

# User guide to the Centre for Population Change GHS database 1979-2009 

# Éva Beaujouan <br> Ann Berrington 

 Mark Lyons-AmosMáire Ní Bhrolcháin

## AUTHOR CONTRIBUTIONS

Máire Ní Bhrolcháin originated the proposal to create a time-series database of General Household Survey demographic histories from the 1970s to the present and was Principal Investigator on the project to create the data file. Éva Beaujouan assembled the database, with assistance from Mark Lyons-Amos, under the direction of Máire Ní Bhrolcháin and Ann Berrington. All authors have contributed to the compilation of this User Guide but Éva Beaujouan is its principal author.

Correspondence to cpc@soton.ac.uk

## AVAILABILITY OF THE DATABASE

The database is available under Special Licence from the UK Data Archive. Access to the data can be requested online at: http://www.data-archive.ac.uk.

## HOW TO CITE THIS USER GUIDE

The User Guide should be cited as follows:
Beaujouan, É., Berrington, A., Lyons-Amos, M. and Ní Bhrolcháin, M. (2014) User Guide to the Centre for Population Change GHS database 1979-2009. Centre for Population Change Working Paper 47, ESRC Centre for Population Change, UK. http://www.cpc.ac.uk/publications/cpc_working_papers/pdf/2014_WP47_CPC_GHS _User_Guide_Beaujouan_et_al.pdf
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The ESRC Centre for Population Change Working Paper Series is edited by Teresa McGowan

## ESRC Centre for Population Change

The ESRC Centre for Population Change (CPC) is a joint initiative between the Universities of Southampton, St Andrews, Edinburgh, Stirling, Strathclyde, in partnership with the Office for National Statistics (ONS) and the National Records of Scotland (NRS). The Centre is funded by the Economic and Social Research Council (ESRC) grant numbers RES-625-28-0001 and ES/K007394/1.

This working paper series publishes independent research, not always funded through the Centre. The views and opinions expressed by authors do not necessarily reflect those of the CPC, ESRC, ONS or NRS.

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## USER GUIDE TO THE CENTRE FOR POPULATION CHANGE GHS DATABASE 1979-2009

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## 1. INTRODUCTION

This is the User Guide for the ESRC Centre for Population Change (CPC) General Household Survey (GHS) time-series database covering the years 1979 to 2009. The key purpose of this database is to provide a consistent time series of demographic data collected in the GHS, particularly childbearing histories and marriage and cohabitation histories.

In 2005, the base for data collection switched from financial year to calendar year. Data for the last quarter of 2004-5 are included in the ONS datafiles for both 2004-05 and 2005 GHS rounds. Since our database includes both survey years, we did not retain this duplication and the last quarter of 2004-5 is allocated to the 2004-05 round only.

From 2005 on, the survey was restructured as a panel rather than as a cross-sectional survey. Three quarters of respondents interviewed in one year are re-interviewed the following year. Therefore, due to the rotating panel only a quarter of the sample in 2006-2009 are new respondents. New respondents in 2006-2009 are identified by code ' 1 ' on WAVE. Respondents in waves 2-4 in 2006-2009 are omitted from this database.

Note that from GHS round 1998 onwards, dates of birth of respondents and dates of live births are available only in the special licence version of the GHS datasets deposited by ONS with the Data Archive.

### 1.1 USING THE CPC GHS TIME-SERIES DATASET

Along with the introductory notes and information on specific variables presented in this User Guide, prospective users of the CPC GHS time series dataset are advised to consult the following documents and papers for essential information on the structure of the dataset and quality of the data on specific topics:

### 1.1.1 SAMPLE SIZES

Annex H Sample sizes in the CPC time-series dataset with notes of some errors in the original GHS data files

### 1.1.2 WEIGHTING

Beaujouan, É., J. Brown and M. Ní Bhrolcháin (2011) Reweighting the General Household Survey 1979-2007. Population Trends 145: 119-145.
http://www.ons.gov.uk/ons/rel/population-trends-rd/population-trends/no--145--autumn-2011/ard-pt145-reweighting-ghs.pdf

### 1.1.3 FERTILITY HISTORIES

Annex A Quality checks and edits carried out on birth histories
Ní Bhrolcháin, M., E. Beaujouan, and M. Murphy (2011) Sources of error in reported childlessness in a continuous British household survey. Population Studies 65:3, 305318. http://www.tandfonline.com/doi/full/10.1080/00324728.2011.607901

### 1.1.4 MARRIAGE AND PARTNERSHIP HISTORIES

Annex B Quality checks and edits carried out on marriage histories 1979-1998
Annex C Quality checks and edits carried out on partnership histories from 2000-2007

Annex D Derivation of the quality flags for the marriage and partnership histories

Berrington, A., É. Beaujouan, M. Lyons-Amos and M. Ní Bhrolcháin (2011) Evaluation of the Partnership Histories in the Centre for Population Change GHS Time Series Dataset. CPC Working Paper 12, September 2011, Centre for Population Change, University of Southampton http://www.cpc.ac.uk/publications/2011_WP12_Evaluation_of_the_Partnership_Histo ries_Berrington_et_al.pdf

### 1.1.5 VARIABLES CARRIED OVER FROM THE 1972-2004 GHS TIME SERIES

 DATASETUser Guide to the 1972-2004 GHS Time Series dataset (UK Data Archive Study Number 5664).

### 1.1.6 MERGING WITH THE ORIGINAL GHS DATA FILES

To merge records between the CPC GHS database and the original GHS data files provided by the UK Data Archive, use, in combination, the CPC variables year,
hhserial, and pno. See the Data Dictionary for the corresponding GHS variable names in various years.

Note that 2004-05 was the last year in which the survey was fielded on a financial-year basis, and the original dataset deposited with the ESDS Data Archive for this year includes the first quarter of 2005. In 2005, the survey changed back to a calendar year basis, and a full year's sample size was collected in quarters 2 , 3 , and 4 of 2005. In the ESDS version of the 2005 GHS, the last quarter of 2004-5 is duplicated as the first quarter of 2005. Because the first quarter of 2005 is already present in the 2004-5 dataset, we have excluded it from the 2005 data in our time series dataset. The first quarter of 2005 can be identified in the 2004-5 dataset via sampq=4. Therefore to extract the original 2004-5 round data from the CPC dataset, choose year $=2004$, and sampq $=1$ or 2 or 3 or 4

To extract the data deposited as the 2005 round with the Archive, choose

```
year = 2004 and sampq = 4 AND
year =2005 and sampq = 2 or 3 or 4
```

Note also that the household serial IDs in the original release of the 2005 GHS were changed in a subsequent release of the 2005 data file. The present version of the CPC database includes the revised 2005 household identifiers. If merging this database with the GHS datasets, you should check first that the household identifiers in your 2005 GHS data file are as in the revised data file.

### 1.2 STRUCTURE OF THE USER GUIDE

Documentation for each variable in the data dictionary starts on a new page. Where variables form part of a set - e.g. bthyr1-bthyr15-they appear on one page rather than on several. Some natural sets of variables - e.g. weights, and counts of persons in household - are grouped together (see variable list classified by theme).

The entry for each variable gives the CPC variable name and labels at the top of the page, shows which original GHS variables were used in the construction of the CPC variable and how the codes from the original variables were used to construct the CPC variable. In many cases, the variables used to derive new or consistent variables for the CPC database differ either in name or coding, or both, across GHS years.

### 1.2.1 1972-2004 GHS TIME-SERIES DATASET

Some of the variables in this database are carried over from the 1972-2004 GHS Time Series dataset for the years 1979-2004, with the variables for 2005-09 being constructed in the same way.

Note that for all the variables carried over from the 1972-2004 time-series, there was only one type of missing value (-5), and this coding was retained as missing for those variables in GHS rounds 2005 and after.

### 1.2.2 GHS ROUNDS 2008-2009

The database was originally assembled from GHS rounds 1979-2007 and data from GHS rounds 2008 and 2009 were added at a later stage.

- While the data for 2008 and 2009 are consistent with preceding years, the primary documentation of variables refers in most cases to the years 19792007. The coding for 2008 and 2009 is consistent with that for 2005-2007.
- Quality checks on the fertility histories, marriage histories and partnership histories were carried out for rounds 1979-2007 only.
- Quality flags have been generated for the 2008 and 2009 GHS rounds, but the results have been scrutinised much less closely than those of preceding years, and 2008-09 data are not included in Annexes A-C.


### 1.2.3 INCONSISTENCIES IN VARIABLES OVER TIME

In cases where there is a substantive change in the question asked in the GHS which would result in an inconsistency in the interpretation of a variable we have adopted a double digit system of coding.

### 1.2.4 CHANGING ELIGIBILITY

Some variables are applicable only to certain respondents. Much of the detailed childbearing and partnership history data come from the Family Information Section (FI) of the GHS questionnaire. Children and older persons are not eligible for this section, and men are not asked about their childbearing histories at all, and have been asked about their marriage histories only since 1986. The eligibility criterion for the FI has changed over the years and a summary of these changes is given on the eligfi page. See also Annex F and associated Excel file.

### 1.2.5 PARTNERSHIP

A "partnership" in this documentation refers to one of the following:
a direct marriage
a cohabitation followed by marriage to that partner, or
a free-standing cohabitation.
From 2000 on, the history of such partnerships is near complete. Prior to 2000 the retrospective information collected on cohabitation was more limited; questions were asked about the current partnership which may be a cohabitating union, and also on whether a marriage was preceded by a spell of cohabitation (see Table 1 in Annex B).

### 1.2.6 MISSING VALUE CODES

For variables generated specifically for this database, a consistent set of missing values is used:
-8: not available/not known
-9: does not apply
However, some variables have been incorporated from the 1972-2004 time series database, and such variables have just one missing value: -5.
While the codes in the original GHS files that are used to arrive at a final coding of the variables in this database are usually separately listed on the page for each variable, in some cases a verbal summary is given in place of the exact codes. This
occurs because relevant values differ substantially across years. This is the case for some variables in relation to missing values, and so we simply summarise verbally by recording "missing values for NA" or "missing values for DNA" or where these are not distinguished "missing codes" to cover the variety of missing codes used (because prior to 1998, NA and DNA codes were not distinguished in the original GHS files).

For all Family Information section variables, in the present database respondents are coded DNA (-9) if they are not eligible for the FI section, or that they are a proxy respondent. When the respondent is eligible but the information is missing the variable is coded NA (-8).

### 1.2.7 IMPUTATION

Only two kinds of imputation are made in this dataset. One is of the month of an event, where the year was known but the month missing. The imputation was flagged by adding 0.5 to the month. See Annexes A-C. The other imputation is the calculation of the respondent's date of birth based on age at interview and interview date for GHS rounds 1979 to 1982. In the FI section, for survey years where dates of birth of the individuals were missing (1979-1981) or partly missing, these were calculated: using the month when it was known; attributing a month and deducing a year when necessary. Additional minor corrections have been made, described in Annex H.

### 1.3 ANNEXES

A. Quality checks and edits carried out on birth histories
B. Quality checks and edits carried out on marriage histories to 1998
C. Quality checks and edits carried out on partnership histories from 2000-2007
D. Derivation of the quality flags for the marriage and partnership histories
E. SPSS coding of defacto
F. Eligibility for the specific questions in the Family Information section
G. Quality checks on age at leaving full time education 1979-2007
H. Sample sizes in the CPC time-series dataset with notes of some errors in the original GHS data files
I. Key references

## 2. THEMATIC LIST OF VARIABLES IN CPC GHS DATABASE

| Theme | Variable Name | Location in data dictionary for grouped variables |
| :---: | :---: | :---: |
| Survey |  |  |
| intmt | Month at interview |  |
| intyr | Year at interview |  |
| sampq | Sample quarter |  |
| sched | Full or proxy interview |  |
| wave | Interview wave |  |
| weightn | Original ONS weight |  |
| pcountry | UK country |  |
| year | GHS survey round |  |
| hhserial | Household serial number |  |
| funo | Family unit number |  |
| pno | Person number of the respondent in the household |  |
| selfcomr | Self-completion of the FI section |  |
| wgtcpe | Weights for all individuals in the CPC time-series |  |
| wgtcpcstd | Weights for all individuals in the CPC time-series, normalised |  |
| wgtcpcfi | Weights for individuals answering the Family Information section in the CPC time-series |  |
| wgtcpcfistd | Weights for individuals answering the Family Information section in the CPC time-series, normalised and trimmed at 3 |  |
| Household |  |  |
| acctyp91 | 'Type of accommodation' |  |
| acctyp01 | 'Type of accommodation' |  |
| ageldchh | Age of the oldest child in the family unit | Persons in household: Count variables |
| ageldhh | Age of the eldest person in the household | Persons in household: Count variables |
| ageygcfu | Age of the youngest child in the family unit | Persons in household: Count variables |


| ageygchh | Age of the youngest child in the household | Persons in household: Count variables |
| :---: | :---: | :---: |
| agygsthh | Age of the youngest person in the household | Persons in household: Count variables |
| funo | Family unit number |  |
| hhserial | Household serial number |  |
| nadul60 | Number of adults aged 60+ in household | Persons in household: Count variables |
| nadul65 | Number of adults aged 65+ in household | Persons in household: Count variables |
| nadulmen | Number of adult men in the household | Persons in household: Count variables |
| nadulwom | Number of adult women in the household | Persons in household: Count variables |
| nchdhh | Number of children in household | Persons in household: Count variables |
| nfuhh | Number of family units in the household | Persons in household: Count variables |
| npenshh | Number of pensioners in household | Persons in household: Count variables |
| npershh | Number of persons in the household | Persons in household: Count variables |
| npersfu | Number of persons in family unit | Persons in household: Count variables |
| pseghrp | Socio-economic group of HOH/HRP |  |
| Individual |  |  |
| age | Age of the respondent |  |
| agelft | Age left full-time education |  |
| brthmt | Month of birth of respondent |  |
| brthyr | Year of birth of respondent |  |
| chdbenef | Whether receives child benefit |  |
| contrapt | Whether currently using contraception |  |


| curtype | Type of current partnership (at survey) |  |
| :---: | :---: | :---: |
| defacto | Living with a partner/spouse |  |
| degree | Highest qualification = degree or higher |  |
| ethgrp2 | Ethnic group |  |
| eligfi | Eligible for Family Information Section |  |
| funo | Family unit number |  |
| lastft | Where last attended course |  |
| marst | Declared marital status |  |
| pno | Person number of the respondent in the household |  |
| morechld | Whether intends to have more children |  |
| moreposs | Could you (and your partner) have more children if you wanted to |  |
| nextage | If intends to have more children, age at birth of next child |  |
| npersfu | Number of persons in family unit | Persons in household: Count variables |
| pcigsmk | Number of cigarettes smoked per day |  |
| pcigsmk1 | Smoking status (ever smoked) |  |
| pcob1 | Respondent's country of birth |  |
| pcountry | UK country |  |
| pcutdown | Illness / injury reduce activity |  |
| pdvilo3a | Activity status |  |
| pedfull | Education level (full form) |  |
| pfcob1 | Father's country of birth |  |
| pgenhlth | Health on the whole in last 12 months |  |
| phhtyf1 | Household type F (grouped) |  |
| phhtype | Household type A (grouped) |  |
| pillness | Any longstanding illness or disability |  |
| plimitac | If longstanding illness limits activity |  |
| pmcob1 | Mother's country of birth |  |
| pnumveh | Number of cars |  |
| pregnant | Whether woman pregnant at time of interview |  |
| preltohr | Relationship to HOH/HRP |  |


| probmore | Further probe on more children for "don't knows" on MORECHLD |  |
| :---: | :---: | :---: |
| pseghrp | Socio-economic group of HOH/HRP |  |
| ptenure | Tenure |  |
| sched | Full or proxy interview |  |
| selfcomr | Self-completion of the FI section |  |
| sex | Sex of the respondent |  |
| sterild | Whether has been sterilized |  |
| totchld | Total intended family size |  |
| weightn | Original ONS weight |  |
| Quality flags |  |  |
| nchr | Revised count of number of live births and indicator of quality of revised CPC fertility history |  |
| marqual | Overall quality of the marriage history |  |
| marq1-marq7 | Quality of information on marriage number n in marriage history' |  |
| partq1-partq11 | Quality of information on partnership number $n$ in partnership history |  |
| partqual | Overall quality of the partnership history |  |
| Marriage and partn |  |  |
| curtype | Type of current partnership (at survey) |  |
| curmmt | Month of current marriage |  |
| curmt | Month current partnership started |  |
| curmyr | Year of current marriage |  |
| curyr | Year current partnership started |  |
| defacto | Living with a partner/spouse |  |
| mardmt1-mardmt7 | Month of divorce for the $\mathrm{n}^{\text {th }}$ marriage in marriage history |  |
| mardyr1-mardyr7 | Year of divorce for the $\mathrm{n}^{\text {th }}$ marriage in marriage history |  |
| marend1-marend7 | Type of end of $\mathrm{n}^{\text {th }}$ marriage in marriage history |  |
| maremt1-maremt7 | Month of end of $\mathrm{n}^{\text {th }}$ marriage in marriage history |  |
| mareyr1-mareyr7 | Year of end of $\mathrm{n}^{\text {th }}$ marriage in marriage history |  |
| marmt1-marmt7 | Month of $\mathrm{n}^{\text {th }}$ marriage in marriage history |  |


| marpmt1-marpmt7 | Month of premarital cohabitation for the $\mathrm{n}^{\text {th }}$ marriage in marriage history |  |
| :---: | :---: | :---: |
| marpyr1-marpyr7 | Year of premarital cohabitation for the $\mathrm{n}^{\text {th }}$ marriage in marriage history |  |
| marpre1-marpre7 | Premarital cohabitation for the $\mathrm{n}^{\text {th }}$ marriage in marriage history |  |
| marst | Declared marital status |  |
| marqual | Overall quality of the marriage history |  |
| marq1-marq7 | Quality of information on marriage number n in marriage history' |  |
| maryr1-maryr7 | Year of nth marriage in marriage history |  |
| ncoh | Number of free standing cohabitations declared in family information section |  |
| nmaru | Number of valid marriage dates in marriage history in the Family Information section |  |
| nmar | Number of marriages declared in the Family Information section |  |
| npart | Number of partnerships reported in GHS rounds from 2000 onwards |  |
| npartu | Number of valid partnership dates in partnership history in the Family Information section |  |
| pardmt1-pardmt7 | Month of divorce in $\mathrm{n}^{\text {th }}$ partnership of partnership history |  |
| pardyr1-pardyr7 | Year of divorce in $\mathrm{n}^{\text {th }}$ partnership of partnership history |  |
| paremt1-paremt7 | Month of end of nth partnership in partnership history |  |
| parend1-parend7 | Type of end of $n^{\text {th }}$ partnership in partnership history |  |
| pareyr1-pareyr7 | Year of end of $\mathrm{n}^{\text {th }}$ partnership in partnership history |  |
| parmar1-parmar7 | Marriage during the $\mathrm{n}^{\text {th }}$ partnership in partnership history |  |


| parmmt1-parmmt7 | Month of marriage during the $\mathrm{n}^{\text {th }}$ partnership in partnership history |  |
| :---: | :---: | :---: |
| parmt1-parmt7 | Month of $\mathrm{n}^{\text {th }}$ partnership in partnership history |  |
| parmyr1-parmyr7 | Year of marriage during the $\mathrm{n}^{\text {th }}$ partnership in partnership history |  |
| partq1-partq7 | Quality of information on partnership number n in partnership history |  |
| partqual | Overall quality of the partnership history |  |
| paryr1-paryr7 | Year of $\mathrm{n}^{\text {th }}$ partnership in partnership history |  |
| CPC revised fertility variables |  |  |
| bthmtr1-bthmtr15 | Month of birth of $1^{\text {st }}$ to $15^{\text {th }}$ live births in the revised CPC birth history |  |
| bthyrr1-bthyrr15 | Year of birth of $1^{\text {st }}$ to $15^{\text {th }}$ live births in the revised CPC birth history |  |
| livwthr1-livwthr15 | Does the $1^{\text {st }}-15^{\text {th }}$ liveborn child in the birth history live with the respondent |  |
| nchr | Revised count of number of live births and indicator of quality of revised CPC fertility history |  |
| sexbthr1-sexbthr15 | Sex of the $1^{\text {st }}$ to $15^{\text {th }}$ live birth in the revised CPC birth history |  |
| Original GHS fertility variables |  |  |
| bthmt1-bthmt15 | Month of birth of $1^{\text {st }}$ to $15^{\text {th }}$ live births in the original GHS birth history |  |
| bthyr1-bthyr15 | Year of birth of $1^{\text {st }}$ to $15^{\text {th }}$ live births in the original GHS birth history |  |
| livwth1-livwth15 | Does the $1^{\text {st }}-15^{\text {th }}$ live-born child in the original GHS birth history live with the respondent |  |
| nbirths | Number of live births declared in the Family Information section |  |
| pregnant | Whether woman pregnant at time of interview |  |


| sexbth1-sexbth15 | Sex of the 1 <br> st <br> to $15^{\text {th }}$ live birth in <br> the original birth history |  |
| :--- | :--- | :--- |
| Weights | Original ONS weight |  |
| weightn | Weights for all individuals in the <br> CPC time-series | Weights generated <br> by CPC |
| wgtcpc | Weights for all individuals in the <br> CPC time-series, normalised | Weights generated <br> by CPC |
| wgtcpcstd | Weights for individuals <br> answering the Family <br> Information section in the CPC <br> time-series | Weights generated <br> by CPC |
| wgtcpcfi | Weights for individuals <br> answering the Family <br> Information section in the CPC <br> time-series, normalised and <br> trimmed at 3 | Weights generated <br> by CPC |
| wgtcpcfistd |  |  |

## 3. DATA DICTIONARY

Please note that the database initially contained data from GHS rounds 1979-2007 only, 2008 and 2009 being added at a later stage. The 2008 and 2009 coding is consistent with that of rounds 2005-2007, but the data dictionary has not been updated to reflect this.

## acctyp91 ‘Type of accommodation’

1
2
purpose built flat
Other

This variable of stratification is available 1979-1996

## acctyp01 ‘Type of accommodation’

1
Detached, semi-detached, terraced
2
Other

The variable is available from 1998 onwards only.

Variables used in the construction of acctyp91

| Value <br> labels/names <br> for the codes <br> on the original <br> GHS dataset | Codes from each year of the GHS <br> 1979 to |  |  | 1983 to <br> 1995 |
| :---: | :---: | :---: | :---: | :---: |
|  | TYPACCM | TYPACC96 |  |  |
| Detached house | 1 | 1 | 1 | acctyp91 |
| Semi-detach. <br> house | 2 | 2 | 2 | $\mathbf{1}$ |
| Terraced house | 3 | 3 | 3 | $\mathbf{1}$ |
| Purpose built <br> flat | 4,5 | 4,5 | 4,5 | $\mathbf{1}$ |
| Partial house | 6,7 | 6,7 | 6,7 | $\mathbf{2}$ |
| other | $0,8,9$ | $0,8,9$ | 0,8 | $\mathbf{2}$ |
| Missing values <br> (NA) | No missing values (variables used for stratification) |  |  |  |

Variables used in the construction of acctyp01

| Value labels/names for <br> the codes on the <br> original GHS dataset | Codes from each <br> year of the GHS | CPC code |
| ---: | :---: | :---: |
|  | 1998 to 2007 |  |
|  | ACCOM | $\mathbf{1}$ |
| A flat or a maisonette | 1 | $\mathbf{0}$ |
| A room/rooms | 2 | $\mathbf{0}$ |
| something else | 4 | $\mathbf{0}$ |
| Missing values (NA) | No missing values (variables used for <br> stratification) |  |

## age 'Age of the respondent’

0 to $98 \quad$ aged 0 to 98 at survey
99
aged 99 or more at survey
The variable age gives the age at last birthday.
Variables used in the construction of age

| Value labels/names <br> for the codes on the <br> original GHS dataset | Codes from each year of the GHS |  | CPC code |
| ---: | :---: | :---: | :---: |
|  | 1979 to 1982 | 1983 to 2007 | age |
| 0 to 98 | AGE | AGE |  |
| $\mathbf{0 y y}$ | $\mathbf{0}$ to 98 | $\mathbf{9 9}$ |  |
| $99+$ | 99 | 99 to 102 | $\mathbf{- 8}$ |
| Missing values (NA) | Any missing codes <br> ever used in GHS | Any missing codes <br> ever used in GHS |  |

In 2001, the respondent's age in completed years has been top-coded at 85 ; thus for any person aged over 85 years in the 2001 GHS edition, this variable has the value 85 . However, month and year of birth are present for these respondents, and so an exact age can be calculated.

Other survey years include a significant number of respondents whose reported age in completed years is more than one year different from the age implied by their reported date of birth. We have not edited the data to make these two reports consistent (see Annex H).

## agelft 'Age left full-time education'

Variable giving the age at end of school/studies, reconstructed from the variables AGELFTC and AGELFTS.

| -9 | DNA |
| :--- | :--- |
| -8 | NA |
| $98-99$ | still at school |
| 1 | never went to school |
| $3-66$ | age at end of continuous education (integer) |

Variables used in the construction of agelft

| Value labels/names <br> for the codes on the <br> original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| ---: | :---: | :---: | :---: | :---: |
|  | 1979 to 1982 | 1983 to 1992 | 2000 to 2007 |  |
| still at school | STUDCUR <br> AGELFTS <br> AGELFTC | STUDCUR <br> AGELFTSC <br> AGELFTFT | 96 | $\mathbf{9 8 - 9 9}$ |
| never went to school | AGELFTS <br> AGELFTC | AGELFTSC <br> AGELFTFT | 97 | $\mathbf{1}$ |
| 3 to 66 | AGELFTS <br> AGELFTC | AGELFTSC <br> AGELFTFT | $3-66$ | $\mathbf{3}$ to 66 |
| Missing (NA) | Missing codes for <br> NA GHS | Missing codes for <br> NA | -8 or 2 for <br> 2001 | $\mathbf{- 8}$ |
| Does not apply (DNA) | Missing codes for <br> DNA GHS | Missing codes for <br> DNA | Missing codes <br> for DNA | $\mathbf{- 9}$ |

The filter variables have different names in 1979-82, 1983-84, 1985-92 and 1993-98.
From 2000-2007, agelft represents approximately the age at which the respondent completed their continuous full time education; see Ní Bhrolcháin and Beaujouan (2012) for a comparison with national statistics. In rounds before 2000, deficiencies have been found in this variable, as detailed in Annex G, and we do not consider the variable usable before the 2000 GHS round.

Age of persons in household: age variables derived by CPC
ageldchh 'Age of the eldest child in the household' ageldhh 'Age of the eldest person in the household' ageygcfu 'Age of the youngest child in the family unit' ageygchh 'Age of the youngest child in the household'
agygsthh 'Age of the youngest person in the household'

## brthyr - brthmt 'Year and month of birth of the respondent'

Available from 1982 to 1985 for individuals who completed the Family Information section and from 1986 to 2006 for all respondents. Not originally available for any respondent 1979-81.

Prior to 1982, only age was asked. In all cases where date of birth was either not asked or missing, it has been attributed in the way described below.

Variables used in the construction of brthyr

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1982 | $\begin{gathered} 1983 \text { to } \\ 1985 \end{gathered}$ | $\begin{gathered} 1986 \text { to } \\ 1995 \end{gathered}$ | 1996 | $\begin{gathered} 1998- \\ 2007 \end{gathered}$ | brthyr |
|  | FIYRBORN | $\begin{gathered} \text { YEARBOR } \\ \mathrm{N} \end{gathered}$ | DOBIRTHY | DOB | $\begin{gathered} \hline \text { BIRTH } \\ Y \end{gathered}$ |  |
| 1896-1999 | age | $\begin{gathered} \hline \text { year in } 2 \\ \text { digits } \end{gathered}$ | year in 2 digits | date format | year | 1896-2007 |
| Missing values (NA) | Any missing codes ever used in GHS |  |  |  |  | -8 |

Because this was originally a 2-digit year of birth, before 1996 we use the age to determine whether the true date is 1800+2-digit or 1900+2-digit

Variables used in the construction of brthmt

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1982 | $\begin{gathered} 1983 \text { to } \\ 1985 \end{gathered}$ | $\begin{gathered} 1986 \text { to } \\ 1995 \end{gathered}$ | 1996 | $\begin{gathered} 1998- \\ 2007 \end{gathered}$ | brthmt |
|  | $\begin{gathered} \text { FIMONBR } \\ \mathrm{N} \end{gathered}$ | $\begin{gathered} \text { MONBOR } \\ \mathrm{N} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { DOBIRTH } \\ \mathrm{M} \\ \hline \end{gathered}$ | DOB | $\begin{gathered} \hline \text { BIRTH } \\ \mathrm{M} \\ \hline \end{gathered}$ |  |
| 1-12 | month | month | month | Date format | month | 1-12 |
| If year extracted from age |  |  | 13 |  |  | -8 |
| Missing values (NA) | Any missing codes ever used in GHS |  |  |  |  | -8 |

Where date of birth is missing or was not asked for, we calculate date of birth assuming that the respondent is aged "age +0.5 years" at the date of interview. Dates used in the file are coded in month and year only.

## bthmt1-bthmt15 'Month of birth of $1^{\text {st }}$ to $15^{\text {th }}$ live births in the original birth history'

## bthyr1-bthyr15 'Year of birth of $1^{\text {st }}$ to $15^{\text {th }}$ live births in the original birth history'

Year and month of live births to the respondent
Variables used in the construction of bthyr1-bthyr15
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: |
|  | 1979 to 1982 | 1983 to 1996 | 1998 to 2007 | bthyr1- <br> bthyr15 |
|  | CHDYR1-n | YOB1-n | BIRTHDTE BIRTHDT2-9 BIRTHD10-n |  |
| 1941-2007 | 1945-1982 | 1941-1997 |  | 1941-2007 |
| Missing (NA) | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | -8 |
| Does not apply (DNA) | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | -9 |

Variables used in the construction of bthmt1-bthmt15
$n$ indicates whatever range of the variables is available - the maximum number of
birth slots allowed for differs across years.

| Value <br> labels/names for <br> the codes on the <br> original GHS <br> dataset | Codes from each year of the GHS |  |  | CPC code |
| ---: | :---: | :---: | :---: | :---: |
|  | 1979 to 1982 | 1983 to 1996 | 1998 to 2007 |  |
| $1-12$ | bHDMTH1-n | MOB1-n | BIRTHDTE <br> BIRTHDT2-9 <br> bthmt1- <br> BIRTHD10-n |  |
| Missing (NA) | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | $\mathbf{- 8}$ |
| Does not apply <br> (DNA) | Missing codes in GHS |  |  |  |

# bthmtr1-bthmtr15 'Month of birth of $1^{\text {st }}$ to $15^{\text {th }}$ live births in the revised birth history' bthyrr1-bthyrr15 'Year of birth of $1^{\text {st }}$ to $15^{\text {th }}$ live births in the revised birth history' 

Year and month of live births to the respondent in the revised birth history.

## chdbenef 'Whether receives child benefit'

| -9 | DNA |
| :--- | :--- |
| -8 | NA |
| 0 | no child benefit |
| 1 | child benefits |

This variable is constructed from the successive variables on child benefit:
1979-1982: CHLDBEN
1983-1991: CHBEN
1992-1996: STATBNM1
1998 2003-2007: BEN1Q1
2000-2002: BEN1QM1
Additionally, SCHED has been used as a filter together with these variables in order to determine the NA (-8) and DNA (-9).

## contrapt 'Whether currently using contraception or not'

| 1 | yes |
| :--- | :--- |
| 2 | no |
| -9 | DNA |
| -8 | NA |

The question is asked only of women and men aged under 50 . As for all questions in the contraception section, it is asked for selected years only.

Variables used in the construction of contrapt

| Value <br> labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1983; 1986 | $\begin{gathered} \hline 1989 ; 1993 ; \\ 1995 \end{gathered}$ | 1991 | 1998; 2002 | contrapt |
|  | PRVNTM1PRVNTM4 | CCMUSUM1CCMUSUM4 | CCCURRM1CCCURRM4 | CCMUSU1CCMUSU4 |  |
| yes | any other valid code | any other valid code | any other valid code | any other valid code | 1 |
| no | 11 | 16,17,18 | 15, 16 | 15,16 | 2 |
| Missing (NA) |  |  |  |  | -8 |
| Does not apply (DNA) | DNA | DNA | $\begin{gathered} \hline 14,17,18,19, \\ \text { other DNA } \\ \hline \end{gathered}$ | 17, other DNA | -9 |

The question is generally not asked of sterilized respondents, but in 1989 and 1991 sterilized persons were also asked the question. In 1998 and 2002, where it was known that both partners were sterilized, some respondents were nevertheless asked this question and reported that their partner had a vasectomy (original code 17): they were recoded -9 on variable contrapt.

## curmmt 'Month of current marriage"

## curmyr 'Year of current marriage"

Year and month of marriage current at survey, if there was a marriage at survey (curtype=2 or 3).

Variables used in the construction of curmyr

| Value <br> labels/names <br> for the codes <br> on the original <br> GHS dataset | Codes from each year of the GHS |  |  |  | CPC code |
| ---: | :---: | :---: | :---: | :---: | :---: |
|  | YRCUR | YRMAR1- <br> YRMAR7 | YRMAR- <br> YRMAR5 | YRMAR <br> YRMAR2-7 | curmyr |
| 4-digit <br> calendar year | 1989-1996 | 1998 | 2000 to 2007 | 4-digit <br> calendar <br> year |  |
| Missing (NA) | 8 | -8 | -8 | Missing codes <br> in GHS | -8 |
| Does not apply <br> (DNA) | 9 | -9 | -9 | Missing codes <br> in GHS | -9 |

Variables used in the construction of curmmt

| Value <br> labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1979-1988 | 1989-96 | 1998 | 2000 to 2007 | curmmt |
|  | MONCUR | MONMAR1MONMAR7 | MONMARMONMAR5 | MONMAR MONMAR2-7 |  |
| $1-12(+0.5$ <br> where attributed) |  |  |  |  | $\begin{gathered} 1-12(+0.5 \\ \text { where } \\ \text { attributed) } \end{gathered}$ |
| Missing (NA) | 8 | -8 | -8 | Missing codes in GHS | -8 |
| Does not apply (DNA) | 9 | -9 | -9 | Missing codes in GHS | -9 |

## curtype 'Type of current partnership (at survey)’

| 0 | not currently in a partnership |
| :--- | :--- |
| 1 | cohabitation |
| 2 | direct marriage |
| 3 | marriage preceded by premarital cohabitation |

Information about the current partnership is available since 1979. In 1979 and from 1981 onwards respondents were asked whether they had cohabited premaritally with their current (if currently married) or most recent (if not currently married) spouse. However in 1980 respondents were not asked whether they had cohabited premaritally with their current/most recent spouse. Therefore marriages in 1980 are all coded " 2 ".

Variables used in the construction of curtype

| Value <br> labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: |
|  | 1979 ${ }^{1}$,1981-1988 | 1989-1998 | 2000 to 2007 | curtype |
| no current relationship | MARITAL | MARSTAT | CLEND <br> ENDCOH1-3 <br> HOWENED HOWENDE2-7 | 0 |
| non-marital cohabitation | WHEREWED XSLIVTOG | WHEREWED TGTHR | $\begin{gathered} \hline \text { CLYR } \\ \text { STCOY1-3 } \end{gathered}$ | 1 |
| direct marriage | MARITAL | MARSTAT |  | 2 |
| marriage with premarital cohabitation | LIVTOG | LVTGTHR1- <br> LVTGTHR7 | LVTGTHR2- <br> LVTGTHR7 | 3 |
| Missing (NA) |  |  | PARTQUAL=-8 | -8 |
| Does not apply (DNA) |  |  | PARTQUAL=-9 | -9 |

${ }^{1}$ Information on premarital cohabitation was not asked in 1980.

## curmt 'Month current partnership started'

## curyr 'Year current partnership started'

Year and month of start of the current partnership = year

- of start living together if cohabiting at survey
- of beginning of premarital cohabitation if married at survey and cohabited premaritally
- of marriage if married at survey and no premarital cohabitation

Variables used in the construction of curyr

| Value <br> labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: |
|  | 1981-1982 | 1983-1998 | 2000 to 2007 |  |
|  | TOGYRS, CLLIVYR, XSLIVYR | YRSTGTHR, CLYR, STRTYR | STCOY1-3 YRLVTG YRLVTG2- <br> 7 YRMAR <br> YRMAR2-7 | curyr |
| 4 - digit calendar year |  |  |  | 4 - digit calendar year |
| Missing (NA) | 8 | -8 | Missing codes in GHS | -8 |
| Does not apply (DNA) | 9 | -9 | Missing codes in GHS | -9 |

Variables used in the construction of curmt

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: |
|  | 1981-1982 | 1983-1988 | 2000 to 2007 | curmt |
|  | TOGMTHS, CLLIVMTH, XSLIVMTH | MONTGTHR, CLMON, STRTMON | STCOM1-3 <br> MONLVTG <br> MONLVTG2-7 <br> MONMAR <br> MONMAR2-7 |  |
| $1-12(+0.5$ <br> where attributed) |  |  |  | $1-12(+0.5$ <br> where attributed) |
| Missing (NA) | 8 | -8 | Missing codes in GHS | -8 |
| Does not apply (DNA) | 9 | -9 | Missing codes in GHS | -9 |

## defacto 'Living with a partnerlspouse’

| 1 | Living with spouse-FI |
| :--- | :--- |
| 2 | Living with partner-FI |
| 3 | Not living with anyone- FI |
| 4 | Same sex civil partnership-FI |
| 5 | Same sex partner-FI |
| 6 | Under 16 (non FI) |
| 11 | Living with spouse- non FI |
| 12 | Living with partner- non FI |
| 13 | Not living with anyone- non FI |
| 14 | Same sex civil partnership- non FI |
| 15 | Same sex partner- non FI |
|  |  |
| -8 | NA |
| -9 | DNA |

This variable is a best guess at the de facto partnership status current at the time of the survey. Our coding takes the declared marital status in the main section of the questionnaire as the default coding, and amends this according to FI information, where available. The marital status question is primarily about legal marital status, but cannot be relied on as accurate in that respect, and in any case includes the category 'cohabiting' for some years (1986-96).

We identify 5 possible partnership states:

1) Living with spouse
2) Living with partner
3) Not living with a partner
4) Living in same sex civil partnership
5) Living with same sex partner.

Two parallel sets of codes are used to distinguish cases where FI information is available (codes 1-5) and is not available (codes 10-15) to modify declared marital status. The accuracy with which de facto status can be determined depends on the availability of the Family Information section of the GHS. Availability of the FI varies by age, sex and survey year, whether the respondent was a proxy and whether the respondent completed the FI section.

The coding of defacto is explained by the following table and flow chart. The syntax is given in Annex E.

Flow chart describing defacto


Note: Before 1986, those SWD who did not answer FI section may have been cohabiting, but this will not have been recorded. This is the only limitation on defacto classification. FI denotes that the respondent was eligible for Family Information module and responded completely.

# Table: Mapping from categories to component variables to defacto codes 

| Marital status question ${ }^{1}$ | Live with? 2 | FI <br> present ${ }^{3}$ | Living with partner ${ }^{5}$ | Wherewed ${ }^{4}$ | Husbaway ${ }^{6}$ | defacto |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979-95 |  |  |  |  |  |  |
| single, separated, widowed, divorced |  | no |  |  |  | 13 |
| single, separated, widowed, divorced |  | yes | no |  |  | 3 |
| single, separated, widowed, divorced |  | yes | yes |  |  | 2 |
| single, separated, widowed, divorced |  | yes | $\mathrm{Na} /$ missing |  |  | 13 |
| Married |  | no |  |  |  | 11 |
| Married |  | yes |  | not wed |  | 2 |
| Married |  | yes |  | wed | yes | 1 |
| Married |  | yes |  | wed | no | 3 |
| Married |  | yes |  | wed | $\mathrm{Na} /$ missing | 1 |
| Married |  | yes |  | $\mathrm{Na} /$ missing | yes | 11 |
| Married |  | yes |  | na/missing | no | 13 |
| married |  |  |  |  |  |  |
|  |  | yes |  | na/missing | na/missing | 13 |
| 1996-2006 |  |  |  |  |  |  |
| single, separated, widowed, divorced | no | no |  |  |  | 13 |
| single, separated, widowed, divorced | yes | no |  |  |  | 12 |
| single, separated, widowed, divorced | na | no |  |  |  | 13 |
| single, separated, widowed, divorced | no | yes |  |  |  | 3 |
| single, separated, widowed, divorced | yes | yes |  |  |  | 2 |
| single, separated, widowed, divorced | na | yes |  |  |  | 3 |
| Married |  | no |  |  |  | 11 |
| Married |  | yes |  | not wed |  | 2 |
| Married |  | yes |  | wed | yes | 1 |
| Married |  | yes |  | wed | no | 3 |
| Married |  | yes |  | wed | na/missing | 1 |
| Married |  | yes |  | na/missing | yes | 11 |
| Married |  | yes |  | $\mathrm{na} / \mathrm{missing}$ | no | 13 |
| Married |  | yes |  | na/missing | na/missing | 13 |
| 1993-2005 |  |  |  |  |  |  |
| same sex cohabitation |  | no |  |  |  | 15 |
| same sex cohabitation |  |  |  |  |  |  |
|  |  | yes |  |  |  | 15 |
| 2006- |  |  |  |  |  |  |
| same sex cohabitation |  | no |  |  |  | 15 |
| same sex cohabitation |  | yes |  |  |  | 5 |
| same sex civil partnership |  | no |  |  |  | 14 |
| same sex civil partnership |  | yes |  |  |  | 14 |
| dissolved same sex civil partnership |  | no |  |  |  | 13 |
| dissolved same sex civil partnership |  | yes |  |  |  | 3 |

Original GHS variables used in the construction of defacto

| Year | Variable 1 <br> (Legal marital status) | Variable 2 (Currently cohabiting) | Variable 3 (Type of selfcompletion) | Variable 4 <br> (Type of marriage ceremony) | Variable 5 <br> (Cohabiting with unrelated adult in household) | Variable 6 (Reason for spouse not in household) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1979 | MARITAL | - | FISELF | WHEREWED | XSLIVTOG | HUSAWAY |
| 1980 | MARITAL | - | FISELF | WHEREWED | XSLIVTOG | HUSAWAY |
| 1981 | MARITAL | - | FISELF | WHEREWED | XSLIVTOG | HUSAWAY |
| 1982 | MARITAL | - | FISELF | WHEREWED | XSLIVTOG | HUSAWAY |
| 1983 | MARSTAT | - | CHECKB | WHEREWED | STGTHR, WDSTGTHR | HUSBAWAY |
| 1984 | MARSTAT | - | CHECKB | WHEREWED | STGTHR, WDSTGTHR | HUSBAWAY |
| 1985 | MARSTAT | - | CHECKB | WHEREWED | STGTHR, WDSTGTHR | HUSBAWAY |
| 1986 | MARSTAT | - | CHECKB | WHEREWED | STGTHR, WDSTGTHR | HUSBAWAY |
| 1987 | MARSTAT | - | CHECKB | WHEREWED | STGTHR, WDSTGTHR | HUSBAWAY |
| 1988 | MARSTAT | - | CHECKB | WHEREWED | TGTHR | HUSBAWAY |
| 1989 | MARSTAT | - | FAMINFSG | WHEREWED | TGTHR | HUSBAWAY |
| 1990 | MARSTAT | - | FAMINFSG | WHEREWED | TGTHR | HUSBAWAY |
| 1991 | MARSTAT | - | FAMINFSG | WHEREWED | TGTHR | HUSBAWAY |
| 1992 | MARSTAT | - | FAMINFSG | WHEREWED | TGTHR | HUSBAWAY |
| 1993 | MARSTAT | - | FAMINFSG | WHEREWED | TGTHR | HUSBAWAY |
| 1994 | MARSTAT | - | SELFCOM3 | WHEREWED | TGTHR2 | HUSBAWAY |
| 1995 | MARSTAT | - | SELFCOM3 | WHEREWED | TGTHR2 | HUSBAWAY |
| 1996 | MSTAT | COHABIT | SELFCOM3 | WHEREWED | TGTHR2 | HUSBAWAY |
| 1997 | --- | ---------- | ---------- | ---------- | ---------- | ---------- |
| 1998 | MARSTAT | LIVEWITH | SELFCOM3 | WHEREWED | TGTHR2 | HUSBAWAY |
| 1999 | ---------- | ---------- | --------- | ---------- |  | ---------- |
| 2000 | MARSTAT | LIVEWITH | SELFCOM3 | WHEREWED | - | HUSBAWAY |
| 2001 | MARSTAT | LIVEWITH | SELFCOM3 | WHEREWED | - | HUSBAWAY |
| 2002 | MARSTAT | LIVEWITH | SELFCOM3 | WHEREWED | - | HUSBAWAY |
| 2003 | MARSTAT | LIVEWITH | SELFCOM3 | WHEREWED | - | HUSBAWAY |
| 2004 | MARSTAT | LIVEWITH | SELFCOM3 | AREWED | - | HUSBAWAY |
| 2005 | MARSTAT | LIVEWITH | SELFCOM3 | AREWED | - | HUSBAWAY |
| 2006 | MARSTA | LIVWTH | SELFCOM3 | AREWED | - | HUSBAWAY |

# degree 'Highest qualification = degree or higher' 

```
-5
    missing
0 other or no qualification
1 degree or higher
```

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.
For the additional years 2005-2007, the more detailed variable pedfull (derived itself from EDLEV00 which is also described in this userguide) has been used to derive the variable the way it was constructed in the 1972-2004 time-series.

