problems | Q35a: Any health problems that you expect will last more than a year? |
| q35b | Q35b: Type of work can do | Q35b: Does your health problem affect the KIND of paid work you might do? |
| q35c | Q35c: Amount of work can do | Q35c: Does your health problem affect the AMOUNT of paid work you might do? |
| q35d01 to q35d17 | Q35d: Types of health problem | Q35d: ADULT DIARY only: Types of health problem/disability. Includes seeing, hearing, speech impediment, arms, legs, back, depression etc Note this is NOT a multicode question, but 17 separate questions. |
| @q35dc1 to @q35dc21 | Q35d: Types of health problem | Q35d: CHILD DIARY only: Types of health problem/disability. The question was an open question, with answers written in. It was coded to the same 17 codes as the adult diary. There were 4 further codes: UNUSED, DK, REFUSE & NOT ANSWERED. As more than one answer is allowed, this is recorded on the data file as a multicode with a separate field for each of these 21 codes. |
| q35e | Q35e: MAIN type of health problem | Q35e: ADULT DIARY only asked: 17 codes, as at Q35d. |
| q35f | Q35f: Do health problems limit your normal activities? | Q35f: ADULT DIARY only asked: yes/no |
| q36a | Q36a: Rushed | Q36a: (ADULT & CHILD DIARY) How RUSHED do you normally feel? <i>Not asked for proxy interviews (code added to questions)</i> |
| q36b | Q36b: One activity | New variable. Q36b: (ADULT & CHILD DIARY) What ONE activity would you like to spend more time doing? Q36b was an open question , and the 37 codes the answers were coded to closely follow the coding frame for diary activities. This question was originally incorrectly recorded as a multicode (@q36b1 to @q36b37). The multicode variables have been deleted and q36b has been created. <i>Not asked for proxy interviews (code added to questions)</i> |

| CHILD CARE One person in the household is asked about the care of children aged 0-14yrs. | | |
|---|---|---|
| q37 | INTRO - no question. | The variables KIDSa1 to KIDSj10 have been deleted. These were interim fields created for the processing and of no value here. |
| q38a to q38j | Q38: Does child go to primary school full time? | 10 fields - for child from person 1 to person 10 (fields correspond to people in household grid) |
| q38aa to q38aj | Q38a: Type of primary school class | 10 fields - for child from person 1 to person 10 (fields correspond to people in household grid) |
| q39a01 to q39a22 | Q39: Type of childcare | Type of childcare received BY PERSON 1 Multicode: the 22 fields for person 1 correspond to the Q39 codes: 21 types of childcare plus code for 'none'. <i>Not asked for proxy interviews</i> <i>NOTE THAT ALL FIELDS HAVE THE VALUE OF 1 (for yes) or 2 (for no). NO MISSING VALUES.</i> <i>Code 2 is also generated for all ineligible:</i> <i>i) for people in the hhd who are not the main carer and therefore NOT asked any childcare questions.</i> <i>ii) if person 1 is not 0-14yrs</i> |
| q39b01 to q39b22 | Q39: Type of childcare | Type of childcare received BY PERSON 2 <i>Not asked for proxy interviews</i> |
| q39c01 to q39c22 | Q39: Type of childcare | Type of childcare received BY PERSON 3 <i>Not asked for proxy interviews</i> |
| q39d01 to q39d22 | Q39: Type of childcare | Type of childcare received BY PERSON 4 <i>Not asked for proxy interviews</i> |
| q39e01 to q39e22 | Q39: Type of childcare | Type of childcare received BY PERSON 5 <i>Not asked for proxy interviews</i> |
| q39f01 to q39f22 | Q39: Type of childcare | Type of childcare received BY PERSON 6 <i>Not asked for proxy interviews</i> |
| q39g01 to q39g22 | Q39: Type of childcare | Type of childcare received BY PERSON 7 <i>Not asked for proxy interviews</i> |
| q39h01 to q39h22 | Q39: Type of childcare | Type of childcare received BY PERSON 8 <i>Not asked for proxy interviews</i> |
| q39i01 to q39i22 | Q39: Type of childcare | Type of childcare received BY PERSON 9 <i>Not asked for proxy interviews</i> |
| q39j01 to q39j22 | Q39: Type of childcare | Type of childcare received BY PERSON 10 <i>Not asked for proxy interviews</i> |
| q40 | Q40: Write in other form of childcare | Text field - not in data file |

| CHILD CARE - AMOUNT/ WHETHER PAID | | |
|--|----------------------------------|---|
| q41a@1@ to q41a@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 1 at Q39. 21 codes correspond to 21 types of childcare at Q39. <i>Not asked for proxy interviews</i> The inconsistencies between Q39 and Q41 have been corrected. |
| q41b@1@ to q41b@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 2. |
| q41c@1@ to q41c@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 3. |
| q41d@1@ to q41d@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 4. |
| q41e@1@ to q41e@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 5. |
| q41f@1@ to q41f@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 6. |
| q41g@1@ to q41g@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 7. |
| q41h@1@ to q41h@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 8. |
| q41i@1@ to q41i@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 9. |
| q41j@1@ to q41j@21@ | Q41: Number of days of childcare | Number of days of each type of childcare received BY PERSON 10. |
| q42a@1@ to q42a@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 1 at Q39. 21 codes correspond to 21 types of childcare at Q39. <i>Not asked for proxy interviews</i> Note that if no childcare of a type was received the number of hours is recorded as 0 (rather than missing) <i>The answers to these 'number of hrs childcare per day' questions match with the 'type of childcare' recorded at Q39.</i> |
| q42b@1@ to q42b@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 2. |
| q42c@1@ to q42c@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 3. |
| q42d@1@ to q42d@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 4. |
| q42e@1@ to q42e@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 5. |
| q42f@1@ to q42f@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 6. |
| q42g@1@ to q42g@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 7. |
| q42h@1@ to q42h@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 8. |
| q42i@1@ to q42i@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 9. |
| q42j@1@ to q42j@21@ | Q42: Hours per day of childcare | Number of hours per day of each type of childcare received BY PERSON 10. |

| | | |
|-------------------|--------------------------------------|---|
| pq43a1 to pq43a21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 1 at Q39: Was it paid for? 21 codes correspond to 21 types of childcare at Q39. <i>Not asked for proxy interviews</i> <i>The answers to these 'whether paid for childcare' questions match with the 'type of childcare' recorded at Q39.</i> |
| pq43b1 to pq43b21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 2: Was it paid for? |
| pq43c1 to pq43c21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 3: Was it paid for? |
| pq43d1 to pq43d21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 4: Was it paid for? |
| pq43e1 to pq43e21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 5: Was it paid for? |
| pq43f1 to pq43f21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 6: Was it paid for? |
| pq43g1 to pq43g21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 7: Was it paid for? |
| pq43h1 to pq43h21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 8: Was it paid for? |
| pq43i1 to pq43i21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 9: Was it paid for? |
| pq43j1 to pq43j21 | Q43: Paid to look after child? | For each type of childcare received by PERSON 10: Was it paid for? |
| | | |
| pq44a to pq44j | Q44: Was last week a school holiday? | 10 fields - asked for person 1 to person 10. |

| CARERS | | |
|---------------------|---|--|
| pq45 | Q45: Do you look after anyone LIVING WITH YOU? | Asked specifically about sick, disabled. |
| pq46 | Q46: Number of people LIVING WITH that look after | |
| pq47 | Q47: Do you look after anyone NOT LIVING WITH YOU? | Asked specifically about sick, disabled. |
| pq48 | Q48: Number of people NOT LIVING WITH that look after | |
| @pq49a1 to @pq49a12 | Q49: Who do you look after? | Multicode with a separate field for each of the 12 possible codes (incl DK & REFUSE). Categories of person include spouse/ child/ sibling/ parent & so on. |
| @pq50a1 to @pq50a13 | Q50: Age of people/ person look after? | Multicode with a separate field for each of the 13 possible codes (incl DK & REFUSE). Age is in bands. |
| @pq51a1 to @pq51a4 | Q51: Sex of people/ person look after? | Multicode with a separate field for each of the 4 possible codes (MALE, FEMALE, DK & REFUSE). Note: where respondent looks after more than one person, we cannot match age, sex and type of person. |
| pq52a01 to pq52a10 | Q52: (ADULT DIARY ONLY) Type of help given | 10 separate questions. Includes help with personal care, help with paperwork, giving medicines, taking out, etc, .. |
| pq52c01 to pq52c06 | Q52: (CHILD DIARY ONLY) Type of help given | 6 separate questions. Includes help with personal care, helping around the house, taking out, etc, .. |
| pq53 | Q53: Total time spent each week on people care for | New variable. Time is in bands. This question was originally incorrectly recorded as a multicode (@pq531 to @pq5312). The multicode variables have been deleted and pq53 has been created. <i>Not asked for proxy interviews (code added to questions)</i> |

| CLASSIFICATION | | |
|--|---|---|
| pq54 | Q54: British national? | yes/ no |
| pq55 | Q55: Marital status? | Formerly named 'Imarstat'. Categories: single never married, married & living together, married & separated, divorced, widowed |
| pq56 | Q56: Are you living as a couple? | yes/ no/ 'same sex couple' - latter if spontaneously mentioned. See variable LivArr - which combines answers to Q55 & Q56. |
| pq57 | Q57: Is spouse a member of the household? | yes/ no |
| END OF INDIVIDUAL QUESTIONNAIRE | | |

| PERSON/ QUESTIONNAIRE CHARACTERISTICS | | |
|--|--|--|
| Proxy | Normal or proxy interview | This variable was formerly named 'PComp'. All 'proxy' variables have been renamed and relocated on the data file together. |
| ProxyTyp | Adult normal/proxy Child normal/proxy | This variable was formerly named 'TypInt'. This is the variable 'Proxy' above with adult/ child distinction added. |
| ProxyWho | Proxy interview is being done with whom? | This variable was formerly named 'PWho2'. Person number is indicated. |
| Iage | Age of respondent | Age as on household grid |
| IAgeGrp | Age group of respondent | New variable. Recode of Iage. 5 age groups: 8-15yrs, 16-24yrs, 25-44yrs, 45-64yrs, 65yrs or more. |
| Isex | Sex | Sex as on household grid. |
| Iethnic | Ethnic group | Ethnic group as on household grid |