## eligfi 'Eligible for the Family Information section'

1
2
eligible for FI section and not proxy eligible but proxy
3 not eligible

This variable summarizes which individuals are interviewed in the Family Information section. Only individuals coded eligfi=1 are asked the FI section. Proxy respondents have been coded since 1980 and are never asked the Family Information (FI) section. Thus they are always coded "does not apply" on all the variables of the FI section.

In the FI section, an additional filter is active when asking all the details on births, fertility history and intentions: only women are asked these questions. Further details can be found in Annex F.

Who is eligible for the Family Information section across GHS rounds?
Between 1979 and 1985 inclusive, non-proxy women aged 18-49 or married and aged 16-17, are asked the Family Information questions. From 1986 onwards, both men and women aged 16-59, who are not proxies, are asked the Family Information section, but men are not asked the birth history.

Variables used in the construction of eligfi:
age, sex, marst and sched
(SAS) Coding:

```
if year<=1985 then do;
    if sex=2 and ((16<=age<50 and marst=2) or 18<=age<50) then eligfi=1; *eligible;
        else eligfi=3; *not eligible;
    if sex=2 and ((16<=age<50 and marst=2) or 18<=age<50) and sched=2 then eligfi=2;
    *eligible but proxy;
end;
if year>1985 then do;
    if 16<=age<60 then eligfi=1;
        else eligfi=3;
    if 16<=age<60 and sched=2 then eligfi=2;
end;
```


## ethgrp2 'Ethnic group’

| 1 | White |
| :--- | :--- |
| 2 | Non white |
| -8 | NA |
| -9 | DNA |

The only variable that can be produced reasonably consistently across GHS rounds is a binary classification of ethnic group. For the years 1979-82, it is based on
interviewer assessment of the respondents' ethnic group rather than a direct question.

| Value labels/names <br> for the codes on the <br> original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| :--- | :--- | :--- | :--- | :--- |
|  | $1979-1982$ | $1983-1996$ | $1998-2006$ | ethgrp2 |
|  | COLOUR | ORIGIN | ETHNIC |  |
| White | 2,5 | 1,98 | 1,2 | 1 |
| Non-white | 1,4 | $2-77$ | $3-15$ | 2 |
|  |  |  |  |  |
| Missing values (-8) | 3,8 |  |  |  |

## funo 'Family unit number'

Within each household, a number is given to each family unit. funo is a one-digit variable in 1979-1996, and is the household serial number plus one digit in 1998-2007.

Variables used in the construction of funo

| Value <br> labels/names for <br> the codes on the <br> original GHS <br> dataset | 1979 to <br> 1996 | 1998 to <br> 2007 |  |
| :---: | :---: | :---: | :--- |
|  | fanUNIT | FSERIAL |  |
|  | one digit | HHSERIAL + <br> one digit |  |

Not present for 2008 and 2009.

## hhserial 'Household serial number’

A household serial number is given each year to each household in the survey. Household serial numbers are re-used each year and hence the same serial number in two different survey years does not refer to the same household.

Variables used in the construction of hhserial

| Value <br> labels/names for <br> the codes on the <br> original GHS <br> dataset | Codes from each year of the GHS |  |  | 1979 to <br> 1982 |
| :---: | :---: | :---: | :---: | :---: |
|  | HOUSENO | 1983 to <br> 1998 | 2000 to <br> 2007 | HSSERNO |
|  |  |  | HSERIAL |  |
|  |  |  |  |  |

See also section in Introduction on merging with original GHS datasets.

## intmt 'Month of interview'

## intyr 'Year of interview'

Year and month of interview. Note that intyr can differ from the survey year (year)
Variables used in the construction of intyr

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1979 \text { to } \\ 1986 \end{gathered}$ | $\begin{gathered} 1987 \text { to } \\ 1995 \end{gathered}$ | 1996 | 1998 | $\begin{gathered} 2000 \text { to } \\ 2007 \end{gathered}$ | intyr |
|  | YEAR | YEAR | $\begin{gathered} \text { INTDAT } \\ \mathrm{E} \end{gathered}$ | $\begin{aligned} & \hline \text { START } \\ & \text { DAT } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { STARTD } \\ \text { AT } \end{gathered}$ |  |
| 1979-2007 | year in 2 <br> digits | year in 2 <br> digits | $\begin{aligned} & \text { Special } \\ & \text { date } \\ & \text { format } \end{aligned}$ | Standard date format | Standar <br> d date <br> format | 1979-2007 |
| Missing values (NA) | Any missing codes ever used in GHS |  |  |  |  | -8 |

The interview year is not always equal to the survey edition's year, and especially in 1996. This is developed in appendix.

Variables used in the construction of intmt

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1979 \text { to } \\ 1986 \end{gathered}$ | $\begin{gathered} 1987 \text { to } \\ 1995 \end{gathered}$ | 1996 | 1998 | $\begin{gathered} 2000 \text { to } \\ 2007 \end{gathered}$ | intmt |
|  | year | year | intdate | startda <br> t | startdat |  |
| 1-12 | 1-12 | 1-12 | $\begin{gathered} \hline \text { Special } \\ \text { date } \\ \text { format } \end{gathered}$ | Standard date format | Standar <br> d date <br> format | 1-12 |
| Missing values (NA) | Any missing codes ever used in GHS |  |  |  |  | -8 |

${ }^{1}$ In the original ESDS GHS file for 1996-7 dates were represented as "days since 14
October 1582" with 15 October $1582=1$.

## lastft 'Where last attended course'

| -9 | DNA |
| :--- | :--- |
| -8 | NA |
| -6 | child/out age/no int |
| 1 | elementary or secondary school |
| 2 | university |
| 3 | polytechnic |
| 4 | nursing school or teaching hospital |
| 5 | some other type of college |

lastft variable is available only before 1998.

| Value labels/names <br> for the codes on the <br> original GHS dataset | 1979 | EDTYPE | 1980 to <br> 1982 | 1983 to <br> 1984 | 1985 to <br> 1998 |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | lastft |  |  |  |  |
|  | 1 | 1 | 1 | EDTYPE code |  |
| university | 3 | 2 | 2 | LASTSCH1 | LASTSCH2 |

FURTHRED and AGELFTS/AGELFTSC are used as filter variables, and people who have not prolonged their education but have been to school are considered as having been to an elementary/secondary school even if originally they are not directly coded as such.

## livwth1-livwth15 'Does the $1^{\text {st }}-15^{\text {th }}$ live-born child in the original birth history live with the respondent'

```
1
2 no, lives elsewhere
3
```

```
yes
```

yes
no, deceased

```
no, deceased
```

Whether the child lives with the respondent
Variables used in the construction of livwth1-livwth15
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names <br> for the codes on <br> the original GHS <br> dataset | Codes from each year of the GHS |  |  | CPC code |
| ---: | :---: | :---: | :---: | :---: |
|  | 1979 to 1982 | 1983 to 1996 | 1998 to 2007 |  |
|  | 1 | LIVE1-n | CHLDLIVE <br> CHLDLIV2-9 <br> CHLDLI10-n |  |
| no, lives elsewhere | 2 | 1 | 1 | $\mathbf{1}$ |
| No, deceased | 3 | 2 | 2 | $\mathbf{2}$ |
| Missing (NA) | Missing codes in <br> GHS | Missing codes in <br> GHS | -8 | $\mathbf{3}$ |
| Does not apply |  |  |  |  |
| (DNA) | Missing codes in <br> GHS | Missing codes in <br> GHS | $-6,-9$ | $-\mathbf{- 9}$ |

# livwthr1-livwthr15 'Does the $1^{\text {st }}-15^{\text {th }}$ live-born child in the revised birth history live with the respondent' 

1 yes<br>2 no, lives elsewhere<br>3 no, deceased

Whether the child lives with the respondent. Note that all the live births recovered in the CPC revised birth history live with the respondent.

## mardmt1-mardmt7 'Month of divorce for n -th marriage in marriage history'

## mardyr1-mardyr7 'Year of divorce for $n$-th marriage in marriage history’

Year and month of divorce of each marriage of the respondent in the sequence of marriages.

Variables used in the construction of mardyr1-mardyr7
$n$ indicates any ranges on which the variables are available the different years

| Value <br> labels/names <br> for the codes on <br> the original GHS <br> dataset | Codes from each year of the GHS |  |  |  | CPC code |
| ---: | :---: | :---: | :---: | :---: | :---: |
|  | 1979-83 | $1983-88$ <br> DECR1YR- | YRDIV1- <br> YRDIV3 | YRDIV1- <br> YRDIV7 | YRDIV <br> YRDIV2-7 |
| 4- digit <br> calendar year |  |  |  |  | mardyr1- <br> mardyr7 |
| Missing (NA) | 8 | -8 | -8 | -digit <br> calendar <br> year |  |
| Does not apply <br> (DNA) | 9 | -9 | -9 | Missing <br> codes in GHS | -8 |

Variables used in the construction of mardmt1-mardmt7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names <br> for the codes on <br> the original GHS <br> dataset | Codes from each year of the GHS |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | DECR1MTH- <br> DECR3MTH | MONDIV1- <br> MONDIV3 | MONDIV1- <br> MONDIV7 | MONDIV <br> MONDIV2-7 | mardmt1- <br> mardmt7 |
|  |  |  |  |  | 1-12 (+ 0.5 <br> where <br> attributed) |
| Missing (NA) | 8 | -8 | -8 | Missing <br> codes in <br> GHS | $-\mathbf{- 8}$ |
| Does not apply |  |  |  |  |  |
| (DNA) | 9 | -9 | -9 | Missing <br> codes in <br> GHS | $-\mathbf{- 9}$ |

## maremt1-maremt7 'Month of end of $n$-th marriage in marriage history'

## mareyr1-mareyr7'Year of end of $n$-th marriage in marriage history'

Year and month of end (by separation or death of the partner) of each marriage of the respondent in the sequence of marriages.

Variables used in the construction of mareyr1-mareyr7
$n$ indicates any ranges on which the variables are available the different years

| Value <br> labels/names <br> for the codes <br> on the | Codes from each year of the GHS |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | DEP1YR- <br> DEP3YR | YREND1- <br> YREND3 | YRDIE1-YRDIE7 <br> YRSEP1-YRSEP7 | YRDIE YRDIE2-7 <br> YRSEP YRSEP2-7 | mareyr1- <br> mareyr7 |
| 4-digit <br> calendar year |  |  |  |  | 4-digit <br> calendar <br> year |
| Missing (NA) | 8 | -8 | -8 | Missing codes in <br> GHS | $-\mathbf{8}$ |
| Does not <br> apply (DNA) | 9 | -9 | -9 | Missing codes in <br> GHS | -9 |

Variables used in the construction of maremt1-maremt7
$n$ indicates any ranges on which the variables are available the different years

| Value <br> labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1979-82 | 1983-88 | 1989-98 | 2000 to 2007 | maremt1maremt7 |
|  | DEP1MTHDEP3MTH | MONEND1MONEND3 | MONDIE1-MONDIE7 MONSEP1MONSEP7 | MONDIE MONDIE2-7 MONSEP MONSEP2-7 |  |
| $\begin{array}{r} 1 \text { to } 12(+0.5 \\ \text { where } \\ \text { attributed) } \end{array}$ |  |  |  |  | 1 to 12 + 0.5 where attributed) |
| Missing (NA) | 8 | -8 | -8 | Missing codes in GHS | -8 |
| Does not apply (DNA) | 9 | -9 | -9 | Missing codes in GHS | -9 |

## marend1-marend7 'Type of end of n-th marriage in marriage history’

| 0 | partnership current at survey |
| :--- | :--- |
| 1 | death of the partner |
| 2 | divorce |
| 3 | separation |

Variables used in the construction of marend1-marend7

| Value <br> labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1979-82 | 1983-1996 | 1998 | 2000 to 2007 | marend1marend7 |
|  | MAR1ENDMAR3END | WHYEND1WHYEND7 | HOWENDED, HOWENDE2HOWENDE5, CURRENT, CURRENT2-7 | HOWENDED HOWENDE1-7 CURRENT CURRENT2-7 |  |
| current marriage |  |  | CURRENT=1 | CURRENT=1 | 0 |
| death | 1 | 1 | HOWENDED=1 | HOWENDE=1 | 1 |
| divorce | 2 | 2 | HOWENDED=2 | HOWENDE=2 | 2 |
| separation | 3 | 3 | HOWENDED=3 | HOWENDE=3 | 3 |
| Missing (NA) | 8 | -8 | -8 | -8 | -8 |
| Does not apply (DNA) | 9 | -9 | -9 | eligfi ne 1 | -9 |

## marmt1-marmt7 'Month of n-th marriage in marriage history'

## maryr1-maryr7 "Year of n-th marriage in marriage history"

Year and month of marriage number $n$ of the respondent in the sequence of marriages
Variables used in the construction of maryr1-maryr7
$n$ indicates any ranges on which the variables are available the different years

| Value <br> labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1979-82 | 1983-88 | 1989-98 | 2000 to 2007 | maryr1maryr7 |
|  | MARCYR, MAR1YRMAR3YR | YRCUR, <br> YRMAR1- <br> YRMAR3 | YRMAR1YRMAR7 | YRMAR YRMAR2-7 |  |
| 4 - digit calendar year |  |  |  |  | 4 - digit calendar year |
| Missing (NA) | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | -8 |
| Does not apply (DNA) | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | -9 |

Variables used in the construction of marmt1-marmt7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1979-82 | 1983-88 | 1989-98 | 1998 to 2007 | marmt1marmt7 |
|  | MARCMTH, MAR1MTHMAR3MTH | MONCUR, MONMAR1MONMAR3 | MONMAR1MONMAR7 | MONMAR MONMAR2-7 |  |
| $1-12(+0.5$ <br> where attributed) |  |  |  |  | $\begin{gathered} 1-12(+0.5 \\ \text { where } \\ \text { attributed) } \end{gathered}$ |
| Missing (NA) | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | -8 |
| Does not apply (DNA) | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | -9 |

marpmt1-marpmt7 'Month of premarital cohabitation for $n$-th marriage in marriage history'

## marpyr1-marpyr7 'Year of premarital cohabitation for n-th marriage in marriage history' maryr1-maryr7 'Year of $n$-th marriage in marriage history'

Year and month of premarital cohabitation before each marriage of the respondent in the sequence of marriages.

Note that in 1979 respondents were only asked whether they had cohabited prior to their current/most recent marriage and not the start date of this premarital cohabitation. In 1980 no information about premarital cohabitation was collected. In the period 1981-1988 inclusive, respondents were only asked about the duration of premarital cohabitation prior to their current/most recent marriage. From 1989 respondents are asked about the duration of premarital cohabitation prior to their current and previous marriages.

Variables used in the construction of marpyr1-marpyr7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: |
|  | 1981-1988 | 1989-98 | 2000 to 2007 | marpyr1marpyr7 |
|  | TOGMTHS | YRLVTG1 YRLVTG7 | YRLVTG YRLVTG27 |  |
| 4-digit calendar year |  |  |  | 4 - digit calendar year |
| Missing (NA) | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | -8 |
| Does not apply <br> (DNA) | Missing codes in GHS | Missing codes in GHS | Missing codes in GHS | -9 |

Variables used in the construction of marpmt1-marpmt7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names <br> for the codes on the <br> original GHS <br> dataset | Codes from each year of the GHS |  |  | CPC code |
| ---: | :---: | :---: | :---: | :---: |
|  | 1981-1988 | 1989-98 | 1998 to 2007 | marpmt1- <br> marpmt7 |
| $1-12$ (+0.5 where <br> attributed) | MONLVTG1 - <br> MONLVTG7 | MONLVTG <br> MONLVTG2-7 | $\mathbf{1 - 1 2}$ (+0.5 where <br> attributed) |  |
| Missing (NA) | Missing codes in <br> GHS | Missing codes in <br> GHS | Missing codes in <br> GHS | $-\mathbf{- 8}$ |
| Does not apply <br> (DNA) | Missing codes in <br> GHS | Missing codes in <br> GHS | Missing codes in <br> GHS | $-\mathbf{- 9}$ |

# marpre1-marpre7 'Premarital cohabitation for n-th marriage in marriage history' 

| 1 | yes |
| :--- | :--- |
| 2 | no |

Variables used in the construction of marpre1-marpre7

| Value labels/names <br> for the codes on <br> the original GHS <br> dataset | Codes from each year of the GHS |  |  | CPC code |
| ---: | :---: | :---: | :---: | :---: |
|  | 1979 and 1981-88 | 1989-98 | 2000 to 2007 | marpre1- <br> marpre7 |
| yes | 1 | LVTGTHR1- <br> LVTGTHR7 | LVTGTHR LVTGTHR2- <br> 7 |  |
| no | 2 | 1 | 1 | $\mathbf{1}$ |
| Missing (NA) | 8 | 2 | 2 | $\mathbf{2}$ |
| Does not apply <br> (DNA) | 9 | -8 | -8 | -8 |

* for GHS rounds 1979, and 1981 to 1988 LIVEDTOG was asked only about the current/most recent marriage, and so is attributed to the relevant marriage in the marriage history. From 1989- the question was asked about all marriages. When the question was not asked, these variables are coded -9 .

No information about premarital cohabitation was collected in 1980 and so the data are set to -9 for 1980 .

# marq1-marq7 'Quality of information on marriage number $\mathbf{n}$ in marriage history' 

Quality flags generated by CPC for the marriage history, see Annex D.

Before 1989
$0 \quad$ no n-th marriage declared (nmar $<$ n)
$1 \quad$ OK (marr date OK + end date OK + ordered)
2 OK after editing
3 partially OK
$4 \quad$ invalid date or date missing where nmar>=n
-9 DNA: not eligible FI, proxy
From 1989 on
$0 \quad$ no n-th marriage declared (nmar $<$ n)
$10 \quad$ OK (no precohab + marr date OK + end date OK)
11 OK (precohab date OK + marr date OK + end date OK)
$12 \quad$ OK (precohab date edited + marr date OK + end date OK)
$13 \quad$ OK (precohab date unresolved + marr date OK + end date OK)
$20 \quad$ OK after editing (no precohab + marr date + end date)
21 OK after editing (precohab date OK + edited marr or end date)
22 OK after editing (precohab date edited + edited marr or end date)
23 OK after editing (precohab date unresolved + edited marr or end date)
31 partially OK
41 invalid date or date missing where nmar>=n
-9 DNA: not eligible FI, proxy

For the coding of "partially OK", see also Annex D

## marqual 'Overall quality of the marriage history'

This variable is entirely CPC generated and is a summary of the individual marq1-ns.

| 0 | no marriage |
| :--- | :--- |
| 1 | OK |
| 2 | OK after editing |
| 3 | partially OK |
| 4 | unusable |
| -9 | DNA: not eligible FI, proxy |

marqual is coded partially OK either if all marriages are partially OK, or some are OK and some partially OK on the marq1-n indicators. Partially OK does not include any histories with an unusable or missing spell.
marqual is coded OK after editing either if all marriages are OK after editing, or some are OK and some are OK after editing.

## marst ‘Declared marital status’

| 1 | single |
| :--- | :--- |
| 2 | married |
| 3 | separated |
| 4 | divorced |
| 5 | widow |
| 6 | cohabitation (1985-96 only) |
| 7 | civil partnership (2006-) |
| -9 | not concerned |

MARSTAT is the declared marital status recorded for all individuals in the household in the main part of the questionnaire. In the years 1979-1984, valid responses for this variable are Married, Single, Widowed, Divorced and Separated. In the years 1985-92 there is an additional category for cohabiting with a partner. From 1998-present, cohabitation is not included as a pre-coded category of the marital status question, and hence the valid responses are identical to the period 1972-1984 (Married, Single, Widowed, Divorce and Separated). In 2006-7, civil partnerships are added as response categories. Persons who dissolved a civil partnership are considered as single. The defacto variable provides further information on same-sex partnerships.

Variables used in the construction of marst

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1979 \text { to } \\ 1982 \end{gathered}$ | $\begin{gathered} 1983 \text { to } \\ 1985 \end{gathered}$ | $\begin{gathered} 1986 \text { to } \\ 1992 \end{gathered}$ | $\begin{gathered} 1993 \text { to } \\ 1996 \end{gathered}$ | $\begin{gathered} 1998 \text { to } \\ 2005 \end{gathered}$ | $\begin{aligned} & \hline 2006- \\ & 2007 \end{aligned}$ | marst |
|  | MARITAL | MARSTAT | MARSTAT | MARSTAT | MARSTAT | MARSTA |  |
| Married | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Single | 2 | 2 | 3 | 3 | 1 | 1 | 1 |
| Divorced | 4 | 4 | 5 | 5 | 4 | 4 | 4 |
| Separated | 5 | 5 | 6 | 6 | 3 | 3 | 3 |
| Widowed | 3 | 3 | 4 | 4 | 5 | 5 | 5 |
| Cohabiting |  |  | 2 | 2 |  |  | 6 |
| Same sex cohabiting |  |  |  | 7 |  |  | 6 |
| Civil partnership |  |  |  |  |  | 6 | 7 |
| Separated from civil partnership |  |  |  |  |  | 7-8 | 1 |
| Civil partner died |  |  |  |  |  | 9 | 1 |
| Less than 16 years | $\begin{gathered} 0 \text { or } \\ \text { missing } \end{gathered}$ |  |  | $\begin{gathered} 0 \text { or } \\ \text { missing } \end{gathered}$ | -6 | -6 | -9 |

## morechld 'Whether intends to have more children'

| 1 | yes |
| :--- | :--- |
| 2 | no |
| 3 | don't know |
| 11 | yes |
| 12 | probably yes |
| 13 | probably not |
| 14 | no |
| 15 | don't know |
| -9 | DNA |
| -8 | NA |

Since the label values of the variable changed in 1991, we use the double digit coding to identify the potential inconsistency before and from that year.

Variables used in the construction of morechld

| Value labels/names <br> for the codes on the <br> original GHS dataset | Codes from each year of the GHS |  | CPC code |  |
| ---: | :---: | :---: | :---: | :---: |
|  | 1979 to 1982 | CHLDMORE | MORECHLD | 1993 to 2007 |

Note that from 1991, this variable should be used in conjunction with probmore

# moreposs 'Could you (and your partner) have more children if you wanted to' 

| 1 | could have more children |
| :--- | :--- |
| 2 | would be difficult, impossible |
| -9 | DNA |
| -8 | NA |

The form of the question varies across survey years. We refer the user to the questionnaires for each round for precise details.

The sub-sample who were asked this question differs from the one to which contrapt relates, as follows:
before 1989
women aged less than 45 and eligible for the FI section and not pregnant
1989
women aged less than 45 and eligible for the FI section
from 1991 onwards
women aged less than 50 and eligible for the FI section and not pregnant and not sterile

Variables used in the construction of moreposs

| Value <br> labels/names for <br> the codes on the <br> original GHS <br> dataset | Codes from each year of the GHS | CPC code |  |  |
| ---: | :---: | :---: | :---: | :---: |
|  | 1983; 1984; 1986; <br> 1987 | 1989 | $1991 ; 1993 ; 1995 ;$ <br> $1998 ; 2002$ | moreposs |
| could have more <br> children | 1 | MOREPOSS | MOREPOSS |  |
| would be difficult, <br> impossible | 2 | 2 | 1 | $\mathbf{1}$ |
| Missing (NA) |  |  | 2 | 2 |
| Does not apply <br> (DNA) |  |  | if not pregnant <br> and not sterile | $\mathbf{- 9}$ |

## nbirths 'Number of live births declared in the Family Information section'

Number of live births reported by the respondents answering the fertility history questions (non-proxy women eligible for the FI section).
nbirths is built as a combination of the variable that indicates whether the respondent ever had a live birth and, if so, the number of her live births.

Variables used in the construction of nbirths

| Value <br> labels/names for <br> the codes on the <br> original GHS <br> dataset | Codes from each year of the GHS |  |  | CPC <br> code |
| ---: | :---: | :---: | :---: | :---: |
|  | CHILD + NCHILDRN | BABY + NUMBABY | BABY + NUMBABY | nbirths |
| 1 0 | CHILD=2 | BABY=2 | BABY=2 | $\mathbf{0}$ |
| 1 to 15 | NCHILDRN=1 to 15 | NUMBABY=1 to 15 | NUMBABY=1 to 15 | $\mathbf{1}$ to 15 |
| Missing (NA) | Missing codes for NA <br> GHS | Missing codes for NA | -8 | $\mathbf{- 8}$ |
| Does not apply <br> (DNA) | Missing codes for <br> DNA GHS | Missing codes for <br> DNA | $-6,-9$ | $\mathbf{- 9}$ |

nbirths is based on the original GHS variables. In a sizeable minority of cases this variable is erroneous, due to an over-reporting of childlessness, as documented in Murphy (2009). The errors are largely concentrated in the rounds from 1998 onwards--see Ní Bhrolcháin, Beaujouan and Murphy (2011) for an account of the source of the errors in the original fertility histories, and for the procedure used to correct these. An alternative variable, nchr, has been constructed by CPC giving the number of live births in the birth histories as revised by CPC.

## nchr 'Revised count of number of live births'

This variable gives the number of live births in the birth histories as revised by CPC. The birth histories were revised by using information on own children in the household, from the household grid. See Ní Bhrolcháin et al. (2011) for details. Revised fertility histories were produced from 1994 onwards only. For GHS rounds before 1994, the original and revised fertility histories are identical.

Quality indicator for revised fertility histories Where nchr>=0, this means that an ordered sequence of births is available for analysis. Any negative code implies that the birth history is either not available or completely incorrect, and so unusable. Fertility histories that are partially in error- e.g. second or later birth date missing-are considered partially usable (e.g. for the date of first birth) and have nchr $>=0$.

## ncoh 'Number of free-standing cohabitations declared in the Family Information section'

Number of free-standing cohabitations originally reported by the respondents in the Family Information section, including the current cohabitation. They cover relationships "in which [respondent] lived together with someone as a couple but did not get married". The questions on dates of all such cohabitation were asked only from 2000 onwards. ${ }^{1}$ In GHS rounds before 2000, the variable cannot be calculated and is coded -9.

Free standing cohabitations refer to spells of cohabitation that either had ended in separation or were current at survey.

Variables used in the construction of ncoh

| Value labels/names for the <br> codes on the original GHS <br> dataset | Codes from each <br> year of the GHS | CPC code |
| ---: | :---: | :---: |
|  | NUMCOHAB <br> COHAB <br> defacto |  |
|  | COHAB=2 | $\mathbf{0}$ |
| 1 to 8 | NUMCOHAB <br> +1 if defacto=2 | $\mathbf{1}$ to 8 |
| Missing (NA) | -8 selfcomr=-8 | $\mathbf{- 8}$ |
| Does not apply (DNA) | eligfi ne 1 | $\mathbf{- 9}$ |

[^0]
## nextage 'If intends to have more children, age at birth of next child'

| 17 to 62 | age at which next child expected |
| :--- | :--- |
| -9 | DNA |
| -8 | NA |

Only asked of those who either intend to have at least one more child, or don't know, or, from 1991 onwards, answered "probably yes" to MORECHLD or PROBMORE.

Variables used in the construction of nextage

| Value <br> labels/names for <br> the codes on the <br> original GHS <br> dataset | Codes from each year of the GHS |  |  | CPC code |
| ---: | :---: | :---: | :---: | :---: |
|  | 1979 to 1982 | 1983 to 1990 | 1991 to 2007 |  |
|  | MORECHLD <br> NEXTAGE | MORECHLD <br> NEXTAGE | nextage |  |
| Range 17 to 62 | AGENXTCH | NEXTAGE | NEXTAGE | $\mathbf{1 7}$ to 62 |
| Missing (NA) |  |  |  | $\mathbf{- 8}$ |
| Does not apply |  |  |  |  |
| (DNA) | when <br> CHLDMORE <br> not eq.1 | when <br> MORECHLD <br> not eq.1 and <br> not eq.3 | when <br> MORECHLD not <br> eq.11,12 and <br> PROBMORE not <br> eq.1 | -9 |

Same conditions as for totchld.

## nmar 'Number of marriages declared in the Family Information section'

Number of marriages reported by respondents asked the Family Information section.
Variables used in the construction of nmar

| Value <br> labels/names <br> for the codes <br> on the | Codes from each year of the GHS |  |  |  | CPC |
| ---: | :---: | :---: | :---: | :---: | :---: |
|  | NLEGMAR, <br> NCLMD |  |  |  |  |
| 0 | MARITAL | NUMMAR <br> CLNUMMAR | NUMMAR <br> CLNUMMAR | NUMMAR <br> CLNUMMAR | nmar |
| 1 to 7 | NLEGMAR, <br> NCLMD | NUMMAR <br> CLNUMMAR | NUMMAR <br> CLNUMMAR | NUMMAR, <br> CLNUMMAR |  |
| Missing (NA) | FISELF=8 | CHECKB=-8 | FAMINFSG=-8 | -8, selfcomr=- <br> 8 | $\mathbf{- 8}$ |
| Does not <br> apply (DNA) | FISELF=8 | CHECKB=-9 | FAMINFSG=98/99 | eligfi ne 1 | $\mathbf{- 9}$ |

Detail of the construction of the variable can be found in the accompanying Excel file on "eligibility criteria".

[^1]
## nmaru 'Number of valid marriage dates in marriage history in the Family Information section'

Variable generated by CPC.
Number of marriage dates with a quality indicator coded either 1 to 3 , or 10 to 31 . That is final number of marriages for which we have at least partially valid information.

This variable is obtained by counting the number of marq1-n that are coded 1 to 3, or 10 to 31 .

## npart 'Number of partnerships reported in GHS rounds from 2000 onwards'

Total number of partnerships reported in the Family Information section, constructed from the number of marriages and cohabitations reported (editing described in Annex C).

## Construction of npart:

This is the total number of partnerships where a partnership is: direct marriage, cohabitation followed by marriage, cohabitation only (including those current at survey). It is constructed from ncoh and nmar.

Distinguish from npartu (next page), the number of valid partnerships in the history.
As for other variables relating to the (near-) complete partnership history, the number of partnerships is available only from GHS round 2000 onwards.

Note that the GHS questionnaire and documentation does not have a concept of partnership - only of marriages and cohabitations. The concept of a partnership in the CPC database combines these two.

# npartu 'Number of valid partnership dates in partnership history in the Family Information section' 

This variable relates to the combined sequence of marriages and cohabitations, and is constructed from the edited sequence of partnerships (editing described in Annex C). Note that where a person who first cohabits and then marries their cohabiting partner, this is counted as one partnership.

From 2000 onwards:
Number of partnership dates with a quality indicator "ok" to "partially ok" (codes 1 to 3). This is the number of partnerships for which we have at least partially valid information.

This variable is obtained by counting the number of partq1-7 that are coded 1 to 3 .
This variable applies to respondents in GHS rounds 2000 onwards only.

## Number of persons in household: count variables

Count variables derived by CPC using the characteristics of people in the household or in the family unit(s) in the household. The derivation is based on age and sex.

A child in these variables is a person aged $<=15$, an adult a person aged $16+$.
None of these variables has missing values because the age of the individuals in the counted units (household or family unit) is always known.
nadul60 'Number of adults aged 60+ in the household'
nadul65 'Number of adults aged 65+ in the household'
nadulmen 'Number of adult men in the household'
nadulwom 'Number of adult women in the household'
nchdhh 'Number of children in the household'
nfuhh 'Number of family units in the household'
npenshh 'Number of pensioners in the household'
npersfu 'Number of persons in the family unit'
npershh 'Number of persons in the household'

## pardmt1-pardmt7 'Month of divorce in partnership

 history'
## pardyr1-pardyr7 'Year of divorce in partnership history'

Year and month of divorce, when there has been a marriage and a divorce during the partnership.

Variables used in the construction of pardyr1-pardyr7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for <br> the codes on the original <br> GHS dataset | Codes from each year <br> of the GHS | CPC code |
| ---: | :---: | :---: |
|  | 2000 to 2007 | pardyr1- <br> pardyr7 |
| YRDIV YRDIV2-7 | 4 - digit <br> calendar <br> year |  |
| - digit calendar year |  | -8 |
| Moes not apply (DNA) | Missing codes in GHS | -8 |

Variables used in the construction of pardmt1-pardmt7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS | CPC code |
| :---: | :---: | :---: |
|  | 1998 to 2007 | pardmt1pardmt7 |
|  | MONDIV MONDIV2-7 |  |
| 1-12 (+0.5 where attributed) |  | $1-12(+0.5$ <br> where attributed) |
| Missing (NA) | Missing codes in GHS | -8 |
| Does not apply (DNA) | Missing codes in GHS | -9 |

This variable applies to respondents in GHS rounds 2000 onwards only.

## paremt1-paremt7 'Month of end of n-th partnership in partnership history' <br> pareyr1-pareyr7 'Year of end of n-th partnership in partnership history’

Where the partnership n ended by separation or death of the partner, year and month of end.

Variables used in the construction of pareyr1-pareyr7
$n$ indicates any ranges on which the variables are available the different years

|  | Codes from each year <br> of the GHS | CPC code |
| ---: | :---: | :---: |
|  | 2000 to 2007 |  |
| Value labels/names <br> for the codes on the <br> original GHS dataset | YRDIE YRDIE2-7 <br> YRSEP YRSEP2-7 <br> ENDCOHY1-3 <br> ENDLIVY1-3 | pareyr1-pareyr7 |
| 4- digit calendar year |  |  |
| Missing (NA) | Missing codes in GHS | $-\mathbf{8}$ |
| Does not apply (DNA) | Missing codes in GHS | $\mathbf{- 9}$ |

Variables used in the construction of paremt1-paremt7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS | CPC code |
| :---: | :---: | :---: |
|  | 1998 to 2007 | paremt1paremt7 |
|  | MONDIE MONDIE2-7 MONSEP MONSEP2-7 ENDCOHM1-3 ENDLIVM1-3 |  |
| 1-12 (+0.5 where attributed) |  | $1-12++0.5$ <br> where attributed) |
| Missing (NA) | Missing codes in GHS | -8 |
| Does not apply (DNA) | Missing codes in GHS | -9 |

This variable applies to respondents in GHS rounds 2000 onwards only.

## parend1-parend7 'Type of end of $n$-th partnership in partnership history’

partnership current at survey
1
2
stopped living together
death of the partner
Variables used in the construction of parend1-parend7

## Cohabitations:

| Value labels/names for <br> the codes on the original <br> GHS dataset | Codes from each year of the <br> GHS | CPC code |
| ---: | :---: | :---: |
|  | ENDCOH1-3 <br> defacto | parend1- <br> parend7 |
|  | last cohab slot+defacto=2 |  |
| stopped living together | ENDCOHN $=1,2,3,5$ | $\mathbf{1}$ |
| death of the partner | ENDCOHN=4 | $\mathbf{2}$ |
| Missing (NA) | -8 | -8 |
| Does not apply (DNA) | eligfi ne 1 | $-\mathbf{9}$ |

Marriages:

| Value labels/names for <br> the codes on the original <br> GHS dataset | Codes from each year of the <br> GHS | CPC code |
| ---: | :---: | :---: |
|  | 2000 to 2007 <br> pOWENDED HOWENDE1-7 <br> parend1- <br> parend7 |  |
|  | CURRENT=1 | $\mathbf{0}$ |
| stopped living together | HOWENDE=2,3 | $\mathbf{1}$ |
| death of the partner | HOWENDE=1 | $\mathbf{2}$ |
| Missing (NA) | -8 | -8 |
| Does not apply (DNA) | eligfi ne 1 | -9 |

This variable applies to respondents in GHS rounds 2000 onwards only.

## parmar1-parmar7 'Marriage during the n-th partnership in partnership history’

```
1
    marriage
2 no marriage
```

This variable relates to the combined sequence of marriages and cohabitations. Note that where a person first cohabits and then marries their cohabiting partner, this is counted as one partnership.

Variables used in the construction of parmar1-parmar7

| Value labels/names <br> for the codes on the <br> original GHS dataset | Codes from each <br> year of the GHS | CPC code |
| ---: | :---: | :---: |
|  | YRMAR <br> YRMAR2-7 |  |
|  | 1 | $\mathbf{1}$ |
| no | 2 | $\mathbf{2}$ |
| Missing (NA) | -8 | -8 |
| Does not apply (DNA) | PAR=2 | $-\mathbf{- 9}$ |

Note: This variable records whether the respondent got married during the spell number n , i.e. whether a marriage date is available for this union. It is possible to deduce from this variable and the date of marriage in the partnership (below) a variable indicating whether the union: was a direct marriage, included a marriage, or was a cohabitation only. For instance, if in one spell parmarn=1 and date marriage=date partnership, then it was a direct marriage; if parmarn=1 and date marriage does not equal date partnership, then marriage occurred after a period of cohabitation. If in one spell parmarn=2 then it was/is a free standing cohabitation. This variable applies to respondents in GHS rounds 2000 onwards only.

## parmmt1-parmmt7 'Month of marriage during the n-th partnership in partnership history’

## parmyr1-parmyr7 'Year of marriage during the n-th partnership in partnership history'

Where respondent married during the partnership spell n, year and month of the marriage.

Variables used in the construction of parmyr1-parmyr7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for <br> the codes on the original <br> GHS dataset | Codes from each year of the <br> GHS | CPC code |
| ---: | :---: | :---: |
|  | 2000 to 2007 | parmyr1- <br> parmyr7 |
| YRMAR YRMAR2-7 | $4-$ digit <br> calendar <br> year |  |
| Migit calendar year |  | -8 |
| Does not apply (DNA) | Missing codes in GHS | -9 |

Variables used in the construction of parmmt1-parmmt7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for <br> the codes on the original <br> GHS dataset | Codes from each year of the <br> GHS | CPC code |
| ---: | :---: | :---: |

Note that there could be e.g. a marriage during the first partnership, no marriage during the second (which therefore was a free-standing cohabitation) and another (second) marriage during the third partnership.

This variable applies to respondents in GHS rounds 2000 onwards only.

## parmt1-parmt7 'Month of n-th partnership in partnership history’

## paryr1-paryr7 'Year of n-th partnership in partnership history'

This variable relates to the combined (and ordered) sequence of marriages and cohabitations. Note that where a person who first cohabits and then marries their cohabiting partner, this is counted as one partnership.

Year and month of $1^{\text {st }}-7^{\text {th }}$ partnership
Variables used in the construction of paryr1-paryr7
$n$ indicates any ranges on which the variables are available the different years

|  | Codes from each year of the <br> GHS | CPC code |
| ---: | :---: | :---: |$|$| paryr1- |
| :---: |
| Value labels/names for <br> the codes on the original <br> GHS dataset |
| paryr7 |
| YRLVTG YRLVTG2-7 YRMAR |
| 4- digit calendar year |

Variables used in the construction of parmt1-parmt7
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS | CPC code |
| :---: | :---: | :---: |
|  | 2000 to 2007 | parmt1parmt7 |
|  | STCOM1-3 <br> MONLVTG MONLVTG2-7 MONMAR MONMAR2-7 |  |
| 1-12 (+0.5 where attributed) |  | $1-12(+0.5$ <br> where attributed) |
| Missing (NA) | Missing codes in GHS | -8 |
| Does not apply (DNA) | Missing codes in GHS | -9 |

This variable applies to respondents in GHS rounds 2000 onwards only.

## partq1-partq7 'Quality of information on partnership number n in partnership history'

The partnership history is an ordered sequence of partnerships of the respondent, where one partnership relates to cohabitation and/or marriage with one partner. In the survey there is no indication of minimum time spent in the cohabitation/marriage. Note that where a person who first cohabits and then marries their cohabiting partner, this is counted as one partnership.

Before 2000:
No retrospective information on the dates of free-standing cohabitations except if current at survey, and partq1-n not derived prior to 2000.

From 2000 onwards:

| 0 | no date in the nth spell ${ }^{3}$ |
| :--- | :--- |
| 1 | OK (beg date OK + end date OK + ordered) $^{2}$ |
| 3 | OK after editing |
| 4 | partially OK |
| -9 | unusable |
|  | DNA: not eligible FI, proxy |

This variable applies to respondents in GHS rounds 2000 onwards only.

[^2]
## partqual 'Overall quality of the partnership history’

This variable is entirely CPC generated and is a summary of the individual partq1-ns.

| 0 | No partnership |
| :--- | :--- |
| 1 | OK |
| 2 | OK after editing |
| 3 | Partially OK |
| 4 | Unusable |
| -9 | DNA: not eligible FI, proxy |

partqual is coded partially OK either if all partnerships are partially OK, or some are OK and some partially OK on the partq1-n indicators. Partially OK does not include any histories with an unusable or missing spell.
partqual is coded OK after editing either if all partnerships are OK after editing, or some are OK and some are OK after editing.

This variable applies to respondents in GHS rounds 2000 onwards only.

# pcigsmk 'Number of cigarettes smoked per day’ 

| -5 | missing |
| :--- | :--- |
| 1 | $20+$ cigarettes a day |
| 2 | $10-19$ cigarettes a day |
| 3 | $0-9$ cigarettes a day |
| 4 | NA to cigarettes a day |
| 5 | ex-cigarette smoker |
| 6 | never smoked |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable CIGSMK has been used to derive the variable in the same way.

# pcigsmk1 'Smoking status (ever smoked)’ 

| -5 | missing |
| :--- | :--- |
| 1 | current cigarette smoker |
| 2 | ex-cigarette smoker |
| 3 | never smoked |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable CIGSMK has been used to derive the variable in the same way.

## pcob1 ‘Country of birth’

| -5 | missing |
| :--- | :--- |
| 0 | UK |
| 1 | England |
| 2 | Scotland |
| 3 | Wales |
| 4 | N Ireland |
| 5 | GB other |
| 6 | Eire |
| 7 | Europe |
| 9 | Old Commonwealth |
| 10 | India |
| 11 | East Africa, new Com |
| 12 | Bangladesh |
| 13 | Caribbean Com |
| 14 | Mediterranean Com |
| 15 | Remainder new Com |
| 16 | Pakistan |
| 17 | Rest of world |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable COB1 has been used to derive the variable in the same way.

## pfcob1 'Father's country of birth'

| -5 | missing |
| :--- | :--- |
| 0 | UK |
| 1 | England |
| 2 | Scotland |
| 3 | Wales |
| 4 | N Ireland |
| 5 | GB other |
| 6 | Eire |
| 7 | Europe |
| 9 | Old Commonwealth |
| 10 | India |
| 11 | East Africa, new Com |
| 12 | Bangladesh |
| 13 | Caribbean Com |
| 14 | Mediterranean Com |
| 15 | Remainder new Com |
| 16 | Pakistan |
| 17 | Rest of world |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable FCOB1 has been used to derive the variable in the same way.

## pcountry 'UK country’

| -5 | missing |
| :--- | :--- |
| 1 | England |
| 2 | Wales |
| 3 | Scotland |
| 4 | Scottish Supplement |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable COUNTRY has been used to derive the variable in the same way.

# pcutdown ‘Illness/Injury reduce activity’ 

| -5 | missing |
| :--- | :--- |
| 1 | yes |
| 2 | no |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable CUTDOWN has been used to derive the variable in the same way.

## pdvilo3a 'Activity status'

| -5 | missing |
| :--- | :--- |
| 1 | in employment |
| 2 | unemployed |
| 3 | economically inactive |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable DVILO3A has been used to derive the variable in the same way.

## pedfull 'Education level, full form'

| -5 | missing |
| :--- | :--- |
| 0 | No Qualifications |
| 1 | Higher Degrees |
| 2 | 1st Degree |
| 3 | Teaching Qualification |
| 4 | Other Higher Qualification |
| 5 | Nursing Qualification |
| 6 | A-Level or equivalent (number not specified) |
| 7 | A-Level or equivalent (2+) |
| 8 | A-Level or equivalent (in 1 subject) |
| 9 | GCSE level or equivalent (5 or more) |
| 10 | GCSE level or equivalent 1-4, above grade C |
| 11 | GCSE level or equivalent 1-4, below grade C |
| 12 | Clerical and Commercial Qualification, no O-levels |
| 13 | CSE other |
| 14 | Apprenticeship |
| 15 | STDGRD 6-7NOAWRD 6-7noawrd (should be grouped with "other |
| 16 | qualifications" |
| 17 | Foreign Qualification |
| 17 | Other Qualification |
| 18 | O-levels (do not know number) |
| 19 | Never went to school |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable EDLEV00 has been used to derive the variable in the same way.

# pgenhlth 'Health on the whole in last 12 months' 

| -5 | missing |
| :--- | :--- |
| 1 | good |
| 2 | fairly good |
| 3 | not good |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable GENHLTH has been used to derive the variable in the same way.

## phhtyf1 ‘Household type F (Grouped)’

| -5 | missing |
| :--- | :--- |
| 1 | 1 person only |
| 2 | $2+$ unrelated adults |
| 3 | married couple, dependent children |
| 4 | married couple, independent children |
| 5 | married couple, no children |
| 6 | lone parent, dependent children |
| 7 | lone parent, independent children |
| 8 | $2+$ families |
| 9 | same sex cohab |
| 10 | cohab couple, dependent children |
| 11 | cohab couple, independent children |
| 12 | cohab couple, no children |
| 13 | couple household, dependent children |
| 14 | couple household, independent children |
| 15 | couple household, no children |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable HHTYPF has been used to derive the variable in the same way. This variable is not available in 1979-83.

# phhtype 'Household type A (Grouped)' 

| -5 | missing |
| :--- | :--- |
| 1 | 1 adult aged 16-59 |
| 2 | 2 adults aged 16-59 |
| 3 | youngest person aged $0-4$ |
| 4 | youngest person aged $5-15$ |
| 5 | 3 or more adults |
| 6 | 1 adult aged $60+$ |
| 7 | 2 adults, one or both aged $60+$ |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series dataset.

For the additional years 2005-2007, the variable HHTYPA has been used to derive the variable in the same way.

# pillness 'Any longstanding illness or disability’ 

| -5 | missing |
| :--- | :--- |
| 1 | yes |
| 2 | no |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable ILLNESS has been used to derive the variable in the same way.

# plimitac 'If longstanding illness limits activity' 

| -5 | missing |
| :--- | :--- |
| 1 | yes |
| 2 | no |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable LIMITACT has been used to derive the variable in the same way.

## pmcob1 'Mothers country of birth’

| -5 | missing |
| :--- | :--- |
| 0 | UK |
| 1 | England |
| 2 | Scotland |
| 3 | Wales |
| 4 | N Ireland |
| 5 | GB other |
| 6 | Eire |
| 7 | Europe |
| 9 | Old Commonwealth |
| 10 | India |
| 11 | East Africa, new Com |
| 12 | Bangladesh |
| 13 | Caribbean Com |
| 14 | Mediterranean Com |
| 15 | Remainder new Com |
| 16 | Pakistan |
| 17 | Rest of world |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable MCOB1 has been used to derive the variable in the same way.

## pno 'Person number of the respondent in the household'

A unique number for each person in the household.
Variables used in the construction of pno

| Value labels/names | Codes from each year of the GHS |  | CPC code |
| :---: | :---: | :---: | :---: |
| for the codes on the original | $\begin{gathered} 1979 \text { to } \\ 1982 \end{gathered}$ | $\begin{gathered} 1983 \text { to } \\ 2007 \end{gathered}$ | pno |
| GHS dataset | PERNO | PERSNO |  |
| 1-13 |  |  |  |

## pnumveh 'Number of cars’

| -5 | missing |
| :--- | :--- |
| 0 | no car available |
| 1 | one car |
| 2 | two cars |
| 3 | three or more cars |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable NUMCARS has been used to derive the variable in the same way.

## pregnant 'Woman pregnant at time of interview'

| 1 | yes |
| :--- | :--- |
| 2 | no |
| -8 | not known |
| -9 | DNA |

Whether the respondent is pregnant, among eligible women.
This variable was filtered on several criteria. A table with eligibility is available in Annex F with the eligibility for the whole contraception/fertility intentions section. Before 1986 women aged less than 45 and eligible for the FI section From 1986 onwards women aged less than 50 and eligible for the FI section

Variables used in the construction of pregnant:
PREGNANT (always the same across years), but also age, eligfi and sex.
A subset of those eligible for the FI section is asked this question.

```
if year<=1985 then do;
    if sex ne 2 or eligfi ne 1 or age>=45 then pregnant=-9;
    else if pregnant notin (1,2) then pregnant=-8;
end;
if year>1985 then do;
    if sex ne 2 or eligfi ne 1 or age>=50 then pregnant=-9;
    else if pregnant notin (1,2) then pregnant=-8;
end;
```


## preltohr 'Relationship to head of household Ihousehold reference person'

| -5 | missing |
| :--- | :--- |
| 0 | head of household |
| 1 | spouse |
| 2 | cohabitee |
| 3 | son/daughter (inc adopted) |
| 4 | step-son/daughter |
| 5 | foster child |
| 6 | son-in-law/daughter-in-law |
| 7 | parent/guardian |
| 8 | step-parent |
| 9 | foster parent |
| 10 | parent-in-law |
| 11 | brother/sister (incl. adopted) |
| 12 | step-brother/sister |
| 13 | foster brother/sister |
| 14 | brother/sister-in-law |
| 15 | grand-child |
| 16 | grand-parent |
| 17 | other relative |
| 18 | other non-relative |

This variable is carried over from the variable of the same name of the 1972-2004 GHS time-series dataset. For the additional years 2005-2007, the variable
RELTOHRP has been used to derive the variable in the same way.

## probmore 'Further probe on more children for 'don't knows' on morechld'

| 1 | you will probably have any more children (probably yes) |
| :--- | :--- |
| 2 | you will probably not have any more children (probably not) |
| -9 | DNA |
| -8 | NA |

This question is asked of respondents who said "don't know" to the previous question, morechld

This variable equals PROBMORE of GHS, with values of 3 and 9 recoded to -8 .

## pseghrp 'Socio-economic group of HOH/HRP'

| -5 | missing |
| :--- | :--- |
| 1 | employers; large |
| 2 | managers; large |
| 3 | employers; small |
| 4 | managers; small |
| 5 | prof-self employed |
| 6 | prof-employee |
| 7 | interm non-man anc |
| 8 | interm non-man foremn |
| 9 | junior non-man |
| 10 | personal service |
| 11 | manual; foremn/SV |
| 12 | skilled manual |
| 13 | semi-skilled manual |
| 14 | unskilled manual |
| 15 | own acc non-prof |
| 16 | farmers; emp \& mgrs |
| 17 | farmers; own acc |
| 18 | agric workers |
| 19 | armed forces |
| 20 | full time student |
| 21 | never worked |
| 22 | no usual occupation |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable HRPNWSEG has been used to derive the variable in the same way.

## ptenure 'Tenure’

| -5 | missing |
| :--- | :--- |
| 1 | owns outright |
| 2 | buying with a mortgage |
| 3 | private Rented |
| 4 | social Rented |

For the years 1979-2004, when the GHS 1972-2004 time series and the CPC GHS time series datasets overlap, this variable is carried over from the variable of the same name in the 1972-2004 time series.

For the additional years 2005-2007, the variable TENURE has been used to derive the variable in the same way

## sampq 'Sample quarter’

1
2 3

4
-9

First quarter
Second quarter
Third quarter
Fourth quarter
not available that year

The calendar month corresponding to these codes differs according to whether the survey is carried out on a calendar year or a financial year basis. For calendar years, code 1 = January to March quarter. For financial years, code 1 = April to June quarter.

The 1998 GHS data file from ESDS was found to have an error in codes 3 and 4 and an attempt has been made to correct these using the month of interview. All interviews either coded 3 originally or coded 4 and taking place in November and December 1998 are now coded 3. The rest of those originally coded 4 retain the code 4. This is not exactly accurate as interviews scheduled for a particular quarter sometimes take place in a later quarter. So a few of those coded 4 in the 1998 survey may in fact belong to quarter 3 but the interview took place in January to March 1999.

Variables used in the construction of sampq

| Value labels/names <br> for the codes on the <br> original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| ---: | :---: | :---: | :---: | :---: |
|  | 1979 to 1996 | 1998 to 2004 | 2004 to 2007 |  |
| First quarter |  | SAMPQTR | SAMPQTR | $\mathbf{1}$ |
| Second quarter |  | 1 | 1 | 2 |
| Third quarter |  | 3 | 3 | $\mathbf{3}$ |
| Fourth quarter |  | 4 | 4 | $\mathbf{4}$ |
| Not available that |  |  |  |  |
| year |  |  |  |  | no value

Note that 2004-05 was the last year in which the survey was fielded on a financialyear basis, and the original dataset deposited with the ESDS Data Archive for this year includes the first quarter of 2005. In 2005, the survey changed back to a calendar year basis, and a full year's sample size was collected in quarters 2,3 , and 4 of 2005. In the ESDS version of the 2005 GHS, the last quarter of 2004-5 is duplicated as the first quarter of 2005. Because the first quarter of 2005 is already present in the 2004-5 dataset, we have excluded it from the 2005 data in our time series dataset. The first quarter of 2005 can be identified in the 2004-5 dataset via sampq=4.

Therefore to extract the original 2004-5 round data from the CPC dataset, choose year $=2004$, and sampq $=1$ or 2 or 3 or 4

To extract the data deposited as the 2005 round with the Archive, choose year $=2004$ and $\operatorname{sampq}=4$ AND year $=2005$ and sampq $=2$ or 3 or 4

## sched ‘Full or proxy interview’

1
2
3 4 5

Full interview
Proxy
Eligible but non-contact or refusal
Child under 16
No information available for this year (1979 only)
Variables used in the construction of sched

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1980 \text { to } \\ 1982 \\ \hline \end{gathered}$ | 1983 to 2001 | 2002 to 2006 | sched |
|  | COMPLETE | SCHEDTYP | SCHEDTYP |  |
| Fully Co-op | 1 |  |  | 1 |
| Eligible, proxy | 2 |  |  | 2 |
| Eligible, non-contact | 3 |  |  | 3 |
| Eligible, refusal | 4 |  |  | 3 |
| Child strictly under 16 | Not coded | Not coded | 0 | 4 |
| Full interview |  | 1 | 1 | 1 |
| Proxy |  | 2 | 2 | 2 |
| Eligible but NC or Refusal |  | 3 | 3 | 3 |
| Missing (NA) | missing code and not a child | missing code and not a child | missing code and not a child | -8 |

Note that in 1979, no variable is available on which to base sched. Thus for that year, sched is coded 5.

## selfcomr 'Self completion of the FI section'

| 1 | self-completion |
| :--- | :--- |
| 2 | not self-completion |
| -8 | not known |
| -9 | DNA |

This variable applies only to respondents who were eligible for the FI section.
Given the complexity of the initial variables, the table has been simplified and the codes only are given, not the labels.

Variables used in the construction of selfcomr

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  |  |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1979 \text { to } \\ 1982 \\ \hline \end{gathered}$ | $\begin{gathered} 1983 \text { to } \\ 1985 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 1989 \text { and } \\ 1990 \text { to } 1993 \end{gathered}$ | 1989 to 1993 | $\begin{gathered} 1994 \text { to } \\ 2002 \\ \hline \end{gathered}$ | $\begin{gathered} 2003 \text { to } \\ 2007 \\ \hline \end{gathered}$ | selfcomr |
|  | FISELF | CHECKB | FAMINFSG | FAMINFSG | SELFCOM3 | SELFCOM3 |  |
| Self completion | 1 | 1 | $\begin{gathered} 1,3,5,7,9 \\ 11,13,15 \\ \hline \end{gathered}$ | 1, 3, 5, 7 | 2,3 |  | 1 |
| Self completion laptop |  |  |  |  |  | 1 | 11 |
| Self completion paper |  |  |  |  |  | 2,3,5 | 12 |
| Not self completion | 2,3 | 2, 3, 4, 5 | $\begin{gathered} \hline 2,4,6,8,10 \\ 12,14,16 \\ \hline \end{gathered}$ | 2, 4, 6, 8 | 1 | 4 | 2 |
| Refused whole or partial section |  |  | 17, 18 | 9, 10 | 5 | 6 | 3 |
| Does not apply (DNA) | -6, -9 | -6, -9 | -6, -9 | -6, -9 | 4, -6, -9 | -6, -9 | -9 |
| Missing (NA) | missing code | missing code | missing code | missing code | $\begin{aligned} & 6, \text { missing } \\ & \text { code } \end{aligned}$ | missing code | -8 |

## sex 'Sex of the respondent'

| 1 | male |
| :--- | :--- |
| 2 | female |

The sex variable is consistent across time, and indicates the sex of the respondent.
Variables used in the construction of sex

| Value labels/names <br> for the codes on the <br> original GHS dataset | Codes from each <br> year of the GHS | CPC code |
| ---: | :---: | :---: |
|  | 1979 to 2007 |  |
|  | 1 | $\mathbf{1}$ |
| female | 2 | $\mathbf{2}$ |
| Missing (NA) | Any missing codes <br> ever used in GHS | $\mathbf{- 8}$ |

## sexbth1-sexbth15 'Sex of the $1^{\text {st }}-15^{\text {th }}$ live birth in the original birth history’

| 1 | male |
| :--- | :--- |
| 2 | female |

Sex of live births to respondent
Variables used in the construction of sexbth1-sexbth15
$n$ indicates any ranges on which the variables are available the different years

| Value labels/names for the codes on the original GHS dataset | Codes from each year of the GHS |  |  | CPC code |
| :---: | :---: | :---: | :---: | :---: |
|  | 1979 to 1982 | 1983 to 1996 | 1998 to 2007 | sexbth1- <br> sexbth15 |
|  | CHDSEX1-n | SEX1-n | BIRTHSEX BIRTHSE2-9 BIRTHS10-n |  |
| Male | 1 | 1 | 1 | 1 |
| Female | 2 | 2 | 2 | 2 |
| Missing (NA) | Missing codes in GHS | Missing codes in GHS | -8 | -8 |
| Does not apply (DNA) | Missing codes in GHS | Missing codes in GHS | -6, -9 | -9 |

## sexbthr1-sexbthr15 'Sex of the $1^{\text {st }}-15^{\text {th }}$ live birth in the revised birth history'

1 male<br>2<br>female

Sex of live births to respondent in the revised birth history

## sterild 'Whether has been sterilized'

| 1 | yes, woman |
| :--- | :--- |
| 2 | yes, man |
| 3 | yes, both |
| 4 | no |
| -9 | DNA |
| -8 | NA |

The question is asked only of women aged less than 50. As for all questions in the contraception section, it is asked in selected years only, as given in the table below.

A table on eligibility is given in Annex F with the eligibility for the whole contraception/fertility intentions section.

Variables used in the construction of sterild

| Value <br> labels/names <br> for the codes <br> on the original <br> GHS dataset | Codes from each year of the GHS <br> 1983; 1984; 1986; <br> 1987 | STERILSD + <br> WHOSTLSD | STERCHKA | CPC code |
| ---: | :---: | :---: | :---: | :---: |
|  | $1+1$ |  | $1991 ; 1993 ; 1995 ;$ <br> $1998 ; 2002$ |  |
| STERILA + STERILB + |  |  |  |  |
| sterild |  |  |  |  |
| WHOSTLSD man | $1+2$ |  | $1+$ DNA+1 |  |
| yes, both | $1+3$ |  | $1+$ DNA+2 | $\mathbf{1}$ |
| no | $2+$ any |  | $1+$ DNA+3 | $\mathbf{3}$ |
| Missing (NA) | . | . | $(2$ or 2$)+$ DNA | 4 |
| Does not <br> apply (DNA) | . | . | . or -8 | $\mathbf{- 8}$ |

The variable combines the variables on sterilisation and the information on which partner has been sterilised.

From 1991 onwards, answers were coded separately for women with a partner (STERILA) and without partner (STERILB). We thus group the two variables. The variable available for 1989, STERCHKA, has been constructed in the original GHS using the questions on contraception. Users have to keep in mind that the way it is constructed differs from the other years, since no specific question on sterilization has been asked.

In all years where a contraception section exists, except 1989, a direct question was asked about whether the respondent and her partner were sterilized. In 1989 the information appears as a code on a question about current contraception.

## totchld 'Total intended family size’

| 1 to 25 | range of the total number of children wanted |
| :--- | :--- |
| -9 | DNA |
| -8 | NA |

Only asked of those who either intend to have at least one more child, or don’t know, or, from 1991 onwards, answered "probably yes" to morechld or probmore.

Variables used in the construction of totchld

| Value <br> labels/names <br> for the codes <br> on the original <br> GHS dataset | Codes from each year of the GHS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1979 to 1982 | 1983 to 1985 | 1986 to 1990 | 1991 to 2007 | CPC code |
| CHLDTOT | morechld <br> TOTCHILD | morechld <br> TOTCHLD | morechld <br> TOTCHLD | totchld |  |
| Missing (NA) | CHLDTOT | TOTCHILD | TOTCHLD | TOTCHLD | $\mathbf{1}$ to 25 |
| Does not apply |  |  |  |  |  |
| (DNA) | when <br> morechld <br> not eq.1 | when <br> morechld not <br> eq.1 | when <br> morechld not <br> eq.1 and not <br> eq.3 | when morechld <br> not eq.11 and <br> not eq.12 and <br> probmore not <br> eq.1 | -9 |

## wave 'Wave’

1
2 3 4

First wave
Second wave
Third wave
Fourth wave
This is the wave variable exactly as in the original datasets. This variable is used to represent the stage at which respondents are in the rolling sample from 2005. Those to be dropped in the following year are coded 4 , those due to remain over three more years are coded 1. In 2005, all respondents are new. In 2006 all respondents, except those coded wave=4 in 2005, continue in the sample. For respondents new in a particular round, wave takes value 1 , for the others the wave variable is incremented by 1. This applies between 2006 and 2009 rounds.

## weightn 'Original ONS weights’

Available for years 1996 to 2009 only.

## Weights generated by CPC

Because ONS provided weights from 1996 only, CPC generated two principal sets of weights applicable to the entire 1979-2007 dataset. Variable names starting with wgtcpc refer to weights generated by CPC. See Beaujouan, Brown and Ní Bhrolcháin (2011) for details. New weights were produced in exactly the same way for 2008 and 2009.

All normalised weights are normalised by survey year; hence the sum of the normalised weights for a given GHS survey round equals the sample size in that round.
wgtcpc 'Weights for all individuals in the CPC timeseries'
wgtcpcstd 'Weights for all individuals in the CPC timeseries, normalised'
wgtcpcfi 'Weights for individuals answering the Family Information section in the CPC time-series'
wgtcpcfistd 'Weights for individuals answering the Family Information section in the CPC time-series, normalised and trimmed at 3'

The weights appropriate for different types of analysis are:

| Samples analysed | CPC weights | Referred to in Beaujouan, Brown <br> and Ní Bhrolcháin (2011) as: |
| :--- | :--- | :--- |
| General samples | wgtcpc, wgtcpcstd | CPC-ALL |
| Respondents to the Family <br> Information Section | wgtcpcfi, wgtcpcfistd | CPC-FI |

We recommend to use the normalised weights (normalisation is done by year), as the size of the sample varies from one year to the other.

## year 'Year of the survey'

| 1979 | 1979 |
| :--- | :--- |
| 1980 | 1980 |
| 1981 | 1981 |
| 1982 | 1982 |
| 1983 | 1983 |
| 1984 | 1984 |
| 1985 | 1985 |
| 1986 | 1986 |
| 1987 | 1987 |
| 1988 | $1988-89$ |
| 1989 | $1989-90$ |
| 1990 | $1990-91$ |
| 1991 | $1991-92$ |
| 1992 | $1992-93$ |
| 1993 | $1993-94$ |
| 1994 | $1994-95$ |
| 1995 | $1995-96$ |
| 1996 | $1996-97$ |
| 1998 | $1998-99$ |
| 2000 | $2000-01$ |
| 2001 | $2001-02$ |
| 2002 | $2002-03$ |
| 2003 | $2003-04$ |
| 2004 | $2004-05$ |
| 2005 | 2005 |
| 2006 | 2006 |
| 2007 | 2007 |

The variable year gives the calendar year of the survey round (1979-87, and 20052007) or the first year of the two-year financial year span (e.g. 1988 for 1988-9 from 1988-9 to 2004-5). This is done in order to simplify the reading of the tables and to have a numeric variable, but of course the whole dataset corresponding to the original survey round, whether on a calendar or financial year basis, is present for that year.

## ANNEX A QUALITY CHECKS AND EDITS CARRIED OUT ON BIRTH HISTORIES 1979-2007 ${ }^{4}$

## Organisation of birth history files for cleaning

We first built a data file, extracted from the original GHS files for the years 19792007 with variables relevant to birth histories and cleaning. The variables were made consistent across years with standardized value labels. This original set of fertility histories is available in the deposited CPC dataset.

However, it was clear that a number of births had not been reported within the original fertility histories and so these original histories have been augmented using information on children living in the household. (See the end of this Annex and Ni Bhrolchain, Beaujouan and Murphy (2011) for further details.) It is this augmented file which was used as the basis for the data checks reported below. Variables from the CPC revised birth history appear in the dataset postscripted with an r.

## Checks and edits for birth history

## General principles

- In general, we count anomalies and list the frequency of anomalies by survey year.
- Valid date defined as: year present and <= year of interview and >= date of birth
- For convenience, dates of birth are referred to in this document as DOB; it will be clear from the context whether the date of birth in question relates to the respondent herself or to live births in the fertility history.


## To summarize, the checks and edits are as follows:

(a) Checks on the year and month of live births
$\Rightarrow$ order
$\Rightarrow$ number of live births declared by the respondent and count of the number of dates of birth in the birth history
$\Rightarrow$ frequency of missing month or year
$\Rightarrow$ consistency with DOB and age of parents and with date of interview
The same checks have been carried out for the age of mother at live births as for the dates of live births, but tables in this document are confined to checks on the live birth dates.

## Remark

It seems that the mother's age at birth has been edited by ONS since 1988 (i.e. they have corrected some ages at birth when the childbearing history was not consistent) but the associated dates of live births were not edited correspondingly. In the original

[^3]1996 data file, for some individuals the sequence of age of the mother at births were in reverse order, but the corresponding dates of birth were in the correct order (i.e. earliest birth first etc.). Sometimes, the dates of birth are out of order in the original datasets.

The age of mother at birth(s) (and all the variables that go with them) have been reordered when in complete reverse order. The years of birth (and all the variables that go with them if not already reversed in the process of reordering age of mother at birth(s)) have been reordered. For the births of children, the sequence of year of birth is updated using these corrected sequences of ages of mother at birth and the month of birth of the child when it exists. Before 1988 where we do not have the age of mother at birth and in 1996 where age sequences are problematic, the original years of live births are retained.
One special check is done to see how many individuals' records have been edited. In all cases, checks are applied again after the edits described above. As a result, the tables below are in pairs, giving the results of the pre-edit and post-edit checks.

Following the editing process, two kinds of anomalies remain:

- years of live birth that are out of order (but not in exact reverse order), in very few cases that already had other amendments.
- difference between the declared number of births and number of dates of births actually present on the file.


## Detail of the checks

Check 1
Declared number of births in FI section = number of valid dates of birth.
(0) same number of births declared as number of valid birth dates
(1) no valid birth dates despite at least one birth declared
(2) number of valid dates of birth $>$ number of births declared $>0$
(3) $0<$ number of valid dates of birth $<$ number of births declared

Table BH1 gives the number of women in each GHS year for whom the number of dates of live birth differs from the declared number of births. We see that the number of people who do not give enough dates of births of children compared with their number of children is especially high in 1982 and 2006.

Table before edit BH1

| year | checknb |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | same nb births <br> declared and nb dob | nb births declared>0 but no dob | nb births declared<dob | nb births declared>dob | Total |
| 1979 | 2753 | 6003 | 0 | 0 | 1 | 8757 |
| 1980 | 2565 | 6202 | 0 | 0 | 1 | 8768 |
| 1981 | 2549 | 6528 | 0 | 0 | 1 | 9078 |
| 1982 | 2106 | 5153 | 10 | 0 | 339 | 7608 |
| 1983 | 2038 | 5294 | 0 | 0 | 0 | 7332 |
| 1984 | 1778 | 5251 | 0 | 0 | 0 | 7029 |
| 1985 | 1849 | 5364 | 0 | 0 | 0 | 7213 |
| 1986 | 147 | 7205 | 0 | 0 | 0 | 7352 |
| 1987 | 163 | 7346 | 0 | 0 | 0 | 7509 |
| 1988 | 150 | 7073 | 0 | 0 | 0 | 7223 |
| 1989 | 151 | 7087 | 0 | 0 | 0 | 7238 |
| 1990 | 89 | 6677 | 0 | 0 | 0 | 6766 |
| 1991 | 97 | 6928 | 0 | 0 | 0 | 7025 |
| 1992 | 88 | 6975 | 0 | 0 | 0 | 7063 |
| 1993 | 102 | 6618 | 0 | 0 | 0 | 6720 |
| 1994 | 139 | 6462 | 2 | 0 | 2 | 6605 |
| 1995 | 84 | 6455 | 0 | 0 | 0 | 6539 |
| 1996 | 91 | 6105 | 0 | 0 | 0 | 6196 |
| 1998 | 36 | 5555 | 5 | 0 | 9 | 5605 |
| 2000 | 79 | 5299 | 8 | 0 | 10 | 5396 |
| 2001 | 135 | 5906 | 9 | 1 | 12 | 6063 |
| 2002 | 203 | 5596 | 8 | 0 | 15 | 5822 |
| 2003 | 226 | 6516 | 6 | 1 | 24 | 6773 |
| 2004 | 217 | 5655 | 3 | 0 | 15 | 5890 |
| 2005 | 258 | 6640 | 14 | 0 | 20 | 6932 |
| 2006 | 738 | 5492 | 87 | 1 | 10 | 6328 |
| 2007 | 429 | 5371 | 0 | 0 | 4 | 5804 |
| Total | 19260 | 166756 | 152 | 3 | 463 | 186634 |

## Corrections

The 339 histories with fewer years of live birth than declared number of live births in 1982 are due to missing values for year of live birth in the middle of the birth history series.

Between 1988 and 2007:

- As noted above, it seems that the birth histories were cleaned by ONS, but they only edited the ages of the mother at birth, and left the original, unedited, and presumably mistaken, year of birth on the file.
- we have therefore recalculated the year of live birth using the recorded month of birth together with the date of birth of the mother, thus replacing the existing year when it is missing or in error.

Table after edit BH1c

| year | checknbl |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | same nb declared and nb dob | nb births but no dob | nb births declared<dob | nb births declared>dob | Total |
| 1979 | 2753 | 6003 | 0 | 0 | 1 | 8757 |
| 1980 | 2565 | 6202 | 0 | 0 | 1 | 8768 |
| 1981 | 2549 | 6528 | 0 | 0 | 1 | 9078 |
| 1982 | 2106 | 5422 | 5 | 0 | 75 | 7608 |
| 1983 | 2038 | 5294 | 0 | 0 | 0 | 7332 |
| 1984 | 1778 | 5251 | 0 | 0 | 0 | 7029 |
| 1985 | 1849 | 5364 | 0 | 0 | 0 | 7213 |
| 1986 | 147 | 7205 | 0 | 0 | 0 | 7352 |
| 1987 | 163 | 7346 | 0 | 0 | 0 | 7509 |
| 1988 | 150 | 7069 | 0 | 0 | 4 | 7223 |
| 1989 | 151 | 7085 | 0 | 0 | 2 | 7238 |
| 1990 | 89 | 6677 | 0 | 0 | 0 | 6766 |
| 1991 | 97 | 6926 | 0 | 0 | 2 | 7025 |
| 1992 | 88 | 6972 | 0 | 0 | 3 | 7063 |
| 1993 | 102 | 6617 | 0 | 0 | 1 | 6720 |
| 1994 | 139 | 6460 | 4 | 0 | 2 | 6605 |
| 1995 | 84 | 6455 | 0 | 0 | 0 | 6539 |
| 1996 | 91 | 6105 | 0 | 0 | 0 | 6196 |
| 1998 | 36 | 5551 | 8 | 0 | 10 | 5605 |
| 2000 | 78 | 5297 | 11 | 0 | 10 | 5396 |
| 2001 | 135 | 5904 | 12 | 0 | 12 | 6063 |
| 2002 | 203 | 5595 | 12 | 0 | 12 | 5822 |
| 2003 | 226 | 6522 | 11 | 0 | 14 | 6773 |
| 2004 | 217 | 5658 | 8 | 0 | 7 | 5890 |
| 2005 | 258 | 6642 | 21 | 0 | 11 | 6932 |
| 2006 | 585 | 5645 | 88 | 1 | 9 | 6328 |
| 2007 | 350 | 5451 | 3 | 0 | 0 | 5804 |
| Total | 19027 | 167246 | 183 | 1 | 177 | 186634 |

## Comment

The number of missing years of live births has increased between Table BH1 and BH1c. This is because when there was a mistake in the reported age of the mother at birth, ONS suppressed the age of mother at birth but left the incorrect year of the child's birth. The edit carried out restores a few problematic dates previously suppressed.

The declared number of births is not, as we see, always equal to the number of birth slots appearing on the file. We have no basis for choosing between these two counts of live births, and so we retain on the database the original declared number of births, although it may be inconsistent with the number of birth slots for some respondents.

Concerning the second last column (declared number of births> number of dates of birth), this occurs either (1) when there are gaps in the sequence of births; or (2) when the maximum number of birth slots provided for in the file is not high enough compared to the real maximum declared number of births. However the limitation due to the number of slots is very low and begins in 2001-02, as seen in the table BH1d below.

Table BH1d

|  | resp. whose nb <br> children too high <br> compared with nb <br> dob allowed | max allowed |
| :--- | :---: | :---: |
| 1979 | 0 | 12 |
| 1980 | 0 | 12 |
| 1981 | 0 | 11 |
| 1982 | 0 | 9 |
| 1983 | 0 | 10 |
| 1984 | 0 | 8 |
| 1985 | 0 | 12 |
| 1986 | 0 | 13 |
| 1987 | 0 | 13 |
| $1988-89$ | 0 | 14 |
| $1989-90$ | 0 | 12 |
| $1990-91$ | 0 | 10 |
| $1991-92$ | 0 | 12 |
| $1992-93$ | 0 | 11 |
| $1993-94$ | 0 | 11 |
| $1994-95$ | 0 | 10 |
| $1995-96$ | 0 | 10 |
| $1996-97$ | 0 | 9 |
| $1998-99$ | 4 | 10 |
| $2000-01$ | 7 | 10 |
| $2001-02$ | 11 | 7 |
| $2002-03$ | 8 | 7 |
| $2003-04$ | 9 | 7 |
| $2004-05$ | 4 | 7 |
| 2005 | 0 | 7 |
| 2006 | 0 | 7 |
| 2007 | 0 | 7 |
|  | 0 | 7 |
|  | 0 | 7 |

## Check 2

DOB respondent<dates of live birth<=date of interview
We created a quality indicator for each birth: ' 0 ' $=$ 'no problem' ' 1 '='born before parent' '2'='born before parent was 10 ' 3 '='born after interview'.

Table BH2 shows that there are somewhat more inconsistencies from 2001 onwards in the dates of live birth relative to the mother's date of birth.

Table before edit BH2

| year | no problem | chparborn before parent born before parent born after interviewwas 10 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| 1979 | 30705 | 0 | 0 | 0 | 30705 |
| 1980 | 31443 | 0 | 0 | 0 | 31443 |
| 1981 | 32410 | 0 | 0 | 0 | 32410 |
| 1982 | 27160 | 0 | 0 | 0 | 27160 |
| 1983 | 26587 | 0 | 0 | 0 | 26587 |
| 1984 | 25354 | 0 | 0 | 0 | 25354 |
| 1985 | 25555 | 0 | 0 | 0 | 25555 |
| 1986 | 26073 | 0 | 0 | 0 | 26073 |
| 1987 | 26419 | 0 | 0 | 0 | 26419 |
| 1988 | 25350 | 0 | 0 | 0 | 25350 |
| 1989 | 25269 | 0 | 0 | 0 | 25269 |
| 1990 | 23663 | 0 | 0 | 0 | 23663 |
| 1991 | 24657 | 0 | 0 | 0 | 24657 |
| 1992 | 24534 | 0 | 0 | 1 | 24535 |
| 1993 | 24079 | 0 | 0 | 0 | 24079 |
| 1994 | 23620 | 0 | 2 | 0 | 23622 |
| 1995 | 23385 | 0 | 0 | 0 | 23385 |
| 1996 | 22274 | 0 | 0 | 0 | 22274 |
| 1998 | 20394 | 1 | 0 | 1 | 20396 |
| 2000 | 19266 | 0 | 0 | 0 | 19266 |
| 2001 | 21110 | 49 | 13 | 8 | 21180 |
| 2002 | 20130 | 4 | 6 | 9 | 20149 |
| 2003 | 24489 | 0 | 0 | 0 | 24489 |
| 2004 | 20419 | 2 | 0 | 0 | 20421 |
| 2005 | 25070 | 14 | 0 | 9 | 25093 |
| 2006 | 22913 | 2 | 2 | 7 | 22924 |
| 2007 | 21470 | 2 | 0 | 0 | 21472 |
| Total | 663798 | 74 | 23 | 35 | 663930 |

## Problem in 2001

Many dates of birth of children are quite outside the valid limits and some of them are obviously mistyped.

## Edits

- same general edits as in Check 1 using the ages of mother at birth already edited by ONS
- in addition and as far as possible, we attribute a corrected year to the birth. Two methods of attribution are used:
o obvious data entry problems such as a year 2987 are replaced with e.g. 1987
0 the years of birth of the siblings are also used to derive a likely year

Table after correction BH2c

| year | no problem | $\begin{array}{c}\text { chparb } \\ \text { born before parent } \\ \text { was 10 }\end{array}$ |  | born after interview |
| :---: | :---: | :---: | :---: | :---: |$)$

Check 3-4
3- Where date of live birth (i+1) exists, does date of live birth (i) exist?
4- Chronological sequence of years of birth dates correct? : i.e. date of live birth (1) $<=$ date of live birth (2) <= date of live birth (3) etc.

## Quality indicator

'0'='ordered no problem' '1'='missings in the middle' '2'='not ordered'
Table BH3 shows that 1982 is a problematic year, as explained before, with missing dates of births in the middle of many birth histories. The dates of births are more often out of sequence from 1998 onwards than earlier.

Table before edit BH3

| year | flag |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | ordered no problem | missings in the middle | not ordered if no missing |  |
| 1979 | 4246 | 0 | 1 | 4247 |
| 1980 | 4378 | 0 | 0 | 4378 |
| 1981 | 4558 | 0 | 0 | 4558 |
| 1982 | 3486 | 268 | 0 | 3754 |
| 1983 | 3726 | 0 | 0 | 3726 |
| 1984 | 3641 | 0 | 0 | 3641 |
| 1985 | 3623 | 0 | 0 | 3623 |
| 1986 | 4804 | 0 | 0 | 4804 |
| 1987 | 4984 | 0 | 0 | 4984 |
| 1988 | 4782 | 0 | 0 | 4782 |
| 1989 | 4826 | 0 | 0 | 4826 |
| 1990 | 4599 | 0 | 0 | 4599 |
| 1991 | 4775 | 0 | 0 | 4775 |
| 1992 | 4780 | 0 | 0 | 4780 |
| 1993 | 4624 | 0 | 0 | 4624 |
| 1994 | 4467 | 0 | 1 | 4468 |
| 1995 | 4519 | 0 | 0 | 4519 |
| 1996 | 4288 | 0 | 1 | 4289 |
| 1998 | 3808 | 6 | 10 | 3824 |
| 2000 | 3450 | 5 | 3 | 3458 |
| 2001 | 3856 | 5 | 15 | 3876 |
| 2002 | 3722 | 3 | 9 | 3734 |
| 2003 | 4039 | 6 | 0 | 4045 |
| 2004 | 3486 | 5 | 2 | 3493 |
| 2005 | 4250 | 5 | 38 | 4293 |
| 2006 | 3886 | 4 | 17 | 3907 |
| 2007 | 3623 | 0 | 0 | 3623 |
| Total | 113226 | 307 | 97 | 113630 |

## Problems

For the missing values in the middle of the series of dates of live birth in 1982, the month, the sex, the age of the mother at birth and other variables concerning the children are often present, nevertheless.

## Remark

Strangely, in the original file the year of birth of first, second... birth is a derived variable, while month etc. are original variables.

## Edits

- The main edit described at the beginning of this document (replace date of birth with the ONS-edited age of mother at birth), resolved most of those classified (1) in Table BH3c and so an additional edit was not required for this particular issue
- For those classified (2) we reorder the births in ascending order, together with all associated variables.

Table after edit BH3c

| year | flagb |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | ordered no problem | missings in the middle | not ordered if no missing |  |
| 1979 | 8757 | 0 | 0 | 8757 |
| 1980 | 8768 | 0 | 0 | 8768 |
| 1981 | 9078 | 0 | 0 | 9078 |
| 1982 | 7542 | 64 | 2 | 7608 |
| 1983 | 7332 | 0 | 0 | 7332 |
| 1984 | 7029 | 0 | 0 | 7029 |
| 1985 | 7213 | 0 | 0 | 7213 |
| 1986 | 7352 | 0 | 0 | 7352 |
| 1987 | 7509 | 0 | 0 | 7509 |
| 1988 | 7223 | 0 | 0 | 7223 |
| 1989 | 7238 | 0 | 0 | 7238 |
| 1990 | 6766 | 0 | 0 | 6766 |
| 1991 | 7025 | 0 | 0 | 7025 |
| 1992 | 7062 | 0 | 1 | 7063 |
| 1993 | 6720 | 0 | 0 | 6720 |
| 1994 | 6605 | 0 | 0 | 6605 |
| 1995 | 6539 | 0 | 0 | 6539 |
| 1996 | 6196 | 0 | 0 | 6196 |
| 1998 | 5598 | 7 | 0 | 5605 |
| 2000 | 5391 | 5 | 0 | 5396 |
| 2001 | 6054 | 9 | 0 | 6063 |
| 2002 | 5816 | 6 | 0 | 5822 |
| 2003 | 6764 | 8 | 1 | 6773 |
| 2004 | 5885 | 5 | 0 | 5890 |
| 2005 | 6927 | 4 | 1 | 6932 |
| 2006 | 6324 | 3 | 1 | 6328 |
| 2007 | 5804 | 0 | 0 | 5804 |
| Total | 186517 | 111 | 6 | 186634 |

## Check 5

Frequency of missing months in dates of live birth.
No cases were found of a missing month when a valid year was present, and so no edits were required.

The distribution of month of live births was also checked and month 6 is not especially more frequent than other months, and so we infer that there is not a great deal of imputation to June. Thus the missing months, if they have been imputed by ONS, were distributed across the calendar year. In the original GHS data files the imputation of any part of the dates of live births is not flagged.

## Graph BH1 Distribution of month of birth for first births



Following the five checks and edits detailed above, a temporary woman-level quality flag for the birth history, called bthhist ${ }^{5}$ in the tables below, was computed, as follows:

## BTHHIST

(1) no anomalies in birth history, no edits required
(2) no anomalies in birth history after edits
(2) no date of live birth, but declared number of births $>=1$
(3) number of dates of live birth $>=1$ and $>$ declared number of births or $<$ declared number of births
(4) some invalid/missing dates of live birth; inconsistencies in history, cannot be resolved, unusable
(-9) DNA: not eligible FI, proxy

## Remark

From table BH4c, some errors remain in 1982 that we couldn't correct.
In 2006, the especially high number of people not reporting births while they had some cannot be corrected. This is due to a small issue with the transition from a crosssectional to a longitudinal design, and either these persons, whose most were present in 2005, have not given information to update their 2005 records, or their birth history has not been retrieved correctly from the previous year (where the dates of living births were present). The errors are not due to the erroneous recoding of some males to female in the second+ wave of the 2005-6 round, nor to problems with those who have just turned 16 and so were newly eligible for the FI section in 2006, but not in 2005.

[^4]Table BH4c

| year | brthhist |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | no anomalie | no dob while births declared | too few or too many dob | missing in the middle |  |
| 1979 | 8756 | 0 | 1 | 0 | 8757 |
| 1980 | 8767 | 0 | 1 | 0 | 8768 |
| 1981 | 9077 | 0 | 1 | 0 | 9078 |
| 1982 | 7528 | 5 | 11 | 64 | 7608 |
| 1983 | 7332 | 0 | 0 | 0 | 7332 |
| 1984 | 7029 | 0 | 0 | 0 | 7029 |
| 1985 | 7213 | 0 | 0 | 0 | 7213 |
| 1986 | 7352 | 0 | 0 | 0 | 7352 |
| 1987 | 7509 | 0 | 0 | 0 | 7509 |
| 1988 | 7219 | 0 | 4 | 0 | 7223 |
| 1989 | 7236 | 0 | 2 | 0 | 7238 |
| 1990 | 6766 | 0 | 0 | 0 | 6766 |
| 1991 | 7023 | 0 | 2 | 0 | 7025 |
| 1992 | 7060 | 0 | 3 | 0 | 7063 |
| 1993 | 6719 | 0 | 1 | 0 | 6720 |
| 1994 | 6599 | 4 | 2 | 0 | 6605 |
| 1995 | 6539 | 0 | 0 | 0 | 6539 |
| 1996 | 6196 | 0 | 0 | 0 | 6196 |
| 1998 | 5587 | 8 | 3 | 7 | 5605 |
| 2000 | 5375 | 11 | 5 | 5 | 5396 |
| 2001 | 6039 | 12 | 3 | 9 | 6063 |
| 2002 | 5798 | 12 | 6 | 6 | 5822 |
| 2003 | 6748 | 11 | 6 | 8 | 6773 |
| 2004 | 5875 | 8 | 2 | 5 | 5890 |
| 2005 | 6900 | 21 | 7 | 4 | 6932 |
| 2006 | 6231 | 88 | 6 | 3 | 6328 |
| 2007 | 5801 | 3 | 0 | 0 | 5804 |
| Total | 186274 | 183 | 66 | 111 | 186634 |

## Recovered birth history

We describe here the procedure by which own children have been recovered in the GHS from 1994 onwards. First, we give an outline, then give details of the recovery, present some information on the numbers of recovered children and finally provide details of a consistency check against existing GHS derived variables.