| DERIVED VARIABLES (BASED ON QUESTIONS IN PERSON QUESTIONNAIRE) | | |
|---|---|---|
| Manage2 | Management responsibilities | New variable - replaces 'Manage'. Indicates whether a manager, supervisor or have no management responsibilities |
| EconAct, EconAct2, EconAct3 | Economic activity | New variables (replaces EmpStat & EmpStat2). EconAct has the broadest categories (employed, unemployed, econ inactive). EconAct2 is an interim variable, which is used to create EconAct3. It has some self-employed/ employee distinctions. EconAct3 adds further distinctions eg full-time, part-time, retired, studying, etc. |
| EmpIncBd SEIncBd TotPInc | NET monthly personal income - banded | New variables. 3 income variables - for employees, for self-employed, then for both combined. See also gross household income (GrosHInc) . |
| Hrs_UnPd, Hrs_Job1, Hrs_Job2, Hrs_Tot, Hrs_Grp | Weekly hours worked | New variables. 5 variables - unpaid work, main job, second job, total hrs worked (for unpaid + main job + second job), then total hours grouped into 8 categories. |
| SIC | SIC for respondent's MAIN job | Standard Industrial Classification (4 digit, 1992). Industry labels have been added. Note we have some ineligible codes. |
| SOC | SOC for respondent's MAIN job | Standard Occupational Classification (2000). Occupation labels have been added. Note we have some ineligible codes. |
| SIC2 | SIC for respondent's SECOND job | Standard Industrial Classification (4 digit, 1992). Industry labels have been added. |
| SOC2 | SOC for respondent's SECOND job | Standard Occupational Classification (2000). Occupation labels have been added. |
| NSSECB, NSSECB_8, NSSECB_5, NSSECB_3 | National Statistics Socio-Economic Classification | 4 variables - full classification, 8 categories, 5 categories & 3 categories. NSSEC from the previous data file has been recalculated, re-labelled and re-created as a numeric field and is now named NSSECB. |
| HiQual4 | Highest Education qualification | Replaces Hiqual. HiQual4 now includes a category for those with no qualifications. |
| AgeLeft | Age left full-time education (grouped) | New variable. This is Q23a banded. |
| LivArr | Living arrangements | Living arrangement as reported by respondent on the person qnre at questions 55 & 56 eg married, cohab, single, divorced, etc. See also HHTYPE4 & HHTYPE5. |
| ProvCare | Whether cares for elderly/ sick person | New variable. Based on Q45 & Q47 from person qnre. |

| VARIABLES ADDED FROM HOUSEHOLD FILE (this is the standard 'package' of hhld variables) | | |
|---|---|--|
| hday, hmonth, hyear | Day, month & year of household interview | New variables. |
| gorpaf gorpaf2 gorpaf3 | Government Office Region | New variables. GOR in 12 categories, 8 categories and 4 categories (countries) respectively. |
| pop_den | Population density | New variable. Units are persons per 10 hectares, and uses the 1991 Census data for postcode sector. |
| pop_den2 | Population density - bands | New variable. Recode of pop_den into bands |
| unemp | Unemployment rate | New variable. Uses the 1991 Census data. |
| unemp2 | Unemployment rate - bands | New variable. Recode of unemp |
| COUNTS OF ADULTS & CHILDREN - GENERAL | | |
| HNumb | Number of people in household | Counted from hhld grid |
| NumAdult | Number of ADULTS in household | New variable. Count of 16yrs or more from hhld grid. |
| NumChild | Number of CHILDREN in hhld | New variable. Count of 0 - 15yrs from hhld grid. |
| COUNTS - AGE GROUPS FOR YOUNG PEOPLE | | |
| Child | Whether child 0 - 15yrs in hhld | From hhld grid. |
| AgeYngst | Age group of youngest person in household | New variable. From hhld grid. |
| Num0_2 | Number of children 0 - 2 yrs | New variable. Counted from hhld grid. Note the field Kids0to7 from the previous version of this data file has been deleted and replaced by these fields. |
| Num3_4 | Number of children 3 - 4 yrs | New variable. Counted from hhld grid. |
| Num5_9 | Number of children 5 - 9yrs | New variable. Counted from hhld grid. |
| Num10_15 | Number of children 10-15yrs | New variable. Counted from hhld grid. |
| Num16_17 | Number of young adults 16-17yrs | New variable. Counted from hhld grid. |

| HOUSEHOLD REFERENCE PERSON & SPOUSE | | |
|--|--|---|
| HRP_per | Person number of household reference person | New variable. Based on questions hq2a and hq2b |
| Spouse1, Spouse2 | Person numbers of spouses | New variable. For hhlds with one married/ cohabiting couple, person number of each spouse identified. |
| TENURE | | |
| Tenure2 | Tenure - 3 categories | New variable. Recode of tenure |
| CAR/ MOTOR VEHICLE OWNERSHIP | | |
| CarAvail | Ownership/ use of car or other motor vehicle | Renamed variable - replaces OwnCar. New name clarifies that includes those who have use of a vehicle as well as ownership. This is a recoded version of question hq6a. |
| INCOME | | |
| GrosHinc | Gross household income - annual | New variable. 11 income bands. A straight copy of question hq10b, given a more helpful name. |
| HOUSEHOLD TYPE | | |
| Hhtype4 | Household type - 16 categories | New variable. Based on relationships on household grid eg single person hhld, married with children, married without children, cohabit, unrelated adults, etc See also LivArr from person file. |
| Hhtype5 | Household type - 8 categories | New variable. Hhtype4 recoded into 8 categories. |

| WEIGHTS | | |
|--------------------|---|---|
| WtPq_gr WtPq_ug | Diary weights - grossed and ungrossed | <p>New weights - replaces wtpq on previous file. Grossed and ungrossed weights respectively. These use the new 2000 population estimates based on the 2001 Census.</p> <p>All 11664 questionnaires are treated as response.</p> <p>IChg_Ind has been deleted - that indicated questionnaires where age & sex had been changed since the weights were calculated for the first data delivery (April 2002).</p> |

ONS
New Sources Implementation Branch
1 August 2003

Structure of files for TUS 2000 - WORKSHEET

- This document refers to file Worksheet_data_3, dated 18/06/2003 .
- The data file covers hours spent in main job, full-time education and other paid work over 7 days. It also covers travel in the course of work and main means of travel.
- Respondents were asked that the first worksheet day should be the same as the first diary day
- All respondents aged 8yrs or over were asked to complete a worksheet. Those respondents who did no paid work or full-time education over the 7 days were asked to tick a box on the main recording page. These blank worksheets were not keyed, but there is a variable on the file indicating blank worksheets.

SUMMARY OF VARIABLES

| Field name | Description/ comments |
|--|---|
| SN1, SN2, SN3 | Serial number There are 9823 records on the file. |
| WSDay1 | Day 1 of worksheet |
| wjob01s1 to wjob16s1 to wjob01e7 to wjob16e7 | First worksheet row - MAIN job/ education Start and end times of each job 'line' for each day - up to 16 job 'lines' allowed. |
| wOth01s1 to wOth16s1 to wOth01e7 to wOth16e7 | Second worksheet row - other paid work. Start and end times of each job 'line' for each day - up to 16 job 'lines' allowed. |
| wTrv01s1 to wTrv16s1 to wTrv01e7 to wTrv16e7 | Third worksheet row - travelling while at work. Start and end times of each job 'line' for each day - up to 16 job 'lines' allowed |
| wTrv1 to Wtrv7 | Fourth worksheet row - main means of travel while at work. |
| W_Ind | Indicator question for whether respondent did any paid work/ education in the 7 days covered by the worksheet ie this indicates valid blank worksheets. |
| TotJob1 to TotJob7, TotJobWk | Total time spent on MAIN job/education for each day and for whole week. |
| Wd1_Ind to Wd1_Ind7 | Indicator field for whether any time was spent on MAIN job/ education for each day. |
| TotOth1 to TotOth7, TotOthWk | Total time spent on OTHER PAID WORK for each day and for whole week. |
| TotALLWk | Total time spent on main job AND other paid work for whole week. |
| TotTrv1 to TotTrv7, TotTrvWk | Total time spent on travel while AT WORK for each day and for whole week. |
| Person characteristics | Age & sex |

| | |
|--|---|
| Variables added from household questionnaire | This is the standard selection of hhld variables added to each data file, and includes: region, counts of adults & children in the hhld, HRP, spouse, tenure, car availability, gross household income and household type. |
| Variables added from person questionnaire | This is the standard selection of person variables added to each data file, and includes: economic activity, net income, hours worked, SOC & SIC, NSSEC and highest education qualification. |
| Weights | Weights based on 2001 Census |