## Outline

In addition to the dated birth history collected in the Family Information (FI) section of the questionnaire ("original fertility history"), we have constructed a birth history which includes both the live births declared by women in the Family Information section, and those "own children" recorded in the household who were not declared in the FI section. We refer to these as "recovered" births, and we refer to the amended birth history that includes them as the "recovered birth history". The recovery has been carried out from1994 onwards only. This is because it is only from 1994 on that a full matrix of relationships between household members is available from which the relationship between a mother and child can be identified unambiguously. Recovered birth histories therefore differ from the original birth histories from 1994 on only; for 1979-1993, the two sets of histories are identical. Prior to 1994, an own child reconstruction is in principle possible using each person's relationship to head of household, but that has not been attempted thus far (the birth histories did not appear to have major deficiencies up to 1994).

Our initial finding was that some women who had declared no births in the FI section had in fact previously reported own children in the household, at the household interview stage. We also found that the number of a woman's own children in the household could sometimes be greater than the number of births declared in the FI section. In exploiting this information, three situations arise:

- For women declared childless in the FI section, attribute to them the live births deduced from the presence of own children in the household. That is, when there is/are own child(ren) in the household, assign their dates of birth as the dates of live birth of the woman. Note that in these cases, any children who are not present in the household are not identified, and so are missing from the recovered birth history.
- For women who have declared $>=1$ live birth in the FI section and have the same number of own children, or fewer, in the household, compare the dates of birth of the children in the household and the dates in the FI section birth history to see whether the children are the same, or appear to be different children. Recover the children when their birth dates are different from those given in the FI section, following the criteria set out below.
- For women who have declared $>=1$ live birth in the FI and have a greater number of own children in the household, do the same and recover the additional child/children, subject to the criteria set out below.


## Detail of the recovery

## Identifying own children in household

Each year since 1994, either the household or individual file gives a household grid that codes the relationship of each individual in the household to every other member of the household (before 1998: REL02T01 etc.; after 1998: RELTO01-14). These
include a code of " 3 " for "child", including natural or adopted children; step and foster children are separately identified and coded. We define as a woman's "own child": any child coded " 3 " in the relationship to the woman. In each year from 1994 on, we recovered these own children in the household, together with their characteristics from the household section of the questionnaire. The relationships are not checked to be reciprocal - i.e. that a child is coded "child" of the woman and that the women is coded "mother" of the child. The matrix is however constructed symmetrically at the GHS data processing stage. In 1998, just one half of the matrix of relationships was coded (R01-09), and we have accordingly constructed the other half from it.

The characteristics recovered are:

- month and year of birth
- age at survey
- sex of the child
- child present in the household

Adding the children in the household to the recovered fertility history when absent from the original fertility history in the FI section

We merge the vector of own children in the household with the vector of children declared in the FI section. The three situations identified above raise different issues.

- For women childless according to the original fertility history (according to BABY/NUMBABY in the FI section), all own children in the household are considered as live births.
- Among women declaring 1+ live births in the original fertility history (FI), several cases arise:
- one or more dates of birth of own children in the household and of children in the FI section are very similar: either the year of birth is the same but the month of birth is 9 months or less different; or the month of birth is exactly the same but the year is one year different: in these cases, we consider these are the same children in the two sources. The dates of birth of the children declared in the FI section are preferred to those given at the household interview stage, because we consider them more likely to be accurate
- a date of birth is very different in the two series (i.e. not meeting the criteria of similarity identified above): we consider that this child was indeed not declared in the FI section and in this case, the child and associated characteristics are added to the vector of the FI section children, forming the "recovered vector".

The table below gives the proportion of women who had at least one own child added by the recovery procedure to the original fertility history given in the Family Information section.

Table BHR2: Proportion of women with at least one recovered own child by original parity

| NBIRTHS | 1994 | 1995 | 1996 | 1998 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -8 | 35.3 | 35.7 | 20.9 | 36.1 | 37.2 | 37.0 | 38.9 | 32.7 | 36.9 | 38.0 | 34.7 | 52.0 |
| 0 | 2.9 | 1.5 | 1.9 | 4.3 | 9.9 | 6.3 | 4.9 | 16.7 | 12.9 | 11.2 | 13.6 | 14.2 |
| 1 | 0.5 | 1.1 | 0.4 | 1.5 | 0.4 | 1.0 | 1.1 | 1.7 | 1.2 | 2.0 | 4.4 | 2.2 |
| 2 | 0.5 | 0.4 | 0.2 | 0.7 | 0.3 | 1.3 | 0.2 | 0.8 | 1.2 | 1.0 | 1.4 | 1.4 |
| 3 | 0.6 | 0.3 | 1.0 | 0.7 | 0.3 | 0.9 | 0.4 | 1.0 | 1.1 | 1.6 | 1.4 | 1.4 |
| 4 | 0.8 | 0.0 | 0.3 | 1.1 | 0.9 | 0.0 | 0.8 | 1.2 | 1.7 | 0.4 | 2.8 | 1.0 |
| 5 | 0.9 | 1.9 | 3.1 | 2.7 | 0.0 | 0.0 | 1.1 | 0.0 | 2.9 | 1.3 | 0.0 | 1.7 |
| 6 | 2.2 | 2.3 | 0.0 | 0.0 | 0.0 | 3.6 | 5.6 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 |
| 7 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1 | 0.0 |
| Total | 2.0 | 1.3 | 1.2 | 2.2 | 4.2 | 3.7 | 3.4 | 7.9 | 7.0 | 6.2 | 8.9 | 9.1 |

## Consistency check

To verify our recovery procedure, we have compared a subset of the children recovered from the household, those under 16, with derived variables on the GHS files. Recovered children under 16 are used here for comparability with the GHS derived variables. We have compared these with

CHNFUOWN: number of children aged under 16 in the family unit (GHS documentation says that this includes stepchildren)

DPCHOWNA: number of dependent children in the household (children aged under 16 or $16-18$ and in full-time education)
We would expect that our count of own children $<16$ should be less than or equal to these variables, as CHNFUOWN may include step children and DPCHOWNA will include some children $16+$ who are in full time education. Our recovery is almost perfectly in line with these variables (we show only the tabulation against CHNFUOWN below). Hence, we believe our procedure to be accurate.

Table BHR1 Number of own children aged less than 16 recovered from the household (biological or adopted), compared with the number of dependent children less than 16 in the Family unit given by the CHNFUOWN variable (own + step children)

| nchhh15 | CHNFUOWN(NO.OF OWN CHILDREN (<16) IN FAMILY UNIT) |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | . | -9 | -8 | -6 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |
| -8 | 217 | 683 | 11 | 583 | 243 | 9 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1749 |
| 0 | 8557 | 19621 | 109 | 5240 | 8425 | 213 | 64 | 14 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 42247 |
| 1 | 2 | 3 | 5 | 3 | 1 | 12843 | 150 | 29 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 13040 |
| 2 | 0 | 8 | 4 | 0 | 0 | 8 | 11936 | 83 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 12057 |
| 3 | 0 | 2 | 1 | 0 | 0 | 2 | 2 | 3704 | 22 | 1 | 1 | 0 | 0 | 0 | 0 | 3735 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 865 | 4 | 2 | 0 | 0 | 0 | 0 | 872 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 202 | 0 | 0 | 0 | 0 | 0 | 202 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 1 | 0 | 32 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 9 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 8776 | 20317 | 130 | 5826 | 8669 | 13075 | 12154 | 3832 | 909 | 209 | 34 | 11 | 6 | 4 | 1 | 73953 |

For further details and an assessment of the revised birth histories, see Ni Bhrolchain, Beaujouan and Murphy (2011) "Sources of error...", Population Studies, 65 (3), 305318.

## ANNEX B QUALITY CHECKS AND EDITS CARRIED OUT ON

## MARRIAGE HISTORIES 1979-1998 ${ }^{6}$

The type of information collected on current and retrospective partnerships has developed over the life time of the GHS, reflecting the increasing complexity of individuals' life course trajectories. This is shown in outline in Table 1. .

In summary the following information was collected:
1979-1980 information on current and previous marriages
1981-1988 duration of premarital cohabitation before the current marriage was added
1989-1998 premarital cohabitation prior to all previous marriages as well as the current one added
2000-2007 information on up to three periods of cohabitation that did not end in marriage added

The cleaning the marriage and partnership histories was carried out separately for the years 1979-1998 and 2000-2007. The checks and edits are therefore described in two documents, one for each of these periods.

This is the first of these two documents and describes the checks and edits carried out on the marriage and partnership histories for GHS rounds 1979-1998.

[^5]Table 1: Summary of type of marriage and partnership information collected within the GHS from 1979 to $200 \boldsymbol{7}^{1}$
$X$ represents information collected.

|  | Survey year (note no survey was conducted in 1997/98 or in 1999/00) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type of information | 1979 | 1981 | 1983 | 1985 | 1987 | 1989 | 1991 | 1993 | 1995 | 1998 | 2000 | 2001 | 2003 | 2005 | 2007 |
| Current and previous marriage dates | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Duration of current cohabitation | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Whether the respondent cohabited prior to their current/most recent marriage ${ }^{2}$ | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Length of premarital cohabitation before current marriage |  | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Length of premarital cohabitation prior to current and previous marriages |  |  |  |  |  | X | X | X | X | X | X | X | X | X | X |
| Start and end dates for closed periods of cohabitation which did not lead to marriage |  |  |  |  |  |  |  |  |  |  | X | X | X | X | X |

${ }^{1}$ Men were asked this information only from 1986
${ }^{2}$ This information was not collected in the 1980 round

## Executive Summary

The consistency of dates in the marriage histories for the period 1979-1998 is excellent as seen in Table 2 which shows the numbers of marriages that are either without error or without error following editing. These are shown in four groups of years treated separately due to their differing data structures. In total $0.8 \%$ of the marriage histories had some sort of error in them which meant that information on one or more marriage spells is unusable.

Table 2 Number of marriage histories containing an error

|  | $1979-82$ | $1983-87$ | $1988-1996$ | 1998 |
| :--- | ---: | ---: | ---: | ---: |
| No error | 19115 | 32479 | 81180 | 7063 |
| No error after edit | 3 | 3 | 3 | 101 |
| At least one erroneous <br> spell | 392 | 295 | 322 | 53 |
|  |  |  |  |  |
| Total marriage histories | 19510 | 32777 | 81505 | 7217 |

For further details, see Berrington et al (2011) Evaluation of the Partnership Histories in the Centre for Population Change GHS Time Series Dataset. CPC Working Paper 12, Centre for Population Change, University of Southampton

## Checks on GHS Marriage Histories 1979-1998

Section 1 sets out the checks and edits applied to the marriage histories for the period 1979-1998. The tables that follow present the results of these checks for four blocks of years:
Section 2 1979-1982 (Table 79.1 - Table 79.13b)
Section 3 1983-1987 (Table 83.1- Table 83.11)
Section 4 1988-1996 (Table 88.1 - Table 88.13b)
Section 51998 (Table 98.1 - 98.13)
The checks and edits are organised in this way because the names and formats of the variables and the structure of the datasets changes through this period, and so results are presented for blocks of years within which the structure of the data was fairly homogeneous.

## 1 General principles

We count anomalies and list the frequency of anomalies, sometimes by survey year. This includes cases with a missing month but a valid year of marriage. A valid marriage date is defined as: year present and <= year of interview and >= year of respondent's birth (or after the year of birth when the date is unavailable).

| No. | Check | Action |
| :---: | :---: | :---: |
| 1 | Marriage dates < date of interview? | T |
| 2 | Is there a valid set of marriage dates: i.e. first = valid, $2^{\text {nd }}$ valid, $3^{\text {rd }}$ valid or not: e.g some valid dates occur later in the sequence than an invalid date? | T |
| 3 | Is the chronological sequence of years of marriage dates correct? : i.e. marr date (1) <= marr date (2) <= marr date (3) etc. | T |
| 4 | Number of marriages reported = number of valid dates of marriage? | T |
| 5 | Frequency of missing months, (a) marriage dates (b) end of marriage dates, defined as the date of separation (where separated and/or divorced) or death. Where valid year, assign 6.5 to missing month. This incorporates a flag into the imputed month. In analysis, truncated months will be used. | T |
| 6 | Is the cause of end of marriage missing? <br> Edits: (1) where cause missing if valid date of (a) widowhood, (b) divorce or (c) separation exists, assign widowhood, divorce or separation as cause; <br> (2) where no valid date of end present, assign type of end from stated marital status if this = latest marriage and stated marital status = separated, divorced or widowed; otherwise (3) cause of end = not known (-8) | T |
| 7 | Is cause of end of marriage consistent with valid end dates? If cause = separation/divorce/widowhood, do valid dates of separation/separation and divorce/widowhood exist? | T |
| 8 | Where date of marriage (i+1) exists, does date of either divorce (i) or widowhood (i) exist? | T |
| 9 | ```For each marriage: date of marr (i) < date of sep (i) < date of div (i) < date marr (i+1) if exists OR date of marr (i) < date wid (i) < date marr (i+1) if exists``` | T |
| 10 | Dates of premarital cohabitation < date of interview | T |
| 11 | Frequency of invalid or incomplete dates or premarital cohabitation; missing/invalid month? Missing/invalid year? | T |
| 12 | For each marriage: date of start of premarital cohabitation (i) < date of marriage (i) | T |
|  | At end of edits 1-12 <br> (a) the quality of information for each marriage is classified in a set of flags: marq1-marqn and <br> (b) the quality of the entire history is summarised in a flag named marqual | T by survey year |

Key to Action column: $\mathrm{L}=$ list cases; $\mathrm{T}=$ tabulate frequency by type

## 2 GHS rounds 1979-1982: marriage history checks and edits

These findings relate to marriage histories for the years 1979-1982.
Note that in the tables that follow, persons who were not eligible for the Family Information section are coded -9.

## Check 1

This check evaluates whether event dates are more recent than the date of interview, given a valid year of marriage.

Table 79.1

| Marriage order | Number of marriage dates <br> more recent than <br> interview date | N (total cases) |
| :--- | :--- | :--- |
| $1^{\text {st }}$ marriage | 3 | 19145 |
| $2^{\text {nd }}$ marriage | 0 | 1557 |
| $3^{\text {rd }}$ marriage | 0 | 43 |
| $4^{\text {th }}$ marriage | 0 | 3 |

The three erroneous dates are where the year of marriage is the same as the year of interview, and the month of marriage is greater than the month of interview. For these cases, the month of marriage has been edited to be the same as the month of interview. The month of marriage is flagged as erroneous dates with 0.5 added to it.

## Check 2

This check examines the sequence of validity in marriage histories. There are 13 nonvalid marriage dates for women married twice, all 13 being due to missing years of marriage (the month is present, but we are unable to impute).

Table 79.2

| Marriage order | Missing valid <br> marriage date <br> 1 | Missing valid <br> marriage date <br> 2 | Missing valid <br> marriage date <br> 3 | Missing valid <br> marriage date <br> 4 |
| :--- | :--- | :--- | :--- | :--- |
| 1 | - | - | - | - |
| 2 | 13 | 0 | - | - |
| 3 | 0 | 0 | 0 | - |
| 4 | 0 | 0 | 0 | 0 |

## Check 3

This check evaluates whether the marriage start dates are in the correct temporal order. Error flags are defined as where the date of previous marriage (marriage i) occurs more recently than the marriage presented. There are no errors.

Table 79.3

| Marriage order | Error flags | Valid cases |
| :--- | :--- | :--- |
| 2 | 0 | 1557 |
| 3 | 0 | 43 |
| 4 | 0 | 3 |

## Check 4

This check evaluates whether the number of reported marriages is consistent with the number of marriage start dates. Table 79.4a identifies the number of valid marriages associated with each marriage order (to identify over-reporting), while Table 79.4b identifies the number of missing valid marriage dates at each order (to identify underreporting). There is no over-reporting of the number of marriages. There are 352 people who were married only once and do not have a valid first marriage date. 13 respondents were married twice but do not have a valid first marriage date and 22 respondents who were married twice but have no valid $2^{\text {nd }}$ marriage date. These missing dates are represented by -8 in the dataset and the marriage histories are coded as 3 in the marqual variable.

Table 79.4a

|  | Number of marriages (CPC variable nmar) |  |  | N <br> (Number <br> of valid <br> marriages) |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 1 | 2 | 3 | 4 |  |
| Number of valid 1 <br> st <br> marriage dates | 17579 | 1503 | 41 | 3 | 19125 |
| Number of valid 2 <br> nd <br> marriage dates | - | 1513 | 41 | 3 | 1557 |
| Number of valid 3 <br> marriage dates <br> mar | - | - | 40 | 3 | 43 |
| Number of valid 4 <br> th <br> marriage dates | - | - | - | 3 | 3 |
| N (Number of marriage <br> order nmar) | 17931 | 1516 | 41 | 3 |  |

Table 79.4b

|  | Number of marriages (CPC variable nmar) |  | N <br> (number <br> of valid <br> marriages) |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 1 | 2 | 3 | 4 |  |
| Number of missing $1^{\text {st }}$ <br> marriage dates | 352 | 13 | 0 | 0 | 19125 |
| Number of missing 2 <br> marriage dates | - | 22 | 0 | 0 | 1557 |
| Number of missing $3^{\text {rd }}$ <br> marriage dates | - | - | 1 | 0 | 43 |
| Number of missing $4^{\text {th }}$ <br> marriage dates | - | - | - | 0 | 3 |
| N (Number of marriage <br> order nmar) | 17931 | 1535 | 41 | 3 |  |

## Check 5

This check first examines the presence of months of marriage given the presence of a valid year of marriage. There are no errors as can be seen in Table 79.5a.

Table 79.5a

| Marriage order | Number of missing <br> marriage months | N (Number of cases) |
| :--- | :--- | :--- |
| 1 | 0 | 19145 |
| 2 | 0 | 1557 |
| 3 | 0 | 43 |
| 4 | 0 | 3 |

The second part of the check examines the extent to which the month of marriage may have been imputed as June. When compared to an assumption of equal distribution, the excess of June months is presented in table 79.5b. This indicates that there is only a slight excess of June marriage dates, which probably reflects the true distribution rather than imputation.

Table 79.5b

| Marriage | Excess June over uniform <br> $(\%$ points $)$ | N (total cases) |
| :--- | :--- | :--- |
| $1^{\text {st }}$ marriage | 2.36 | 19298 |
| $2^{\text {nd }}$ marriage | 0.91 | 1560 |
| $3^{\text {rd }}$ marriage | 3.29 | 43 |
| $4^{\text {th }}$ marriage | 0.00 | 3 |

We also examine the number of missing end months. These are presented in 79.5c. We find no errors for this check.

Table 79.5c

| Marriage order | Number of missing end <br> months | N (Number of cases) |
| :--- | :--- | :--- |
| 1 | 0 | 19145 |
| 2 | 0 | 1557 |
| 3 | 0 | 43 |
| 4 | 0 | 3 |

## Check 6

This check examines the presence of end causes for marriages given a higher order marriage date. There are no errors for this check

Table 79.6

| Marriage order | Number of missing <br> end causes | N (Number of <br> cases) |
| :--- | :--- | :--- |
| 2 | 0 | 1557 |
| 3 | 0 | 43 |
| 4 | 0 | 3 |

## Check 7

This check examines the consistency between the presence and type of end date and the type of end cause. There are no missing end dates for marriages that have been declared to have ended.
The only specific cause available with identifiable years is divorce (with independent dates), as there is a decree absolute available. Therefore, it is possible to identify excess dates of divorce, (i.e. a divorce date is presented for marriages ending in death). There are no errors for this check.

Table 79.7

| Terminal <br> marriage <br> order | Number of <br> excess <br> divorce dates | Number of marriage with a <br> decree absolute date <br> present (equals number <br> ending in divorce) |
| :--- | :--- | :--- |
| 1 | 0 | 2353 |
| 2 | 0 | 108 |
| 3 | 0 | 5 |

## Check 8.

This check ensures that given a valid start date for higher order marriage there is a valid end date for lower order marriages. There are 6 cases where there is a missing valid end date.

Table 79.8

| Marriage order | Missing end date <br> for marriage 1 | Missing end date <br> for marriage 2 | Missing end date <br> for marriage 3 |
| :--- | :--- | :--- | :--- |
| 2 | 6 | - | - |
| 3 | 0 | 0 | - |
| 4 | 0 | 0 | 0 |

Check 9.
This check ensures that the temporal ordering of the marriage history is correct. Note that erroneous dates of divorce are not counted as errors.

Table 79.9

| Marriage <br> order | Marriage <br> start <br> occurs <br> before end <br> of <br> previous <br> marriage | Marriage <br> occurs <br> before <br> divorce for <br> previous <br> marriage | End of this <br> marriage <br> occurs <br> before start <br> of this <br> marriage | Date of divorce <br> for this marriage <br> occurs before <br> end of marriage | N <br> (number <br> of cases) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | N/A | N/A | 0 | 4 |  |
| 2 | 0 | 4 | 1 | 0 | 19145 |
| 3 | 0 | 1 | 0 | 1 | 1557 |
| 4 | 0 | 0 | N/A | N/A | 43 |

## Checks 10-12

Note that dates of premarital cohabitation prior to all marriages was not collected over this period. Though we can recover the date of premarital cohabitation for the current marriage, these are derived from durations before the current marriage and therefore are by definition prior to the interview date and are non-negative and hence checks 10-12 are not carried out.

## Check 13

This check presents the overall distribution of marriage history quality. There are 392 cases where marriage histories are partially OK, the majority of these occurring in 1982.

Table 79.13a

|  | Marriage quality |  |  | Cumulative <br> Percent |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| Valid | Frequency | Percent | Valid Percent | 19.7 | 98.0 |
|  | All OK after editing | 19115 | 15.7 | 98.0 |  |
|  | At least one usable spell | 392 | .0 | .0 | 98.0 |
|  | Total | .3 | 2.0 | 100.0 |  |
| Missing | -9.00 | 19510 | 16.0 | 100.0 |  |
| Total |  | 121718 | 100.0 |  |  |

Table 79.13b

|  |  | All OK | All OK after <br> editing | At least one usable <br> spell |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| YEAR OF INTERVIEW | 79 | 4894 | 0 | 35 | 4929 |
|  | 80 | 4960 | 1 | 63 | 5024 |
|  | 81 | 5156 | 2 | 68 | 5226 |
|  | 82 | 4105 | 226 | 4331 |  |
| Total | 19115 | 392 | 19510 |  |  |

## 3 GHS rounds 1983-1987: Marriage history checks and edits

These are the results of the cleaning procedure agreed for the marital histories. These findings relate to histories extracted for the years 1983-87.

## Check 1

This check evaluates whether event dates are more recent than the date of interview, given a valid year of marriage.

Table 83.1

| Marriage order | Number of marriage dates <br> more recent than interview <br> date | N (total cases) |
| :--- | :--- | :--- |
| $1^{\text {st }}$ marriage | 2 | 32504 |
| $2^{\text {nd }}$ marriage | 0 | 3258 |
| $3^{\text {rd }}$ marriage | 1 | 154 |
| $4^{\text {th }}$ marriage | 0 | 5 |

The two erroneous dates on marriage 1 and the one erroneous date on marriage 3 are due to an error on the month. The year of marriage and interview are the same.
Edit: These marriages have been flagged as edited dates ( 0.5 added to the month) and the month set at the month of the interview.

## Check 2

This check examines the set of validity in marriage histories. There are no errors.
Table 83.2

| Marriage <br> order | Missing valid <br> marriage date <br> 1 | Missing valid <br> marriage date <br> 2 | Missing valid <br> marriage date <br> 3 | Missing <br> valid <br> marriage <br> date 4 | N |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2 | 0 | 0 | - | - | 3258 |
| 3 | 0 | 0 | 0 | - | 155 |
| 4 | 0 | 0 | 0 | 0 | 5 |

## Check 3

This check evaluates whether the marriage start dates are in the correct temporal order. Error flags are defined as where the date of previous marriage (marriage i) occurs more recently than the marriage presented. There are no errors for this check.

Table 83.3

| Marriage order | Error flags | Valid cases |
| :--- | :--- | :--- |
| 2 | 0 | 3258 |
| 3 | 0 | 155 |
| 4 | 0 | 5 |

## Check 4

This check ensures that the number of reported marriages is consistent with the number of marriage start dates. Table 83.4a identifies the number of valid marriages associated with each marriage order (to identify over reporting), while Table 83.4b identifies the number of missing valid marriage dates at each order (to identify underreporting). There are three cases where the entire marriage history appears to be missing.

Table 83.4a

|  | Number of marriages (CPC variable nmar) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | Total no. with valid date in slot of this order |
| Number of valid $1^{\text {st }}$ marriage dates | 29227 | 3122 | 147 | 8 | 32099 |
| Number of valid $2^{\text {nd }}$ order marriage dates | - | 3103 | 147 | 8 | 3218 |
| Number of valid $3^{\text {rd }}$ marriage dates | - | - | 147 | 8 | 150 |
| Number of valid $4^{\text {th }}$ marriage dates | - | - | - | 5 | 5 |
| Total declaring this no. of marriages | 28881 | 3122 | 147 | 8 |  |

Table 83.4b

|  | Number of marriages <br> (CPC variable nmar) |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 1 | 2 | 3 | 4 | N |
| Number of missing 1 <br> marriage dates | 273 | 0 | 0 | 0 | Total no. with <br> invalid date in <br> slot of this order |
| Number of missing <br> $2^{\text {nd }}$ marriage dates | - | 19 | 0 | 0 | 3 |
| Number of missing 3 <br> marriage dates | - | - | 0 | 0 | 3 |
| Number of missing 4 <br> th <br> marriage dates | - | - | - | 3 | 3 |
| Total declaring this <br> no. of marriages | 28881 | 3122 | 147 | 8 |  |

Check 5
This check first examines the presence of months of marriage given the presence of a usable marriage year. There are no errors for this check.

Table 83.5a

| Marriage order | Number of missing <br> marriage months | N (Number of cases) |
| :--- | :--- | :--- |
| 1 | 0 | 32504 |
| 2 | 0 | 3258 |
| 3 | 0 | 155 |
| 4 | 0 | 5 |

The second check examines the extent to which the month of marriage may have been imputed as the month of June. When compared to an assumption of equal distribution, the excess of June months is presented in table 83.5b. This indicates that there is only a slight excess of June marriage dates, which probably reflects true preference rather than imputation.

Table 83.5b

| Marriage | Excess June over uniform <br> (\% points) | N (total cases) |
| :--- | :--- | :--- |
| $1^{\text {st }}$ marriage | 2.5 | 32504 |
| $2^{\text {nd }}$ marriage | 2.1 | 3258 |
| $3^{\text {rd }}$ marriage | 1.3 | 155 |
| $4^{\text {th }}$ marriage | - | 5 |

We also examine the number of missing end months. There are no missing months.
Table 83.5c

| Marriage order | Number of missing <br> end causes | N (Number of <br> cases) |
| :--- | :--- | :--- |
| 1 | 0 | 6511 |
| 2 | 0 | 480 |
| 3 | 0 | 27 |

## Check 6

This check examines the presence of end causes for marriages given a higher order marriage date. There are no errors for this check.

Table 83.6

| Marriage order | Number of missing <br> end causes | N (Number of <br> cases) |
| :--- | :--- | :--- |
| 2 | 0 | 3218 |
| 3 | 0 | 150 |
| 4 | 0 | 5 |

## Check 7

This check examines the consistency between the presence and type of end date and the type of end cause. There are no missing end dates for marriages that have been declared to have ended.

The only specific cause available with identifiable years is divorce (with independent dates), as there is a decree absolute available. Therefore, it is possible to identify excess dates of divorce, (i.e. a divorce date is presented for marriages ending in death).

Table 83.7

| Terminal <br> marriage <br> order | Number of <br> excess <br> divorce dates | Number of marriage with a <br> decree absolute date <br> present (equals number <br> ending in divorce) |
| :--- | :--- | :--- |
| 1 | 0 | 4979 |
| 2 | 0 | 310 |
| 3 | 0 | 13 |

## Check 8.

This check ensures that given a valid start date for higher order marriage there is a valid end date for lower order marriages. There are no errors for this check.

Table 83.8

| Marriage order | Missing end <br> date for <br> marriage 1 | Missing end <br> date for <br> marriage 2 | Missing end <br> date for <br> marriage 3 | Ns |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 0 | - | - | 3258 |
| 3 | 0 | 0 | - | 155 |
| 4 | 0 | 0 | 0 | 5 |

Check 9.
This check ensures that the temporal ordering of the marriage history is correct. There is one erroneous case. Note that an erroneous divorce date is not counted as an error.

Table 83.9

| Marriage <br> order | Marriage <br> start <br> occurs <br> before end <br> of <br> previous <br> marriage | Marriage <br> occurs <br> before <br> divorce for <br> previous <br> marriage | End of this <br> marriage <br> occurs <br> before start <br> of this <br> marriage | Date of divorce <br> for this marriage <br> occurs before <br> end of marriage | N (number <br> of cases) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | NA | NA | 0 | 0 | 32504 |
| 2 | 1 | 14 | 0 | 0 | 3258 |
| 3 | 0 | 0 | 0 | 0 | 155 |
| 4 | 0 | 0 | NA | NA | 5 |

## Checks 10-12.

Note that dates of premarital cohabitation prior to all marriages was not collected over this period. Though we can recover the date of premarital cohabitation for the current marriage, these are derived from durations before the current marriage and therefore are by definition prior to the interview date and are non-negative and hence checks 10-12 are not presented.

Check 13
Table 83.10

|  | Marqual | Frequency | Percent | Valid Percent | Cumulative Percent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Valid | -9.00 | 114195 | 77.7 | 77.7 | 77.7 |
|  | All OK | 32479 | 22.1 | 22.1 | 99.8 |
|  | All OK after editing | 3 | . 0 | . 0 | 99.8 |
|  | At least one usable spell | 3 | . 0 | . 0 | 99.8 |
|  | Error (inconsistent number) | 292 | . 2 | . 2 | 100.0 |
|  | Total (persons) | 146972 | 100.0 | 100.0 |  |

Table 83.11

| Count | Marqual*intyear crosstabulation | Intyear |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1983 | 1984 | 1985 | $1986{ }^{7}$ | 1987 |  |
| marqual | -9.00 | 26070 | 23844 | 25088 | 19564 | 19629 | 114195 |
|  | All OK | 4134 | 4080 | 4120 | 9982 | 10163 | 32479 |
|  | All OK after editing | 3 | 0 | 0 | 0 | 0 | 3 |
|  | At least one usable spell | 0 | 0 | 0 | 1 | 2 | 3 |
|  | Error (inconsistent number) | 66 | 70 | 74 | 46 | 36 | 292 |
| Total |  | 30273 | 27994 | 29282 | 29593 | 29830 | 146972 |

[^6]
## 4 GHS rounds 1988-1996: marriage history checks and edits

These are the results of the cleaning procedure agreed for the marital histories. These findings relate to histories extracted for the years 1988-96.

## Check 1

This check evaluates whether event dates are more recent than the date of interview.

Table 88.1

| Marriage order | Number of marriage dates <br> more recent than <br> interview date | N (total cases) |
| :--- | :--- | :--- |
| $1^{\text {st }}$ marriage | 1 | 81187 |
| $2^{\text {nd }}$ marriage | 0 | 10258 |
| $3^{\text {rd }}$ marriage | 0 | 756 |
| $4^{\text {th }}$ marriage | 0 | 40 |
| $5^{\text {th }}$ marriage | 0 | 2 |
| $6^{\text {th }}$ marriage | 0 | 1 |
| $7^{\text {th }}$ marriage | 0 | 1 |

We identify one error in this check. The date of marriage in this case appears to occur 10 months following the date of interview.
Edit: The date of marriage is corrected to the date of interview, with a flag of $0.5^{\prime}$ on month.

Check 2
This check tabulates missing dates of marriage by marriage order. We identify 4 cases where there are errors, with missing first marriage dates.

Table 88.2

| Marriage <br> order | Missing <br> valid <br> marriage <br> date 1 | Missing <br> valid <br> marriage <br> date 2 | Missing <br> valid <br> marriage <br> date 3 | Missing <br> valid <br> marriage <br> date 4 | Missing <br> valid <br> marriage <br> date 5 | Missing <br> valid <br> marriage <br> date 6 | Cases |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 2 | 4 | - | - | - | - | - | 10258 |
| 3 | 0 | 0 | - | - | - | - | 756 |
| 4 | 0 | 0 | 0 | - | - | - | 40 |
| 5 | 0 | 0 | 0 | 0 | - | - | 2 |
| 6 | 0 | 0 | 0 | 0 | 0 | - | 1 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

## Check 3

This check evaluates whether the marriage start dates are in the correct temporal order. There are no errors.

Table 88.3

| Marriage order | Error flags | Valid cases |
| :--- | :--- | :--- |
| 2 | 0 | 10258 |
| 3 | 0 | 756 |
| 4 | 0 | 40 |
| 5 | 0 | 2 |
| 6 | 0 | 1 |
| 7 | 0 | 1 |

## Check4

This check evaluates the consistency between the number of reported marriages and the number of completed marital slots. Table 88.4a identifies the number of reported marriages compared with the marriage slots. This table is designed to identify overreporting (i.e. there are reported slots higher than the reported marriages). We identify no over-reporting from this table. Table 88.4b identifies the number of missing marriage slots given a reported marriage. We identify 3 missing $2^{\text {nd }}$ marriage dates and 4 missing first marriage dates for women married twice, and 55 missing marriage dates for women married once.

Table 88.4a

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total no. with valid date in slot of this order |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of valid $1^{\text {st }}$ marriage dates | 70930 | 9501 | 716 | 38 | 1 | - | 1 | 81187 |
| Number of valid $2^{\text {nd }}$ order marriage dates | - | 9502 | 716 | 38 | 1 | - | 1 | 10258 |
| Number of valid $3^{\text {rd }}$ marriage dates | - | - | 716 | 38 | 1 | - | 1 | 756 |
| Number of valid $4^{\text {th }}$ marriage dates | - | - | - | 38 | 1 | - | 1 | 40 |
| Number of valid $5^{\text {th }}$ marriage dates | - | - | - | - | 1 | - | 1 | 2 |
| Number of valid $6^{\text {th }}$ marriage dates | - | - | - | - | - | - | 1 | 1 |
| Number of valid $7^{\text {th }}$ marriage dates | - | - | - | - | - | - | 1 | 1 |
| Total declaring this no. of marriages | 70985 | 9505 | 716 | 38 | 1 | 0 | 1 |  |

Table 88.4b
$\left.\begin{array}{|l|l|l|l|l|l|l|l|l|}\hline & 1 & 2 & 3 & 4 & 5 & 6 & 7 & \begin{array}{l}\text { Total no. } \\ \text { with } \\ \text { valid } \\ \text { date in } \\ \text { slot of }\end{array} \\ \text { this } \\ \text { order }\end{array}\right]$.

Check 5
This check ensures the completeness of months of events, given the presence of a valid year of event. There is one missing month which is imputed.

Table 88.5.a

| Marriage order | Number of missing <br> marriage months | N (Number of cases) |
| :--- | :--- | :--- |
| 1 | 1 | 81187 |
| 2 | 0 | 10258 |
| 3 | 0 | 756 |
| 4 | 0 | 40 |
| 5 | 0 | 2 |
| 6 | 0 | 1 |
| 7 | 0 | 1 |

The frequency of missing values is also evaluated for terminal events (divorce, separation, death). We find 3 missing divorce months, imputed at 6.5 months.

Table 88.5b

| Terminal <br> marriage <br> order | Number of <br> missing (valid) <br> divorce months |  | Number of missing <br> (valid) separation <br> months |  | Number of <br> missing (valid) <br> death months |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 3 | 16451 | 0 | 18861 | 0 | 2097 |
| 2 | 0 | 1668 | 0 | 2095 | 0 | 230 |
| 3 | 0 | 119 | 0 | 170 | 0 | 11 |
| 4 | 0 | 6 | 0 | 12 | 0 | 2 |
| 5 | 0 | 1 | 0 | 2 | - | - |
| 6 | 0 | 1 | 0 | 1 | - | - |
| 7 | - | - | - | - | - | - |

## Check 6

This check evaluates the completeness of end causes for marriages with a valid terminal date. For example, where a date of divorce exists, a date of separation should also be recorded. We identify no errors in this check.

Table 88.6

| Marriage <br> order | Number of <br> missing divorce <br> causes <br> (terminated <br> divorces ) | Number of <br> missing <br> causes <br> (terminated <br> deaths ) | Number of <br> separation causes <br> (terminated separations ) |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 0 | 16471 | 0 | 2097 | 0 | 18861 |
| 2 | 0 | 1668 | 0 | 230 | 0 | 2095 |
| 3 | 0 | 119 | 0 | 11 | 0 | 170 |
| 4 | 0 | 6 | 0 | 2 | 0 | 12 |
| 5 | 0 | 1 | - | - | 0 | 2 |
| 6 | 0 | 1 | - | - | 0 | 1 |

## Check 7

This check ensures that the end dates reported are consistent with the end cause reported. We identify no excess end dates.

Table 88.7

| Marriage <br> order | Number of excess <br> dates for divorces <br> (i.e. death dates <br> present) | Number of <br> excess dates for <br> death <br> (i.e. sep. <br> and <br> dates) | Number of excess dates for <br> deparations (i.e. divorce and <br> death dates) |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 0 | 16451 | 0 | 2097 | 0 | 18861 |
| 2 | 0 | 1668 | 0 | 230 | 0 | 2095 |
| 3 | 0 | 119 | 0 | 11 | 0 | 170 |
| 4 | 0 | 6 | 0 | 2 | 0 | 12 |
| 5 | 0 | 1 | 0 | - | 0 | 2 |
| 6 | 0 | 1 | 0 | - | 0 | 1 |

Check 8.
This check ensures that if a higher order marriage date exists, a valid end date exists for preceding marriages. There are 9 missing end dates for marriage 1 in total and 1 missing end date for marriage 2 .

Table 88.8

| Marriage order | Missing end date for marriage 1 | Missing end date for marriage 2 | Missing end date for marriage 3 | Missing end date for marriage 4 | Missing end date for marriage 5 | Missing end date for marriage 6 | N (Number of cases) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 8 | - | - | - | - | - | 10258 |
| 3 | 1 | 1 | - | - | - | - | 756 |
| 4 | 0 | 0 | 0 | - | - | - | 40 |
| 5 | 0 | 0 | 0 | 0 | - | - | 2 |
| 6 | 0 | 0 | 0 | 0 | 0 | - | 1 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

## Check 9.

This check ensures that the temporal ordering of the marriage history is correct. There are 4 'errors' in divorce dates, but these are not flagged as errors because we use the date of separation as the end date of the marriage.

Table 88.9

| Marriage <br> order | Marriage <br> start <br> occurs <br> before end <br> of <br> previous <br> marriage | Marriage <br> occurs <br> before <br> divorce for <br> previous <br> marriage | End of this <br> marriage <br> occurs <br> before start <br> of this <br> marriage | Date of divorce <br> for this marriage <br> occurs before <br> end of marriage | N <br> (number <br> of cases) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | N/A | N/A | 0 | 0 |  |
| 2 | 0 | 4 | 0 | 0 | 81187 |
| 3 | 0 | 0 | 0 | 0 | 10258 |
| 4 | 0 | 0 | 0 | 0 | 756 |
| 5 | 0 | 0 | 0 | 0 | 40 |
| 6 | 0 | 0 | 0 | 0 | 2 |
| 7 | 0 | 0 | N/A | N/A | 1 |

## Check 11

This check ensures that the dates of premarital cohabitations are complete. We assess the completeness of month of cohabitation, year of cohabitation and month and year of cohabitation. The table is truncated at marriage 4 for brevity (no marriage above 6 has a premarital cohabitation).

Table 98.11

| Marriage order | Year missing <br> only | Month missing <br> only | Year and <br> month both <br> missing | N (Number of <br> reported <br> premarital <br> cohabitations) |
| :--- | :--- | :--- | :--- | :--- |
| 1 | 12 | 190 | 28 | 15982 |
| 2 | 4 | 173 | 27 | 6660 |
| 3 | 1 | 18 | 2 | 30 |
| 4 | 0 | 0 | 1 | 24 |

Check 12
This check ensures that the dates of premarital cohabitation proceed the date of marriage. We identify on case where the premarital cohabitation starts after marriage, and this is corrected by imputation.

Table 88.12

| Marriage order | Number of premarital <br> cohabitations with start <br> following marriage | N (Number of reported <br> premarital cohabitations) |
| :--- | :--- | :--- |
| 1 | 0 | 15982 |
| 2 | 1 | 6660 |
| 3 | 0 | 30 |
| 4 | 0 | 24 |

## Check 13

This check summarises the overall quality of the marital histories. There are 58 histories for this period which are totally unusable, and 264 spells where there is at least one spell where there is an error on at least one spell.

Table 88.13a

|  |  | Frequency | Percent |
| :--- | :--- | ---: | ---: |
| Valid | -9 | 135330 | 62.4 |
|  | All OK | 81180 | 37.4 |
|  | All OK after editing | 3 | .0 |
|  | At least one usable spell | 264 | .1 |
|  | Error | 55 | .0 |
|  | Error (inconsistent <br> number) | 3 | .0 |
|  | Total | 216835 | 100.0 |

Table 88.13b

|  |  | -9 | All OK | All OK after editing | At least one usable spell | Error | Error (inconsisten t number) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Survey year | 1988 | 15603 | 9637 | 0 | 52 | 55 | 3 | 25350 |
|  | 1989 | 15501 | 9724 | 0 | 44 | 0 | 0 | 25269 |
|  | 1990 | 14665 | 8971 | 0 | 27 | 0 | 0 | 23663 |
|  | 1991 | 15158 | 9471 | 0 | 28 | 0 | 0 | 24657 |
|  | 1992 | 15171 | 9335 | 0 | 29 | 0 | 0 | 24535 |
|  | 1993 | 15157 | 8905 | 0 | 17 | 0 | 0 | 24079 |
|  | 1994 | 14993 | 8592 | 3 | 34 | 0 | 0 | 23622 |
|  | 1995 | 14784 | 8579 | 0 | 22 | 0 | 0 | 23385 |
|  | 1996 | 14298 | 7966 | 0 | 11 | 0 | 0 | 22275 |
| Total |  | 135330 | 81180 | 3 | 264 | 55 | 3 | 21683 |

## 5 GHS 1998: marriage history checks and edits

These are the results of the cleaning procedure agreed for the marital histories. These findings relate to histories extracted for the years 1998.

## Check 1

This check ensures that none of the reported marriages occur after the date of interview. In this survey year there were 6 missing interview dates. For the purposes of this check these cases have been ignored.

Table 98.1

| Marriage order | Error flags | N (number of valid cases) |
| :--- | :--- | :--- |
| 1 | 1 | 7201 |
| 2 | 0 | 1101 |
| 3 | 0 | 94 |
| 4 | 0 | 8 |
| 5 | 0 | 3 |

There is one marriage event identified where the interview occurred before the marriage. In this case the interview took place in January and the marriage reportedly of June 1998.
Edit: The marriage month is reassigned to the month of interview with 0.5 added to the year and month of marriage.

## Check 2

This check examines the completeness of the marriage history, and the presence of preceding valid marriage dates given the existence of a valid marriage date. We identify 10 missing $1^{\text {st }}$ marriage dates, a total of 3 missing $2^{\text {nd }}$ marriage states and 1 missing $3^{\text {rd }}$ marriage date.

Table 98.2

| Marriage <br> order | Missing <br> marriage <br> date 1 | Missing <br> marriage <br> date 2 | Missing <br> marriage <br> date 3 | Missing <br> marriage <br> date 4 | N |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2 | 10 | - | - | - | 1101 |
| 3 | 0 | 2 | - | - | 94 |
| 4 | 0 | 1 | 1 | - | 8 |
| 5 | 0 | 0 | 0 | 0 | 3 |

## Check 3

This check ensures that for a given marriage the preceding marriages started at an earlier date. Error flags represent that the previous marriage start date occurs after the current marriage start date. There are no errors.

Table 98.3

| Marriage order | Number of error flags | N (number of valid cases) |
| :--- | :--- | :--- |
| 2 | 0 | 1101 |
| 3 | 0 | 94 |
| 4 | 0 | 8 |
| 5 | 0 | 3 |

## Check 4

This check ensures that the number of valid marriages dates and the number of reported marriages is consistent. Table 98.4a reports the number of valid marriage dates reported, to identify over-reporting. Table 98.4b identifies the number of missing marriage dates (underreporting). We identify some underreporting (17 histories), and no over-reporting.

Table 98.4a

| Number of <br> reported <br> marriages | Number of <br> valid 1 <br> marriage date <br> marr | Number of <br> valid 2nd <br> marriage <br> date | Number of <br> valid 3rd <br> marriage <br> date | Number of <br> valid 4th <br> marriage <br> date | Number of <br> valid 5th <br> marriage <br> date |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 5771 | - | - | - | - |
| 2 | 953 | 962 | - | - | - |
| 3 | 80 | 78 | 80 | - | - |
| 4 | 4 | 3 | 3 | 4 | - |
| 5 | 3 | 3 | 3 | 3 | 3 |
| Missing | 390 | 55 | 8 | 1 | 0 |

Table 98.4b

| Number of <br> reported <br> marriages | Number of <br> missing 1 <br> marriage date | Number of <br> missing 2nd <br> marriage <br> date | Number of <br> missing 3 $3^{\text {rd }}$ <br> marriage <br> date | Number of <br> missing 4th <br> marriage <br> date | Number of <br> missing 5th <br> marriage <br> date |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 2 | - | - | - | - |
| 2 | 10 | 1 | - | - | - |
| 3 | 0 | 2 | 0 | - | - |
| 4 | 0 | 1 | 1 | 0 | - |
| 5 | 0 | 0 | 0 | 0 | 0 |
| Missing | 0 | 0 | 0 | 0 | 0 |

## Check 5

This check examines the completeness of marriage months given a usable marriage year. There are 34 missing months which are imputed at the values of 6.5.

Table 98.5a

| Marriage order | Number of missing <br> marriage months | $N$ (number of valid <br> marriage years) |
| :--- | :--- | :--- |
| 1 | 29 | 7201 |
| 2 | 5 | 1101 |
| 3 | 0 | 94 |
| 4 | 0 | 8 |
| 5 | 0 | 3 |

Table 98.5b examines the extent to which the month of marriage may have been influenced by imputation at the month of June. There is no significant preference for the month of June (6) except in the case of marriage orders over 3 where the preference probably reflects the relatively small numbers of cases with over 3 marriages.

Table 98.5b

| Marriage order | Excess June over uniform <br> (\% points) | N (Number of cases) |
| :--- | :--- | :--- |
| 1 | $3.61 \%$ | 7174 |
| 2 | $3.24 \%$ | 1097 |
| 3 | $8.69 \%$ | 94 |
| 4 | $16.67 \%$ | 8 |
| 5 | N/A (no observations) | 3 |

Missingness is also evaluated for the end causes of marriages, in table 98.5c. Note that there are no end causes for marriage 5 available.

Table 98.5c

| Marriage <br> order | Number of missing <br> divorce months (total <br> N) |  | Number of missing <br> separation months <br> (total N) |  | Number of missing <br> death months (total <br> N) |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 131 | $(1823)$ | 78 | $(2057)$ | 0 | $(172)$ |
| 2 | 15 | $(203)$ | 12 | $(252)$ | 0 | $(29)$ |
| 3 | 2 | $(21)$ | 1 | $(26)$ | 0 | $(3)$ |
| 4 | 0 | $(3)$ | 0 | $(3)$ | 0 | $(1)$ |

Missing separation months are imputed at 6.5.

## Check 6

This check ensures that the end cause of dissolved marriages is complete. We cannot impute these ends, since the dates for terminal event are not recorded in the dataset.

Table 98.6

| Marriage order | Number of missing causes | N (number of dissolved <br> marriages) |
| :--- | :--- | :--- |
| 1 | 3 | 2349 |
| 2 | 1 | 306 |
| 3 | 0 | 31 |
| 4 | 0 | 4 |

## Check 7

This check ensures that the dates presented for the end of marriage are consistent with the stated end causes. There are no errors.

Table 98.7

| Marriage order | Number of <br> marriages <br> ending in <br> divorce with <br> excess end <br> dates | Number of <br> marriages <br> ending in <br> separation <br> with excess <br> end dates | Number of <br> marriages <br> ending in <br> death with <br> excess end <br> dates | N (number of <br> dissolved <br> marriages) |
| :--- | :--- | :--- | :--- | :--- |
| 1 | 0 | 0 | 0 | 2346 |
| 2 | 0 | 0 | 0 | 305 |
| 3 | 0 | 0 | 0 | 31 |
| 4 | 0 | 0 | 0 | 4 |

## Check 8

This check ensures that where a valid higher order marriage date is present, lower marriage orders have a valid end date and cause. The majority of these are associated with marriage 2 , with considerably smaller numbers for higher order marriages.

Table 98.8

| Marriage order | Number of missing <br> previous end dates | N (number of dissolved <br> marriages) |
| :--- | :--- | :--- |
| 2 | 38 | 1101 |
| 3 | 4 | 94 |
| 4 | 1 | 8 |
| 5 | 0 | 3 |

## Check 9

This check examines the sequences of the entire marriage history. Error flags are presented for each marriage order. Since errors on date of divorce do not contribute to error flags, we identify two error flags. The first is in the second marriage where one marriage end date is earlier than the end and the second error results from the date of start of marriage 3 preceding the date of end of marriage 2 . These are flagged as errors in marqual.

Table 98.9

| Marriage <br> order | Marriage <br> start <br> occurs <br> before end <br> of <br> previous <br> marriage | Marriage <br> occurs <br> before <br> divorce for <br> previous <br> marriage | End of this <br> marriage <br> occurs <br> before start <br> of this <br> marriage | Date of divorce <br> for this marriage <br> occurs before <br> end of marriage | N <br> (number <br> of cases) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | N/A | N/A | 0 | 19 | 7201 |
| 2 | 0 | 9 | 1 | 9 | 1101 |
| 3 | 1 | 1 | 0 | 1 | 94 |
| 4 | 0 | 0 | 0 | 0 | 8 |
| 5 | 0 | 0 | N/A | N/A | 3 |

Check 10
This check ensures that the dates of premarital cohabitations do not occur after the date of interview. There are no errors.

Table 98.10

| Marriage order | Number of premarital <br> cohabitations after <br> interview date | N (number of valid <br> premarital cohabitation <br> dates) |
| :--- | :--- | :--- |
| 1 | 0 | 2185 |
| 2 | 0 | 803 |
| 3 | 0 | 72 |
| 4 | 0 | 8 |
| 5 | 0 | 2 |

Check 11
This check ensures that the dates of premarital cohabitations are complete. We assess the completeness of month of cohabitation, year of cohabitation and month and year of cohabitation. This missingness is conditional on reported premarital cohabitation.

Table 98.11

| Marriage order | Year missing <br> only | Month missing <br> only | Year and <br> month both <br> missing | N (Number of <br> reported <br> premarital <br> cohabitations) |
| :--- | :--- | :--- | :--- | :--- |
| 1 | 0 | 37 | 11 | 2196 |
| 2 | 21 | 1 | 6 | 810 |
| 3 | 0 | 0 | 1 | 73 |
| 4 | 0 | 0 | 0 | 8 |
| 5 | 0 | 0 | 0 | 2 |

## Check 12

This check ensures that the dates of premarital cohabitation proceed the date of marriage. There are two cases where this occurs, as evident form table 98.12. This is solved by imputing at 6.5 , or at a random months (with an imputation flag) between January and marriage should the marriage occur before June.

Table 98.12

| Marriage order | Number of premarital <br> cohabitations with start <br> following marriage | N (Number of reported <br> premarital cohabitations) |
| :--- | :--- | :--- |
| 1 | 0 | 2196 |
| 2 | 2 | 810 |
| 3 | 0 | 73 |
| 4 | 0 | 8 |
| 5 | 0 | 2 |

Check 13
The distribution of respondents according to the quality of their overall marriage history is shown in Table 98.13.

Table 98.13

|  | Marqual |  |
| :--- | ---: | ---: |
|  | Frequency | Percentage |
| -9. | 13179 | 64.6 |
| All OK | 7063 | 34.6 |
| All OK after editing | 101 | .5 |
| At least one usable spell | 48 | .2 |
| Error (all invalid) | 4 | .0 |
| Out of order | 1 | .0 |
| Total | 20396 | 100.0 |

## ANNEX C QUALITY CHECKS AND EDITS CARRIED OUT ON

 PARTNERSHIP HISTORIES FROM 2000-2007 ${ }^{8}$The type of information collected on current and retrospective partnerships has developed over the life time of the GHS, reflecting the increasing complexity of individuals' life course trajectories. This is shown in outline in the Table 1 below.

In summary the following information was collected:
1979-1980 information on current and previous marriages
1981-1988 duration of premarital cohabitation before the current marriage was added

1989-1998 premarital cohabitation prior to all previous marriages as well as the current one added

2000-2007 information on up to three periods of cohabitation that did not end in marriage added

The cleaning of the marriage and partnership histories was carried out separately for the years 1979-1998 and 2000-2007. The checks and edits are therefore described in two documents, one for each of these periods.

This is the second of these two documents and describes the checks and edits carried out on the marriage and partnership histories for GHS rounds 2000-2007.

[^7]Table 1: Summary of type of marriage and partnership information collected within the GHS from 1979 to $200 \mathbf{7}^{1}$
X represents information collected.

|  | Survey year (note no survey was conducted in 1997/98 or in 1999/00) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type of information | 1979 | 1981 | 1983 | 1985 | 1987 | 1989 | 1991 | 1993 | 1995 | 1998 | 2000 | 2001 | 2003 | 2005 | 2007 |
| Current and previous marriage dates | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Duration of current cohabitation | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Whether the respondent cohabited prior to their current marriage | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Length of premarital cohabitation before current marriage |  | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Length of premarital cohabitation prior to current and previous marriages |  |  |  |  |  | X | x | x | X | X | x | x | X | X | x |
| Start and end dates for closed periods of cohabitation which did not lead to marriage |  |  |  |  |  |  |  |  |  |  | X | X | X | X | X |

${ }^{1}$ Men were asked this information only from 1986

# Summary of key findings of cleaning of partnership and marriage histories, GHS 2000-2007. 

## 1. Areas where the data quality are very good

### 1.1 Start and end dates of marriages

The reporting of start dates (year and month) of marriages, and their ordering relative to other marriages is very good. The main error is in 2004 where there are 116 cases with year of premarital cohabitation present but marriage year missing.
1.2 The reporting of marriage end dates is very good, at least in terms of year, although there are some missing months.

## 2. Areas where the data quality are reasonable

### 2.1 Number of partnerships ${ }^{9}$ \& marriages

- There are a sizeable number of respondents whose reported total number of partnership declared does not tally with the number of available start dates (Table PH4). However, this problem is proportionately small, especially for marriages ( $1.8 \%$ of respondents report more marriages than provide marriage start dates, whilst $7.4 \%$ of respondents report more cohabitations than valid dates of start of cohabitations).
- In 2000-01 a few hundred respondents in each survey reported marriage dates without reporting the marriage, whilst in the later surveys there was a tendency for the opposite - for respondents to report marriages without reporting valid dates.
- It must be noted however that some of the mis-match between the number of reported cohabitations and the number of dates is due to respondents only being asked to provide details of their first 3 free-standing cohabitations. For instance in 2000, 117 respondents declared a greater number of cohabitations than valid dates. In 45 cases the respondents were limited in the number of valid dates they could report by the number of slots available.
- To clarify two variables were created for number of partnerships/marriages: the number of marriages/partnerships that are declared by the respondent, and the number of usable marriage/partnership slots.


### 2.2. Ordering

The ordering of free-standing cohabitations was less good than the ordering of marriages (PH14). Out of sequence cohabitations have been re-ordered.

### 2.3 Overlapping unions

Between 3\% (lower order unions) and 18\% (small number of higher order unions) of partnerships, almost all of which are free standing cohabitations) are overlapping, i.e. the first one is reported to have ended after the second one has begun. This seems to us a reasonable level of error given the subject matter and structure of the questionnaire.

[^8]
## 3. Areas where the data quality are less good <br> 3.1 Missing months

There is a sizeable number of missing months in the dataset. This is particularly the case for marriage separation dates (especially higher order marriages) and cohabitation start and end dates (Table PH5). These have been imputed as detailed later in this document.

### 3.2 No information on number of partnerships

Since 2000, there is an apparent increase in the extent of missing declarations of numbers of marriages and partnerships (npar or nmar). The same period also displays a rise in missing values in relation to the fertility histories: that is numbers coded NA on variables in the fertility history among people who neither refuse the Family Information section nor are proxies. For example, in 2007, 899 respondents have missing data ( $8.3 \%$ of the sample): that is, $8.3 \%$ of respondents who were eligible for the Family Information section are coded missing ( -8, NA) on all the key partnership history variables. ${ }^{10}$

## 4. Overall quality

After completion of the editing and re-ordering of the partnership histories is complete, quality indicators were generated for each marriage (marq1-marq7) and each partnership (partq1-partq7) of all respondents.

The overall quality is very good. For example, just 1000 of approximately 57,000 first marriages reported are not coded "ok" or "ok after editing" (and just 187 out of 8806 second marriages). Only about 1100 of around 70,000 reported first partnerships are not coded "ok" or "ok after editing"; the figure is 258 of 18,788 reported second partnerships.

Overall the quality of the reported histories is good. After completion of the edits and re-ordering of the partnership histories, an indicator representing the quality of the marriage history as a whole was generated (marqual) and an indicator of quality of the partnership history as a whole (partqual). Approximately 56,000 marriage histories are "ok" out of around 58,000 histories reported (Table MH21q). About 66,600 partnership histories are "ok" out of a total of around 70,000 reported partnership histories (Table PH21q).

[^9]
## Cleaning of the partnership and marriage histories for 2000-2007

These are the results of the cleaning procedure agreed for the partnership and marital histories for the GHS years 2000-2007. Cleaning and edits to the marriage and partnership histories for GHS rounds 1979-1998 are described in the preceding Annex.

## Definitions

Valid date defined as: year present and <= year of interview and >= date of birth of the respondent
Key to Action column:
$\mathrm{L}=$ list cases; $\mathrm{T}=$ tabulate number by type
Event:

- for marriage = premarital cohabitation, marriage, stop living together/death of the partner, divorce.
- for cohabitation = beginning of the cohabitation, end of the cohabitation (stop living together and/or end of the relationship)
Checks 1-8 are carried out on all partnerships. In some cases the checks are shown separately for marriages (which may have been preceded by cohabitation) and freestanding cohabitations.
Checks 11 to 19 are carried out in two series: first for all partnerships including those that involve a marriage (i.e. group 3 on page 15), and second only for partnerships that include a marriage (i.e. group 2 on page 14). The corresponding tables are labelled PH and MH respectively.
Through the document, "." and "missing" will be used interchangeably to identify missing values. Mostly we do not distinguish DNA and NA.

| No. | Checks before re-ordering and corrections | Action |
| :---: | :---: | :---: |
| 1 | year of events < year of interview age at events > age 10 | T |
| 2 | Is there a valid sequence of marriage/cohabitation years or not: i.e. $1^{\text {st }}=$ valid, $2^{\text {nd }}=$ valid, $3^{\text {rd }}=$ valid; Otherwise, what is the problem: years not all valid, series out of sequence? <br> Chronological sequence of years of marriage dates correct? : i.e. marr date (1) <= marr date (2) <= marr date (3) etc. <br> If not classify as follows: (1) in chronological sequence; (2) out of sequence. | T |
| 3 | Where date of marriage ( $\mathrm{i}+1$ ) exists, does date of either divorce (i) or widowhood (i) exist? In that case, do we always have year end (i)<year beg (i+1) | T by year |
| 4 | Number of marriages/cohabitations reported =number of valid years of marriage/start cohabitation? | T by year |
| 5 | Number of missing months, for each type of event. Where valid year, assign 6.5 to missing month. This therefore constitutes a flag into the imputed month. In analysis, truncated months will be used. Cases with imputed months are checked for consistency re other dates and where problems occur e.g. zero durations of a partnership, further appropriate imputation is done. | T for each event and for each order of relationship |


| No. | Checks before re-ordering and corrections | Action |
| :--- | :--- | :--- |
| 6 | For each marriage: year of premar cohab (i) if exists < year of <br> marr (i) < year of sep (i) < year of div (i) if exists OR year of <br> marr (i) < year widow (i) if exists <br> For each cohabitation: year of cohab (i) < year of sep (i) | T by year and <br> order |
| 7 | Are the declarations of event consistent with valid end years? <br> For instance, if cause = separation/divorce/widowhood, do valid <br> dates of separation/separation and divorce/widowhood exist? <br> Conversely, is the cause reported missing? | T by order |
| 8 | same by year | T by year |


| No. | Checks after re-ordering and corrections | Action |
| :--- | :--- | :--- |
| 11 | Comparison number of partnership declared and number of dates <br> declared | T by year |
| 12 | Distribution of the types of beginning/end by year | T by year and <br> order |
| 13 | Is there a valid date of beginning/end when a partnership is <br> supposed to begin/end? | T by year and <br> order |
| 14 | Check the ordering of beginnings, ends, marriages. Comparison <br> before and after re-ordering | T by year |
| 15 | Valid dates of beginning/end? If not, other valid dates? | T by year and <br> order |
| 16 | For each marriage: year of premarr (i) if exists < year of marr (i) <br> < year of sep (i) < year of div (i) if exists OR year of marr (i) < <br> year widow (i) if exists <br> For each cohabitation: year of cohab (i) < year of sep (i) | T by year and <br> order |
| 17 | Where date of marriage (i+1) exists, does date of beginning/end <br> or divorce(i) exist? In that case, do we always have year event <br> (i)<year beg (i+1) | T by year |
| 18 | Number of overlapping marriages/partnerships: once the <br> marriages/partnerships are ordered by date at beginning, do <br> some relationships overlap with the beginning of the next one? | T by year and <br> order |
| 19 | Do some relationships have the same date of beginning, or end, <br> or both? | T by year and <br> order |


| No. | Quality and edit flags | Action |
| :--- | :--- | :--- |
| 21 | After the edits, classify each individual (see user guide): <br> - Indicator of quality specific to each marriage <br> marq1-marq7 <br> - Indicator of quality specific to each cohabitation <br> partq1-partq7 | Tabulate by <br> year |
| 22 | After the edits, classify each individual (see user guide): <br> - Global indicator of quality of the marriage history <br> marqual <br> - Global indicator of quality of the relationship history <br> partqual | Tabulate by <br> year |

## Detail of the checks

## Check 1

This check evaluates whether

- event dates occur earlier than the date of interview
- events occur after age 10
- events occur after the birth of the eligible person

Notes:

- the absence, in some of these tables, of a column that appears in others denotes that no cases of the kind in question occur in that table.
- for selected years, a question was asked not only about the end of cohabitation but also about whether the end of cohabitation was the end of the relationship or just the end of the couple's living together; the date of whichever of these was not originally given was then asked. For that reason, three types of end of cohabitation are tabulated: the overall end of cohabitation, the end of the relationship, and the end of living together.

Tables PH1

| year premarital cohabitation |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no problem | before age 10 | Total |
| 2000 | 10233 | 0 | 10233 |
| 2001 | 11338 | 0 | 11338 |
| 2002 | 10934 | 0 | 10934 |
| 2003 | 12792 | 0 | 12792 |
| 2004 | 11057 | 0 | 11057 |
| 2005 | 12975 | 0 | 12975 |
| 2006 | 11708 | 1 | 11709 |
| 2007 | 10836 | 0 | 10836 |
| Total | 91873 | 1 | 91874 |


| year marriage |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| year | no problem | before birth | before age 10 | after interview | Total |
| 2000 | 10232 | 0 | 1 | 0 | 10233 |
| 2001 | 11338 | 0 | 0 | 0 | 11338 |
| 2002 | 10932 | 0 | 0 | 2 | 10934 |
| 2003 | 12792 | 0 | 0 | 0 | 12792 |
| 2004 | 11057 | 0 | 0 | 0 | 11057 |
| 2005 | 12974 | 0 | 1 | 0 | 12975 |
| 2006 | 11703 | 1 | 5 | 0 | 11709 |
| 2007 | 10832 | 2 | 2 | 0 | 10836 |
| Total | 91860 | 3 | 9 | 2 | 91874 |


| year death husb/wife |  |  |
| :---: | :---: | :---: |
| year | no problem | Total |
| 2000 | 10233 | 10233 |
| 2001 | 11338 | 11338 |
| 2002 | 10934 | 10934 |
| 2003 | 12792 | 12792 |
| 2004 | 11057 | 11057 |
| 2005 | 12975 | 12975 |
| 2006 | 11709 | 11709 |
| 2007 | 10836 | 10836 |
| Total | 91874 | 91874 |


| year separation of marriage |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no problem | before birth | Total |
| 2000 | 10233 | 0 | 10233 |
| 2001 | 11338 | 0 | 11338 |
| 2002 | 10934 | 0 | 10934 |
| 2003 | 12792 | 0 | 12792 |
| 2004 | 11057 | 0 | 11057 |
| 2005 | 12975 | 0 | 12975 |
| 2006 | 11708 | 1 | 11709 |
| 2007 | 10836 | 0 | 10836 |
| Total | 91873 | 1 | 91874 |


| year divorce |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no problem | after interview | Total |
| 2000 | 10233 | 0 | 10233 |
| 2001 | 11338 | 0 | 11338 |
| 2002 | 10934 | 0 | 10934 |
| 2003 | 12791 | 1 | 12792 |
| 2004 | 11057 | 0 | 11057 |
| 2005 | 12975 | 0 | 12975 |
| 2006 | 11709 | 0 | 11709 |
| 2007 | 10836 | 0 | 10836 |
| Total | 91873 | 1 | 91874 |


| year beginning cohabitation |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| year | no problem | before birth | before age 10 | after interview | Total |
| 2000 | 10232 | 0 | 1 | 0 | 10233 |
| 2001 | 11337 | 0 | 0 | 1 | 11338 |
| 2002 | 10934 | 0 | 0 | 0 | 10934 |
| 2003 | 12790 | 0 | 2 | 0 | 12792 |
| 2004 | 11056 | 0 | 1 | 0 | 11057 |
| 2005 | 12974 | 0 | 1 | 0 | 12975 |
| 2006 | 11703 | 1 | 5 | 0 | 11709 |
| 2007 | 10835 | 0 | 1 | 0 | 10836 |
| Total | 91861 | 1 | 11 | 1 | 91874 |


| year end cohabitation |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| year | no problem | before birth | before age 10 | after interview | Total |
| 2000 | 10231 | 0 | 1 | 1 | 10233 |
| 2001 | 11335 | 0 | 0 | 3 | 11338 |
| 2002 | 10934 | 0 | 0 | 0 | 10934 |
| 2003 | 12785 | 0 | 0 | 7 | 12792 |
| 2004 | 11053 | 0 | 0 | 4 | 11057 |
| 2005 | 12975 | 0 | 0 | 0 | 12975 |
| 2006 | 11705 | 1 | 3 | 0 | 11709 |
| 2007 | 10836 | 0 | 0 | 0 | 10836 |
| Total | 91854 | 1 | 4 | 15 | 91874 |


| year end living together |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no problem | after interview | Total |
| 2000 | 10233 | 0 | 10233 |
| 2001 | 11338 | 0 | 11338 |
| 2002 | 10934 | 0 | 10934 |
| 2003 | 12792 | 0 | 12792 |
| 2004 | 11056 | 1 | 11057 |
| 2005 | 12975 | 0 | 12975 |
| 2006 | 11709 | 0 | 11709 |
| 2007 | 10836 | 0 | 10836 |
| Total | 91873 | 1 | 91874 |


| year end relationship |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| year | no problem | before age 10 | after interview | Total |
| 2000 | 10233 | 0 | 0 | 10233 |
| 2001 | 11337 | 0 | 1 | 11338 |
| 2002 | 10934 | 0 | 0 | 10934 |
| 2003 | 12792 | 0 | 0 | 12792 |
| 2004 | 11054 | 0 | 3 | 11057 |
| 2005 | 12972 | 0 | 3 | 12975 |
| 2006 | 11708 | 1 | 0 | 11709 |
| 2007 | 10836 | 0 | 0 | 10836 |
| Total | 91866 | 1 | 7 | 91874 |

A few small edits have been applied manually to these deficient dates. The tables above do not reflect these minor edits.

## Check 2

This check evaluates whether the marriage and cohabitation (without marriage) start dates are in the correct temporal order (column "ordered no problem"), only when there is no missing in the middle of the series of start dates (column "missings in the middle"). Respondents with only one marriage or cohabitation are included in the tables.

We define error flags in this check as where the start date of previous marriage/cohabitation (start marriage/cohabitation i) occurs at a later date than the marriage / cohabitation that follows it (start marriage/cohabitation $\mathrm{i}+1$ ).

Tables PH2

| beginning of marriages |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ordered no <br> problem | missings in the <br> middle | out of sequence <br> if no missing | Total |
| year | 000 | 3459 | 6757 | 16 | 1 |


| beginning of cohabitations |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ordered no <br> problem |  |  |  |  | missings in the <br> middle |
| 2000 | 8943 | 1269 | 13 | out of sequence <br> if no missing | Total |
| 2001 | 9996 | 1321 | 12 | 8 | 10233 |
| 2002 | 9467 | 1448 | 13 | 9 | 11338 |
| 2003 | 10913 | 1827 | 33 | 6 | 10934 |
| 2004 | 9518 | 1513 | 10 | 19 | 12792 |
| 2005 | 11069 | 1880 | 9 | 16 | 11057 |
| 2006 | 10149 | 1515 | 11 | 17 | 12975 |
| 2007 | 9493 | 1308 | 7 | 34 | 11709 |
| Total | 79548 | 12081 | 108 | 28 | 10836 |

The edit following this check is to reorder when the series is out of sequence and this is done later in the process. There is no action when there are missing values in the middle.

## Check 3

This check evaluates whether the next marriage begins after the end date of the previous one, and does the same for free-standing cohabitations. This check is done before re-ordering the out of order sequences that are identified in check 2. Additionally, it includes overlapping slots, parts of which are edited manually afterwards.

Tables PH3

| end/beg marriages |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ordered no <br> problem | end after <br> missings in the <br> middle | beginning of next |  |
| 2000 | 3459 | 6747 | 19 | 8 | rel |
| 2001 | 3973 | 7328 | 29 | 8 | 10233 |
| 2002 | 3999 | 6892 | 43 | 0 | 11338 |
| 2003 | 4759 | 8012 | 21 | 0 | 10934 |
| 2004 | 4381 | 6655 | 18 | 3 | 12792 |
| 2005 | 4900 | 8046 | 28 | 1 | 11057 |
| 2006 | 4675 | 7001 | 29 | 4 | 12975 |
| 2007 | 4672 | 6132 | 29 | 3 | 11709 |
| Total | 34818 | 56813 | 216 | 27 | 91874 |


| end/beg cohabitations |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ordered no <br> problem |  |  |  |  |  |
| year | missings in the | end after <br> beginning of next |  |  |  |
| 2000 | 8943 | 1252 | 12 | rel | Total |
| 2001 | 9996 | 1303 | 11 | 26 | 10233 |
| 2002 | 9467 | 1431 | 13 | 28 | 11338 |
| 2003 | 10913 | 1809 | 20 | 23 | 10934 |
| 2004 | 9518 | 1497 | 8 | 50 | 12792 |
| 2005 | 11069 | 1850 | 7 | 34 | 11057 |
| 2006 | 10149 | 1493 | 8 | 49 | 12975 |
| 2007 | 9493 | 1279 | 7 | 59 | 11709 |
| Total | 79548 | 11914 | 86 | 57 | 10836 |

## Check 4

This check examines the consistency between the number of reported marriages/cohabitations and the number of valid beginning dates.

Tables PH4

| number of marriages declared vs number valid years of marriage |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| year | . | no problem | not enough valid marriage years | not enough marriages declared | missing no. marriage but valid years | Total |
| 2000 | 3448 | 6380 | 31 | 0 | 374 | 10233 |
| 2001 | 3964 | 6961 | 41 | 0 | 372 | 11338 |
| 2002 | 3982 | 6820 | 48 | 0 | 84 | 10934 |
| 2003 | 4709 | 7906 | 85 | 0 | 92 | 12792 |
| 2004 | 4198 | 6622 | 216 | 0 | 21 | 11057 |
| 2005 | 4805 | 8038 | 128 | 4 | 0 | 12975 |
| 2006 | 4616 | 6880 | 191 | 2 | 20 | 11709 |
| 2007 | 4414 | 6069 | 333 | 2 | 18 | 10836 |
| Tota |  |  |  |  |  |  |
| 1 | 34136 | 55676 | 1073 | 8 | 981 | 91874 |


| number of cohab declared vs number valid years of <br> cohabitations |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| not enough <br> yalid cohab |  |  |  |  |
| 2000 | 8873 | no problem | years | Total |
| 2001 | 9923 | 1243 | 117 | 10233 |
| 2002 | 9390 | 1439 | 116 | 11338 |
| 2003 | 10825 | 1798 | 110 | 10934 |
| 2004 | 9463 | 1495 | 169 | 12792 |
| 2005 | 11014 | 1850 | 99 | 11057 |
| 2006 | 10082 | 1506 | 111 | 12975 |
| 2007 | 9417 | 1299 | 121 | 11709 |
| Total | 78987 | 11924 | 120 | 10836 |

Marriages of people who have a missing number of marriages but give valid years are accepted as proper marriages of the individual.

As seen below, the number of valid years of cohabitation is partly limited by the number of slots available for cohabitation dates (limited to 3 ). The maximum number of marriages occurring does not exceed the number of slots available.

Tables PH4b

| year | ncoh |  |  |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | :---: | :---: |
| $\mathbf{2 0 0 0}$ | $\mathbf{- 8}$ | $\mathbf{0}$ | $\mathbf{1 - 3}$ | $\mathbf{4 +}$ |  |  |  |
| $\mathbf{2 0 0 1}$ | 324 | 7802 | 2226 | 45 | 10233 |  |  |
| $\mathbf{2 0 0 2}$ | 432 | 8540 | 2432 | 42 | 11338 |  |  |
| $\mathbf{2 0 0 3}$ | 543 | 9081 | 2494 | 30 | 10934 |  |  |
| $\mathbf{2 0 0 4}$ | 510 | 7942 | 3110 | 58 | 12792 |  |  |
| $\mathbf{2 0 0 5}$ | 578 | 9167 | 2562 | 43 | 11057 |  |  |
| $\mathbf{2 0 0 6}$ | 1186 | 7796 | 2677 | 63 | 12975 |  |  |
| $\mathbf{2 0 0 7}$ | 1277 | 7106 | 2410 | 40 | 11709 |  |  |
| Total | 5010 | 65412 | 21078 | 374 | 10836 |  |  |

For instance in 2000, 117 persons declare too many cohabitation dates, but among them 45 were limited by the number of slots available.

## Check 5

This checks the completeness of months of events, given the presence of a valid year of event. It also gives the total number of valid dates relating to relationships, assuming that missing months will be attributed.

Tables PH5

|  | premarital cohabitation |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 | order 5 |
| valid year and month <br> valid year but month | 21261 | 6305 | 594 | 46 | 2 |
| missing <br> total valid years | 885 | 345 | 36 | 4 | 0 |


|  | year marriage |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 | order 5 |
| valid year and month <br> valid year but month <br> missing <br> total valid years | 55640 | 8739 | 782 | 59 | 3 |


|  | year death partner |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 |
| valid year and month <br> valid year but month <br> missing | 1079 | 174 | 19 | 1 |
| total valid years | 16 |  |  |  |


|  | separation of marriage |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 | order 5 |
| valid year and month <br> valid year but month | 15469 | 1909 | 170 | 12 | 2 |
| missing |  |  |  |  |  |
| total valid years | 916 | 154 | 19 | 3 | 0 |


|  | divorce |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 | order 5 |
| valid year and month <br> valid year but month | 12490 | 1411 | 118 | 10 | 2 |
| missing <br> total valid years | 1519 | 212 | 26 | 1 | 0 |


|  | beginning cohabitation |  |  |
| :--- | :---: | :---: | :---: |
| order 1 | order 2 | order 3 |  |
| valid year and month <br> valid year but month <br> missing | 11305 | 2818 | 713 |
| total valid years | 917 | 217 | 49 |


|  | end cohabitation |  |  |
| :--- | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 |
| valid year and month <br> valid year but month <br> missing <br> total valid years | 11314 | 2817 | 713 |


|  | end living together |  |  |
| :--- | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 |
| valid year and month | 2235 | 511 | 144 |
| valid year but month |  |  |  |
| missing | 139 | 29 | 7 |
| total valid years | 2374 | 540 | 151 |


|  | end relationship |  |  |
| :--- | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 |
| valid year and month | 1687 | 408 | 107 |
| valid year but month |  |  |  |
| missing | 92 | 17 | 5 |
| total valid years | 1779 | 425 | 112 |

The check below examines the extent to which the month of marriage may have been influenced by imputation of the month of June. When compared to an assumption of equal distribution, there is strong evidence of an excess of June months (6), apart from marriage months. Additionally, in 2004 it appears there is an error in the registration
of the month of marriage, since nobody has a month of August (8). It seems those August marriage months were miscoded -8 and so where the year of marriage is present in 2004, these -8 values on month have been recoded to 8 . (The sample sizes of the right order of magnitude).

Table PH5b: Distribution of the months of each event

|  | Month |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Start of 1st rel. | 6.6 | 5.9 | 8.7 | 8.0 | 7.8 | 13.7 | 9.6 | 9.7 | 11.1 | 7.8 | 5.8 | 5.4 |
| Start of 2nd rel. | 9.7 | 7.0 | 7.3 | 8.1 | 8.4 | 13.4 | 8.2 | 8.7 | 8.7 | 7.5 | 6.8 | 6.3 |
| End of 1st rel. | 9.2 | 7.0 | 8.3 | 7.3 | 7.5 | 16.5 | 7.8 | 8.3 | 8.0 | 6.9 | 6.2 | 6.8 |
| End of 2nd rel. | 9.4 | 7.7 | 8.2 | 7.7 | 7.3 | 13.8 | 8.3 | 8.5 | 7.7 | 7.2 | 6.5 | 7.7 |
| Marriage in 1st rel. | 3.6 | 4.7 | 8.2 | 8.1 | 8.5 | 12.3 | 11.9 | 11.8 | 13.0 | 8.3 | 4.9 | 4.6 |
| Marriage in 2nd rel. | 3.7 | 4.7 | 7.0 | 8.0 | 9.6 | 11.7 | 11.0 | 12.0 | 11.9 | 8.6 | 5.7 | 6.0 |
| Divorce in 1st rel. | 7.3 | 6.3 | 7.7 | 7.6 | 6.7 | 19.5 | 7.9 | 7.6 | 8.6 | 7.3 | 7.2 | 6.5 |
| Divorce in 2nd rel. | 6.8 | 7.7 | 8.0 | 6.5 | 6.9 | 17.0 | 7.9 | 7.9 | 8.7 | 6.6 | 7.5 | 8.5 |

Figure PH5b: distribution of the months of marriage in first relationship


Check 6
This checks whether the temporal ordering of events within the marriage/cohabitation slots is correct.

Tables PH6

| order within marriage 1 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| year |  | year of divorce but not of marriage | ordered no problem | beginning and end permuted | divorce before separation | Total |
| 2000 | 3466 | 7 | 6746 | 2 | 10 | 2 |
| 2001 | 3990 | 8 | 7326 | 0 | 14 | 0 |
| 2002 | 4016 | 7 | 6900 | 2 | 9 | 0 |
| 2003 | 4765 | 16 | 7991 | 1 | 19 | 0 |
| 2004 | 4373 | 29 | 6640 | 1 | 14 | 0 |
| 2005 | 4909 | 11 | 8043 | 1 | 11 | 0 |
| 2006 | 4679 | 14 | 6994 | 9 | 13 | 0 |
| 2007 | 4679 | 5 | 6138 | 6 | 8 | 0 |
| Total | 34877 | 97 | 56778 | 22 | 98 | 2 |


| order within marriage 2 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| year |  | year of divorce but not of marriage | ordered no problem | beginning and end permuted | divorce before separation | Total |
| 2000 | 9205 | 3 | 1023 | 0 | 2 | 0 |
| 2001 | 10194 | 5 | 1137 | 1 | 1 | 0 |
| 2002 | 9823 | 0 | 1110 | 0 | 1 | 0 |
| 2003 | 11584 | 7 | 1196 | 3 | 2 | 0 |
| 2004 | 9945 | 6 | 1106 | 0 | 0 | 0 |
| 2005 | 11720 | 6 | 1247 | 0 | 2 | 0 |
| 2006 | 10631 | 1 | 1073 | 0 | 3 | 1 |
| 2007 | 9908 | 4 | 920 | 1 | 2 | 1 |
| Total | 83010 | 32 | 8812 | 5 | 13 | 2 |


| order within marriage 3 <br> year <br> year of divorce <br> but not of <br> marriage |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 2000 | 10148 | 0 | ordered no <br> problem | Total |
| 2001 | 11231 | 0 | 85 | 0 |
| 2002 | 10841 | 0 | 106 | 1 |
| 2003 | 12677 | 0 | 93 | 0 |
| 2004 | 10957 | 1 | 115 | 0 |
| 2005 | 12860 | 0 | 99 | 0 |
| 2006 | 11618 | 0 | 115 | 0 |
| 2007 | 10747 | 0 | 91 | 0 |
| Total | 91079 | 1 | 89 | 0 |
|  |  |  | 793 | 1 |


| order within marriage 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | . | year of divorce but not of marriage | Total |
| 2000 | 10226 | 0 | 7 |
| 2001 | 11327 | 1 | 10 |
| 2002 | 10925 | 0 | 9 |
| 2003 | 12786 | 0 | 6 |
| 2004 | 11047 | 0 | 10 |
| 2005 | 12970 | 0 | 5 |
| 2006 | 11704 | 0 | 5 |
| 2007 | 10829 | 0 | 7 |
| Total | 91814 | 1 | 59 |


| order within marriage 5 |  |  |  |
| :---: | :---: | :---: | :---: |
| ordered no <br> year <br> problem <br> 2000 |  |  | 10233 |


| order within cohabitation 1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | ordered no <br> problem |  |  |  |
| beginning and <br> end permuted | Total |  |  |  |
| 2000 | 8955 | 1275 | 3 | 10233 |
| 2001 | 10008 | 1325 | 5 | 11338 |
| 2002 | 9481 | 1451 | 2 | 10934 |
| 2003 | 10944 | 1841 | 7 | 12792 |
| 2004 | 9526 | 1531 | 0 | 11057 |
| 2005 | 11078 | 1893 | 4 | 12975 |
| 2006 | 10160 | 1546 | 3 | 11709 |
| 2007 | 9500 | 1336 | 0 | 10836 |
| Total | 79652 | 12198 | 24 | 91874 |


| order within cohabitation 2 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | ordered no <br> problem |  |  |  |
| year | beginning and <br> end permuted | Total |  |  |
| 2000 | 9937 | 296 | 0 | 10233 |
| 2001 | 11018 | 317 | 3 | 11338 |
| 2002 | 10592 | 342 | 0 | 10934 |
| 2003 | 12299 | 491 | 2 | 12792 |
| 2004 | 10705 | 350 | 2 | 11057 |
| 2005 | 12479 | 495 | 1 | 12975 |
| 2006 | 11303 | 404 | 2 | 11709 |
| 2007 | 10506 | 329 | 1 | 10836 |
| Total | 88839 | 3024 | 11 | 91874 |


| order within cohabitation 3 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| year |  | ordered no problem | beginning and end permuted | Total |
| 2000 | 10151 | 81 | 1 | 10233 |
| 2001 | 11258 | 80 | 0 | 11338 |
| 2002 | 10865 | 69 | 0 | 10934 |
| 2003 | 12674 | 118 | 0 | 12792 |
| 2004 | 10969 | 88 | 0 | 11057 |
| 2005 | 12838 | 137 | 0 | 12975 |
| 2006 | 11607 | 102 | 0 | 11709 |
| 2007 | 10750 | 85 | 1 | 10836 |
| Total | 91112 | 760 | 2 | 91874 |

Only obvious errors have been corrected manually, but beginning and end have not been reversed routinely when they were found in incorrect order. It would be making a strong assumption that the dates have actually been permuted, while the error could result from one or both dates being mistaken.

## Check 7

This evaluates the consistency between the reported end cause and the type of end date present.

For premarital cohabitation, when a person answers yes to the question "Before getting married, did you and your husband/wife live together as a couple?", we consider they declare a premarital cohabitation. Thus if they do not have a valid date of premarital cohabitation for that marriage, we consider the date is missing (in the "declaration but no valid year" row). Similarly, we use the answer to the question on the type of end of marriage to see whether the marriage ended and how, and then to see whether the end date is missing or not.
For marriage and cohabitation there is no direct question, but a question on the number of marriages/cohabitations the person has had. Then we use this at each order to suppose whether the person had or not a marriage/cohabitation and whether there is a valid date that corresponds.

Tables PH7

|  | premarital cohabitation |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 | order 5 |
| declar. and year |  |  |  |  |  |
| coincide | 22143 | 6649 | 630 | 50 | 2 |
| declar. but no valid year | 264 | 111 | 12 | 1 | 0 |
| valid year but no declar. | 3 | 1 | 0 | 0 | 0 |


|  | marriage |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 | order 5 |
| declar. and year |  |  |  |  |  |
| coincide | 55922 | 8680 | 774 | 56 | 3 |
| declar. but no valid year | 811 | 362 | 71 | 11 | 0 |
| valid year but no declar. | 978 | 152 | 20 | 3 | 0 |


|  | death husband |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 |
| declar. and year |  |  |  |  |
| coincide | 1095 | 180 | 20 | 1 |
| declar. but no valid year | 0 | 0 | 0 | 0 |
| valid year but no declar. | 13 | 2 | 0 | 0 |


|  | separation of marriage |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 | order 5 |
| declar. and year |  |  |  |  |  |
| coincide | 16385 | 2063 | 189 | 15 | 2 |
| declar. but no valid year | 779 | 168 | 22 | 1 | 0 |
| valid year but no declar. | 0 | 0 | 0 | 0 | 0 |


|  | divorce |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 | order 4 | order 5 |
| declar. and year | 14009 | 1623 | 144 | 11 | 2 |
| coincide | 0 | 0 | 0 | 0 | 0 |
| declar. but no valid year | 963 | 183 | 12 | 0 | 0 |
| valid year but no declar. | 0 | 0 |  |  |  |


|  | beginning cohabitation |  |  |
| :--- | :---: | :---: | :---: |
| order 1 | order 2 | order 3 |  |
| declar. and year |  |  |  |
| coincide | 12222 | 3035 | 762 |
| declar. but no valid year | 665 | 225 | 108 |
| valid year but no declar. | 0 | 0 | 0 |


|  | end cohabitation |  |  |
| :--- | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 |
| declar. and year |  |  |  |
| coincide | 12213 | 3019 | 761 |
| declar. but no valid year | 444 | 128 | 63 |
| valid year but no declar. | 12657 | 14 | 4 |


|  | end living together |  |  |
| :--- | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 |
| declar. and year |  |  |  |
| coincide | 2373 | 540 | 151 |
| declar. but no valid year | 161 | 48 | 23 |
| valid year but no declar. | 2534 | 0 | 0 |


|  | end of the relationship |  |  |
| :--- | :---: | :---: | :---: |
|  | order 1 | order 2 | order 3 |
| declar. and year |  |  |  |
| coincide | 1779 | 425 | 112 |
| declar. but no valid year | 140 | 25 | 13 |
| valid year but no declar. | 0 | 0 | 0 |

## Edits

(1) where cause is missing: if valid date of (a) widowhood, (b) divorce or (c) separation exists, assign widowhood, divorce or separation as cause;
(2) where no valid date of end present, assign type of end from stated marital status if this $=$ latest marriage and stated marital status $=$ separated, divorced or widowed; otherwise (3) cause of end = not known (-8)

## Check 8

Shows the consistency of end causes declared and the presence of end dates.