VARIABLES IN DETAIL

| Field name | Fuller name | Description/ comments |
|--|--|---|
| FRONT COVER - SERIAL NUMBER & DAY 1 OF WORKSHEET | | |
| SN1 | Point number | Area / quota indicator |
| SN2 | Household number | |
| SN3 | Person number | SN1 + SN2+ SN3 are the unique serial number for each record. There are 9823 records on the file. |
| WSDay1 | Day 1 of the worksheet - Day of week | Duplicate fields WSDay2 to WSDay7 have been deleted from the old file. WSDay1 now moved to front of file, so it is in its natural order, and it has been fully labelled. |
| | Day 1 of the worksheet - Date | Not on data file |
| | Day 1 of the worksheet - Month | Not on data file |
| FIRST WORKSHEET ROW - TIME SPENT IN MAIN JOB OR FULL-TIME EDUCATION | | |
| wjob01s1 to wjob16s1 | Day 1 - main job/ education - START times | Day 1 - time 'main job/ education' STARTS 1 time for each line segment; up to 16 segments. The day is divided into 96 x 15 minute time periods for coding start time. |
| wjob01e1 to wjob16e1 | Day 1 - time each main job/ education ENDS | Day 1 - time 'main job/ education' ENDS 1 time for each line segment; up to 16 segments. The day is divided into 96 x 15 minute time periods for coding start time. |
| wjob01s2 to wjob16s2 | Day 2 - main job/ education - START times | Day 2 - time 'main job/ education' STARTS As above, 1 time for each line segment; up to 16 segments. |
| wjob01e2 to wjob16e2 | Day 2 - time each main job/ education ENDS | Day 2 - time 'main job/ education' ENDS As above, 1 time for each line segment; up to 16 segments. |
| wjob01s3 to wjob16s3 wjob01e3 to wjob16e3 | Day 3 - as above | Day 3 - as above |
| wjob01s4 to wjob16s4 wjob01e4 to wjob16e4 | Day 4 - as above | Day 3 - as above |
| wjob01s5 to wjob16s5 wjob01e5 to wjob16e5 | Day 5 - as above | Day 3 - as above |
| wjob01s6 to wjob16s6 wjob01e6 to wjob16e6 | Day 6 - as above | Day 3 - as above |
| wjob01s7 to wjob16s7 wjob01e7 to wjob16e7 | Day 7 - as above | Day 3 - as above |

| SECOND WORKSHEET ROW - TIME SPENT IN ANY OTHER PAID WORK | | |
|---|---------------------------------------|---|
| wOth01s1 to wOth16s1 | Day 1 - other paid work - START times | Day 1 - time 'other paid work' STARTS 1 time for each line segment; up to 16 segments. The day is divided into 96 x 15 minute time periods for coding start time. |
| wOth01e1 to wOth16e1 | Day 1 - other paid work - END times | Day 1 - time 'other paid work' ENDS 1 time for each line segment; up to 16 segments. The day is divided into 96 x 15 minute time periods for coding start time. |
| wOth01s2 to wOth16s2 | Day 2 - other paid work - START times | Day 2 - time 'other paid work' STARTS As above, 1 time for each line segment; up to 16 segments. |
| wOth01e2 to wOth16e2 | Day 2 - other paid work - END times | Day 2 - time 'other paid work' ENDS As above, 1 time for each line segment; up to 16 segments. |
| wOth01s3 to wOth16s3 wOth01e3 to wOth16e3 | Day 3 - as above | Day 3 - as above |
| wOth01s4 to wOth16s4 wOth01e4 to wOth16e4 | Day 4 - as above | Day 4 - as above |
| wOth01s5 to wOth16s5 wOth01e5 to wOth16e5 | Day 5 - as above | Day 5 - as above |
| wOth01s6 to wOth16s6 wOth01e6 to wOth16e6 | Day 6 - as above | Day 6 - as above |
| wOth01s7 to wOth16s7 wOth01e7 to wOth16e7 | Day 7 - as above | Day 7 - as above |

| THIRD WORKSHEET ROW - TIME SPENT TRAVELLING AT WORK (NOT TO OR FROM) | | |
|---|---|---|
| wTrv01s1 to wTrv16s1 | Day 1 - travel while AT work - START times | Day 1 - time 'travel while AT work' STARTS 1 time for each line segment; up to 16 segments. The day is divided into 96 x 15 minute time periods for coding start time. |
| wTrv01e1 to wTrv16e1 | Day 1 - travel while AT work - END times | Day 1 - time 'travel while AT work' ENDS 1 time for each line segment; up to 16 segments. The day is divided into 96 x 15 minute time periods for coding start time. |
| wTrv01s2 to wTrv16s2 | Day 2 - travel while AT work - START times | Day 2 - time 'travel while AT work' STARTS As above, 1 time for each line segment; up to 16 segments. |
| wTrv01e2 to wTrv16e2 | Day 2 - travel while AT work - END times | Day 2 - time 'travel while AT work' ENDS As above, 1 time for each line segment; up to 16 segments. |
| wTrv01s3 to wTrv16s3 wTrv01e3 to wTrv16e3 | Day 3 - as above | Day 3 - as above |
| wTrv01s4 to wTrv16s4 wTrv01e4 to wTrv16e4 | Day 4 - as above | Day 4 - as above |
| wTrv01s5 to wTrv16s5 wTrv01e5 to wTrv16e5 | Day 5 - as above | Day 5 - as above |
| wTrv01s6 to wTrv16s6 wTrv01e6 to wTrv16e6 | Day 6 - as above | Day 6 - as above |
| wTrv01s7 to wTrv16s7 wTrv01e7 to wTrv16e7 | Day 7 - as above | Day 7 - as above |
| FOURTH WORKSHEET ROW - MAIN MEANS OF TRAVEL WHILE AT WORK | | |
| wTrv1 | Day 1 - main mode of travel while at work | Categories are: car, van, bus, bicycle, foot, plane, train, minibus/coach, lorry, tractor, underground, other, missing and not apply. Note that the code 'other' now has the value 13 rather than 99 as previously, and new codes for 'missing' and 'not apply' have been added. |
| wTrv2 to wTrv7 | Day 2 to Day 7 - travel while AT work - END times | As above |
| THAT IS THE LAST FIELD RECORDED BY THE RESPONDENT IN THE WORKSHEET | | |

INDICATOR QUESTION FOR 'DID NOT DO ANY PAID WORK/ EDUCATION'

| | | |
|-------|---|---|
| W_ind | Indicator field - no paid work or education during worksheet period - ESTIMATED | <p>Replaces variable WNOT@98 which contained only missing values.</p> <p>Only worksheets with some time spent in paid work or education were coded.</p> <p>W_Ind is therefore generated from worksheet response data - a worksheet returned but not coded is estimated as one with no work/ education time. It is possible that some such worksheets may have had work time but were later rejected at the editing stage. However, indications are that there were very few of these.</p> <p>There are 9823 records on the file, of which 6131 have some time recorded, and 3692 are valid blanks.</p> |
|-------|---|---|

| DERIVED (IE SUMMARY) VARIABLES FOR 'TOTAL TIME' | | |
|--|---|--|
| TotJob1 to TotJob7 | Main job/ education: Total time each day, days 1 to 7 in turn (mins) | These are old variables TotDay1 to TotDay7 renamed and re-labelled. |
| TotJobWk | Main job/ education: Total time for whole week (mins) | This is old variable TotWk1 renamed and re-labelled. |
| Wd1_Ind to Wd7_Ind | Indicator fields for whether any time was spent on MAIN job/ education on day1, day2, etc . | These are derived from TotJob1 to TotJob7. These replace variables WDay1 to Wday7 which were labelled as "Corresponding day of the week for day 1", etc. They have been re-derived, renamed and re-labelled. |
| TotOth1 to TotOth7 | Other paid work: Total time each day, days 1 to 7 in turn (mins) | These are old variables Totdayb1 to Totdayb7 renamed and re-labelled. |
| TotOthWk | Other paid work: Total time for whole week (mins) | This is old variable TotWk2 renamed and re-labelled. |
| TotALLWk | Main Job/ Edn + other paid work: Total time for whole week (mins) | This is old variable TotWk renamed and re-labelled. |
| TotTrv1 to TotTrv7 | Travel while at work - Total time each day, days 1 to 7 in turn (mins) | No change to variable name, but these have been re- labelled. |
| TotTrvWk | Travel while at work -Total time for whole week (mins) | This is old variable TotTrv renamed and re-labelled. |

VARIABLES ADDED FROM OTHER TIME USE DATA FILES

In the previous version of the worksheet data file there were no variables brought in from other files. All the variables listed below are therefore new to this file.

| PERSON/ DIARY CHARACTERISTICS | | |
|--|---|---|
| Hage | Age of respondent | Age as given on household grid |
| Hsex | Sex | Sex as given on household grid. |
| HAgeGrp | Age group of respondent | Recode of Hage. 5 age groups: 8-15yrs, 16-24yrs, 25-44yrs, 45-64yrs, 65yrs or more. |
| VARIABLES ADDED FROM HOUSEHOLD FILE (this is the standard 'package' of household variables) | | |
| hday, hmonth, hyear | Day, month & year of household interview | |
| gorpaf gorpaf2 gorpaf3 | Government Office Region | GOR in 12 categories, 8 categories and 4 categories (countries) respectively. |
| pop_den | Population density | Units are persons per 10 hectares, and uses the 1991 Census data for postcode sector. |
| pop_den2 | Population density - bands | Recode of pop_den into bands |
| unemp | Unemployment rate | Unemp is a percentage. |
| unemp2 | Unemployment rate - bands | Recode of unemp |
| COUNTS OF ADULTS & CHILDREN - GENERAL | | |
| HNumb | Number of people in household | Counted from hhld grid |
| NumAdult | Number of ADULTS in household | Count of 16yrs or more from hhld grid. |
| NumChild | Number of CHILDREN in hhld | Count of 0 - 15yrs from hhld grid. |
| COUNTS - AGE GROUPS FOR YOUNG PEOPLE | | |
| Child | Whether child 0 - 15yrs in hhld | From hhld grid. |
| AgeYngst | Age group of youngest person in household | From hhld grid. |
| Num0_2 | Number of children 0 - 2 yrs | Counted from hhld grid. |
| Num3_4 | Number of children 3 - 4 yrs | Counted from hhld grid. |
| Num5_9 | Number of children 5 - 9yrs | Counted from hhld grid. |
| Num10_15 | Number of children 10-15yrs | Counted from hhld grid. |
| Num16_17 | Number of young adults 16-17yrs | Counted from hhld grid. |

| HOUSEHOLD REFERENCE PERSON & SPOUSE | | |
|--|--|--|
| HRP_per | Person number of household reference person | Based on questions hq2a and hq2b |
| Spouse1, Spouse2 | Person numbers of spouses | For hhlds with one married/ cohabiting couple, person number of each spouse identified. |
| TENURE | | |
| Tenure2 | Tenure - 3 categories | Recode of tenure |
| CAR/ MOTOR VEHICLE OWNERSHIP | | |
| CarAvail | Ownership/ use of car or other motor vehicle | This is a recoded version of question hq6a. |
| INCOME | | |
| GrosHinc | Gross household income - annual | 11 income bands. A straight copy of question hq10b, given a more helpful name. |
| HOUSEHOLD TYPE | | |
| Hhtype4 | Household type - 16 categories | Based on relationships on household grid eg single person hhld, married with children, married without children, cohabit, unrelated adults, etc See also LivArr from person file. |
| Hhtype5 | Household type - 8 categories | Hhtype4 recoded into 8 categories. |