Tables PH8

| marriage ending in death |  |  |  |
| :---: | :---: | :---: | :---: |
|  | declar. but no <br> year |  |  |
| no problem | valid year | Total |  |
| 2000 | 10232 | 1 | 10233 |
| 2001 | 11337 | 1 | 11338 |
| 2002 | 10932 | 2 | 10934 |
| 2003 | 12786 | 6 | 12792 |
| 2004 | 11056 | 1 | 11057 |
| 2005 | 12972 | 3 | 12975 |
| 2006 | 11709 | 0 | 11709 |
| 2007 | 10835 | 1 | 10836 |
| Total | 91859 | 15 | 91874 |


| divorce |  |  |  |
| :---: | :---: | :---: | :---: |
| declar. but no |  |  |  |
| year | no problem | valid year | Total |
| 2000 | 10117 | 116 | 10233 |
| 2001 | 11173 | 165 | 11338 |
| 2002 | 10764 | 170 | 10934 |
| 2003 | 12661 | 131 | 12792 |
| 2004 | 10943 | 114 | 11057 |
| 2005 | 12836 | 139 | 12975 |
| 2006 | 11601 | 108 | 11709 |
| 2007 | 10742 | 94 | 10836 |
| Total | 90837 | 1037 | 91874 |


| separation of marriage |  |  |  |
| :---: | :---: | :---: | :---: |
|  | declar. but no <br> year |  |  |
| no problem | valid year | Total |  |
| 2000 | 10069 | 164 | 10233 |
| 2001 | 11156 | 182 | 11338 |
| 2002 | 10817 | 117 | 10934 |
| 2003 | 12660 | 132 | 12792 |
| 2004 | 11000 | 57 | 11057 |
| 2005 | 12871 | 104 | 12975 |
| 2006 | 11625 | 84 | 11709 |
| 2007 | 10758 | 78 | 10836 |
| Total | 90956 | 918 | 91874 |


| partners stopped living together |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | declar. but no | year but no |  |
| year | no problem | valid year | declar. | Total |
| 2000 | 9610 | 288 | 335 | 10233 |
| 2001 | 10732 | 254 | 352 | 11338 |
| 2002 | 10236 | 275 | 423 | 10934 |
| 2003 | 11896 | 355 | 541 | 12792 |
| 2004 | 10594 | 246 | 217 | 11057 |
| 2005 | 12460 | 286 | 229 | 12975 |
| 2006 | 11248 | 238 | 223 | 11709 |
| 2007 | 10433 | 203 | 200 | 10836 |
| Total | 87209 | 2145 | 2520 | 91874 |


| relationship ended |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | declar. but no | year but no |  |
| year | no problem | valid year | declar. | Total |
| 2000 | 9594 | 369 | 270 | 10233 |
| 2001 | 10728 | 373 | 237 | 11338 |
| 2002 | 10215 | 457 | 262 | 10934 |
| 2003 | 11893 | 559 | 340 | 12792 |
| 2004 | 10607 | 227 | 223 | 11057 |
| 2005 | 12472 | 241 | 262 | 12975 |
| 2006 | 11258 | 237 | 214 | 11709 |
| 2007 | 10441 | 215 | 180 | 10836 |
| Total | 87208 | 2678 | 1988 | 91874 |


| global end cohabitation |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| declar. but no <br> year |  |  |  |  |
| no problem | year but no |  |  |  |
| 2000 | 10173 | 60 | 0 | Teclar. |
| 2001 | 11282 | 55 | 0 | 10233 |
| 2002 | 10869 | 65 | 1 | 11338 |
| 2003 | 12725 | 59 | 8 | 10934 |
| 2004 | 11011 | 42 | 4 | 12792 |
| 2005 | 12925 | 40 | 10 | 11057 |
| 2006 | 11646 | 57 | 6 | 12975 |
| 2007 | 10774 | 57 | 5 | 11709 |
| Total | 91405 | 435 | 34 | 10836 |

## Reordering the partnership histories

Following the above checks, the partnership histories were reordered, and a further set of checks was run.

In all cases, reordering is based on the earliest year within any set of partnership dates.

## General process

1- Vector of dates concerning non married relationships


As described in check 1, the date of end of relationship is asked in two steps in the questionnaires for the years under study. If the partnership ends with a breakup, we choose the date when the individual actually stops living with the partner in the same household (decohabitation). The number of events is given in check 6.

2- Vector of dates concerning relationships that include a marriage.


3- Vector created for the combined partnership histories (combining relationships including a marriage with free standing cohabitations)


## Remarks

To re-order this vector, we take the minimum (earliest) of the dates present in a slot and re-order by that minimum date
In general the date of separation is used to identify the end of a marriage. If year of separation is absent but divorce year is present, we use divorce year + month (see postcheck 11).

## Verification of the combined partnership history

## Postcheck 11

This check compares the number of partnerships declared and the number of valid partnership dates.
Number of partnerships declared (npart) is a CPC-derived variable generated by adding the original GHS variables that give the number of cohabitations and marriages (renamed nmar and ncoh). Two other variables have been created in the construction of the dataset, namely npartu and nmaru, which give the number of valid marriage and partnership dates, as described in the flag variables parqn and marqn.

The missing column in the table below refers to cases where either nmar or ncoh is missing. Note that the -8 s in PH11nc increase from the year 2000 to reach 1,200 cases in 2007. Note that npart is equal to the minimum number of partnerships reported in that it reflects the sum of ncoh and nmar OR one of these where the other is missing. Missing values on npart will therefore reflect people missing on both variables.

Table PH11

| year | checknbp |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - | same number partn and valid dates | number <br> partn>0 <br> but no <br> valid date | number partn<number valid dates | number partn>number valid dates |  |
| 2000 | 135 | 9910 | 54 | 2 | 132 | 10233 |
| 2001 | 304 | 10827 | 62 | 1 | 144 | 11338 |
| 2002 | 411 | 10292 | 71 | 15 | 145 | 10934 |
| 2003 | 518 | 11965 | 107 | 15 | 187 | 12792 |
| 2004 | 507 | 10286 | 123 | 11 | 130 | 11057 |
| 2005 | 582 | 12071 | 128 | 22 | 172 | 12975 |
| 2006 | 762 | 10458 | 88 | 38 | 363 | 11709 |
| 2007 | 838 | 9417 | 233 | 18 | 330 | 10836 |
| Total | 4057 | 85226 | 866 | 122 | 1603 | 91874 |

Table PH11nc: Number of cohabitations declared

| year | ncoh |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | :---: | :---: |
|  | $\mathbf{- 8}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |  |  |  |
| $\mathbf{2 0 0 0}$ | 155 | 7802 | 1780 | 369 | 82 | 23 | 12 | 6 | 4 | 0 | 10233 |  |  |
| $\mathbf{2 0 0 1}$ | 322 | 8540 | 1913 | 418 | 103 | 22 | 9 | $\mathbf{2}$ | 9 | 0 | 11338 |  |  |
| $\mathbf{2 0 0 2}$ | 431 | 7978 | 1958 | 441 | 96 | 18 | 6 | 5 | 1 | 0 | 10934 |  |  |
| $\mathbf{2 0 0 3}$ | 541 | 9081 | 2344 | 620 | 148 | 32 | 15 | 5 | 6 | 0 | 12792 |  |  |
| $\mathbf{2 0 0 4}$ | 508 | 7942 | 1997 | 458 | 109 | 27 | 9 | 3 | 2 | 2 | 11057 |  |  |
| $\mathbf{2 0 0 5}$ | 571 | 9167 | 2443 | 572 | 159 | 40 | 13 | 4 | 5 | 1 | 12975 |  |  |
| $\mathbf{2 0 0 6}$ | 1087 | 7796 | 2061 | 580 | 135 | 36 | 7 | 4 | 3 | 0 | 11709 |  |  |
| $\mathbf{2 0 0 7}$ | 1203 | 7106 | 1885 | 484 | 115 | 31 | 4 | 5 | $\mathbf{2}$ | 1 | 10836 |  |  |
| Total | 4818 | 65412 | 16381 | 3942 | 947 | 229 | 75 | 34 | 32 | 4 | 91874 |  |  |

Table PH11nm: Number of marriages declared

| year | nmar |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | -8 | 0 | 1 | 2 | 3 | 4 | 5 |  |
| 2000 | 158 | 3286 | 5750 | 951 | 81 | 7 | 0 | 10233 |
| 2001 | 324 | 3633 | 6230 | 1042 | 98 | 10 | 1 | 11338 |
| 2002 | 428 | 3552 | 5830 | 1028 | 86 | 9 | 1 | 10934 |
| 2003 | 530 | 4174 | 6868 | 1105 | 109 | 6 | 0 | 12792 |
| 2004 | 530 | 3667 | 5740 | 1019 | 90 | 10 | 1 | 11057 |
| 2005 | 570 | 4233 | 6892 | 1159 | 114 | 7 | 0 | 12975 |
| 2006 | 817 | 3815 | 5873 | 1084 | 112 | 8 | 0 | 11709 |
| 2007 | 899 | 3552 | 5339 | 933 | 104 | 9 | 0 | 10836 |
| Total | 4256 | 29912 | 48522 | 8321 | 794 | 66 | 3 | 91874 |

Table PH11np: Number of partnerships declared

| year | npart |  |  |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | -8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |  |
| 2000 | 134 | 1970 | 5985 | 1688 | 345 | 75 | 22 | 5 | 6 | 2 | 1 | 0 | 0 | 10233 |
| 2001 | 304 | 2114 | 6608 | 1802 | 397 | 78 | 22 | 3 | 5 | 4 | 1 | 0 | 0 | 11338 |
| 2002 | 410 | 2008 | 6230 | 1781 | 410 | 69 | 14 | 5 | 5 | 1 | 0 | 0 | 1 | 10934 |
| 2003 | 516 | 2262 | 7222 | 2113 | 513 | 118 | 31 | 7 | 6 | 3 | 0 | 1 | 0 | 12792 |
| 2004 | 490 | 2143 | 6032 | 1854 | 419 | 84 | 22 | 7 | 2 | 1 | 3 | 0 | 0 | 11057 |
| 2005 | 546 | 2328 | 7213 | 2171 | 564 | 107 | 29 | 8 | 4 | 5 | 0 | 0 | 0 | 12975 |
| 2006 | 721 | 2176 | 6170 | 2029 | 478 | 98 | 25 | 7 | 3 | 1 | 1 | 0 | 0 | 11709 |
| 2007 | 802 | 2086 | 5656 | 1759 | 411 | 89 | 22 | 7 | 1 | 2 | 1 | 0 | 0 | 10836 |
| Total | 3923 | 17087 | 51116 | 15197 | 3537 | 718 | 187 | 49 | 32 | 19 | 7 | 1 | 1 | 91874 |

Table PH11nbp: Total number of partnerships with a valid beginning date

| year | npartu |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |  |
| 2000 | 2157 | 6032 | 1630 | 342 | 62 | 10 | 0 | 0 | 10233 |
| 2001 | 2480 | 6659 | 1748 | 371 | 70 | 10 | 0 | 0 | 11338 |
| 2002 | 2488 | 6278 | 1726 | 373 | 57 | 10 | 1 | 1 | 10934 |
| 2003 | 2883 | 7239 | 2055 | 494 | 106 | 13 | 2 | 0 | 12792 |
| 2004 | 2739 | 6019 | 1800 | 414 | 72 | 11 | 2 | 0 | 11057 |
| 2005 | 2966 | 7246 | 2113 | 548 | 90 | 12 | 0 | 0 | 12975 |
| 2006 | 2937 | 6438 | 1797 | 444 | 81 | 11 | 1 | 0 | 11709 |
| 2007 | 3080 | 5761 | 1546 | 361 | 79 | 8 | 1 | 0 | 10836 |
| Total | 21730 | 51672 | 14415 | 3347 | 617 | 85 | 7 | 1 | 91874 |

Postcheck 12
Distribution of the type of relationship and of the type of end.
Checks are given for the 6 first relationships, since there are too few later ones to justify additional tables.

Note that the type of partnership, i.e. whether it was a free-standing cohabitation, a marriage preceded by premarital cohabitation or a direct marriage are derived from putting together information from the separate marriage histories and cohabitation histories. In other words, respondents are not asked directly, for each of their partnerships, about its type. For the end type however, we use the direct answer to the question on the type of end of the relationship (when it ended).

The missing column includes people who either did not have a first, second, etc. partnership, or for whom first, second etc. partnership information is missing.

Note in table PH12b, the category 'No actual separation, just decohab.' refers to people who continued in their relationship but stopped cohabiting, i.e. became 'Living Apart Together'. There are so few of these, and the question was asked for so few years, that the coding is not retained in the final database.

Tables PH12a

| year | cohmar1 |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\cdot$ | marriage <br> with <br> premar <br> cohab | direct <br> marriage | cohabitation |  |
| $\mathbf{2 0 0 0}$ | 2138 | 1973 | 4417 | 1705 | 10233 |
| $\mathbf{2 0 0 1}$ | 2440 | 2189 | 4788 | 1921 | 11338 |
| $\mathbf{2 0 0 2}$ | 2447 | 2122 | 4384 | 1981 | 10934 |
| $\mathbf{2 0 0 3}$ | 2837 | 2726 | 4806 | 2423 | 12792 |
| $\mathbf{2 0 0 4}$ | 2664 | 2357 | 4018 | 2018 | 11057 |
| $\mathbf{2 0 0 5}$ | 2925 | 2920 | 4606 | 2524 | 12975 |
| $\mathbf{2 0 0 6}$ | 2911 | 2629 | 3935 | 2234 | 11709 |
| $\mathbf{2 0 0 7}$ | 3050 | 2406 | 3348 | 2032 | 10836 |
| Total | 21412 | 19322 | 34302 | 16838 | 91874 |


| year | cohmar2 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\cdot$ | marriage <br> with <br> premar <br> cohab | direct <br> marriage | cohabitation |  |
| $\mathbf{2 0 0 0}$ | 8159 | 921 | 320 | 833 | 10233 |
| $\mathbf{2 0 0 1}$ | 9105 | 1012 | 358 | 863 | 11338 |
| $\mathbf{2 0 0 2}$ | 8717 | 1031 | 320 | 866 | 10934 |
| $\mathbf{2 0 0 3}$ | 10073 | 1159 | 345 | 1215 | 12792 |
| $\mathbf{2 0 0 4}$ | 8720 | 1064 | 334 | 939 | 11057 |
| $\mathbf{2 0 0 5}$ | 10172 | 1266 | 307 | 1230 | 12975 |
| $\mathbf{2 0 0 6}$ | 9335 | 1099 | 251 | 1024 | 11709 |
| $\mathbf{2 0 0 7}$ | 8805 | 944 | 227 | 860 | 10836 |
| Total | 73086 | 8496 | 2462 | 7830 | 91874 |


| year | cohmar3 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total |  |  |  |  |  |
|  | $\cdot$ | marriage <br> with <br> premar <br> cohab | direct <br> marriage | cohabitation |  |
| $\mathbf{2 0 0 0}$ | 9816 | 163 | 45 | 209 | 10233 |
| $\mathbf{2 0 0 1}$ | 10875 | 172 | 52 | 239 | 11338 |
| $\mathbf{2 0 0 2}$ | 10482 | 196 | 40 | 216 | 10934 |
| $\mathbf{2 0 0 3}$ | 12152 | 237 | 37 | 366 | 12792 |
| $\mathbf{2 0 0 4}$ | 10546 | 191 | 34 | 286 | 11057 |
| $\mathbf{2 0 0 5}$ | 12307 | 249 | 45 | 374 | 12975 |
| $\mathbf{2 0 0 6}$ | 11161 | 208 | 33 | 307 | 11709 |
| $\mathbf{2 0 0 7}$ | 10375 | 180 | 33 | 248 | 10836 |
| Total | 87714 | 1596 | 319 | 2245 | 91874 |


| year | cohmar4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\cdot$ | marriage <br> with <br> premar <br> cohab | direct <br> marriage | cohabitation |  |
| $\mathbf{2 0 0 0}$ | 10159 | 34 | 3 | 37 | 10233 |
| $\mathbf{2 0 0 1}$ | 11257 | 26 | 9 | 46 | 11338 |
| $\mathbf{2 0 0 2}$ | 10862 | 25 | 12 | 35 | 10934 |
| $\mathbf{2 0 0 3}$ | 12665 | 48 | 5 | 74 | 12792 |
| $\mathbf{2 0 0 4}$ | 10966 | 37 | 7 | 47 | 11057 |
| $\mathbf{2 0 0 5}$ | 12869 | 52 | 5 | 49 | 12975 |
| $\mathbf{2 0 0 6}$ | 11611 | 47 | 4 | 47 | 11709 |
| $\mathbf{2 0 0 7}$ | 10747 | 49 | 1 | 39 | 10836 |
| Total | 91136 | 318 | 46 | 374 | 91874 |


| year | cohmar5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\cdot$ | marriage <br> with <br> premar <br> cohab | direct <br> marriage | cohabitation |  |
| $\mathbf{2 0 0 0}$ | 10223 | 5 | 0 | 5 | 10233 |
| $\mathbf{2 0 0 1}$ | 11327 | 0 | 2 | 9 | 11338 |
| $\mathbf{2 0 0 2}$ | 10922 | 3 | 2 | 7 | 10934 |
| $\mathbf{2 0 0 3}$ | 12775 | 8 | 0 | 9 | 12792 |
| $\mathbf{2 0 0 4}$ | 11044 | 8 | 0 | 5 | 11057 |
| $\mathbf{2 0 0 5}$ | 12963 | 4 | 1 | 7 | 12975 |
| $\mathbf{2 0 0 6}$ | 11697 | 2 | 1 | 9 | 11709 |
| $\mathbf{2 0 0 7}$ | 10826 | 3 | 1 | 6 | 10836 |
| Total | 91777 | 33 | 7 | 57 | 91874 |


| year | cohmar6 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\cdot$ | marriage <br> with <br> premar <br> cohab | direct <br> marriage | cohabitation |  |
| $\mathbf{2 0 0 0}$ | 10233 | 0 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11338 | 0 | 0 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10932 | 0 | 1 | 1 | 10934 |
| $\mathbf{2 0 0 3}$ | 12790 | 0 | 0 | 2 | 12792 |
| $\mathbf{2 0 0 4}$ | 11055 | 1 | 0 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12975 | 0 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11708 | 1 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10835 | 1 | 0 | 0 | 10836 |
| Total | 91866 | 3 | 1 | 4 | 91874 |

Tables PH12b

| year | causend1 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | no end | stopped <br> living tgth | partner <br> died | no actual <br> separation, <br> just |  |
| $\mathbf{2 0 0 0}$ | 2118 | 4959 | 2980 | 141 | 35 | 10233 |
| $\mathbf{2 0 0 1}$ | 2422 | 5501 | 3206 | 175 | 34 | 11338 |
| $\mathbf{2 0 0 2}$ | 2426 | 5128 | 3193 | 149 | 38 | 10934 |
| $\mathbf{2 0 0 3}$ | 2811 | 5927 | 3841 | 160 | 53 | 12792 |
| $\mathbf{2 0 0 4}$ | 2656 | 5015 | 3232 | 154 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 2952 | 5918 | 3946 | 159 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 3001 | 5313 | 3276 | 119 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 3104 | 4771 | 2863 | 98 | 0 | 10836 |
| Total | 21490 | 42532 | 26537 | 1155 | 160 | 91874 |


| year | causend2 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | no end | stopped <br> living tgth | partner <br> died | no actual <br> separation, <br> just |  |
| $\mathbf{2 0 0 0}$ | 8133 | 1322 | 738 | 25 | 15 | 10233 |
| $\mathbf{2 0 0 1}$ | 9083 | 1446 | 758 | 35 | 16 | 11338 |
| $\mathbf{2 0 0 2}$ | 8707 | 1389 | 793 | 35 | 10 | 10934 |
| $\mathbf{2 0 0 3}$ | 10065 | 1619 | 1036 | 38 | 34 | 12792 |
| $\mathbf{2 0 0 4}$ | 8715 | 1466 | 841 | 35 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 10170 | 1682 | 1092 | 31 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 9256 | 1533 | 893 | 27 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 8763 | 1293 | 751 | 29 | 0 | 10836 |
| Total | 72892 | 11750 | 6902 | 255 | 75 | 91874 |


| year | causend3 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | no end | stopped <br> living tgth | partner <br> died | no actual <br> separation, <br> just |  |
| decohab |  |  |  |  |  |  |$\quad$.


| year | causend4 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | no end | stopped <br> living tgth | partner <br> died | no actual <br> separation, <br> just |  |
| $\mathbf{2 0 0 0}$ | 10113 | 93 | 27 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11209 | 97 | 31 | 0 | 1 | 11338 |
| $\mathbf{2 0 0 2}$ | 10827 | 82 | 25 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12609 | 136 | 46 | 0 | 1 | 12792 |
| $\mathbf{2 0 0 4}$ | 10914 | 105 | 35 | 3 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12784 | 153 | 38 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11549 | 124 | 36 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10702 | 104 | 29 | 1 | 0 | 10836 |
| Total | 90707 | 894 | 267 | 4 | 2 | 91874 |


| year | causend5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  | missing | no end | stopped <br> living tgth | no actual <br> separation, <br> just |  |
| $\mathbf{2 0 0 0}$ | 10205 | 27 | 1 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11309 | 29 | 0 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10907 | 24 | 3 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12747 | 40 | 4 | 1 | 12792 |
| $\mathbf{2 0 0 4}$ | 11025 | 28 | 4 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12933 | 41 | 1 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11678 | 30 | 1 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10804 | 30 | 2 | 0 | 10836 |
| Total | 91608 | 249 | 16 | 1 | 91874 |


| year | causend6 |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | missing | no end | stopped <br> living tgth |  |
| $\mathbf{2 0 0 0}$ | 10228 | 4 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 11337 | 1 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10928 | 5 | 1 | 10934 |
| $\mathbf{2 0 0 3}$ | 12782 | 10 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 11052 | 5 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12970 | 5 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11705 | 4 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10832 | 4 | 0 | 10836 |
| Total | 91834 | 38 | $\mathbf{2}$ | 91874 |

## Postcheck 13

This check looks at whether there is a valid date of beginning/end of partnerships that we believe to exist (because at least one date is declared within the relationship) or an end is declared (in the variable that gives the end cause).

Respondents who don't declare a partnership and those with a missing code on whether the partnership has started/ended are in the 'missing' column.

Tables PH13a

| year | chkbeg1 |  |  | Total |
| :--- | ---: | ---: | ---: | :---: |
|  | missing | beg. supposed <br> and valid date <br> beg. | no valid date <br> beg. while <br> supposed beg. |  |
| $\mathbf{2 0 0 0}$ | 2138 | 8060 | 35 | 10233 |
| $\mathbf{2 0 0 1}$ | 2440 | 8836 | 62 | 11338 |
| $\mathbf{2 0 0 2}$ | 2447 | 8417 | 70 | 10934 |
| $\mathbf{2 0 0 3}$ | 2837 | 9865 | 90 | 12792 |
| $\mathbf{2 0 0 4}$ | 2664 | 8293 | 100 | 11057 |
| $\mathbf{2 0 0 5}$ | 2925 | 9987 | 63 | 12975 |
| $\mathbf{2 0 0 6}$ | 2911 | 8749 | 49 | 11709 |
| $\mathbf{2 0 0 7}$ | 3050 | 7736 | 50 | 10836 |
| Total | 21412 | 69943 | 519 | 91874 |


| year | chkbeg.2 |  |  | Total |
| :--- | ---: | ---: | ---: | :---: |
|  | missing | beg. supposed <br> and valid date <br> beg. | no valid date <br> beg. while <br> supposed beg. |  |
| $\mathbf{2 0 0 0}$ | 8159 | 2056 | 18 | 10233 |
| $\mathbf{2 0 0 1}$ | 9105 | 2211 | 22 | 11338 |
| $\mathbf{2 0 0 2}$ | 8717 | 2187 | 30 | 10934 |
| $\mathbf{2 0 0 3}$ | 10073 | 2689 | 30 | 12792 |
| $\mathbf{2 0 0 4}$ | 8720 | 2312 | 25 | 11057 |
| $\mathbf{2 0 0 5}$ | 10172 | 2770 | 33 | 12975 |
| $\mathbf{2 0 0 6}$ | 9335 | 2348 | 26 | 11709 |
| $\mathbf{2 0 0 7}$ | 8805 | 2004 | 27 | 10836 |
| Total | 73086 | 18577 | 211 | 91874 |


| year | chkbeg.3 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | beg. supposed <br> and valid date <br> beg. | no valid date <br> beg. while <br> supposed beg. |  |
| $\mathbf{2 0 0 0}$ | 9816 | 417 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 10875 | 460 | 3 | 11338 |
| $\mathbf{2 0 0 2}$ | 10482 | 449 | 3 | 10934 |
| $\mathbf{2 0 0 3}$ | 12152 | 632 | 8 | 12792 |
| $\mathbf{2 0 0 4}$ | 10546 | 506 | 5 | 11057 |
| $\mathbf{2 0 0 5}$ | 12307 | 661 | 7 | 12975 |
| $\mathbf{2 0 0 6}$ | 11161 | 542 | 6 | 11709 |
| $\mathbf{2 0 0 7}$ | 10375 | 459 | 2 | 10836 |
| Total | 87714 | 4126 | 34 | 91874 |


| year | chkbeg.4 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | beg. supposed <br> and valid date <br> beg. | no valid date <br> beg. while <br> supposed beg. |  |
| $\mathbf{2 0 0 0}$ | 10159 | 73 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 11257 | 80 | 1 | 11338 |
| $\mathbf{2 0 0 2}$ | 10862 | 72 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12665 | 127 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 10966 | 90 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12869 | 106 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11611 | 97 | 1 | 11709 |
| $\mathbf{2 0 0 7}$ | 10747 | 89 | 0 | 10836 |
| Total | 91136 | 734 | 4 | 91874 |


| year | chkbeg. |  |  | Total |
| :---: | :---: | ---: | ---: | :---: |
|  | missing | beg. supposed <br> and valid date <br> beg. | no valid date <br> beg. while <br> supposed beg. |  |
| $\mathbf{2 0 0 0}$ | 10223 | 10 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11327 | 11 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10922 | 12 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12775 | 17 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 11044 | 13 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12963 | 12 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11697 | 12 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10826 | 9 | 1 | 10836 |
| Total | 91777 | 96 | 1 | 91874 |

Tables PH13b

| year | chkend1 |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | :---: |
|  | missing | end declared <br> and valid <br> date end | no valid date <br> end while <br> declared end | no end <br> declared <br> but valid <br> end date |  |
| $\mathbf{2 0 0 0}$ | 7078 | 2990 | 131 | 34 | 10233 |
| $\mathbf{2 0 0 1}$ | 7923 | 3231 | 150 | 34 | 11338 |
| $\mathbf{2 0 0 2}$ | 7556 | 3230 | 112 | 36 | 10934 |
| $\mathbf{2 0 0 3}$ | 8740 | 3885 | 114 | 53 | 12792 |
| $\mathbf{2 0 0 4}$ | 7671 | 3316 | 70 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 8866 | 4011 | 94 | 4 | 12975 |
| $\mathbf{2 0 0 6}$ | 8312 | 3317 | 78 | 2 | 11709 |
| $\mathbf{2 0 0 7}$ | 7872 | 2877 | 84 | 3 | 10836 |
| Total | 64018 | 26857 | 833 | 166 | 91874 |


| year | chkend2 |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | ---: |
|  | missing | end declared <br> and valid <br> date end | no valid date <br> end while <br> declared end | no end <br> declared <br> but valid <br> end date |  |
| $\mathbf{2 0 0 0}$ | 9455 | 698 | 65 | 15 | 10233 |
| $\mathbf{2 0 0 1}$ | 10529 | 742 | 51 | 16 | 11338 |
| $\mathbf{2 0 0 2}$ | 10096 | 788 | 40 | 10 | 10934 |
| $\mathbf{2 0 0 3}$ | 11687 | 1025 | 49 | 31 | 12792 |
| $\mathbf{2 0 0 4}$ | 10179 | 856 | 20 | 2 | 11057 |
| $\mathbf{2 0 0 5}$ | 11850 | 1092 | 30 | 3 | 12975 |
| $\mathbf{2 0 0 6}$ | 10785 | 882 | 38 | 4 | 11709 |
| $\mathbf{2 0 0 7}$ | 10055 | 751 | 29 | 1 | 10836 |
| Total | 84636 | 6834 | 322 | 82 | 91874 |


| year | chkend3 |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | :---: |
|  | missing | end declared <br> and valid <br> date end | no valid date <br> end while <br> declared end | no end <br> declared <br> but valid <br> end date |  |
| $\mathbf{2 0 0 0}$ | 10041 | 169 | 13 | 10 | 10233 |
| $\mathbf{2 0 0 1}$ | 11146 | 176 | 12 | 4 | 11338 |
| $\mathbf{2 0 0 2}$ | 10755 | 162 | 13 | 4 | 10934 |
| $\mathbf{2 0 0 3}$ | 12512 | 256 | 13 | 11 | 12792 |
| $\mathbf{2 0 0 4}$ | 10851 | 199 | 6 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12692 | 269 | 12 | 2 | 12975 |
| $\mathbf{2 0 0 6}$ | 11472 | 221 | 16 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10625 | 192 | 18 | 1 | 10836 |
| Total | 90094 | 1644 | 103 | 33 | 91874 |


| year | chkend4 |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | :---: |
|  | missing | end declared <br> and valid <br> date end | no valid date <br> end while <br> declared end | no end <br> declared <br> but valid <br> end date |  |
| $\mathbf{2 0 0 0}$ | 10206 | 24 | 3 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11306 | 27 | 4 | 1 | 11338 |
| $\mathbf{2 0 0 2}$ | 10909 | 24 | 1 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12745 | 43 | 3 | 1 | 12792 |
| $\mathbf{2 0 0 4}$ | 11019 | 34 | 4 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12937 | 37 | 1 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11673 | 34 | 2 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10806 | 27 | 3 | 0 | 10836 |
| Total | 91601 | 250 | 21 | 2 | 91874 |


| year | chkend5 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | end declared <br> and valid date <br> end | no end <br> declared but <br> valid end date |  |
| $\mathbf{2 0 0 0}$ | 10232 | 1 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11338 | 0 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10931 | 3 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12787 | 4 | 1 | 12792 |
| $\mathbf{2 0 0 4}$ | 11053 | 4 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12974 | 1 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11708 | 1 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10834 | 2 | 0 | 10836 |
| Total | 91857 | 16 | 1 | 91874 |

## Postcheck 14

Check the order of the component dates of the relationships within the respondent's entire relationship history (including marriages and free-standing cohabitations).

- Table PH14 gives the data before re-ordering in which ordstrtv, ordmav and ordendlvv represent the start dates, marriage dates and end dates prior to reordering.
- Table PH14c gives the corresponding data following reordering, with ordstrt, ordma and ordendlv representing start date, marriage dates and end dates after re-ordering.

Note that the numbers "out of sequence" or "missing in the middle" vary according to whether the consistency of the start, or end, or marriage date is tabulated.

Because we have ordered these according to the minimum date within each history, those with a missing date can be identified as in the middle by some date within that partnership slot.

The number of "missings in the middle" in ordma of table PH14c is large, because some of these partnerships are not marriages, and so the marriage dates are absent.

Note that end dates for marriages are based on date of separation rather than date of divorce, as divorce dates appear to have more errors associated with them.

The "missing" column includes the persons who have not declared any date of start of relationship, marriage, etc.

Tables PH14

| year | ordstrtv |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 2157 | 7605 | 21 | 450 | 10233 |
| $\mathbf{2 0 0 1}$ | 2480 | 8382 | 24 | 452 | 11338 |
| $\mathbf{2 0 0 2}$ | 2488 | 7911 | 36 | 499 | 10934 |
| $\mathbf{2 0 0 3}$ | 2883 | 9250 | 53 | 606 | 12792 |
| $\mathbf{2 0 0 4}$ | 2739 | 7745 | 32 | 541 | 11057 |
| $\mathbf{2 0 0 5}$ | 2966 | 9305 | 30 | 674 | 12975 |
| $\mathbf{2 0 0 6}$ | 2937 | 8158 | 30 | 584 | 11709 |
| $\mathbf{2 0 0 7}$ | 3080 | 7217 | 19 | 520 | 10836 |
| Total | 21730 | 65573 | 245 | 4326 | 91874 |


| year | ordmav |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 3470 | 6758 | 4 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 3989 | 7338 | 11 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 4018 | 6910 | 6 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 4772 | 8008 | 12 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 4393 | 6654 | 10 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 4915 | 8052 | 8 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 4688 | 7013 | 6 | 2 | 11709 |
| $\mathbf{2 0 0 7}$ | 4682 | 6150 | 3 | 1 | 10836 |
| Total | 34927 | 56883 | 60 | 4 | 91874 |


| year | ordendlvv |  |  |  | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 7191 | 2580 | 380 | 82 | 10233 |
| $\mathbf{2 0 0 1}$ | 8059 | 2806 | 385 | 88 | 11338 |
| $\mathbf{2 0 0 2}$ | 7660 | 2764 | 421 | 89 | 10934 |
| $\mathbf{2 0 0 3}$ | 8841 | 3325 | 509 | 117 | 12792 |
| $\mathbf{2 0 0 4}$ | 7723 | 2771 | 463 | 100 | 11057 |
| $\mathbf{2 0 0 5}$ | 8945 | 3349 | 575 | 106 | 12975 |
| $\mathbf{2 0 0 6}$ | 8365 | 2738 | 492 | 114 | 11709 |
| $\mathbf{2 0 0 7}$ | 7931 | 2368 | 436 | 101 | 10836 |
| Total | 64715 | 22701 | 3661 | 797 | 91874 |

Tables PH14c

| year | ordstrt |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 2157 | 8056 | 19 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 2480 | 8829 | 29 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 2488 | 8408 | 37 | 1 | 10934 |
| $\mathbf{2 0 0 3}$ | 2883 | 9850 | 59 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 2739 | 8286 | 31 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 2966 | 9977 | 31 | 1 | 12975 |
| $\mathbf{2 0 0 6}$ | 2937 | 8745 | 26 | 1 | 11709 |
| $\mathbf{2 0 0 7}$ | 3080 | 7738 | 17 | 1 | 10836 |
| Total | 21730 | 69889 | 249 | 6 | 91874 |


| year | ordma |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 3470 | 6305 | 457 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 3989 | 6876 | 471 | 2 | 11338 |
| $\mathbf{2 0 0 2}$ | 4018 | 6406 | 508 | 2 | 10934 |
| $\mathbf{2 0 0 3}$ | 4772 | 7404 | 614 | 2 | 12792 |
| $\mathbf{2 0 0 4}$ | 4393 | 6139 | 523 | 2 | 11057 |
| $\mathbf{2 0 0 5}$ | 4915 | 7387 | 670 | 3 | 12975 |
| $\mathbf{2 0 0 6}$ | 4688 | 6447 | 572 | 2 | 11709 |
| $\mathbf{2 0 0 7}$ | 4682 | 5649 | 503 | 2 | 10836 |
| Total | 34927 | 52613 | 4318 | 16 | 91874 |


| year | ordendlv |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 7191 | 3010 | 22 | 10 | 10233 |
| $\mathbf{2 0 0 1}$ | 8059 | 3244 | 18 | 17 | 11338 |
| $\mathbf{2 0 0 2}$ | 7660 | 3235 | 13 | 26 | 10934 |
| $\mathbf{2 0 0 3}$ | 8841 | 3889 | 33 | 29 | 12792 |
| $\mathbf{2 0 0 4}$ | 7723 | 3280 | 21 | 33 | 11057 |
| $\mathbf{2 0 0 5}$ | 8945 | 3969 | 29 | 32 | 12975 |
| $\mathbf{2 0 0 6}$ | 8365 | 3289 | 36 | 19 | 11709 |
| $\mathbf{2 0 0 7}$ | 7931 | 2857 | 31 | 17 | 10836 |
| Total | 64715 | 26773 | 203 | 183 | 91874 |

## Postcheck 15

We look here at three relationships only as the tables are confined to cohabitations. The corresponding tables for the relationships including a marriage are in the MH series of tables, below.
This check looks to see whether there is a valid year of start of cohabitation and where this is not the case, whether some end date for this relationship is present.
"Missing" is used when there is neither a start date, nor an end date.
Tables PH15

| year | varcoh1 |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | year <br> cohabitation <br> present | no yr cohab <br> but yr end rel | no yr cohab <br> but yr stop <br> liv tgth |  |
| $\mathbf{2 0 0 0}$ | 8947 | 1278 | 4 | 4 | 10233 |
| $\mathbf{2 0 0 1}$ | 9998 | 1330 | 8 | 2 | 11338 |
| $\mathbf{2 0 0 2}$ | 9478 | 1453 | 3 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 10902 | 1848 | 13 | 29 | 12792 |
| $\mathbf{2 0 0 4}$ | 9518 | 1531 | 2 | 6 | 11057 |
| $\mathbf{2 0 0 5}$ | 11076 | 1897 | 1 | 1 | 12975 |
| $\mathbf{2 0 0 6}$ | 10156 | 1549 | 2 | 2 | 11709 |
| $\mathbf{2 0 0 7}$ | 9495 | 1336 | 4 | 1 | 10836 |
| Total | 79570 | 12222 | 37 | 45 | 91874 |


| year | varcoh2 |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | year <br> cohabitation <br> present | no yr cohab <br> but yr end rel | no yr cohab <br> but yr stop <br> liv tgth |  |
| $\mathbf{2 0 0 0}$ | 9937 | 296 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11018 | 320 | 0 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10592 | 342 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12295 | 493 | 0 | 4 | 12792 |
| $\mathbf{2 0 0 4}$ | 10703 | 352 | 1 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12478 | 496 | 0 | 1 | 12975 |
| $\mathbf{2 0 0 6}$ | 11300 | 406 | 2 | 1 | 11709 |
| $\mathbf{2 0 0 7}$ | 10504 | 330 | 2 | 0 | 10836 |
| Total | 88827 | 3035 | 5 | 7 | 91874 |


| year | varcoh3 |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | year <br> cohabitation <br> present | no yr cohab <br> but yr end rel | no yr cohab <br> but yr stop <br> liv tgth |  |
| $\mathbf{2 0 0 0}$ | 10151 | 82 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11255 | 80 | 3 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10865 | 69 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12674 | 118 | 0 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 10968 | 88 | 1 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12836 | 137 | 0 | 2 | 12975 |
| $\mathbf{2 0 0 6}$ | 11604 | 102 | 0 | 3 | 11709 |
| $\mathbf{2 0 0 7}$ | 10750 | 86 | 0 | 0 | 10836 |
| Total | 91103 | 762 | 4 | 5 | 91874 |

## Postcheck 16

Check the order of the beginning and end (if exists) within each relationship after the corrections, and if they exist, of premarital cohabitation and marriage, and of separation and divorce.

Note that the column giving the end date greater than divorce date is provided here for information but these are not flagged as errors, because we do not place much reliance on the divorce dates.

The column 'missing' includes those who did not report any start date for this relationship order.

The cases identified in the 'beg date>=end date' column are not edited further since it seems likely that one or other date was mistaken.

We note that relatively high proportions of partnerships of order 3 and 4 have an end date earlier than the beginning date.

Tables PH16

| year | chkin1 |  |  |  |  | Total |
| :--- | ---: | ---: | ---: | :---: | ---: | :---: |
|  | missing | no <br> problem | beg <br> date>=end <br> date | pre mar coh <br> date>mar <br> date | end <br> date>div <br> date |  |
| $\mathbf{2 0 0 0}$ | 2171 | 8015 | 20 | 1 | 26 | 10233 |
| $\mathbf{2 0 0 1}$ | 2502 | 8791 | 21 | 0 | 24 | 11338 |
| $\mathbf{2 0 0 2}$ | 2517 | 8369 | 27 | 0 | 21 | 10934 |
| $\mathbf{2 0 0 3}$ | 2926 | 9785 | 30 | 0 | 51 | 12792 |
| $\mathbf{2 0 0 4}$ | 2763 | 8235 | 24 | 0 | 35 | 11057 |
| $\mathbf{2 0 0 5}$ | 2988 | 9926 | 29 | 0 | 32 | 12975 |
| $\mathbf{2 0 0 6}$ | 2960 | 8691 | 28 | 0 | 30 | 11709 |
| $\mathbf{2 0 0 7}$ | 3100 | 7692 | 21 | 0 | 23 | 10836 |
| Total | 21927 | 69504 | 200 | 1 | 242 | 91874 |


| year | chkin2 |  |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | :--- |
|  | missing | no <br> problem | beg <br> date>=end <br> date | pre mar coh <br> date>mar <br> date | end <br> date>div <br> date |  |
| $\mathbf{2 0 0 0}$ | 8177 | 2044 | 7 | 1 | 4 | 10233 |
| $\mathbf{2 0 0 1}$ | 9127 | 2199 | 10 | 0 | 2 | 11338 |
| $\mathbf{2 0 0 2}$ | 8747 | 2173 | 11 | 0 | 3 | 10934 |
| $\mathbf{2 0 0 3}$ | 10103 | 2661 | 21 | 0 | 7 | 12792 |
| $\mathbf{2 0 0 4}$ | 8745 | 2299 | 12 | 0 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 10205 | 2754 | 11 | 0 | 5 | 12975 |
| $\mathbf{2 0 0 6}$ | 9361 | 2328 | 11 | 1 | 8 | 11709 |
| $\mathbf{2 0 0 7}$ | 8832 | 1988 | 11 | 4 | 4 | 10836 |
| Total | 73297 | 18446 | 94 | 3 | 34 | 91874 |


| year | chkin3 |  |  |  |  | Total |
| :---: | ---: | ---: | ---: | :---: | :---: | :---: |
|  | missing | no <br> problem | beg <br> date>=end <br> date | pre mar coh <br> date>mar <br> date | end <br> date>div <br> date |  |
| $\mathbf{2 0 0 0}$ | 9816 | 410 | 6 | 1 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 10878 | 457 | 1 | 0 | 2 | 11338 |
| $\mathbf{2 0 0 2}$ | 10485 | 446 | 3 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12160 | 622 | 10 | 0 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 10551 | 501 | 4 | 0 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12314 | 655 | 6 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11167 | 539 | 3 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10377 | 452 | 7 | 0 | 0 | 10836 |
| Total | 87748 | 4082 | 40 | 1 | 3 | 91874 |


| year | chkin4 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | no problem | beg <br> date>=end <br> date |  |
| $\mathbf{2 0 0 0}$ | 10160 | 73 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11258 | 80 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10862 | 72 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12665 | 127 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 10967 | 88 | 2 | 11057 |
| $\mathbf{2 0 0 5}$ | 12869 | 106 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11612 | 97 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10747 | 89 | 0 | 10836 |
| Total | 91140 | 732 | 2 | 91874 |

Tables PH16d: Proportion with beg date>=end date, by partnership order (in \%)

|  | Partnership order |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| year | 1 | 2 | 3 | 4 |
| 2000 | 0.67 | 0.99 | 3.35 | 0.00 |
| 2001 | 0.65 | 1.33 | 0.56 | 0.00 |
| 2002 | 0.83 | 1.39 | 1.82 | 0.00 |
| 2003 | 0.77 | 2.02 | 3.80 | 0.00 |
| 2004 | 0.73 | 1.42 | 2.04 | 6.06 |
| 2005 | 0.73 | 1.02 | 2.25 | 0.00 |
| 2006 | 0.91 | 1.25 | 1.38 | 0.00 |
| 2007 | 0.73 | 1.48 | 3.63 | 0.00 |

Tables PH16d: Proportion with pre mar coh date>mar date, by partnership order (in \%)

|  | Partnership order |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| year | 1 | 2 | 3 | 4 |
| 2000 | 0.02 | 0.08 | 0.48 | 0.00 |
| 2001 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2002 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2003 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2004 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2005 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2006 | 0.00 | 0.08 | 0.00 | 0.00 |
| 2007 | 0.00 | 0.09 | 0.00 | 0.00 |

Tables PH16d: Proportion with end date>div date, by partnership order (in \%)

|  | Partnership order |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| year | 1 | 2 | 3 | 4 |
| 2000 | 1.68 | 1.83 | 0.00 | 0.00 |
| 2001 | 1.44 | 0.87 | 4.76 | 0.00 |
| 2002 | 1.35 | 1.30 | 0.00 | 0.00 |
| 2003 | 2.68 | 2.56 | 0.00 | 0.00 |
| 2004 | 2.13 | 0.41 | 4.00 | 0.00 |
| 2005 | 1.64 | 1.78 | 0.00 | 0.00 |
| 2006 | 1.83 | 3.38 | 0.00 | 0.00 |
| 2007 | 1.58 | 2.01 | 0.00 | 0.00 |

## Postcheck 17

Note that to appear in anything other than the missing column of table PH17, a person must have had at least two relationships.
In these cases, we ask whether we have the elements of the $\mathrm{i}^{\text {th }}$ relationship and did they all happen before the beginning of the $i+1^{\text {th }}$ ?
Note that the column on divorce date is provided here for information but these are not flagged as errors, because we do not place much reliance on the divorce dates.
At present, we do not see that there is a straightforward defensible edit that can be applied to the cases that have no end date for i but a start date for $\mathrm{i}+1$.
In relation to end date $i$ greater than start date $i+1$, these would be considered in the overlap checks PH 18 etc.