| VARIABLES ADDED FROM PERSON QUESTIONNAIRE (this is the standard 'package' of person variables) | | |
|---|---|---|
| Manage2 | Management responsibilities | Indicates whether a manager, supervisor or have no management responsibilities |
| EconAct, EconAct3 | Economic activity (Employment status) | EconAct has the broadest categories (employed, unemployed, econ inactive). EconAct3 adds further distinctions eg full-time, part-time, retired, studying, etc. |
| EmpIncBd SEIncBd TotPInc | NET monthly personal income - banded | 3 income variables - for employees, for self-employed, then for both combined. See also gross household income (GrosHInc) . |
| Hrs_UnPd, Hrs_Job1, Hrs_Job2, Hrs_Tot, Hrs_Grp | Weekly hours worked | 5 variables - unpaid work, main job, second job, total hrs worked (for unpaid + main job + second job), then total hours grouped into 8 categories. |
| SIC | SIC for respondent's MAIN job | Standard Industrial Classification (4 digit, 1992) . |
| SOC | SOC for respondent's MAIN job | Standard Occupational Classification (2000). |
| SIC2 | SIC for respondent's SECOND job | Standard Industrial Classification (4 digit, 1992) . |
| SOC2 | SOC for respondent's SECOND job | Standard Occupational Classification (2000). |
| NSSECB, NSSECB_8, NSSECB_5, NSSECB_3 | National Statistics Socio-Economic Classification | 4 variables - full classification, 8 categories, 5 categories & 3 categories. |
| HiQual4 | Highest Education qualification | Hiqua4 includes a category for those with no qualifications. |
| AgeLeft | Age left full-time education (grouped) | This is Q23a banded. |
| LivArr | Living arrangements | Living arrangement as reported by respondent on the person qnre at questions 55 & 56 eg married, cohab, single, divorced, etc. See also HHTYPE4 & HHTYPE5. |
| ProvCare | Whether cares for elderly/ sick person | Based on Q45 & Q47 from person qnre. |

| WEIGHTS | | |
|----------------------|---|--|
| WtWrk_gr WtWrk_ug | Diary weights - grossed and ungrossed | <p>There were no weights on the previous version of this data file.</p> <p>Grossed and ungrossed weights respectively.</p> <p>These use the recent 2000 population estimates based on the 2001 Census.</p> <p>All 9823 worksheets on the data file (including valid blanks) are treated as response.</p> |

ONS
New Sources Implementation Branch
11 July 2003

UK Time Use Survey 2000/01 - Understanding the weights

Introduction

This document explains:

- The purpose of weights
- For each data file in turn:
 - the weights available
 - how the weights were derived

The purpose of weights

The overall reason for weighting is to compensate for the ways in which the survey data may not be representative of the population. There can be different reasons why survey data is not representative, and we can correct for each:

Different sampling probabilities

We can weight to remove the bias caused by the use of different sampling probabilities. For example, in surveys where only one adult per household is interviewed, those living in households with more than one adult will have a lower probability (less of a chance) of being selected than those adults living on their own. Similarly, some surveys may deliberately under- or over-sample some categories of person, which would then need to be corrected for at the weighting stage.

Sample-based non-response weighting.

We can weight to correct for the bias caused by particular groups in the sample not responding to the survey. For instance, young single men are typically hard to contact and interview, and non-response weights would correct for their under-representation in the survey data.

Population-based non-response weighting

We can weight to make sure that the proportions of people in, for example, each age group, sex and region are the same in the sample as they are in the whole population. Population-based weighting will also compensate for non-coverage of the sampling frame and random sampling imbalance (i.e. when the sample selected does not exactly mirror the population) as well as non-response.

Weighting to population levels

The weighting described above will give us figures for the number of people in the sample (and therefore the proportions of the sample) that for example swim, watch TV, or do whatever. We can also devise a 'grossing' weight which will inflate these figures to the total number of people in the population who swim, watch TV etc.

The Time Use Survey uses weights for all of the reasons above.

Time Use Survey - background

The survey was designed to achieve a representative sample of the population of households and individuals in private households in the UK. Selected household heads or their partners completed a household questionnaire. All individuals aged 8 or over were asked to complete individual questionnaires, two one-day diaries (for a weekday & a weekend day) and a one week work and education time sheet. Four data files were produced: a household questionnaire file, an individual questionnaire file, a diary file and a 'worksheet' file.

Below we look at each data file in turn, and describe the weights available and how they were derived. The most detailed explanation is given for the diary file weights. Much of this explanation then also holds true for the weights on the other data files.

1 Diary weights

1.1 Diary weights available

There are two weights on the diary file

- (i) wtdry_ug - the 'ungrossed' weight, which weights to the achieved sample size.
- (ii) wtdry_gr - the 'grossed' weight, which weights to UK population of those aged 8yrs or more living in private households (52,222,149)

These take into account (i) survey non-response and (ii) the differential sampling of weekdays & weekend days.

The weight most often used is wtdry_ug, which produces tables which show the same sample total as the unweighted tables (i.e. the same number as the achieved sample, 19,898 records).

1.2 Deriving diary weights

Calculating the diary weights is a two stage process:

- (a) Calculating the preliminary non-response weights
- (b) Weighting (or 'calibration') to UK population characteristics

These are explained more fully below:

a) Non-response weights

We actually looked at response, which is the inverse of non-response. Response was divided into 3 components:

- (i) Household contact rate
- (ii) Household co-operation rate
- (iii) Diary response rate.

Separate models were constructed to predict each of these response rates. A software package called 'Answertree' was used to find the variables which were the best predictors of each component of response. These variables included region, population density, household income, household type, tenure, number of children, and so on.

For each of these 3 components of response, people were placed into categories and the response rate calculated for each category. The weights were then the **reciprocals** of the 3 response rates, and a preliminary non-response weight was calculated as the product of these 3 weights.

Applying these preliminary weights therefore raises the number of people in the achieved sample to the number of people in the set (or drawn) sample.

Definition of diary response

A person was counted as responding if they had completed 1 or more diaries **of the required standard**. A diary is of the required standard if it has (a) 90 minutes or less of missing time (i.e. time unaccounted for) and (b) 5 or more separate 'episodes'. A new episode is defined if any details relating to an activity change from one time period to the next i.e. if there is a new main or secondary activity, a new location, or who the activity was carried out with changes.

The weights on the previous version of this data file used a different definition of response - all diaries were included (20,981), irrespective of the amount of missing time. The new definition of response on the current data file means that we include 19,898 diaries as 'response'. However, all 20,981 diaries remain on the data file, but only the 19,898 diaries (NB kept by 10,381 people) which count as response have weights (for the rest the weights are missing).

b) Calibration to UK population characteristics

The next step was then to weight this pre-weighted sample to be representative of the UK population. This was done for age group by sex and separately for Government Office Region. A calibration method (using software called CALMAR) was used which aimed to align **both** the household and individual distributions of the sample on these characteristics with the UK population. Calibration weighting is a sophisticated method of weighting which can align the sample distributions with those in the population on several characteristics simultaneously, while maintaining the initial weights as closely as possible. Thus it ensures that when we get the correct age group/sex and region distributions for individuals and also the best possible estimates of the unknown household distributions based on these characteristics (e.g. of household size, households with children etc.).

Day of week and month calibration

The weighting so far gives us a diary file with the correct person distribution. We also need to ensure we have a correct diary-day distribution i.e. that we have the same number of diaries for each day. There were different sampling rates for weekdays & weekends (weekends were oversampled), and some respondents completed only one diary day rather than the two requested.

We also know that the sample size varies by month (for instance, the sample in December was quite low). Therefore, to avoid a seasonal bias in the data, the calibration also aligned the sample to flat distributions across the 12 months as well as the seven days of the week.

On the previous version of this data file the seasonal and weekday/ weekend adjustment had been carried out as a third weighting step, after the calibration to population characteristics, and using different population categories. By incorporating this step with the calibration weighting we ensure that the sample distribution remains the same as the UK population distribution.

The population information for this exercise came from 2000 population estimates based on the 2001 Census (the weights on the previous version of this data file had used 2000 population estimates based on the 1991 Census).

* For a detailed explanation of the derivation of the weighting categories see '*Non-response weighting on the ONS Time Use Survey*', Dave Elliot, July 2002.

2 Individual questionnaire weights

2.1 Individual weights available

There are two weights on the individual questionnaire file

- (i) Wtpq_ug - the 'ungrossed' weight, which weights to the achieved sample size.
- (ii) Wtpq_gr - the 'grossed' weight, which weights to UK population of those aged 8yrs or more living in private households (52,222,149)

The weight most often used is the ungrossed weight, wtpq_ug, which produces weighted tables which have the same total as the unweighted tables (i.e. the achieved sample size, 11664 records).

Note that the previous version of this data file had weights (grossed only).

2.2 Deriving individual weights

a) Non-response weights

These were calculated using 3 separate models for response, similar to those created for diary response. A non-response weight had been calculated in this fashion for the previous version of this data file, and this work was still considered valid for the new weights.

b) Calibration to UK population characteristics

The weighted individual questionnaire data was then further weighted to match the new data for UK population characteristics. This was carried out for age group by sex and separately for region. No adjustment was made for season.

3 Worksheet weights

3.1 Worksheet weights available

Note there were no weights on the previous version of the worksheet data file.

There are two weights on this worksheet file

- (i) WtWrk_ug - the 'ungrossed' weight, which weights to the achieved sample size.
- (ii) WtWrk_gr - the 'grossed' weight, which weights to UK population of those aged 8yrs or more living in private households (52,222,149)

The weight most often used is the ungrossed weight, wtwrk_ug, which produces weighted tables which have the same total as the unweighted tables (i.e. the achieved sample, 9823 records).

3.2 Deriving worksheet weights

We have worksheets for 9823 people (including valid blanks for those not working). Most of those who completed a worksheet also completed a diary. Because of this overlap we are able to use existing weights mainly from the diary rather than create them from scratch.

a) Non-response weights

These were taken from the file of those keeping diaries. Where no diary weight existed, a questionnaire weight was used.

b) Calibration to UK population characteristics

The weighted worksheet data was then further weighted to match the new UK population characteristics. This was carried out as for the diary i.e. for age group by sex and separately for region, but omitting the adjustment for season and day of week.

4 Household questionnaire weights

3.1 Household weights available

Note there were no weights on the previous version of the household data file.

There are three sets of weights on this household file

- (i) Households with diary-keepers: WtDh_ug & WtDh_gr - 'ungrossed' & 'grossed' weights respectively for those households containing people who kept diaries (4981 households). Response is defined as a household having at least one diary (these households therefore account for all the diaries in the diary file).

- (ii) Households with worksheet-keepers: WtWh_ug & WtWh_gr - 'ungrossed' & 'grossed' weights respectively for those households containing people who kept worksheets (4687 households). Response is defined as a household having at least one worksheet (these households therefore account for all the worksheets in the worksheet file).

- (iii) Households with diary and worksheet-keepers: Wtdwh_ug & Wtdwh_gr - 'ungrossed' & 'grossed' weights respectively for those households containing both diary-keepers and worksheet-keepers (4596 households). Response is defined as a household having at least one worksheet **and** at least one diary (note this is **and**, not **or**).

There are no separate weights for non-response to the household questionnaire - it is anticipated that household data will only be used in conjunction with the dairy or worksheet data. So, if one were creating household aggregates from the diary file and wanted to look at the characteristics of those households, WtDh_ug or WtDh_gr should be used.

4.2 Deriving household weights

a) Non-response weights

It was not necessary to derive these from scratch. For all 3 sets of weights, these were taken from the files of those keeping diaries or those keeping worksheets.

b) Calibration to UK population characteristics

The weighted household data was then further weighted to match the new UK population characteristics. This was carried out as for the diary i.e. for age group by sex and separately for region, but omitting the adjustment for season and day of week.

5 Diary file - person level weights

5.1 Diary - person level weights available

There is a file separate from the 4 data files which contains 2 person level weights for the diary:

- (i) WtDt_ug - the 'ungrossed' weight, which weights to the achieved sample size.
- (ii) WtDt_gr - the 'grossed' weight, which weights to UK population of those aged 8yrs or more living in private households (52,222,149)

These are the weights to use for carrying out any analysis of diary data at person level i.e. when the diary data has been aggregated to produce averages per person rather than per day. There were 10,381 people who completed 19,898 diaries. Of necessity these weights have been stored in a separate file from the individual questionnaire file because we have diaries completed by those who did not complete an individual questionnaire.

4.2 Deriving diary person-level weights

These weights were an interim step in the production of the diary file weights:

a) Non-response weights

These were simply the non-response weights from the calculation of the diary file weights.

b) Calibration to UK population characteristics

These were the calibration weights for the diary file, with the seasonal adjustment but without the day-of-week adjustment.

ONS

16 July 2003

Nonresponse Weighting on the ONS Time Use Survey

Dave Elliot

1 Introduction

The UK 2000 Time Use Survey was conducted on behalf of a funding consortium consisting of: the Economic and Social Research Council; the Department of Culture, Media and Sport; the Department for Education and Skills; the Department of Health; the Department of Transport, Local Government and the Regions; and the Office for National Statistics. The main aim of the survey was to measure the amount of time spent by the UK population on various activities. The UK 2000 Time Use Survey is the first time that a major survey of this type has been conducted in the UK and as such will provide an opportunity to inform a cross-section of policy areas as well as having interest for academia, social research centres and the advertising and retail sector.

The survey was designed to achieve a representative sample of the population of households and individuals in the UK. Selected household heads or their partners completed a household questionnaire. All individuals aged 8 or over were asked to complete individual questionnaires, two one-day diaries and a one week work and education time sheet. A response rate of 61% was achieved for the household questionnaire and 73% of eligible people within those households completed a diary giving a net diary response rate of 45%. This is a higher response rate than those obtained in several other Time Use surveys conducted around the same time in other European countries. Nevertheless this level of non-response is likely to give rise to some bias in the results and this paper describes work carried out to analyse non-response and to devise a weighting strategy for the survey to minimise the impact of non-response on the survey estimates.

2 Response Rates

The initial analysis of nonresponse was performed using data from the first three months of the survey and the basic methods of nonresponse adjustment were determined from this analysis. However, once the full year's data became available, the analysis was repeated and some of the detailed classifications were changed. Consequently, while most of this report reflects the full year's data, a few tables still use data from the first quarter only.

In a multi-part survey such as the TUS, response rates may be defined in several different ways. The survey consists of the following parts:

- a) A short interview with a responsible adult from the household who identifies all adult members of the household, thus permitting the selection of a single adult from the household. A few additional household items are collected at this point.
- b) An individual interview with each person in the household aged 8 or over
- c) One week-day diary of time use.
- d) One week-end day diary of time use
- e) Some other parts apply to subgroups of the responding sample.

For the purpose of this study, and for comparability with the 1997 pilot, full response to the survey is defined as someone for whom parts (a), and (c) or (d) or both are available.

3 Sources of Auxiliary Data

The PAF address sample was linked by an external company, Experian¹, to their database of household information, derived largely from the Electoral Registers which included information about household structure, lifestyle, income and housing.

As well as these linked variables, the postcode sector of each address is available, so a range of data is available from the 1991 Census for the primary sampling units. For this work we have linked the indicators normally used for stratifying Sector-based samples. These include:

- Standard Statistical Region
- Government Office Region
- Population density
- % Owner-occupiers
- % Car owners
- % Pensioners
- % Professionals and managers
- % Born in New Commonwealth
- % Economically active
- % Unemployed.

For all households that completed a household interview, a number of other variables are available.

In addition, for the 1523 persons who completed an individual questionnaire but no diary, as well as the 10140 persons who completed both, a further range of variables is available for nonresponse weighting. These variables include economic status, various employment variables, carer status and personal income.

4 Analysis of Household Nonresponse

The software package “Answertree” was used to identify the variables and codes that best describe the pattern of response on this survey. This procedure progressively splits the sample into groups on the basis of the auxiliary information available so as to maximise the differences in response rates. It is therefore able to take into account “interactions” between these variables, for example the single best predictor of response may be region but in some regions, variable A may be the next best predictor, whereas in other regions variable B may be best. In yet other regions, no other variable may be useful. At the same time it makes an allowance for the multiple comparisons it is implicitly making and stops when further splits are not significant. Answertree imposes a minimum group size. This was set to 50 when analysing the first quarter’s data but increased to 100 when analysing the full data in an attempt to improve the overall robustness of the solution.

There has been a substantial body of research that indicates that the factors that predict contact rates differ substantially from those that predict co-operation rates. Consequently the response rate was broken down into its component parts for this analysis. Three separate models were run:

- a) Predicting contact with the household (address)
- b) Predicting household co-operation given contact
- c) Predicting individual completion of diaries given household co-operation

In each case the various possible explanatory variables were introduced in groups, starting at the lowest level of aggregation. For example, in the household co-operation model, household and address-level variables were considered before area-based variables (including Mosaic Postcode Type) and finally region. One reason for this is that the significance tests provided by Answertree are not valid for the aggregated variables – they will not be too bad for household variables in the individual model but they will be totally inappropriate for the area variables. Another reason is that it has been found empirically on other surveys that although such area-based variables appear to explain the variation in response rates better than individual variables, weights based on area-based groups have little effect on substantive survey estimates.

A second argument against introducing region at the outset is that this would normally also be used in the final stage of calibration weighting to population totals so introducing it at this initial stage would duplicate this and would tend to preclude the use of other relevant predictors of response. However, allowing it to be used as a final predictor within each of the identified response groups does permit the interactions between region and the other predictors to come out, whereas restricting its use to calibration weighting does not.

Answertree permits three types of predictor variables: qualitative variables where the categories can be grouped together in any way; ordinal variables where the order of the codes must be retained in any grouping and continuous variables where in practice the program forms the decile groups then treats these variables as ordinal.

The PAF sector-based explanatory variables were initially treated as continuous but this combined with the lack of valid significance tests produced too many small groups so these variables were finally always grouped in a rather ad hoc way into just two groups. The numerical variables (such as the Experian household income) were generally treated as ordinal but when this produced 4 or more categories, some groups were usually combined on the grounds of implausibility – thus I permitted such variables to have U-shaped relationships with response but no more elaborate patterns than this. A few other groupings were rejected on the grounds of implausibility.

4.1 Predicting household contact

A contact with a member of a relevant household was made with 9662 of the eligible sample 10674 addresses: a contact rate of 91%.

Eight groups were identified in this model (Figure 1) with contact rates varying between 71% and 95%. The variables used to define the groups are:

- the Experian variable “Household Composition”
- the sector-level variable, the population density
- the Standard Statistical Region.

4.2 Predicting household co-operation

Of the 9662 contacted households, a household interview was obtained in 6414, a co-operation rate of 66%.

18 groups were identified in this model (Figure 2) with co-operation rates varying between 41% and 85%. The variables used to define the groups are:

- the Experian variable, “Lifestage”
- the Experian variable, “Mosaic Household Type”
- the Experian variable, “Household Income”
- the sector-level variable, population density
- the sector level variable, % pensioners
- the Standard Statistical Region.

4.3 Predicting diary response

Of the 14423 eligible persons in the 6414 responding households, 10575 completed one or two daily diaries, a response rate of 73%. Of these, 435 did not complete an individual interview.