Tables PH17

| year | chkout1 |  |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | missing | start date <br> for $\mathbf{i}+\mathbf{1}$, no <br> problem | start date <br> for $\mathbf{i}+\mathbf{1}$ but <br> not for $\mathbf{i}$ | start date <br> for $\mathbf{i}+\mathbf{1}$ but <br> no end <br> date for $\mathbf{i}$ | end date <br> i>start <br> date $\mathbf{i + 1}$ |  |
| $\mathbf{2 0 0 0}$ | 8177 | 1920 | 14 | 42 | 80 | 10233 |
| $\mathbf{2 0 0 1}$ | 9127 | 2071 | 17 | 41 | 82 | 11338 |
| $\mathbf{2 0 0 2}$ | 8747 | 2037 | 24 | 37 | 89 | 10934 |
| $\mathbf{2 0 0 3}$ | 10103 | 2501 | 41 | 40 | 107 | 12792 |
| $\mathbf{2 0 0 4}$ | 8745 | 2159 | 20 | 34 | 99 | 11057 |
| $\mathbf{2 0 0 5}$ | 10205 | 2583 | 16 | 37 | 134 | 12975 |
| $\mathbf{2 0 0 6}$ | 9361 | 2157 | 19 | 59 | 113 | 11709 |
| $\mathbf{2 0 0 7}$ | 8832 | 1831 | 9 | 58 | 106 | 10836 |
| Total | 73297 | 17259 | 160 | 348 | 810 | 91874 |


| year | chkout2 |  |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: |
|  | missing | start date <br> for $\mathbf{i}+\mathbf{1}$, no <br> problem | start date <br> for $\mathbf{i}+\mathbf{1}$ but <br> not for $\mathbf{i}$ | start date <br> for $\mathbf{i}+\mathbf{1}$ but <br> no end <br> date for $\mathbf{i}$ | end date <br> i>start <br> date $\mathbf{i}+\mathbf{1}$ |  |
| $\mathbf{2 0 0 0}$ | 9816 | 382 | 2 | 8 | 25 | 10233 |
| $\mathbf{2 0 0 1}$ | 10878 | 418 | 6 | 5 | 31 | 11338 |
| $\mathbf{2 0 0 2}$ | 10485 | 401 | 5 | 10 | 33 | 10934 |
| $\mathbf{2 0 0 3}$ | 12160 | 557 | 11 | 23 | 41 | 12792 |
| $\mathbf{2 0 0 4}$ | 10551 | 452 | 6 | 10 | 38 | 11057 |
| $\mathbf{2 0 0 5}$ | 12314 | 585 | 6 | 16 | 54 | 12975 |
| $\mathbf{2 0 0 6}$ | 11167 | 477 | 1 | 22 | 42 | 11709 |
| $\mathbf{2 0 0 7}$ | 10377 | 411 | 3 | 19 | 26 | 10836 |
| Total | 87748 | 3683 | 40 | 113 | 290 | 91874 |


| year | chkout3 |  |  |  |  | Total |
| :--- | :--- | ---: | ---: | ---: | ---: | :---: |
|  | missing | start date <br> for $\mathbf{i}+\mathbf{1}$, no <br> problem | start date <br> for $\mathbf{i}+\mathbf{1}$ but <br> not for $\mathbf{i}$ | start date <br> for $\mathbf{i}+\mathbf{1}$ but <br> no end <br> date for $\mathbf{i}$ | end date <br> i>start <br> date $\mathbf{i + 1}$ |  |
| $\mathbf{2 0 0 0}$ | 10160 | 66 | 0 | 1 | 6 | 10233 |
| $\mathbf{2 0 0 1}$ | 11258 | 74 | 0 | 2 | 4 | 11338 |
| $\mathbf{2 0 0 2}$ | 10862 | 65 | 1 | 1 | 5 | 10934 |
| $\mathbf{2 0 0 3}$ | 12665 | 106 | 3 | 8 | 10 | 12792 |
| $\mathbf{2 0 0 4}$ | 10967 | 76 | 2 | 4 | 8 | 11057 |
| $\mathbf{2 0 0 5}$ | 12869 | 93 | 3 | 0 | 10 | 12975 |
| $\mathbf{2 0 0 6}$ | 11612 | 82 | 3 | 5 | 7 | 11709 |
| $\mathbf{2 0 0 7}$ | 10747 | 77 | 0 | 3 | 9 | 10836 |
| Total | 91140 | 639 | 12 | 24 | 59 | 91874 |


| year | chkout4 |  |  |  |  | Total |
| :--- | :--- | ---: | ---: | ---: | ---: | :---: |
|  | missing | start date <br> for $\mathbf{i}+\mathbf{1 , ~ n o ~}$ <br> problem | start date <br> for $\mathbf{i}+\mathbf{1}$ but <br> not for $\mathbf{i}$ | start date <br> for $\mathbf{i}+\mathbf{1}$ but <br> no end <br> date for $\mathbf{i}$ | end date <br> i>start <br> date $\mathbf{i}+\mathbf{1}$ |  |
| $\mathbf{2 0 0 0}$ | 10223 | 10 | 0 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11327 | 9 | 1 | 1 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10922 | 12 | 0 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12775 | 14 | 0 | 0 | 3 | 12792 |
| $\mathbf{2 0 0 4}$ | 11044 | 13 | 0 | 0 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12963 | 10 | 0 | 1 | 1 | 12975 |
| $\mathbf{2 0 0 6}$ | 11697 | 11 | 0 | 0 | 1 | 11709 |
| $\mathbf{2 0 0 7}$ | 10827 | 8 | 0 | 0 | 1 | 10836 |
| Total | 91778 | 87 | 1 | 2 | 6 | 91874 |

## Postcheck 18

These tables show the number of partnerships that are overlapping each other before/after correction. The corrections are small edits based on the visual inspection of cases with errors. PH18 gives the figures prior to these edits whilst PH18c gives figures following those minor edits.

Tables PH18 before corrections

| Overlapping union 1 and 2 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | $\%$ yes/no |
| 2000 | 1934 | 88 | $4.4 \%$ |
| 2001 | 2088 | 84 | $3.9 \%$ |
| 2002 | 2061 | 91 | $4.2 \%$ |
| 2003 | 2542 | 111 | $4.2 \%$ |
| 2004 | 2179 | 103 | $4.5 \%$ |
| 2005 | 2599 | 145 | $5.3 \%$ |
| 2006 | 2177 | 117 | $5.1 \%$ |
| 2007 | 1841 | 117 | $6.0 \%$ |
| Total | 17421 | 856 | $4.7 \%$ |


| Overlapping union 2 and 3 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | $\%$ yes/no |
| 2000 | 384 | 25 | $6.1 \%$ |
| 2001 | 424 | 31 | $6.8 \%$ |
| 2002 | 406 | 34 | $7.7 \%$ |
| 2003 | 568 | 41 | $6.7 \%$ |
| 2004 | 458 | 38 | $7.7 \%$ |
| 2005 | 593 | 54 | $8.3 \%$ |
| 2006 | 478 | 43 | $8.3 \%$ |
| 2007 | 414 | 26 | $5.9 \%$ |
| Total | 3725 | 292 | $7.3 \%$ |


| Overlapping union 3 and 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | $\%$ yes/no |
| 2000 | 66 | 6 | $8.3 \%$ |
| 2001 | 74 | 4 | $5.1 \%$ |
| 2002 | 66 | 5 | $7.0 \%$ |
| 2003 | 109 | 10 | $8.4 \%$ |
| 2004 | 78 | 8 | $9.3 \%$ |
| 2005 | 96 | 10 | $9.4 \%$ |
| 2006 | 85 | 7 | $7.6 \%$ |
| 2007 | 77 | 9 | $10.5 \%$ |
| Total | 651 | 59 | $8.3 \%$ |


| Overlapping union 4 and 5 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | \% yes/no |
| 2000 | 10 | 0 | $0.0 \%$ |
| 2001 | 10 | 0 | $0.0 \%$ |
| 2002 | 12 | 0 | $0.0 \%$ |
| 2003 | 14 | 3 | $17.6 \%$ |
| 2004 | 13 | 0 | $0.0 \%$ |
| 2005 | 10 | 1 | $9.1 \%$ |
| 2006 | 11 | 1 | $8.3 \%$ |
| 2007 | 8 | 2 | $20.0 \%$ |
| Total | 88 | 7 | $7.4 \%$ |

Tables PH18c after correction

| Overlapping partnership 1 and 2 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | $\%$ yes |
| 2000 | 1934 | 80 | $4.0 \%$ |
| 2001 | 2088 | 82 | $3.8 \%$ |
| 2002 | 2061 | 89 | $4.1 \%$ |
| 2003 | 2542 | 107 | $4.0 \%$ |
| 2004 | 2179 | 99 | $4.3 \%$ |
| 2005 | 2599 | 134 | $4.9 \%$ |
| 2006 | 2176 | 113 | $4.9 \%$ |
| 2007 | 1840 | 106 | $5.4 \%$ |
| Total | 17419 | 810 | $4.4 \%$ |


| Overlapping partnership 2 and 3 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | $\%$ yes |
| 2000 | 384 | 25 | $6.1 \%$ |
| 2001 | 424 | 31 | $6.8 \%$ |
| 2002 | 406 | 33 | $7.5 \%$ |
| 2003 | 568 | 41 | $6.7 \%$ |
| 2004 | 458 | 38 | $7.7 \%$ |
| 2005 | 591 | 54 | $8.4 \%$ |
| 2006 | 478 | 42 | $8.1 \%$ |
| 2007 | 414 | 26 | $5.9 \%$ |
| Total | 3723 | 290 | $7.2 \%$ |


| Overlapping partnership 3 and 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | \% yes |
| 2000 | 66 | 6 | $8.3 \%$ |
| 2001 | 74 | 4 | $5.1 \%$ |
| 2002 | 66 | 5 | $7.0 \%$ |
| 2003 | 109 | 10 | $8.4 \%$ |
| 2004 | 78 | 8 | $9.3 \%$ |
| 2005 | 96 | 10 | $9.4 \%$ |
| 2006 | 85 | 7 | $7.6 \%$ |
| 2007 | 77 | 9 | $10.5 \%$ |
| Total | 651 | 59 | $8.3 \%$ |


| Overlapping partnership 4 and 5 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | $\%$ yes |
| 2000 | 10 | 0 | $0.0 \%$ |
| 2001 | 10 | 0 | $0.0 \%$ |
| 2002 | 12 | 0 | $0.0 \%$ |
| 2003 | 14 | 3 | $17.6 \%$ |
| 2004 | 13 | 0 | $0.0 \%$ |
| 2005 | 10 | 1 | $9.1 \%$ |
| 2006 | 11 | 1 | $8.3 \%$ |
| 2007 | 8 | 1 | $11.1 \%$ |
| Total | 88 | 6 | $6.4 \%$ |

## Postcheck 19

These tables show whether the person has declared two partnerships with the same beginning or/and end dates.
The following tables include only individuals who have at least two partnerships.
Before the construction of these tables, the following edit was made for respondents who have exactly the same beginning and end date for their first relationship and another one:

- where the relationships involved are two cohabitations: we delete one of these relationships.
- where one of the relationships is a marriage no action is taken.

As a matter of fact, the "other" relationship is always of order 2.
The five cases remaining with a same beginning and end dates involve a cohabitation with a marriage.

Tables PH19 before correction

| Same beginning and/or end in partnership 1 compared with <br> others |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| year | different beg <br> and ends | same beg | same end | same beg <br> and end |
| 2000 | 8069 | 10 | 4 | 0 |
| 2001 | 8863 | 2 | 0 | 0 |
| 2002 | 8439 | 5 | 4 | 0 |
| 2003 | 9909 | 11 | 7 | 0 |
| 2004 | 8317 | 7 | 2 | 1 |
| 2005 | 9994 | 15 | 3 | 0 |
| 2006 | 8765 | 9 | 3 | 1 |
| 2007 | 7737 | 12 | 5 | 5 |
| Total | 70093 | 71 | 28 | 7 |


| Same beginning and/or end in partnership 2 <br> compared with others |  |  |  |
| :---: | :---: | :---: | :---: |
| year | different beg <br> and ends | same beg | same end |
| 2000 | 2068 | 2 | 0 |
| 2001 | 2219 | 1 | 1 |
| 2002 | 2193 | 2 | 2 |
| 2003 | 2699 | 10 | 2 |
| 2004 | 2325 | 2 | 2 |
| 2005 | 2781 | 9 | 3 |
| 2006 | 2354 | 6 | 1 |
| 2007 | 2014 | 5 | 0 |
| Total | 18653 | 37 | 11 |


| Same beginning and/or end in partnership 3 <br> compared with others |  |  |  |
| :---: | :---: | :---: | :---: |
| year | different beg <br> and ends | same beg | same end |
| 2000 | 417 | 0 | 0 |
| 2001 | 461 | 0 | 1 |
| 2002 | 450 | 1 | 0 |
| 2003 | 637 | 2 | 1 |
| 2004 | 509 | 1 | 0 |
| 2005 | 665 | 2 | 0 |
| 2006 | 544 | 2 | 0 |
| 2007 | 458 | 1 | 0 |
| Total | 4141 | 9 | 2 |

Tables PH19c after correction

| Same beginning and/or end in partnership 1 <br> compared with others |  |  |  |
| :---: | :---: | :---: | :---: |
|  | different beg <br> and ends | same beg | same end |
| year | 8077 | 2 | 4 |
| 2000 | 8865 | 0 | 0 |
| 2002 | 8441 | 3 | 4 |
| 2003 | 9913 | 7 | 7 |
| 2004 | 8321 | 3 | 2 |
| 2005 | 10005 | 4 | 3 |
| 2006 | 8770 | 4 | 3 |
| 2007 | 7744 | 5 | 5 |
| Total | 70136 | 28 | 28 |


| Same beginning and/or end in partnership 2 <br> compared with others |  |  |  |
| :---: | :---: | :---: | :---: |
| year | different beg <br> and ends | same beg | same end |
| 2000 | 2060 | 2 | 0 |
| 2001 | 2217 | 1 | 1 |
| 2002 | 2192 | 1 | 2 |
| 2003 | 2699 | 6 | 2 |
| 2004 | 2321 | 2 | 2 |
| 2005 | 2772 | 7 | 3 |
| 2006 | 2350 | 5 | 1 |
| 2007 | 2007 | 5 | 0 |
| Total | 18618 | 29 | 11 |


| Same beginning and/or end in partnership 3 <br> compared with others |  |  |  |
| :---: | :---: | :---: | :---: |
|  | different beg <br> and ends | same beg | same end |
| year | 417 | 0 | 0 |
| 2000 | 461 | 0 | 1 |
| 2001 | 449 | 1 | 0 |
| 2002 | 633 | 2 | 1 |
| 2003 | 509 | 1 | 0 |
| 2004 | 663 | 2 | 0 |
| 2005 | 543 | 2 | 0 |
| 2006 | 458 | 1 | 0 |
| 2007 | 4133 | 9 | 2 |
| Total |  |  |  |

## Classification of errors 21

This check examines the frequencies of erroneous partnership histories. partq1partqn given the checks internal to each partnership spell of each individual. partqual corresponds to the overall quality of the partnership history: only one such variable is derived for each individual.
The check only looks at beginning and end of partnerships, and does not check any intermediate or following event like marriage and divorce.

| code | meaning | date in spell $n$ | beg date | end date | order ok |
| :---: | :--- | :---: | :---: | :---: | :---: |
| 0 | no date present in the spell | no |  |  |  |
| 1 | no problem | yes | yes | (yes) | yes |
| 2 | OK after editing | yes | yes edited | yes edited | yes edited |
| 3 | partially OK | yes | yes | no | yes |
| 4 | error | yes | no |  | OR no |
| -9 | DNA: not eligible FI, proxy |  |  |  |  |

## Explanation:

Code 1 "no problem": when the partnership has at least a beginning date, an end date (if this applies) and that the end date>beginning date.
Code 2: where code 1 applies but that at least one of the dates present has been edited
Code 3: where a beginning date is present but an end date which should be present is missing
Code 4 : missing beginning date or beginning and end date out of sequence
Tables PH21

| year | partq1 |  |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | no date <br> present <br> in the <br> spell | no <br> problem | ok after <br> editing | partially <br> ok | error |  |
| $\mathbf{2 0 0 0}$ | 2138 | 7947 | 10 | 104 | 34 | 10233 |
| $\mathbf{2 0 0 1}$ | 2440 | 8715 | 5 | 120 | 58 | 11338 |
| $\mathbf{2 0 0 2}$ | 2447 | 8340 | 8 | 69 | 70 | 10934 |
| $\mathbf{2 0 0 3}$ | 2837 | 9771 | 14 | 85 | 85 | 12792 |
| $\mathbf{2 0 0 4}$ | 2664 | 8257 | 6 | 32 | 98 | 11057 |
| $\mathbf{2 0 0 5}$ | 2925 | 9907 | 12 | 66 | 65 | 12975 |
| $\mathbf{2 0 0 6}$ | 2911 | 8684 | 10 | 50 | 54 | 11709 |
| $\mathbf{2 0 0 7}$ | 3050 | 7684 | 10 | 44 | 48 | 10836 |
| Total | 21412 | 69305 | 75 | 570 | 512 | 91874 |


| year | partq2 |  |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | no date <br> present <br> in the <br> spell | no <br> problem | ok after <br> editing | partially <br> ok | error |  |
| $\mathbf{2 0 0 0}$ | 8159 | 2028 | 9 | 29 | 8 | 10233 |
| $\mathbf{2 0 0 1}$ | 9105 | 2182 | 9 | 23 | 19 | 11338 |
| $\mathbf{2 0 0 2}$ | 8717 | 2181 | 1 | 8 | 27 | 10934 |
| $\mathbf{2 0 0 3}$ | 10073 | 2664 | 12 | 18 | 25 | 12792 |
| $\mathbf{2 0 0 4}$ | 8720 | 2302 | 7 | 7 | 21 | 11057 |
| $\mathbf{2 0 0 5}$ | 10172 | 2777 | 2 | 7 | 17 | 12975 |
| $\mathbf{2 0 0 6}$ | 9335 | 2344 | 5 | 9 | 16 | 11709 |
| $\mathbf{2 0 0 7}$ | 8805 | 2000 | 7 | 4 | 20 | 10836 |
| Total | 73086 | 18478 | 52 | 105 | 153 | 91874 |


| year | partq3 |  |  |  |  | Total |
| :---: | :---: | ---: | ---: | ---: | ---: | ---: |
|  | no date <br> present <br> in the <br> spell | no <br> problem | ok after <br> editing | partially <br> ok | error |  |
| $\mathbf{2 0 0 0}$ | 9816 | 411 | 1 | 4 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 10875 | 454 | 2 | 4 | 3 | 11338 |
| $\mathbf{2 0 0 2}$ | 10482 | 450 | 0 | 0 | 2 | 10934 |
| $\mathbf{2 0 0 3}$ | 12152 | 631 | 5 | 2 | 2 | 12792 |
| $\mathbf{2 0 0 4}$ | 10546 | 504 | 2 | 1 | 4 | 11057 |
| $\mathbf{2 0 0 5}$ | 12307 | 663 | 2 | 2 | 1 | 12975 |
| $\mathbf{2 0 0 6}$ | 11161 | 544 | 0 | 2 | 2 | 11709 |
| $\mathbf{2 0 0 7}$ | 10375 | 457 | 1 | 2 | 1 | 10836 |
| Total | 87714 | 4114 | 13 | 17 | 16 | 91874 |


| year | partq4 |  |  |  |  | Total |
| :---: | :---: | ---: | ---: | ---: | ---: | :---: |
|  | no date <br> present <br> in the <br> spell | no <br> problem | ok after <br> editing | partially <br> ok | error |  |
| $\mathbf{2 0 0 0}$ | 10159 | 74 | 0 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11257 | 81 | 0 | 0 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10862 | 72 | 0 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12665 | 123 | 3 | 1 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 10966 | 89 | 0 | 1 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12869 | 104 | 2 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11611 | 96 | 2 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10747 | 88 | 1 | 0 | 0 | 10836 |
| Total | 91136 | 727 | 8 | 2 | 1 | 91874 |


| year | partq5 |  | Total |
| :--- | :---: | ---: | ---: |
|  | no date <br> present <br> in the <br> spell | no <br> problem |  |
| $\mathbf{2 0 0 0}$ | 10223 | 10 | 10233 |
| $\mathbf{2 0 0 1}$ | 11327 | 11 | 11338 |
| $\mathbf{2 0 0 2}$ | 10922 | 12 | 10934 |
| $\mathbf{2 0 0 3}$ | 12775 | 17 | 12792 |
| $\mathbf{2 0 0 4}$ | 11044 | 13 | 11057 |
| $\mathbf{2 0 0 5}$ | 12963 | 12 | 12975 |
| $\mathbf{2 0 0 6}$ | 11697 | 12 | 11709 |
| $\mathbf{2 0 0 7}$ | 10826 | 10 | 10836 |
| Total | 91777 | 97 | 91874 |


| year | partq6 |  | Total |
| :--- | :---: | ---: | :---: |
|  | no date <br> present <br> in the <br> spell | no <br> problem |  |
| $\mathbf{2 0 0 0}$ | 10233 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11338 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10932 | 2 | 10934 |
| $\mathbf{2 0 0 3}$ | 12790 | 2 | 12792 |
| $\mathbf{2 0 0 4}$ | 11055 | 2 | 11057 |
| $\mathbf{2 0 0 5}$ | 12975 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11708 | 1 | 11709 |
| $\mathbf{2 0 0 7}$ | 10835 | 1 | 10836 |
| Total | 91866 | 8 | 91874 |

## Construction of partqual

| 0 | No partnership |
| :--- | :--- |
| 1 | All OK |
| 2 | OK after editing |
| 3 | Partially OK |
| 4 | Unusable (decomposed 4142 43) |
| -9 | DNA: not eligible FI, proxy |

partqual=0 for people who declared they didn't experience any partnership.
If they declare at least one partnership but don't have the right number of valid dates of beginning of partnership (after editing), then partqual=41.
If their number of start dates is the same as the number of partnerships declared, then we do additional checks:
If there is no problem at all, then partqual $=1$.
If at least two partnerships are overlapping, then partqual=42.
If there are neither overlaps nor other problems but some dates have been edited, then
partqual=2.
If all the start dates are present but some end dates are missing, the series is considered as partially valid (partqual=3).
If there is another problem that makes the series unusable, for instance that the start and end dates are out of sequence, then partqual=43
-8 (missing) is coded when the no. of partnerships is missing
These coding conventions are summarized in the table below:

|  |  | number of dates | partn ok | partn edited |  | partn unusable | overlap |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | No partnership declared | 0 |  |  |  |  |  |
| 1 | no problem | >=1 | yes | no | no | no | no |
| 2 | OK after editing | $>=1$ |  | yes | no | no | OR yes edited |
| 3 | Partially OK | $>=1$ |  |  | yes | no | no |
| 4 | error: inconsistent number | incons with decl |  |  |  |  |  |
| 5 | error: other | >=1 |  |  |  | yes | OR yes |
| -9 | DNA: not elig FI, proxy |  |  |  |  |  |  |
| -8 | Missing |  |  |  |  |  |  |

Tables PH21q

| year | partqual |  |  |  |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | missing | no partn <br> declared | no <br> problem | ok <br> ofter <br> editing | partially <br> ok | error: <br> inconsistent <br> number | error: <br> other |  |
| $\mathbf{2 0 0 0}$ | 134 | 1970 | 7702 | 14 | 124 | 134 | 155 | 10233 |
| $\mathbf{2 0 0 1}$ | 304 | 2114 | 8462 | 4 | 136 | 145 | 173 | 11338 |
| $\mathbf{2 0 0 2}$ | 410 | 2008 | 8099 | 5 | 64 | 160 | 188 | 10934 |
| $\mathbf{2 0 0 3}$ | 516 | 2262 | 9453 | 15 | 91 | 202 | 253 | 12792 |
| $\mathbf{2 0 0 4}$ | 490 | 2143 | 7993 | 5 | 31 | 141 | 254 | 11057 |
| $\mathbf{2 0 0 5}$ | 546 | 2328 | 9538 | 3 | 65 | 194 | 301 | 12975 |
| $\mathbf{2 0 0 6}$ | 721 | 2176 | 8118 | 4 | 53 | 401 | 236 | 11709 |
| $\mathbf{2 0 0 7}$ | 802 | 2086 | 7194 | 7 | 42 | 348 | 357 | 10836 |
| Total | 3923 | 17087 | 66559 | 57 | 606 | 1725 | 1917 | 91874 |

## Verification of the marriage history

## Postcheck marriage 11

This check compares the number of marriages declared and the number of valid marriage dates.

Tables MH11

| year | checknbm |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | missing | same <br> number <br> marr <br> and <br> valid <br> dates | number <br> marr>0 <br> but no <br> valid <br> date | number <br> marr<number <br> valid dates | number <br> marr>number <br> valid dates |  |
| $\mathbf{2 0 0 0}$ | 158 | 10038 | 25 |  |  |  |
| $\mathbf{2 0 0 1}$ | 324 | 10965 | 30 | 0 | 12 | 10233 |
| $\mathbf{2 0 0 2}$ | 428 | 10455 | 38 | 0 | 19 | 11338 |
| $\mathbf{2 0 0 3}$ | 530 | 12172 | 66 | 0 | 13 | 10934 |
| $\mathbf{2 0 0 4}$ | 530 | 10309 | 194 | 0 | 24 | 12792 |
| $\mathbf{2 0 0 5}$ | 570 | 12271 | 112 | 0 | 24 | 11057 |
| $\mathbf{2 0 0 6}$ | 821 | 10695 | 70 | 4 | 18 | 12975 |
| $\mathbf{2 0 0 7}$ | 899 | 9601 | 244 | 2 | 121 | 11709 |
| Total | 4260 | 86506 | 779 | 2 | 90 | 10836 |

## Postcheck marriage 12

Distribution of the type of marriage and of the type of end. The missing column includes people with no marriages or an undeclared number of marriages.

Tables MH12a

| year | typmar1 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | marriage <br> with <br> premar <br> cohab | direct <br> marriage |  |
| $\mathbf{2 0 0 0}$ | 3456 | 2289 | 4488 | 10233 |
| $\mathbf{2 0 0 1}$ | 3966 | 2507 | 4865 | 11338 |
| $\mathbf{2 0 0 2}$ | 3993 | 2477 | 4464 | 10934 |
| $\mathbf{2 0 0 3}$ | 4738 | 3156 | 4898 | 12792 |
| $\mathbf{2 0 0 4}$ | 4217 | 2730 | 4110 | 11057 |
| $\mathbf{2 0 0 5}$ | 4881 | 3408 | 4686 | 12975 |
| $\mathbf{2 0 0 6}$ | 4662 | 3055 | 3992 | 11709 |
| $\mathbf{2 0 0 7}$ | 4659 | 2786 | 3391 | 10836 |
| Total | 34572 | 22408 | 34894 | 91874 |


| year | typmar2 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | marriage <br> with <br> premar <br> cohab | direct <br> marriage |  |
| $\mathbf{2 0 0 0}$ | 9214 | 737 | 282 | 10233 |
| $\mathbf{2 0 0 1}$ | 10206 | 811 | 321 | 11338 |
| $\mathbf{2 0 0 2}$ | 9836 | 822 | 276 | 10934 |
| $\mathbf{2 0 0 3}$ | 11586 | 923 | 283 | 12792 |
| $\mathbf{2 0 0 4}$ | 9949 | 845 | 263 | 11057 |
| $\mathbf{2 0 0 5}$ | 11727 | 992 | 256 | 12975 |
| $\mathbf{2 0 0 6}$ | 10638 | 854 | 217 | 11709 |
| $\mathbf{2 0 0 7}$ | 9912 | 717 | 207 | 10836 |
| Total | 83068 | 6701 | 2105 | 91874 |


| year | typmar3 |  |  | Total |
| :---: | ---: | ---: | ---: | ---: |
|  | missing | marriage <br> with <br> premar <br> cohab | direct <br> marriage |  |
| $\mathbf{2 0 0 0}$ | 10149 | 66 | 18 | 10233 |
| $\mathbf{2 0 0 1}$ | 11237 | 76 | 25 | 11338 |
| $\mathbf{2 0 0 2}$ | 10843 | 72 | 19 | 10934 |
| $\mathbf{2 0 0 3}$ | 12679 | 96 | 17 | 12792 |
| $\mathbf{2 0 0 4}$ | 10961 | 77 | 19 | 11057 |
| $\mathbf{2 0 0 5}$ | 12864 | 86 | 25 | 12975 |
| $\mathbf{2 0 0 6}$ | 11620 | 72 | 17 | 11709 |
| $\mathbf{2 0 0 7}$ | 10748 | 74 | 14 | 10836 |
| Total | 91101 | 619 | 154 | 91874 |


| year | typmar4 |  |  | Total |
| :---: | ---: | ---: | ---: | :--- |
|  | missing | marriage <br> with <br> premar <br> cohab | direct <br> marriage |  |
| $\mathbf{2 0 0 0}$ | 10227 | 6 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11328 | 6 | 4 | 11338 |
| $\mathbf{2 0 0 2}$ | 10926 | 7 | 1 | 10934 |
| $\mathbf{2 0 0 3}$ | 12786 | 5 | 1 | 12792 |
| $\mathbf{2 0 0 4}$ | 11047 | 7 | 3 | 11057 |
| $\mathbf{2 0 0 5}$ | 12970 | 5 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11704 | 5 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10829 | 7 | 0 | 10836 |
| Total | 91817 | 48 | 9 | 91874 |


| year | typmar5 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | marriage <br> with <br> premar <br> cohab | direct <br> marriage |  |
| $\mathbf{2 0 0 0}$ | 10233 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11337 | 0 | 1 | 11338 |
| $\mathbf{2 0 0 2}$ | 10934 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12792 | 0 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 11056 | 1 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12975 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11709 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10836 | 0 | 0 | 10836 |
| Total | 91872 | 1 | 1 | 91874 |

Tables MH12b

| year | causendm1 |  |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | missing | current <br> marriage | spouse <br> died | divorce | stopped <br> living tgth |  |
| $\mathbf{2 0 0 0}$ | 3449 | 4635 | 136 | 1735 | 278 | 10233 |
| $\mathbf{2 0 0 1}$ | 3958 | 5043 | 171 | 1880 | 286 | 11338 |
| $\mathbf{2 0 0 2}$ | 3984 | 4728 | 145 | 1801 | 276 | 10934 |
| $\mathbf{2 0 0 3}$ | 4728 | 5451 | 151 | 2106 | 356 | 12792 |
| $\mathbf{2 0 0 4}$ | 4206 | 4642 | 147 | 1838 | 224 | 11057 |
| $\mathbf{2 0 0 5}$ | 4878 | 5452 | 156 | 2176 | 313 | 12975 |
| $\mathbf{2 0 0 6}$ | 4727 | 4801 | 112 | 1828 | 241 | 11709 |
| $\mathbf{2 0 0 7}$ | 4692 | 4235 | 90 | 1601 | 218 | 10836 |
| Total | 34622 | 38987 | 1108 | 14965 | 2192 | 91874 |


| year | causendm2 |  |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | missing | current <br> marriage | spouse <br> died | divorce | stopped <br> living tgth |  |
| $\mathbf{2 0 0 0}$ | 9210 | 740 | 19 | 206 | 58 | 10233 |
| $\mathbf{2 0 0 1}$ | 10204 | 817 | 25 | 231 | 61 | 11338 |
| $\mathbf{2 0 0 2}$ | 9834 | 820 | 23 | 210 | 47 | 10934 |
| $\mathbf{2 0 0 3}$ | 11585 | 868 | 24 | 258 | 57 | 12792 |
| $\mathbf{2 0 0 4}$ | 9950 | 829 | 27 | 203 | 48 | 11057 |
| $\mathbf{2 0 0 5}$ | 11727 | 910 | 22 | 260 | 56 | 12975 |
| $\mathbf{2 0 0 6}$ | 10554 | 867 | 21 | 218 | 49 | 11709 |
| $\mathbf{2 0 0 7}$ | 9871 | 711 | 20 | 189 | 45 | 10836 |
| Total | 82935 | 6562 | 181 | 1775 | 421 | 91874 |


| year | causendm3 |  |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | missing | current <br> marriage | spouse <br> died | divorce | stopped <br> living tgth |  |
| $\mathbf{2 0 0 0}$ | 10149 | 54 | 1 | 19 | 10 | 10233 |
| $\mathbf{2 0 0 1}$ | 11237 | 71 | 2 | 22 | 6 | 11338 |
| $\mathbf{2 0 0 2}$ | 10843 | 64 | 1 | 21 | 5 | 10934 |
| $\mathbf{2 0 0 3}$ | 12679 | 78 | 5 | 23 | 7 | 12792 |
| $\mathbf{2 0 0 4}$ | 10961 | 71 | 4 | 15 | 6 | 11057 |
| $\mathbf{2 0 0 5}$ | 12864 | 85 | 3 | 17 | 6 | 12975 |
| $\mathbf{2 0 0 6}$ | 11620 | 65 | 1 | 17 | 6 | 11709 |
| $\mathbf{2 0 0 7}$ | 10749 | 60 | 2 | 17 | 8 | 10836 |
| Total | 91102 | 548 | 19 | 151 | 54 | 91874 |


| year | causendm4 |  |  |  |  | Total |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | :--- | :---: | :---: | :---: | :---: | :---: |
|  | missing | current <br> marriage |  |  |  |  |  | spouse <br> died | divorce | stopped <br> living tgth |  |
| $\mathbf{2 0 0 0}$ | 10227 | 4 | 0 | 1 | 1 |  | 10233 |  |  |  |  |  |
| $\mathbf{2 0 0 1}$ | 11328 | 7 | 0 | 3 | 0 | 11338 |  |  |  |  |  |
| $\mathbf{2 0 0 2}$ | 10926 | 8 | 0 | 0 | 0 | 10934 |  |  |  |  |  |
| $\mathbf{2 0 0 3}$ | 12786 | 5 | 0 | 0 | 1 | 12792 |  |  |  |  |  |
| $\mathbf{2 0 0 4}$ | 11047 | 5 | 1 | 2 | 2 | 11057 |  |  |  |  |  |
| $\mathbf{2 0 0 5}$ | 12970 | 4 | 0 | 1 | 0 | 12975 |  |  |  |  |  |
| $\mathbf{2 0 0 6}$ | 11704 | 3 | 0 | 2 | 0 | 11709 |  |  |  |  |  |
| $\mathbf{2 0 0 7}$ | 10829 | 6 | 0 | 1 | 0 | 10836 |  |  |  |  |  |
| Total | 91817 | 42 | 1 | 10 | 4 | 91874 |  |  |  |  |  |


| year | causendm5 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | current <br> marriage | divorce |  |
| $\mathbf{2 0 0 0}$ | 10233 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11337 | 1 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10934 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12792 | 0 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 11056 | 0 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12975 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11709 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10836 | 0 | 0 | 10836 |
| Total | 91872 | 1 | 1 | 91874 |

## Postcheck marriage 13

When a marriage is believed to exist (because at least one date is declared within the marriage slot) or when an end is declared (in the variable that gives the end cause), is there a valid date?

The date checked here is the date of marriage rather than of any premarital cohabitation.
A respondent with a missing code on whether the marriage had ended is in the 'missing' column.

Tables MH13a

| year | chkbeg1 |  |  | Total |
| :--- | ---: | ---: | ---: | :---: |
|  | missing | mar <br> supposed <br> and valid <br> date mar | no valid date <br> mar while <br> supposed <br> mar |  |
| $\mathbf{2 0 0 0}$ | 3456 | 6760 | 17 | 10233 |
| $\mathbf{2 0 0 1}$ | 3966 | 7340 | 32 | 11338 |
| $\mathbf{2 0 0 2}$ | 3993 | 6911 | 30 | 10934 |
| $\mathbf{2 0 0 3}$ | 4738 | 8012 | 42 | 12792 |
| $\mathbf{2 0 0 4}$ | 4217 | 6656 | 184 | 11057 |
| $\mathbf{2 0 0 5}$ | 4881 | 8055 | 39 | 12975 |
| $\mathbf{2 0 0 6}$ | 4662 | 7016 | 31 | 11709 |
| $\mathbf{2 0 0 7}$ | 4659 | 6151 | 26 | 10836 |
| Total | 34572 | 56901 | 401 | 91874 |


| year | chkbeg2 |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | missing | mar supposed and valid date mar | no valid date mar while supposed mar |  |
| 2000 | 9214 | 1017 | 2 | 10233 |
| 2001 | 10206 | 1126 | 6 | 11338 |
| 2002 | 9836 | 1094 | 4 | 10934 |
| 2003 | 11586 | 1191 | 15 | 12792 |
| 2004 | 9949 | 1097 | 11 | 11057 |
| 2005 | 11727 | 1237 | 11 | 12975 |
| 2006 | 10638 | 1065 | 6 | 11709 |
| 2007 | 9912 | 916 | 8 | 10836 |
| Total | 83068 | 8743 | 63 | 91874 |


| year | chkbeg3 |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | missing | mar supposed and valid date mar | no valid date mar while supposed mar |  |
| 2000 | 10149 | 84 | 0 | 10233 |
| 2001 | 11237 | 101 | 0 | 11338 |
| 2002 | 10843 | 91 | 0 | 10934 |
| 2003 | 12679 | 113 | 0 | 12792 |
| 2004 | 10961 | 95 | 1 | 11057 |
| 2005 | 12864 | 111 | 0 | 12975 |
| 2006 | 11620 | 89 | 0 | 11709 |
| 2007 | 10748 | 88 | 0 | 10836 |
| Total | 91101 | 772 | 1 | 91874 |


| year | chkbeg4 |  |  |  |
| :--- | ---: | ---: | ---: | :---: |
|  | mar <br> supposed <br> and valid <br> date mar | no valid date <br> mar while <br> supposed <br> mar |  |  |
| $\mathbf{2 0 0 0}$ | 10227 | 6 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11328 | 10 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10926 | 8 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12786 | 6 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 11047 | 9 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12970 | 5 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11704 | 5 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10829 | 7 | 0 | 10836 |
| Total | 91817 | 56 | 1 | 91874 |

Tables MH13b

| year | chkend1 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | end declared <br> and valid <br> date end | no valid date <br> end while <br> declared end |  |
| $\mathbf{2 0 0 0}$ | 8084 | 2024 | 125 | 10233 |
| $\mathbf{2 0 0 1}$ | 9001 | 2185 | 152 | 11338 |
| $\mathbf{2 0 0 2}$ | 8712 | 2112 | 110 | 10934 |
| $\mathbf{2 0 0 3}$ | 10179 | 2492 | 121 | 12792 |
| $\mathbf{2 0 0 4}$ | 8848 | 2157 | 52 | 11057 |
| $\mathbf{2 0 0 5}$ | 10330 | 2548 | 97 | 12975 |
| $\mathbf{2 0 0 6}$ | 9528 | 2113 | 68 | 11709 |
| $\mathbf{2 0 0 7}$ | 8927 | 1844 | 65 | 10836 |
| Total | 73609 | 17475 | 790 | 91874 |


| year | chkend2 |  |  | Total |
| :---: | ---: | ---: | ---: | :---: |
|  | missing | end declared <br> and valid <br> date end | no valid date <br> end while <br> declared end |  |
| $\mathbf{2 0 0 0}$ | 9950 | 244 | 39 | 10233 |
| $\mathbf{2 0 0 1}$ | 11021 | 287 | 30 | 11338 |
| $\mathbf{2 0 0 2}$ | 10654 | 267 | 13 | 10934 |
| $\mathbf{2 0 0 3}$ | 12453 | 321 | 18 | 12792 |
| $\mathbf{2 0 0 4}$ | 10779 | 270 | 8 | 11057 |
| $\mathbf{2 0 0 5}$ | 12637 | 326 | 12 | 12975 |
| $\mathbf{2 0 0 6}$ | 11421 | 273 | 15 | 11709 |
| $\mathbf{2 0 0 7}$ | 10582 | 241 | 13 | 10836 |
| Total | 89497 | 2229 | 148 | 91874 |


| year | chkend3 |  |  | Total |
| :---: | ---: | ---: | ---: | ---: |
|  | missing | end declared <br> and valid <br> date end | no valid date <br> end while <br> declared end |  |
| $\mathbf{2 0 0 0}$ | 10203 | 26 | 4 | 10233 |
| 2001 | 11308 | 28 | 2 | 11338 |
| 2002 | 10907 | 27 | 0 | 10934 |
| 2003 | 12757 | 32 | 3 | 12792 |
| 2004 | 11032 | 25 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12949 | 24 | 2 | 12975 |
| $\mathbf{2 0 0 6}$ | 11685 | 22 | 2 | 11709 |
| $\mathbf{2 0 0 7}$ | 10809 | 25 | 2 | 10836 |
| Total | 91650 | 209 | 15 | 91874 |


| year | chkend4 |  |  | Total |
| :--- | ---: | ---: | ---: | :---: |
|  | missing | end declared <br> and valid <br> date end | no valid date <br> end while <br> declared end |  |
| $\mathbf{2 0 0 0}$ | 10231 | 2 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11335 | 3 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10934 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12791 | 1 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 11052 | 4 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12974 | 1 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11707 | 2 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10835 | 1 | 0 | 10836 |
| Total | 91859 | 14 | 1 | 91874 |

## Postcheck marriage 14

Check the order of the component dates of the relationships

- Table PH14 gives the data before re-ordering in which ordstrtv, ordmav and ordendlvv represent the start dates, marriage dates and end dates prior to reordering.
- Table PH14c gives the corresponding data following reordering, with ordstrt, ordma and ordendlv representing start date, marriage dates, end dates after re-ordering.

The "missing" column includes people who have not declared any date in the concerned component date.