28 groups were identified in this model (Figures 3.1–3.4) with response rates varying between 52% and 90%. The variables used to define the groups are:

- the household interview variable, household type
- the household interview variable, car ownership
- the household interview variable, the number of children aged under 8
- the household interview variable, tenure
- the Experian variable, “Household Income”
- the Experian variable, “Household Composition”
- the Experian variable, “Decision Maker”
- the Experian variable, “Lifestage”

A separate analysis was made of the 2615 persons who had completed an individual interview and the 2345 who subsequently completed one or more diaries from the first quarter. Similar (though not identical) groups were identified in this analysis but, rather surprisingly², none of the potential predictors from the individual interview was selected. In view of this, it was decided to group all of the diary-keepers together as a single group. Thus sex, available from the household interview, was the only person-level predictor used in this model. As sex was only used as the final discriminator in two branches of this rather elaborate model and as there are some advantages in developing a household-level weight, sex was not used at this stage of the weighting.

Figure 1. Analysis of Contact Rates

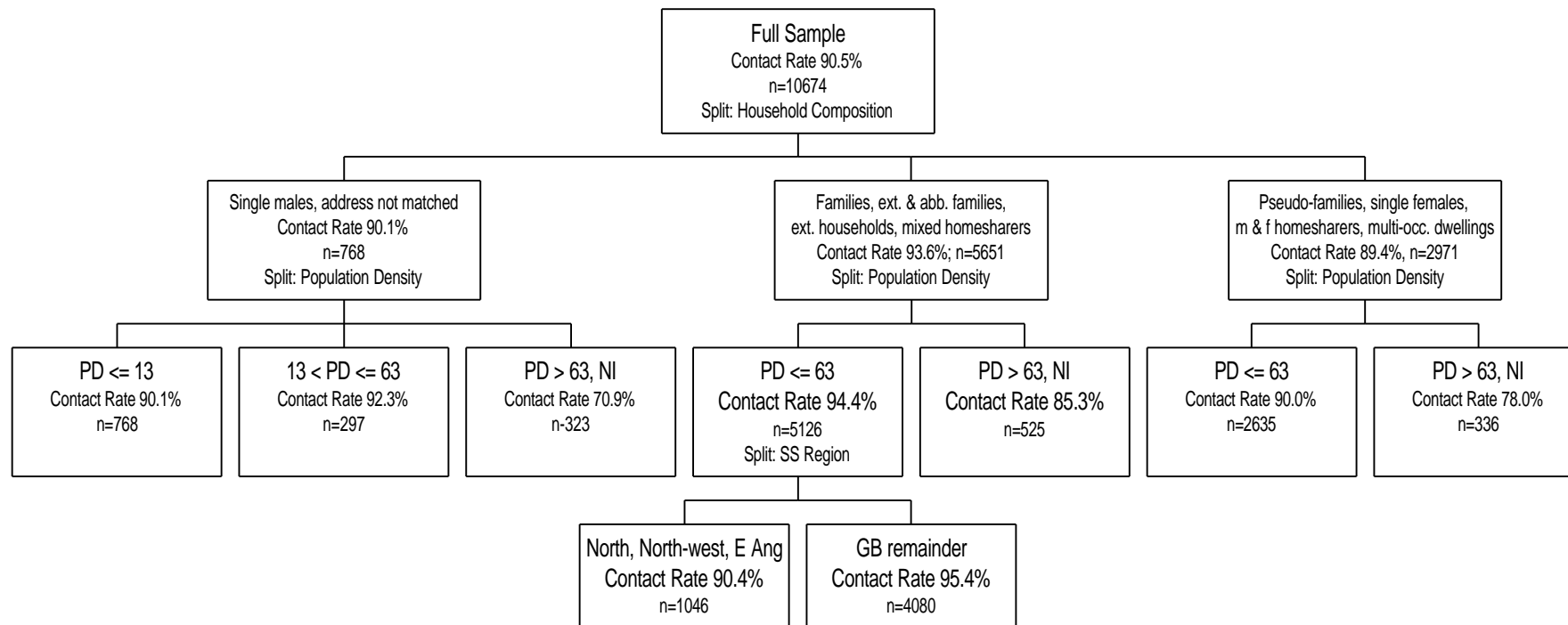


Figure 2. Analysis of Co-operation Rates

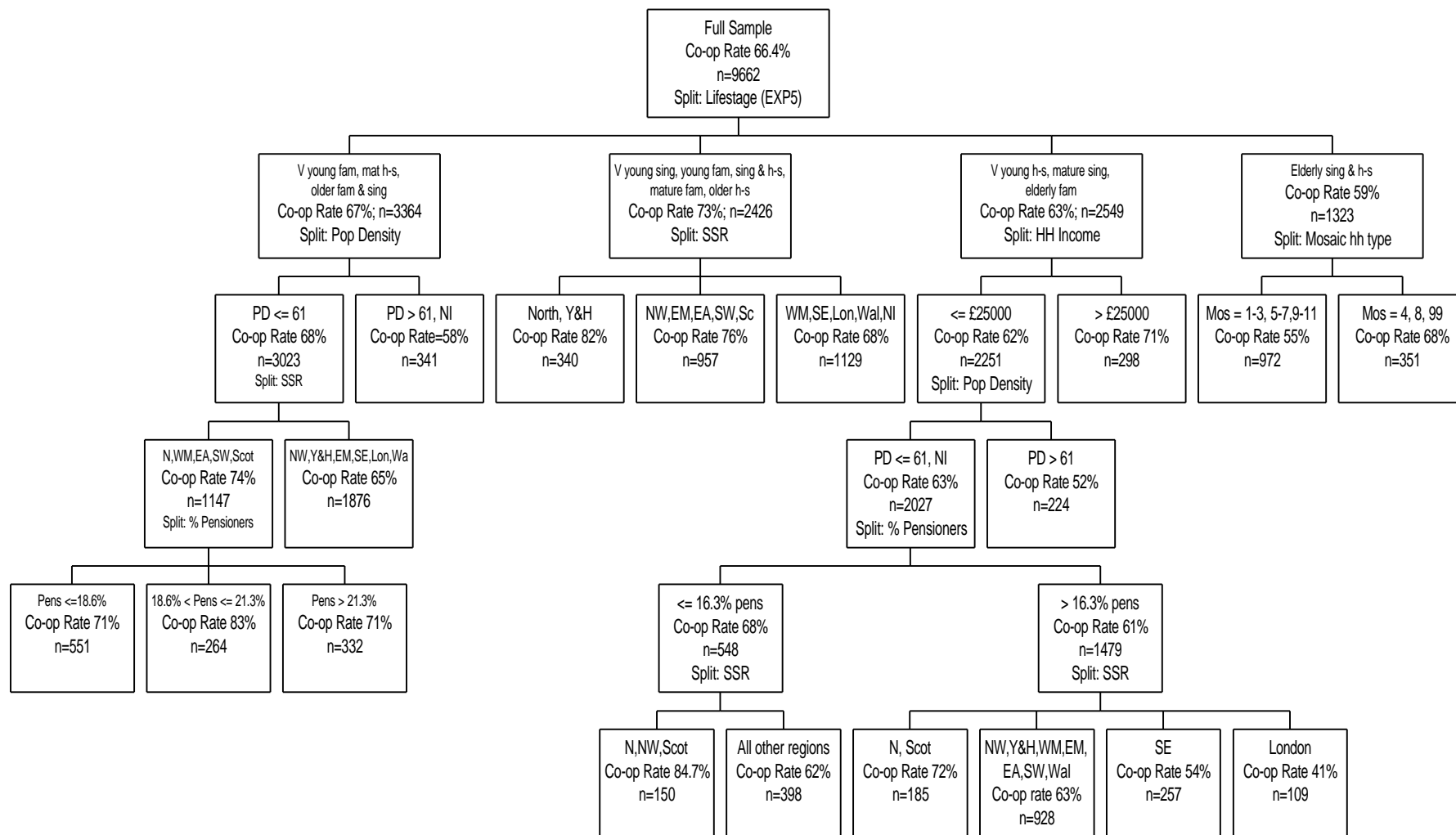


Figure 3.1 Analysis of Diary Completion

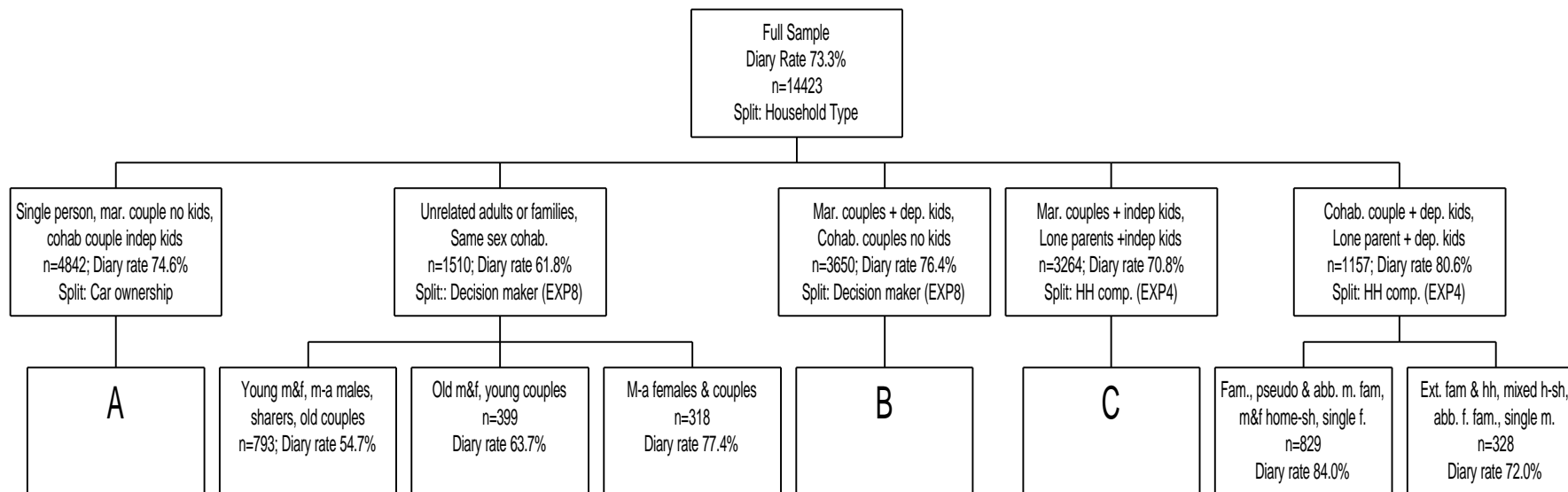


Figure 3.2 Analysis of Diary Completion

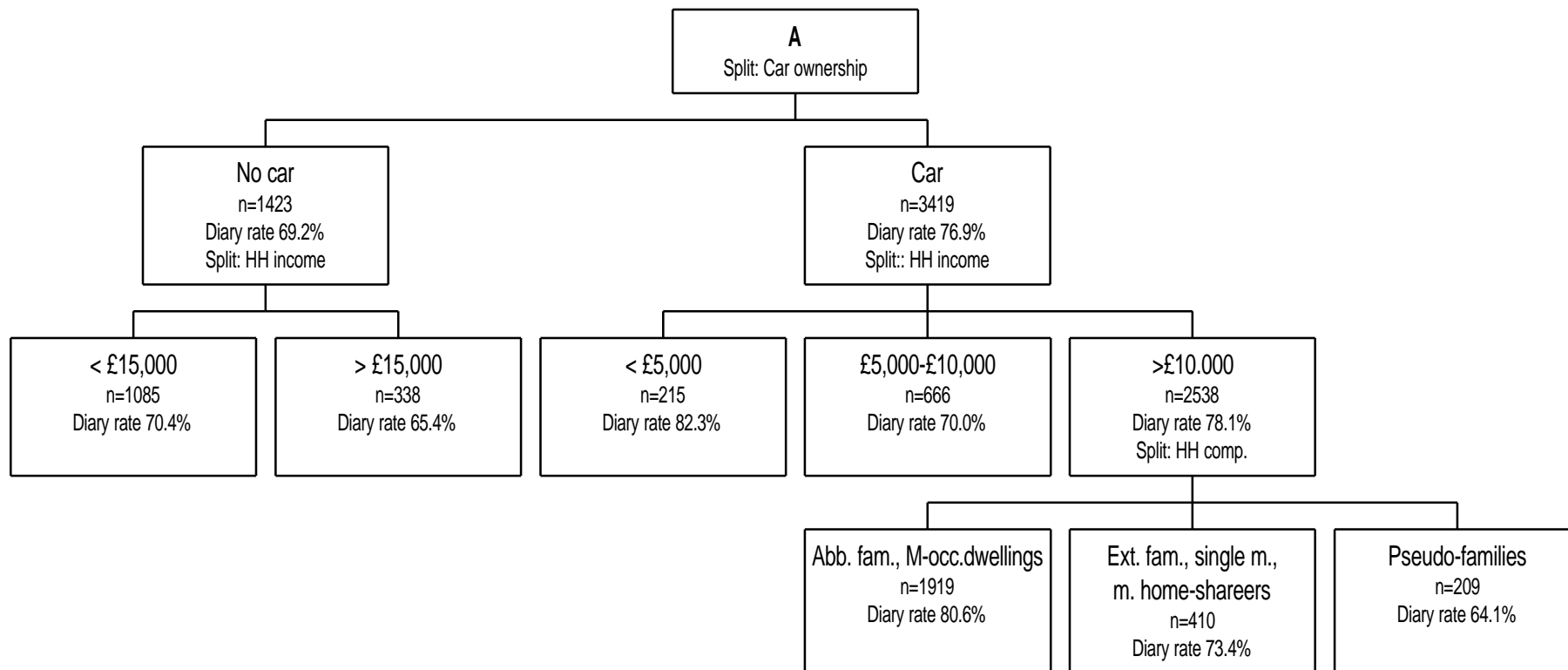


Figure 3.3 Analysis of Diary Completion

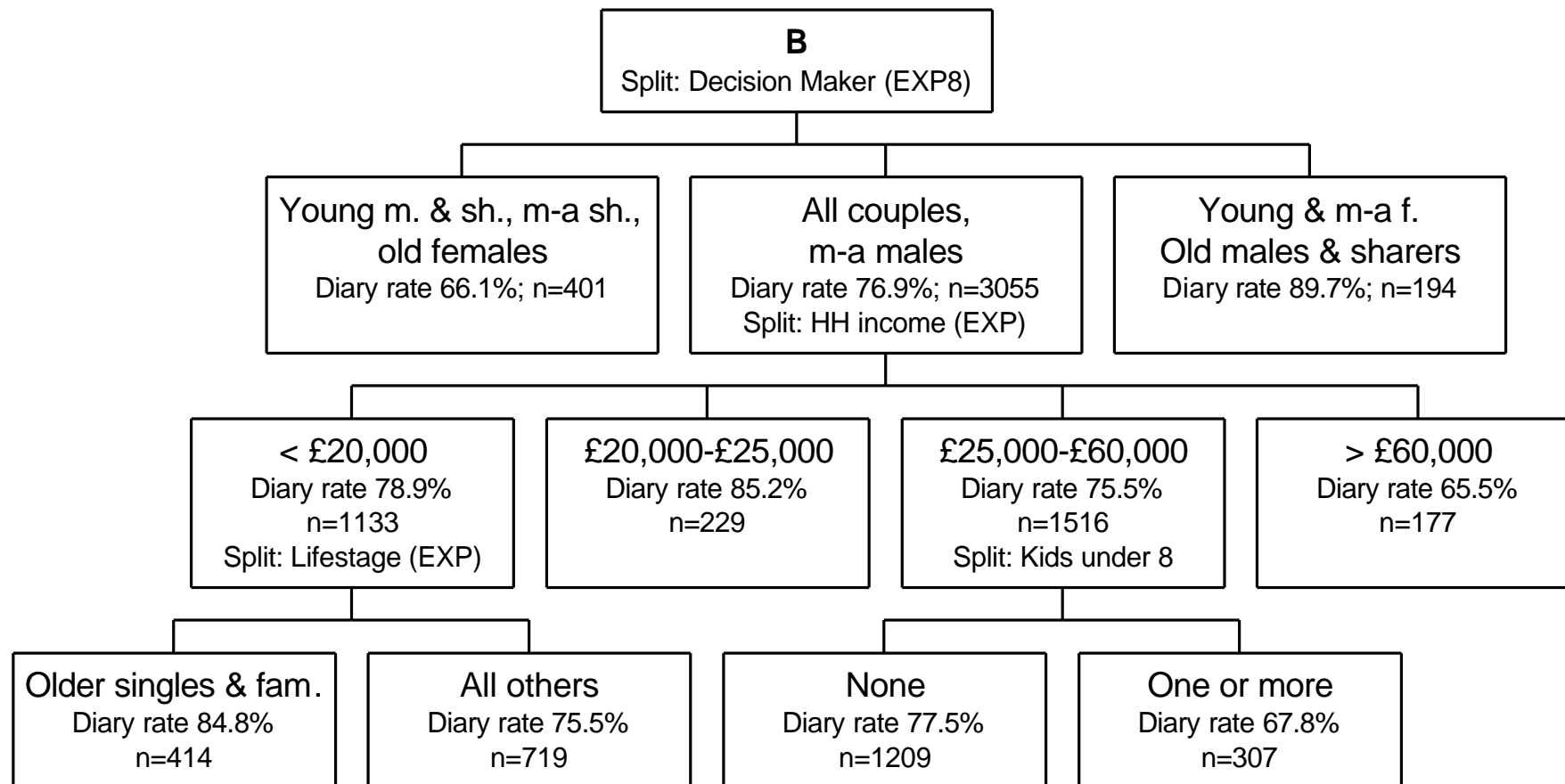
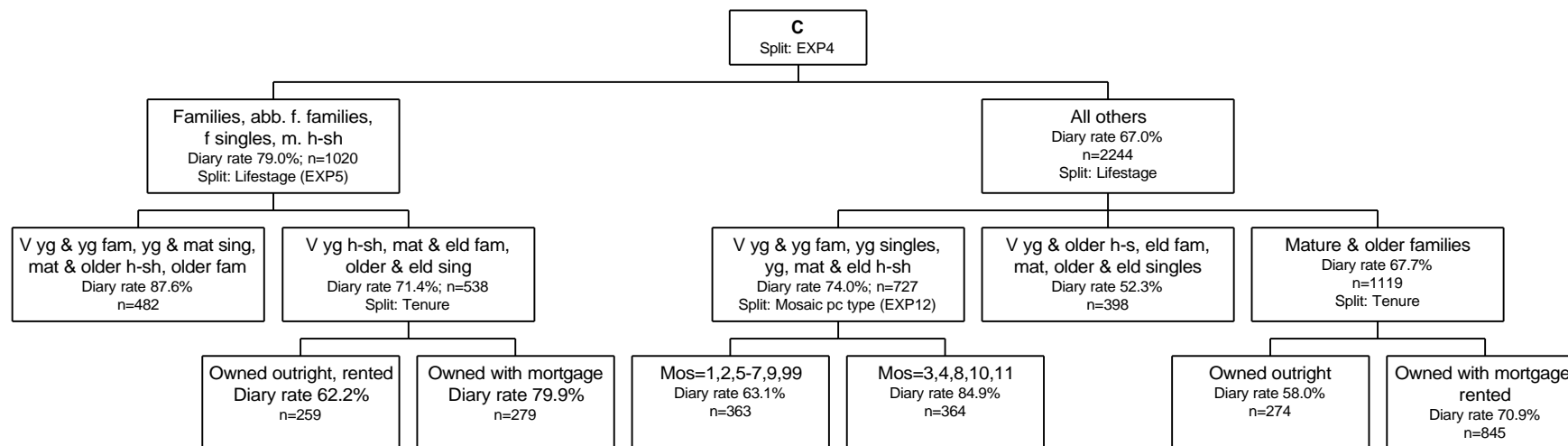


Figure 3.4 Analysis of Diary Completion



4.4 Constructing Nonresponse Weights

A preliminary nonresponse weight can be constructed as the product of the reciprocals of these three response rates. This produces weights that vary from 1.41 to 5.17 with a mean of 2.3 and a standard deviation of 0.5. This broad range of weights is wider than is normally considered desirable due to the impact on the variance. However, with overall response to the survey so low, the risk of serious nonresponse bias is high so reducing this risk must take precedence over increases of variance.

5 Calibration Step

Most ONS general population surveys now calibrate their sample to population totals using some combination of age, gender and area. The EFS and GHS and the household file of the LFS all use a household-based method that calibrates to age group by sex in one dimension and Government Office Region in another. The LFS on the other hand calibrates at the person level on age group by sex by region in one dimension and Local Authority District in another.

We proposed that that the TUS data be calibrated to

- A. Age group (8-11, 12-15, 16-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50,54, 55-59, 60-64, 65-69, 70-74, 75 and over) by sex totals
- B. Government Office Region (plus Wales, Scotland, Northern Ireland) totals for persons aged 8 or over

For household level weights, we would want to include all persons in the household, including those aged under 8, so in that case we should want to replace the first two age groups in A, above, by the three used for the LFS: 0-4, 5-9 & 10-15.

The calibration was performed using the restricted logit method in CALMAR with the aim of minimising the range of allowable weights. The input data set contains all persons who completed at least one day's diary. This means that when looking at the subgroups who provided each of the diary days, there will be some shortfall in the population sizes.

Three different sets of individual weights are considered below.

CW1 uses the nonresponse weights developed earlier as prior weights and then calibrates to person totals via individual characteristics. A very similar set of weights could be derived by applying a raking or rim-weighting adjustment to the sample frequencies, pre-weighted by the non-response weights described earlier. This weight in effect treats both the nonresponse probability and any random departures from the population distributions as characteristics of the individual and is similar to the weighting method used by the Labour Force Survey. Although not obviously appropriate here, it is relatively simple to apply so might be preferred if it gave similar results to the more complex methods considered below.

CW2 uses the nonresponse weights developed earlier as prior weights and then calibrates to person totals via the characteristics of all respondents within the household. This treats both the nonresponse probability and random variation as characteristics of the reduced households containing just those individuals who responded. Although it would seem more natural to use the characteristics of *all* persons on the responding households, rather than just the responding persons, the resulting weight would then under-represent the types of people who did not respond within those households. If data from individual households are amalgamated for some analyses, this could also be used as a household-level weight.

CW3 calibrates in two steps. First it uses the nonresponse weights developed earlier as prior weights and then calibrates to person totals via the characteristics of all persons within the

household. Then it uses the output from this step as a prior weight and calibrates to person totals via individual characteristics. This seems to mirror most closely the fact that nonresponse occurs at both the household and person levels but is obviously rather more complicated to derive than the other alternatives. The weight for the first step of this calibration process could also be used as an alternative household-level weight but would only be appropriate if missing values were permitted or imputed for the missing individuals within partially-responding households.

Summary statistics for these weights using data from the first quarter are in Table 1

Table 1 Summary statistics for weights

| | Mean | CV | Min/Mean | Max/Mean |
|-----|-------|-----|----------|----------|
| CW1 | 21292 | 46% | 0.42 | 10.2 |
| CW2 | 21292 | 61% | 0.40 | 9.7 |
| CW3 | 21292 | 54% | 0.35 | 9.9 |

6 Effect on Selected Estimates

The effect on the 2-digit activity totals for weekdays and separately week-end days using data from the first quarter were measured and are reported in Table 2 below. The table shows the unweighted means and the weighted means minus the unweighted means as a proportion of the unweighted means. Thus, for example, estimates of the mean of SUM01 formed using weights CW2 and CW3 are 1% lower than the unweighted means. Estimates produced using the simpler CW1 show substantial differences from those produced by CW3 for many of the activity codes and therefore the former should not be used for individual estimates. The differences between the estimates produced by the respondent-within-household weight, CW2 and the two-step person weight, CW3 are less marked and are mainly confined to codes for study, voluntary work, housework and construction/repairs. Nevertheless, as some of these may be important inputs to the Household Satellite Accounts, CW3 should probably be preferred for individual estimates.

Note that as this data has not been fully imputed, the effects of the weighting on the average activity times could be greater or smaller than those reported here. The effect of applying CW3 varies between increases of 116% and reductions of 45% in the means of the 2-digit summary variables. However most of the large proportional changes are confined to codes with very small means. Nonetheless some changes of up to 15% are noted in some non-negligible estimates.

Table 2 Effect of Weighting on Summary Activity Codes.

| Variable | | Unweighted Mean | % Change in Weighted Estimates | | |
|-----------------------|-----------------------------|-----------------|--------------------------------|------|------|
| | | | CW1 | CW2 | CW3 |
| Week-day Codes | | | | | |
| 01 | Sleep | 513.38 | 0% | -1% | -1% |
| 02 | Eating | 78.87 | 1% | 2% | 2% |
| 03 | Other personal care | 45.15 | 1% | 0% | 1% |
| 11 | Main job | 178.65 | 4% | 4% | 4% |
| 12 | Second job | 1.75 | 6% | 13% | 12% |
| 13 | Employment activities | 2.97 | 2% | 2% | 0% |
| 20 | Unspecified study | 0.05 | -39% | -45% | -45% |
| 21 | School or university | 36.90 | -14% | -18% | -12% |
| 30 | Household & family care | 0.36 | -21% | -20% | -22% |
| 32 | Household upkeep | 30.32 | -1% | 0% | -1% |
| 35 | Construction & repairs | 6.70 | 11% | 9% | 12% |
| 36 | Shopping & services | 27.48 | -1% | 3% | 0% |
| 37 | Household management | 2.30 | 21% | 27% | 23% |
| 38 | Childcare (own household) | 19.67 | -7% | -4% | -6% |
| 39 | Help for adult in household | 1.35 | -17% | -19% | -16% |
| 40 | Unspecified voluntary work | 0.05 | 3% | -24% | 2% |
| 41 | Organisational work | 2.50 | -14% | -13% | -7% |
| 42 | Informal help to others | 6.18 | 2% | 5% | 2% |
| 53 | Resting | 23.69 | 0% | 0% | -2% |
| 61 | Physical exercise | 17.79 | -4% | -3% | -3% |
| 62 | Productive exercise | 1.33 | -23% | -36% | -33% |
| 63 | Sports activities | 0.58 | -7% | -20% | -19% |
| Week-end Codes | | | | | |
| 01 | Sleep | 550.00 | 0% | 0% | 0% |
| 02 | Eating | 93.09 | 1% | 0% | 0% |

| Variable | | Unweighted Mean | % Change in Weighted Estimates | | |
|----------|-----------------------------|-----------------|--------------------------------|------|------|
| | | | CW1 | CW2 | CW3 |
| 03 | Other personal care | 46.75 | 0% | -1% | 0% |
| 11 | Main job | 52.15 | 6% | 5% | 6% |
| 12 | Second job | 1.06 | 95% | 118% | 116% |
| 13 | Employment activities | 0.61 | 6% | 6% | 4% |
| 20 | Unspecified study | 0.15 | 29% | -32% | -12% |
| 21 | School or university | 3.17 | -2% | -10% | 1% |
| 30 | Household & family care | 0.68 | -11% | -36% | -29% |
| 32 | Household upkeep | 33.62 | 1% | 2% | 2% |
| 35 | Construction & repairs | 10.52 | 1% | -6% | -1% |
| 36 | Shopping & services | 32.30 | -4% | -2% | -4% |
| 37 | Household management | 1.98 | -1% | 1% | -3% |
| 38 | Childcare (own household) | 20.21 | -5% | -2% | -3% |
| 39 | Help for adult in household | 1.30 | -9% | -8% | -13% |
| 41 | Organisational work | 2.84 | 6% | -3% | 5% |
| 42 | Informal help to others | 7.68 | 1% | -2% | 2% |
| 53 | Resting | 25.62 | 4% | 6% | 4% |
| 61 | Physical exercise | 22.79 | -3% | -2% | 1% |
| 62 | Productive exercise | 1.19 | -13% | -27% | -23% |
| 63 | Sports activities | 1.05 | 5% | -6% | 4% |
| 70 | Unspecified hobbies & games | 0.02 | 31% | 36% | 23% |

7 Conclusions

Analysis of the factors that influence the different types of nonresponse was undertaken and a four stage weighting strategy proposed:

- i) Weighting to account for complete non-contact with the sampled addresses. As found in other studies, population density is particularly useful for this but the Experian “Household Composition” variable which concentrates on the gender and relationships between household members was also useful in explaining the variation. Response rates here show relatively little variation compared with the other types of nonresponse.
- ii) Weighting to account for refusal by the whole household to co-operate with the survey. This involves population density, the %pensioners in the area and region but mainly uses two Experian address-level variables: “Lifestage” – another household type variable which concentrates on the age and relationships between household members; and “Mosaic Household Type” which attempts to measure lifestyle. Response rates differed substantially between the various sub-groups.
- iii) Weighting to account for failure to complete the diaries within responding households. This involves a wide range of Experian variables and household variables from the survey. The single most important predictor of diary response was the survey’s household type variable. Somewhat surprisingly, individual characteristics were not good predictors of this type of response. As with household response, response rates differed substantially in the sub-groups identified.
- iv) Weighting to population distributions by age, gender and region using a calibration method. The proposal is to carry out this last stage in two steps to attempt to recover both the household and individual distributions.

Although in the above discussion I have attempted to derive the most appropriate set of nonresponse weights from the available auxiliary data, it is important to note that there remains a serious risk of substantial residual nonresponse bias in this survey. With a response rate of less than 50% overall and much less than this in some subgroups it is likely that in the various groups in which I have classified the respondents the mean values for the various time use categories for respondents will differ from those for nonrespondents and hence some substantial biases will remain after weighting.

One of the reasons most commonly cited by people refusing to take part in surveys is lack of time. Clearly none of our auxiliary variables is directly related to this so it is highly likely that the probability of nonresponse is related to the substantive topics of the survey and in this situation of so-called “non-ignorable” nonresponse, weighting will not remove all the bias.

Notes

1. Experian is a company which, amongst other things, use marketing information to provide profiles of individuals and areas for target marketing.
2. 124 of the 1162 households containing diary keepers in the first quarter were partial responders.