Tables MH14

| year | ordstrtv |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | :--- |
|  | missing <br> ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |  |
| $\mathbf{2 0 0 0}$ | 3482 | 6738 | 11 | 2 | 10233 |
| $\mathbf{2 0 0 1}$ | 4013 | 7306 | 16 | 3 | 11338 |
| $\mathbf{2 0 0 2}$ | 4043 | 6865 | 26 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 4784 | 7991 | 17 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 4301 | 6734 | 20 | 2 | 11057 |
| $\mathbf{2 0 0 5}$ | 4936 | 8019 | 19 | 1 | 12975 |
| $\mathbf{2 0 0 6}$ | 4699 | 6993 | 16 | 1 | 11709 |
| $\mathbf{2 0 0 7}$ | 4696 | 6126 | 11 | 3 | 10836 |
| Total | 34954 | 56772 | 136 | 12 | 91874 |


| year | ordmav |  |  |  | Total |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | :--- | :---: | :---: | :---: | :---: |
|  | missing <br> ordered no <br> problem |  |  |  |  |  | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 3468 | 6758 | 6 | 1 |  | 10233 |  |  |  |  |
| $\mathbf{2 0 0 1}$ | 3987 | 7338 | 13 | 0 | 11338 |  |  |  |  |
| $\mathbf{2 0 0 2}$ | 4018 | 6910 | 6 | 0 | 10934 |  |  |  |  |
| $\mathbf{2 0 0 3}$ | 4770 | 8008 | 14 | 0 | 12792 |  |  |  |  |
| $\mathbf{2 0 0 4}$ | 4391 | 6654 | 12 | 0 | 11057 |  |  |  |  |
| $\mathbf{2 0 0 5}$ | 4915 | 8052 | 8 | 0 | 12975 |  |  |  |  |
| $\mathbf{2 0 0 6}$ | 4688 | 7013 | 6 | 2 | 11709 |  |  |  |  |
| $\mathbf{2 0 0 7}$ | 4682 | 6149 | 4 | 1 | 10836 |  |  |  |  |
| Total | 34919 | 56882 | 69 | 4 | 91874 |  |  |  |  |


| year | ordendlvv |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | :--- |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 8199 | 2026 | 8 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 9145 | 2185 | 7 | 1 | 11338 |
| $\mathbf{2 0 0 2}$ | 8819 | 2112 | 3 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 10296 | 2493 | 3 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 8897 | 2155 | 4 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 10423 | 2549 | 2 | 1 | 12975 |
| $\mathbf{2 0 0 6}$ | 9589 | 2113 | 7 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 8987 | 1841 | 8 | 0 | 10836 |
| Total | 74355 | 17474 | 42 | 3 | 91874 |


| year | orddivv |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | :--- |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 8587 | 1629 | 16 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 9575 | 1724 | 37 | 2 | 11338 |
| $\mathbf{2 0 0 2}$ | 9273 | 1641 | 20 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 10782 | 1984 | 26 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 9307 | 1729 | 21 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 10901 | 2045 | 29 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 9958 | 1729 | 22 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 9306 | 1511 | 19 | 0 | 10836 |
| Total | 77689 | 13992 | 190 | 3 | 91874 |

Tables MH14c

| year | ordstrt |  |  | Total |
| :--- | ---: | ---: | ---: | ---: |
|  | missing | ordered no <br> problem | missings in <br> the middle |  |
| $\mathbf{2 0 0 0}$ | 3482 | 6740 | 11 | 10233 |
| $\mathbf{2 0 0 1}$ | 4013 | 7309 | 16 | 11338 |
| $\mathbf{2 0 0 2}$ | 4043 | 6865 | 26 | 10934 |
| $\mathbf{2 0 0 3}$ | 4784 | 7992 | 16 | 12792 |
| $\mathbf{2 0 0 4}$ | 4301 | 6737 | 19 | 11057 |
| $\mathbf{2 0 0 5}$ | 4936 | 8020 | 19 | 12975 |
| $\mathbf{2 0 0 6}$ | 4699 | 6996 | 14 | 11709 |
| $\mathbf{2 0 0 7}$ | 4696 | 6130 | 10 | 10836 |
| Total | 34954 | 56789 | 131 | 91874 |


| year | ordma |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | :--- |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 3468 | 6758 | 6 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 3987 | 7335 | 13 | 3 | 11338 |
| $\mathbf{2 0 0 2}$ | 4018 | 6908 | 6 | 2 | 10934 |
| $\mathbf{2 0 0 3}$ | 4770 | 8008 | 13 | 1 | 12792 |
| $\mathbf{2 0 0 4}$ | 4391 | 6652 | 12 | 2 | 11057 |
| $\mathbf{2 0 0 5}$ | 4915 | 8049 | 8 | 3 | 12975 |
| $\mathbf{2 0 0 6}$ | 4688 | 7013 | 6 | 2 | 11709 |
| $\mathbf{2 0 0 7}$ | 4682 | 6147 | 5 | 2 | 10836 |
| Total | 34919 | 56870 | 69 | 16 | 91874 |


| year | ordendlv |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | :--- |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 8199 | 2024 | 10 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 9145 | 2182 | 10 | 1 | 11338 |
| $\mathbf{2 0 0 2}$ | 8819 | 2110 | 3 | 2 | 10934 |
| $\mathbf{2 0 0 3}$ | 10296 | 2491 | 4 | 1 | 12792 |
| $\mathbf{2 0 0 4}$ | 8897 | 2152 | 6 | 2 | 11057 |
| $\mathbf{2 0 0 5}$ | 10423 | 2546 | 5 | 1 | 12975 |
| $\mathbf{2 0 0 6}$ | 9589 | 2113 | 7 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 8987 | 1844 | 5 | 0 | 10836 |
| Total | 74355 | 17462 | 50 | 7 | 91874 |


| year | orddiv |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | :--- |
|  | missing | ordered no <br> problem | missings in <br> the middle | none missing <br> but out of <br> sequence |  |
| $\mathbf{2 0 0 0}$ | 8587 | 1628 | 17 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 9575 | 1721 | 40 | 2 | 11338 |
| $\mathbf{2 0 0 2}$ | 9273 | 1640 | 20 | 1 | 10934 |
| $\mathbf{2 0 0 3}$ | 10782 | 1982 | 27 | 1 | 12792 |
| $\mathbf{2 0 0 4}$ | 9307 | 1726 | 23 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 10901 | 2042 | 32 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 9958 | 1729 | 22 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 9306 | 1514 | 16 | 0 | 10836 |
| Total | 77689 | 13982 | 197 | 6 | 91874 |

## Postcheck marriage 15

For 3 marriages:
Presence of the year of marriage, year of cohabitation and year of end, and when not, presence of any other date for this marriage.

Tables MH15

| year | varmar1 |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | year <br> marriage <br> present | no yr <br> marriage <br> but yr <br> premar | no yr <br> marriage <br> but yr <br> death | no yr <br> marriage <br> but yr sep |  |
| $\mathbf{2 0 0 0}$ | 3465 | 6760 | 0 | 1 | 7 | 10233 |
| $\mathbf{2 0 0 1}$ | 3986 | 7340 | 1 | 4 | 7 | 11338 |
| $\mathbf{2 0 0 2}$ | 4014 | 6911 | 2 | 1 | 6 | 10934 |
| $\mathbf{2 0 0 3}$ | 4761 | 8011 | 4 | 1 | 15 | 12792 |
| $\mathbf{2 0 0 4}$ | 4269 | 6655 | 116 | 4 | 13 | 11057 |
| $\mathbf{2 0 0 5}$ | 4906 | 8055 | 3 | 2 | 9 | 12975 |
| $\mathbf{2 0 0 6}$ | 4675 | 7016 | 7 | 1 | 10 | 11709 |
| $\mathbf{2 0 0 7}$ | 4676 | 6152 | 4 | 0 | 4 | 10836 |
| Total | 34752 | 56900 | 137 | 14 | 71 | 91874 |


| year | varmar2 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | year <br> marriage <br> present | no yr <br> marriage <br> but yr <br> premar | no yr <br> marriage <br> but yr <br> death | no yr <br> marriage <br> but yr sep |  |
| $\mathbf{2 0 0 0}$ | 9204 | 1025 | 2 | 0 | 2 | 10233 |
| $\mathbf{2 0 0 1}$ | 10194 | 1139 | 1 | 0 | 4 | 11338 |
| $\mathbf{2 0 0 2}$ | 9821 | 1111 | 0 | 2 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 11581 | 1201 | 4 | 1 | 5 | 12792 |
| $\mathbf{2 0 0 4}$ | 9943 | 1106 | 5 | 0 | 3 | 11057 |
| $\mathbf{2 0 0 5}$ | 11716 | 1249 | 6 | 0 | 4 | 12975 |
| $\mathbf{2 0 0 6}$ | 10628 | 1077 | 3 | 0 | 1 | 11709 |
| $\mathbf{2 0 0 7}$ | 9905 | 924 | 4 | 1 | 2 | 10836 |
| Total | 82992 | 8832 | 25 | 4 | 21 | 91874 |


| year | Total |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | year <br> marriage <br> present | no yr <br> marriage <br> but yr <br> death | no yr <br> marriage <br> but yr sep |  |
| $\mathbf{2 0 0 0}$ | 10148 | 85 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11230 | 107 | 1 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10841 | 93 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12677 | 115 | 0 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 10957 | 99 | 0 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12860 | 115 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11618 | 91 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10747 | 89 | 0 | 0 | 10836 |
| Total | 91078 | 794 | 1 | 1 | 91874 |


| year | varendm1 |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | year end <br> marriage <br> present | no yr end <br> but yr div | death of <br> the <br> spouse |  |
| $\mathbf{2 0 0 0}$ | 8186 | 1891 | 21 | 135 | 10233 |
| $\mathbf{2 0 0 1}$ | 9135 | 2017 | 16 | 170 | 11338 |
| $\mathbf{2 0 0 2}$ | 8808 | 1969 | 14 | 143 | 10934 |
| $\mathbf{2 0 0 3}$ | 10288 | 2346 | 11 | 147 | 12792 |
| $\mathbf{2 0 0 4}$ | 8886 | 2012 | 13 | 146 | 11057 |
| $\mathbf{2 0 0 5}$ | 10411 | 2397 | 14 | 153 | 12975 |
| $\mathbf{2 0 0 6}$ | 9586 | 2001 | 10 | 112 | 11709 |
| $\mathbf{2 0 0 7}$ | 8990 | 1752 | 5 | 89 | 10836 |
| Total | 74290 | 16385 | 104 | 1095 | 91874 |


| year | varendm2 |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | year end <br> marriage <br> present | no yr end <br> but yr div | death of <br> the <br> spouse |  |
| $\mathbf{2 0 0 0}$ | 9986 | 225 | 3 | 19 | 10233 |
| $\mathbf{2 0 0 1}$ | 11047 | 265 | 1 | 25 | 11338 |
| $\mathbf{2 0 0 2}$ | 10664 | 245 | 2 | 23 | 10934 |
| $\mathbf{2 0 0 3}$ | 12470 | 299 | 0 | 23 | 12792 |
| $\mathbf{2 0 0 4}$ | 10783 | 245 | 2 | 27 | 11057 |
| $\mathbf{2 0 0 5}$ | 12646 | 306 | 1 | 22 | 12975 |
| $\mathbf{2 0 0 6}$ | 11435 | 253 | 0 | 21 | 11709 |
| $\mathbf{2 0 0 7}$ | 10590 | 225 | 1 | 20 | 10836 |
| Total | 89621 | 2063 | 10 | 180 | 91874 |


| year | varendm3 |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | year end <br> marriage <br> present | no yr end <br> but yr div | death of <br> the <br> spouse |  |
| $\mathbf{2 0 0 0}$ | 10207 | 25 | 0 | 1 | 10233 |
| $\mathbf{2 0 0 1}$ | 11309 | 26 | 0 | 3 | 11338 |
| $\mathbf{2 0 0 2}$ | 10907 | 26 | 0 | 1 | 10934 |
| $\mathbf{2 0 0 3}$ | 12759 | 27 | 1 | 5 | 12792 |
| $\mathbf{2 0 0 4}$ | 11033 | 20 | 0 | 4 | 11057 |
| $\mathbf{2 0 0 5}$ | 12951 | 21 | 0 | 3 | 12975 |
| $\mathbf{2 0 0 6}$ | 11687 | 21 | 0 | 1 | 11709 |
| $\mathbf{2 0 0 7}$ | 10811 | 23 | 0 | 2 | 10836 |
| Total | 91664 | 189 | 1 | 20 | 91874 |

Postcheck marriage 16
Check the order of the beginning and end (if exists) within each marriage after the corrections. And if they exist, of premarital cohabitation and marriage, and of separation and divorce.

Tables MH16

| Table of year by chkin1 |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| year | chkin1 |  |  |  |  |  |
|  | missing | no <br> problem | mar <br> date>=end <br> date | pre mar <br> coh <br> date>mar <br> date | end <br> date>div <br> date |  |
| $\mathbf{2 0 0 0}$ | 3472 | 6721 | 11 | 3 | 26 | 10233 |
| $\mathbf{2 0 0 1}$ | 3998 | 7306 | 10 | 0 | 24 | 11338 |
| $\mathbf{2 0 0 2}$ | 4023 | 6875 | 15 | 0 | 21 | 10934 |
| $\mathbf{2 0 0 3}$ | 4779 | 7947 | 13 | 0 | 53 | 12792 |
| $\mathbf{2 0 0 4}$ | 4400 | 6607 | 15 | 0 | 35 | 11057 |
| $\mathbf{2 0 0 5}$ | 4920 | 7991 | 31 | 0 | 33 | 12975 |
| $\mathbf{2 0 0 6}$ | 4692 | 6949 | 36 | 0 | 32 | 11709 |
| $\mathbf{2 0 0 7}$ | 4685 | 6097 | 30 | 0 | 24 | 10836 |
| Total | 34969 | 56493 | 161 | 3 | 248 | 91874 |


| year | chkin2 |  |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: |
|  | missing | no <br> problem | mar <br> date>=end <br> date | pre mar <br> coh <br> date>mar <br> date | end <br> date>div <br> date |  |
| $\mathbf{2 0 0 0}$ | 9216 | 1009 | 4 | 0 | 4 | 10233 |
| $\mathbf{2 0 0 1}$ | 10212 | 1118 | 5 | 0 | 3 | 11338 |
| $\mathbf{2 0 0 2}$ | 9840 | 1089 | 2 | 0 | 3 | 10934 |
| $\mathbf{2 0 0 3}$ | 11601 | 1177 | 9 | 0 | 5 | 12792 |
| $\mathbf{2 0 0 4}$ | 9960 | 1093 | 3 | 0 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 11738 | 1228 | 5 | 0 | 4 | 12975 |
| $\mathbf{2 0 0 6}$ | 10644 | 1052 | 6 | 1 | 6 | 11709 |
| $\mathbf{2 0 0 7}$ | 9920 | 906 | 6 | 1 | 3 | 10836 |
| Total | 83131 | 8672 | 40 | 2 | 29 | 91874 |


| year | chkin3 |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | :---: |
|  | missing | no problem | mar <br> date>=end <br> date | end <br> date>div <br> date |  |
| $\mathbf{2 0 0 0}$ | 10149 | 83 | 1 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11237 | 100 | 0 | 1 | 11338 |
| $\mathbf{2 0 0 2}$ | 10843 | 89 | 2 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12679 | 112 | 1 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 10962 | 94 | 0 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12864 | 111 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11620 | 89 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10748 | 88 | 0 | 0 | 10836 |
| Total | 91102 | 766 | 4 | 2 | 91874 |

Tables MH16a Proportion with mar date>=end date, by marriage order (in \%)

|  | Partnership order |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| year | 1 | 2 | 3 | 4 |
| 2000 | 0.55 | 1.65 | 3.85 | 0.00 |
| 2001 | 0.46 | 1.77 | 0.00 | 0.00 |
| 2002 | 0.71 | 0.75 | 7.41 | 0.00 |
| 2003 | 0.53 | 2.88 | 3.13 | 0.00 |
| 2004 | 0.71 | 1.14 | 0.00 | 0.00 |
| 2005 | 1.22 | 1.56 | 0.00 | 0.00 |
| 2006 | 1.76 | 2.21 | 0.00 | 0.00 |
| 2007 | 1.63 | 2.52 | 0.00 | 0.00 |

Tables MH16b Proportion with pre mar coh date>mar date, by marriage order (in \%)

|  | Partnership order |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| year | 1 | 2 | 3 | 4 |
| 2000 | 0.04 | 0.00 | 0.00 | 0.00 |
| 2001 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2002 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2003 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2004 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2005 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2006 | 0.00 | 0.10 | 0.00 | 0.00 |
| 2007 | 0.00 | 0.11 | 0.00 | 0.00 |

Tables MH16c Proportion with end date>div date, by marriage order (in \%)

|  | Partnership order |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| year | 1 | 2 | 3 | 4 |
| 2000 | 1.61 | 2.17 | 0.00 | 0.00 |
| 2001 | 1.40 | 1.46 | 4.76 | 0.00 |
| 2002 | 1.29 | 1.60 | 0.00 | 0.00 |
| 2003 | 2.68 | 2.13 | 0.00 | 0.00 |
| 2004 | 2.04 | 0.54 | 6.67 | 0.00 |
| 2005 | 1.62 | 1.69 | 0.00 | 0.00 |
| 2006 | 1.86 | 3.00 | 0.00 | 0.00 |
| 2007 | 1.59 | 1.74 | 0.00 | 0.00 |

## Postcheck marriage 17

If the person reports a marriage of order $i>1$, do we have the elements about the previous marriage and did they all happen before the beginning of the $\mathrm{i}^{\text {th }}$ ?

Tables MH17

| year | chkout1 |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | marr date for i+1, no problem | marr date for i+1 but no marr date for $i$ | marr date for i+1 but no end date for i | marr date i>marr date i+1 | end date <br> i>marr <br> date $\mathrm{i}+1$ |  |
| 2000 | 9216 | 986 | 3 | 25 | 1 | 2 | 10233 |
| 2001 | 10212 | 1091 | 9 | 22 | 2 | 2 | 11338 |
| 2002 | 9840 | 1052 | 5 | 33 | 0 | 4 | 10934 |
| 2003 | 11601 | 1167 | 8 | 15 | 0 | 1 | 12792 |
| 2004 | 9960 | 1069 | 8 | 16 | 1 | 3 | 11057 |
| 2005 | 11738 | 1207 | 5 | 20 | 2 | 3 | 12975 |
| 2006 | 10644 | 1034 | 5 | 20 | 2 | 4 | 11709 |
| 2007 | 9920 | 887 | 3 | 21 | 2 | 3 | 10836 |
| Total | 83131 | 8493 | 46 | 172 | 10 | 22 | 91874 |


| year | chkout2 |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | marr date for i+1, no problem | marr date for i+1 but no marr date for $i$ | marr date for i+1 but no end date for i | marr date i>marr date $\mathrm{i}+1$ | end date i>marr date i+1 |  |
| 2000 | 10149 | 81 | 1 | 2 | 0 | 0 | 10233 |
| 2001 | 11237 | 96 | 2 | 2 | 1 | 0 | 11338 |
| 2002 | 10843 | 85 | 1 | 4 | 0 | 1 | 10934 |
| 2003 | 12679 | 109 | 3 | 1 | 0 | 0 | 12792 |
| 2004 | 10962 | 90 | 2 | 2 | 1 | 0 | 11057 |
| 2005 | 12864 | 105 | 3 | 1 | 1 | 1 | 12975 |
| 2006 | 11620 | 86 | 1 | 1 | 0 | 1 | 11709 |
| 2007 | 10748 | 83 | 1 | 4 | 0 | 0 | 10836 |
| Total | 91102 | 735 | 14 | 17 | 3 | 3 | 91874 |


| year | chkout3 |  |  |  | Total |
| :---: | ---: | ---: | ---: | ---: | :---: |
|  | missing | marr date <br> for $\mathbf{i}+\mathbf{1}$, no <br> problem | marr date for <br> $\mathbf{i}+\mathbf{1}$ but $\mathbf{n o}$ <br> end date for $\mathbf{i}$ | end date <br> i>marr date <br> i+1 |  |
| $\mathbf{2 0 0 0}$ | 10227 | 6 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11328 | 9 | 0 | 1 | 11338 |
| $\mathbf{2 0 0 2}$ | 10926 | 8 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12786 | 6 | 0 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 11048 | 9 | 0 | 0 | 11057 |
| $\mathbf{2 0 0 5}$ | 12970 | 5 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11704 | 5 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10829 | 6 | 1 | 0 | 10836 |
| Total | 91818 | 54 | 1 | 1 | 91874 |

Postcheck marriage 18
These tables show the number of marriages that are overlapping each other after corrections.

Tables MH18

| Overlapping marriages 1 and 2 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | $\%$ yes |
| 2000 | 1007 | 2 | $0.2 \%$ |
| 2001 | 1110 | 2 | $0.2 \%$ |
| 2002 | 1068 | 4 | $0.4 \%$ |
| 2003 | 1184 | 1 | $0.1 \%$ |
| 2004 | 1090 | 4 | $0.4 \%$ |
| 2005 | 1225 | 3 | $0.2 \%$ |
| 2006 | 1048 | 4 | $0.4 \%$ |
| 2007 | 899 | 3 | $0.3 \%$ |
| Total | 8631 | 23 | $0.3 \%$ |


| Overlapping marriages 2 and 3 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | $\%$ yes |
| 2000 | 82 | 0 | $0.0 \%$ |
| 2001 | 99 | 0 | $0.0 \%$ |
| 2002 | 87 | 1 | $1.1 \%$ |
| 2003 | 112 | 0 | $0.0 \%$ |
| 2004 | 93 | 0 | $0.0 \%$ |
| 2005 | 109 | 1 | $0.9 \%$ |
| 2006 | 87 | 1 | $1.1 \%$ |
| 2007 | 85 | 0 | $0.0 \%$ |
| Total | 754 | 3 | $0.4 \%$ |


| Overlapping marriages 3 and 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| year | no | yes | $\%$ yes |
| 2000 | 6 | 0 | $0.0 \%$ |
| 2001 | 9 | 1 | $10.0 \%$ |
| 2002 | 8 | 0 | $0.0 \%$ |
| 2003 | 6 | 0 | $0.0 \%$ |
| 2004 | 10 | 0 | $0.0 \%$ |
| 2005 | 5 | 0 | $0.0 \%$ |
| 2006 | 5 | 0 | $0.0 \%$ |
| 2007 | 6 | 0 | $0.0 \%$ |
| Total | 55 | 1 | $1.8 \%$ |

Classification of errors 21: MARQU1-n (summary classification ${ }^{11}$ )

|  |  | date in spell <br> n | mar date | end date | order |
| :---: | :--- | :---: | :---: | :---: | :---: |
| 0 | no marriage of that order <br> declared |  |  |  |  |
| 1 | no problem | yes | yes | yes | yes |
| 2 | OK after editing | yes | yes edited | yes edited | yes edited |
| 3 | partially OK | yes | yes | no | yes |
| 4 | unusable | yes | no |  | OR no |
| -9 | DNA: not eligible FI, proxy |  |  |  |  |
| -8 | Missing |  |  |  |  |

## Explanation:

Code 1 "no problem": when the marriage has at least a beginning date, an end date (if this applies) and that the end date>beginning date.
Code 2: where code 1 applies but that at least one of the dates present has been edited Code 3: where a beginning date is present but an end date which should be present is missing
Code 4: missing beginning date or beginning and end date out of sequence
Tables MH21

| year | marqu1 |  |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | ---: | :--- |
|  | no nth <br> marr <br> declared | no <br> problem | ok after <br> editing | partially <br> ok | error |  |
| $\mathbf{2 0 0 0}$ | 3456 | 6647 | 1 | 110 | 19 | 10233 |
| $\mathbf{2 0 0 1}$ | 3966 | 7211 | 0 | 128 | 33 | 11338 |
| $\mathbf{2 0 0 2}$ | 3993 | 6829 | 0 | 80 | 32 | 10934 |
| $\mathbf{2 0 0 3}$ | 4738 | 7909 | 1 | 99 | 45 | 12792 |
| $\mathbf{2 0 0 4}$ | 4217 | 6621 | 1 | 32 | 186 | 11057 |
| $\mathbf{2 0 0 5}$ | 4881 | 7971 | 1 | 75 | 47 | 12975 |
| $\mathbf{2 0 0 6}$ | 4662 | 6947 | 2 | 54 | 44 | 11709 |
| $\mathbf{2 0 0 7}$ | 4659 | 6088 | 3 | 50 | 36 | 10836 |
| Total | 34572 | 56223 | 9 | 628 | 442 | 91874 |

[^10]| year | marqu2 |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | no nth marr declared | $\begin{gathered} \text { no } \\ \text { problem } \end{gathered}$ | ok after editing | partially ok | error |  |
| 2000 | 9214 | 983 | 0 | 34 | 2 | 10233 |
| 2001 | 10206 | 1098 | 0 | 27 | 7 | 11338 |
| 2002 | 9836 | 1085 | 0 | 9 | 4 | 10934 |
| 2003 | 11586 | 1173 | 0 | 16 | 17 | 12792 |
| 2004 | 9949 | 1091 | 0 | 6 | 11 | 11057 |
| 2005 | 11727 | 1228 | 0 | 9 | 11 | 12975 |
| 2006 | 10638 | 1053 | 0 | 10 | 8 | 11709 |
| 2007 | 9912 | 906 | 2 | 7 | 9 | 10836 |
| Total | 83068 | 8617 | 2 | 118 | 69 | 91874 |


| year | marqu3 |  |  |  |  |
| :---: | :---: | ---: | ---: | ---: | ---: |
|  | no $\mathbf{n t h}$ <br> marr <br> declared | no <br> problem | partially <br> ok | error |  |
| $\mathbf{2 0 0 0}$ | 10149 | 80 | 4 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11237 | 99 | 2 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10843 | 91 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12679 | 110 | 3 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 10961 | 95 | 0 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12864 | 109 | 2 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11620 | 87 | 2 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10748 | 86 | 2 | 0 | 10836 |
| Total | 91101 | 757 | 15 | 1 | 91874 |


| year | marqu4 |  |  |  | Total |
| :---: | :---: | ---: | ---: | ---: | ---: |
|  | no nth <br> marr <br> declared | no <br> problem | partially <br> ok | error |  |
| $\mathbf{2 0 0 0}$ | 10227 | 6 | 0 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11328 | 10 | 0 | 0 | 11338 |
| $\mathbf{2 0 0 2}$ | 10926 | 8 | 0 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12786 | 6 | 0 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 11047 | 8 | 1 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12970 | 5 | 0 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11704 | 5 | 0 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10829 | 7 | 0 | 0 | 10836 |
| Total | 91817 | 55 | 1 | 1 | 91874 |


| year | marqu5 |  | Total |
| :--- | ---: | ---: | :--- |
|  | no nth <br> marr <br> declared | no <br> problem |  |
| $\mathbf{2 0 0 0}$ | 10233 | 0 | 10233 |
| $\mathbf{2 0 0 1}$ | 11337 | 1 | 11338 |
| $\mathbf{2 0 0 2}$ | 10934 | 0 | 10934 |
| $\mathbf{2 0 0 3}$ | 12792 | 0 | 12792 |
| $\mathbf{2 0 0 4}$ | 11056 | 1 | 11057 |
| $\mathbf{2 0 0 5}$ | 12975 | 0 | 12975 |
| $\mathbf{2 0 0 6}$ | 11709 | 0 | 11709 |
| $\mathbf{2 0 0 7}$ | 10836 | 0 | 10836 |
| Total | 91872 | 2 | 91874 |

MARQUAL

|  |  | number of <br> dates | marr <br> ok | marr <br> edited | marr <br> partially <br> ok | marr <br> unusable | overlap |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | No marriage declared | 0 |  |  |  |  |  |
| 1 | no problem | $>=1$ | yes | no | no | no | no |
| 2 | OK after editing | $>=1$ |  | yes | no | no | OR yes <br> edited |
| 3 | Partially OK | $>=1$ |  |  | yes | no | no |
| 4 | error: inconsistent <br> number | incons <br> with decl |  |  |  |  |  |
| 5 | error: other | $>=1$ |  |  |  | yes | OR yes |
| -9 | DNA: not elig FI, <br> proxy |  |  |  |  |  |  |
| -8 | Missing |  |  |  |  |  |  |

The coding is, for marriages, as for PARTQUAL, explained above.
Tables MH21q

| year | Total |  |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | missing | no marr <br> declared | no <br> problem | ok <br> after <br> editing | partially <br> ok | error: <br> inconsistent <br> number | error: <br> other |  |
| $\mathbf{2 0 0 0}$ | 158 | 3286 | 6603 | 1 | 144 | 12 | 29 | 10233 |
| $\mathbf{2 0 0 1}$ | 324 | 3633 | 7174 | 0 | 153 | 19 | 35 | 11338 |
| $\mathbf{2 0 0 2}$ | 428 | 3552 | 6814 | 0 | 82 | 13 | 45 | 10934 |
| $\mathbf{2 0 0 3}$ | 530 | 4174 | 7879 | 0 | 112 | 24 | 73 | 12792 |
| $\mathbf{2 0 0 4}$ | 530 | 3667 | 6601 | 0 | 35 | 24 | 200 | 11057 |
| $\mathbf{2 0 0 5}$ | 570 | 4233 | 7944 | 1 | 81 | 22 | 124 | 12975 |
| $\mathbf{2 0 0 6}$ | 817 | 3815 | 6801 | 2 | 63 | 123 | 88 | 11709 |
| $\mathbf{2 0 0 7}$ | 899 | 3552 | 5977 | 2 | 56 | 92 | 258 | 10836 |
| Total | 4256 | 29912 | 55793 | 6 | 726 | 329 | 852 | 91874 |

## ANNEX D DERIVATION OF THE QUALITY FLAGS FOR THE

MARRIAGE AND PARTNERSHIP HISTORIES

See also annex C for fuller details.

Construction of the partq1-11 variables

|  |  | date in spell $n$ | beg date | end date | order |
| :---: | :--- | :---: | :---: | :---: | :---: |
| 0 | no date present in the spell | no |  |  |  |
| 1 | no problem | yes | yes | yes | yes |
| 2 | OK after editing | yes | yes edited | yes edited | yes edited |
| 3 | partially OK | yes | yes | no | yes |
| 4 | unusable | yes | no |  | OR no |
| -9 | DNA: not eligible FI, proxy |  |  |  |  |
| -8 | Missing |  |  |  |  |

Construction of the partqual variable

|  |  | number <br> of dates | partn <br> ok | partn <br> edited | partn <br> partially <br> ok | partn <br> unusable | overlap |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | No partnership <br> declared | 0 |  |  |  |  |  |
| 1 | no problem | $>=1$ | yes | no | no | no | no |
| 2 | OK after editing | $>=1$ |  | yes | no | no | OR yes <br> edited |
| 3 | Partially OK | $>=1$ |  |  | yes | no | no |
|  | error: inconsistent <br> number | ncons <br> with <br> decl |  |  |  |  |  |
| 5 | error: other | $>=1$ |  |  |  |  | yes |
| -9 | DNA: not elig FI, proxy |  |  |  |  |  | OR yes |
| -8 | Missing |  |  |  |  |  |  |

Construction of the marq1-11 variables

|  |  | date in spell <br> n | mar date | end date | order |
| :---: | :--- | :---: | :---: | :---: | :---: |
| 0 | no marriage of that order <br> declared |  |  |  |  |
| 1 | no problem | yes | yes | yes | yes |
| 2 | OK after editing | yes | yes edited | yes edited | yes edited |
| 3 | partially OK | yes | yes | no | yes |
| 4 | unusable | yes | no |  | OR no |
| -9 | DNA: not eligible FI, proxy |  |  |  |  |
| -8 | Missing |  |  |  |  |

C

|  |  | number of <br> dates | marr <br> ok | marr <br> edited | marr <br> partially <br> ok | marr <br> unusable | overlap |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | No marriage declared | 0 |  |  |  |  |  |
| 1 | no problem | $>=1$ | yes | no | no | no | no |
| 2 | OK after editing | $>=1$ |  | yes | no | no | OR yes <br> edited |
| 3 | Partially OK | $>=1$ |  |  | yes | no | no |
| 4 | error: inconsistent <br> number | incons with <br> decl |  |  |  |  |  |
| 5 | error: other | $>=1$ |  |  |  | yes | OR yes |
| -9 | DNA: not elig FI, proxy |  |  |  |  |  |  |
| -8 | Missing |  |  |  |  |  |  |

## ANNEX E SPSS CODING OF DEFACTO (DE FACTO PARTNERSHIP STATUS)

SPSS Syntax consistent for years 1979-1996/7 using the year 1979 as an example. In later years the exact variable levels and variable names differ. Some categories in defacto in this set of years cannot be generated as the category does not apply (e.g. civil partnership)

```
compute defacto=-9.
execute.
*default to NA code.
do if (marital=1).
recode
defacto
(-9=11)
end if.
execute.
*marital=1 indicates respondent is married.
do if ((marital=2)|(marital=3)|(marital=4)|(marital=5)).
recode
defacto
(-9=13).
end if.
execute
*2=single, 3,4,5 indicates widowed, separated and divorced.
variable labels defacto 'defacto indicator'.
value labels defacto
1 'Living with spouse- Fl' 2 'Living with partner- Fl' 3 'Not living with anyone-FI'
11 'Living with spouse- non FI' }12\mathrm{ 'Living with partner- non Fl' }13\mathrm{ 'Not living with anyone- non
Fl' 14 ' Same sex civil partnership- non Fl' 15 'Living with same sex partner- non FI'.
*Set value labels.
do if (age<16).
compute defacto=-9.
end if.
execute.
*exclude the under 16s from the coding process.
missing values age().
do if (age=-9).
compute defacto=-9.
end if.
execute.
*exclude those with missing age from the coding process.
do if (fiself<4).
recode
defacto
(11=1) (12=2) (13=3).
end if.
execute.
do if (fiself<0).
recode
defacto
(1=11) (2=12) (3=13).
end if.
execute.
*recode those eligible for the Family information to the relevant code.
```

```
do if (wherewed=5)
```

recode
defacto
(1=2).
end if.
execute.
*Those not actually married are recoded from married to cohabiting.
do if (wherewed=4).
recode
defacto
(1=2) (3=2).
end if.
execute.
*Those WDS not married are recoded from married to cohabiting.
missing values wherewed husaway xslivtog ().
do if (wherewed=8).
recode
defacto
$(1=11)(2=12)(3=13)$.
end if.
execute.
*Exclude those with missing wherewed values from the FI codes.
do if (husaway=3).
recode
defacto
(1=3) .
end if.
execute.
*Identify the respondents whose spouse is not in the household due to
*marital dissolution.
do if (husaway=8).
recode
defacto
$(1=11)(2=12)(3=13)$.
end if.
execute.
*Exclude the respondents with a missing husbaway code.
do if (xslivtog=1).
recode
defacto
(1=2) (3=2).
end if.
execute.
*Identify the single respondents and recode to cohabiting if living with a partner.
do if (xslivtog=8).
recode
defacto
$(1=11)(2=12)(3=13)$.
end if.
execute.
*Exclude the respondents with a missing xslivtog code.
*Syntax consistent for years 1998/99-2007 using the year 2000 as an example*.

* In years after 2000 the exact variable levels and variable names may differ*.

```
compute defacto=-9.
execute.
*Start from the position of NA.
variable labels defacto 'Partnership indicator'.
value labels defacto
1 'Living with spouse- Fl' 2 'Living with partner- Fl' 3 'Not living with anyone-FI'
11 'Living with spouse- non FI' }12\mathrm{ 'Living with partner- non FI' }13\mathrm{ 'Not living with anyone- non
Fl' 14 ' Same sex civil partnership- non Fl' }15\mathrm{ 'Living with same sex partner- non FI'.
*Set up the variable and value labels.
do if (marstat=2).
recode
defacto
(-9=11).
end if.
execute.
*Those married defined as married.
do if ((marstat=1)|(marstat=3)|(marstat=4)|(marstat=5)).
recode
defacto
(-9=13).
end if.
execute.
*Those who are single, widowed, separated and divorced as defined as not living with anyone.
do if (livewith=1).
recode
defacto
(-9=12) (11=12) (13=12).
end if.
execute.
*Those who reported living with a partner are defined as cohabiting.
do if (livewith=3).
recode
defacto
(-9=15) (13=15).
end if.
execute.
*Same sex cohabitation.
do if (age<16).
compute defacto=-9.
end if.
execute.
*Exclude the under-16s from the coding process.
do if (selfcom3=1).
recode
defacto
(11=1) (12=2) (13=3).
end if.
execute.
do if (selfcom3=2).
recode
defacto
```

```
(11=1) (12=2) (13=3).
```

end if.
execute.
do if (selfcom3=3).
recode
defacto
$(11=1)(12=2)(13=3)$.
end if.
execute.
*Identify the respondents who repond to the Family information.
do if (wherewed=4).
recode
defacto
(1=2).
end if.
execute.
*Those who are not actually married are defined as cohabiting.
missing values wherewed husbaway tgthr2 ().
do if (wherewed=-8).
recode
defacto
$(1=11)(2=12)(3=13)$.
end if.
EXECUTE.
*Respondents with a missing wherewed code are defined as non-respondents to the FI.
do if (husbaway=2).
recode
defacto
(1=3).
end if.
execute.
*Defining those with a spouse not in the household due to marital
*breakdown are defined as not living with anyone.
do if (husbaway=-8).
recode
defacto
(1=11) (2=12) (3=13).
end if.
EXECUTE.
*Non respondents to husbaway are defined as not responding to FI.
do if (tgthr2=1).
recode
defacto
(1=2) (3=2).
end if.
execute.
*Those single and living with a non-related partern are defined as cohabiting.
do if (tgthr2=-8).
recode
defacto
(1=11) (2=12) (3=13).
end if.
EXECUTE.
*Non respondents to tgthr are defined as not responding to FI.

## ANNEX F ELIGIBILITY FOR THE

CONTRACEPTION/FERTILITY INTENTIONS QUESTIONS.

See accompanying Excel file on eligibility for several Family Information section questions.

## ANNEX G QUALITY CHECKS ON AGE AT LEAVING FULL TIME EDUCATION 1979-2007

## Aim:

To construct a variable 'age at the end of the full time education' that is consistent over time.

## Construction:

Variables giving the age at end of school and/or at end of full time education:
Until 1998, the age at leaving school is asked first, and after a few other questions and filters, the age at end of full time education. From 2000, only one age is asked of everybody, which is the age at end of the continuous full time education. For check, the means are produced in this Figure G1.

Figure G1
Mean age depending on the question and the survey year


Source: GHS 1979-2007
Sample: Persons aged 16-69 at survey

We combined the variables of age at end of school and end of full time education (for a selected group) into one variable (named agelft), in an attempt to produce an age at end of full time education for everyone, and intended to have the same definition as the variable EDAGE that is present from 2000 onwards.
Using the variable FURTHED which indicates whether the person attended further education after school (only for people aged 16-49 before 1991) and the variable LASTSCH (EDTYPE before 1983) which is a further filter giving details on the type
of courses attended after school ${ }^{12}$ for everybody, we assigned to the new variable agelft the value of AGELFTS(C) if the person did not go on to further study after leaving school, and AGELFTC(FT) if the person continued studying after school.
The mean and age distribution of the new variable are shown in Figures G2a and G2b, for men and women aged 16-69.

Figures G2a and G2b


Source: GHS 1979-2007
Sample: persons aged 16-69 at survey

[^11]There is an anomaly in the mean age at the end of full time education between 1991 and 1998.
To understand where this hump comes from, we first looked at the distribution of respondents in the different types of education (Figure G3: we can't continue the curve after 1998 because there is no equivalent to that question).

Figure G3


Source: GHS 1979-2007
Sample: Persons aged 16-69 at survey and who have had education
It appears that the proportion of people who have attended university rose very rapidly after 1991, which is believable, but 1998 looks too high compared with the previous years. There is also a discontinuity for the "other type of college" answer in 1998.

One particularly important change in the questionnaire occurs between 1990 and 1991: the age filter on the question FURTHRED has changed, from 16-49 to 16-69. This suggests looking at the mean age at end of full time education by age group at survey (Figure G4).

Figure G4


Source: GHS 1979-2007
Sample: Persons aged 16-69 at survey and who have had education
The problem in 1991-1998 appears limited to people age 35+ at survey. In 1992 there is a change in the order of the questions, with a stronger separation of people currently studying vs. others. Even if this does not seem to have a direct impact, and if the rest of the wording of the questions has not changed, it is possible that it changes the way of understanding the question on age at end of the full time education, and people would more often give other courses they have had in between, possibly including part-time courses.
For example among persons who have studied in nursing school or at teaching hospital, we see a strong increase in the proportion of persons who declare having finished nursing studies after age 30 (Figure G5).

Figure G5


Source: GHS 1979-2007
Sample: Persons aged 16-69 at survey and who have taken further education
We notice more generally that there appears to be an especially strong proportion of persons who finish their studies after age 30 in the problematic years (Figure G6).

Figure G6


Source: GHS 1979-2007
Sample: All persons aged 16-69 at survey; and those with further education
To deal with this implausible rise in age at end of full time education between 1991 and 1998, it is possible to compute the mean age at end of full time education only for people who finished their studies before a certain age.

Figure G7 shows this calculation for various age limits (for instance people aged 2-19 at the end of their studies, then people aged 2-20, etc.).

Figure G7


Source: GHS 1979-2007
Sample: Persons aged 16-49 at survey and who have had education
Considering only people who declared having finished before 25 , there is some continuity over time. But the essential problem remains and there is no obvious solution. If taking the declared ages up to 24 and then top-coding the variable at 25+, there are two potential difficulties: (a) an especially high proportion of persons will still have finished at age $25+$ using this solution (see Figure G8) and (b) most of those apparently completing at very late ages will almost certainly have left continuous education at a much earlier age, and so this potentially introduces a bias. As noted earlier, it is very likely that these persons are in fact persons who declared the age at end of part-time study or other forms of training.
The large increase in 1998 is probably linked with the especially large proportion of persons interviewed this year who declared having attended the university or some other type of college.

Figure G8
Proportion apparently having finished their full time education before...


Source: GHS 1979-2007
Sample: Persons aged 16-49 at survey and who are not currently enrolled in education

Figure G9 plots the standard deviation of the age at leaving full time education (agelft in the CPC file) by both survey year and cohort (c1935=1935-39, 1940=c1940-44). We see that up to survey year 1998 the within cohort standard deviation increases systematically and substantially, well after the age at which one would have expected the within-cohort dispersion to stabilise. After 2000, however, when the question was revised, the standard deviation declines to a level that is both more stable and within a relatively narrow range. We take this as evidence of the greater validity of the variable agelft (in the CPC file; "edage" in the GHS file) from GHS round 2000 onwards.

Figure G9
Standard deviation of age at end of studies, by birth cohorts


## ANNEX H SAMPLE SIZES IN THE CPC TIME-SERIES DATASET WITH NOTES OF SOME ERRORS IN THE ORIGINAL GHS DATA FILES

## Samples sizes by survey year

The datasets provided by ESDS have been merged by household serial number or by household serial number and person number when necessary.

Table 1: Total number of persons in each database

|  | Main sample | Scotland | Total |
| :--- | :---: | :---: | :---: |
| 1979 | 30705 | - | 30705 |
| 1980 | 31443 | - | 31443 |
| 1981 | 32410 | - | 32410 |
| 1982 | 27160 | - | 27160 |
| 1983 | 26587 | 3686 | 30273 |
| 1984 | 25354 | 2640 | 27994 |
| 1985 | 25555 | 3727 | 29282 |
| 1986 | 26073 | 3520 | 29593 |
| 1987 | 26419 | 3411 | 29830 |
| $1988-89$ | 25350 | 3334 | 28684 |
| $1989-90$ | 25269 | 3362 | 28631 |
| $1990-91$ | 23663 | 3218 | 26881 |
| $1991-92$ | 24657 | 3287 | 27944 |
| $1992-93$ | 24535 | 3418 | 27953 |
| $1993-94$ | 24079 | 3187 | 27266 |
| $1994-95$ | 23622 | - | 23622 |
| $1995-96$ | 23385 | - | 23385 |
| $1996-97$ | 22274 | - | 22274 |
| $1998-99$ | 20396 | - | 20396 |
| $2000-01$ | 19266 | - | 19266 |
| $2001-02$ | 21195 | - | 21195 |
| $2002-03$ | 20149 | - | 20149 |
| $2003-04$ | 24489 | - | 24489 |
| $2004-05$ | 20421 | - | 20421 |
| 2005 | 30069 | - | 30069 |
| 2006 | 22924 | - | 22924 |
| 2007 | 21472 | - | 21472 |

We have retained only the Main sample, without the Scottish Supplement.
In 1982, 7 entries were duplicated. We have kept only one of each, thus 7 observations are dropped.
The 1972-2004 time-series dataset had 4 more individuals than in the original GHS and they have not been retained in the CPC dataset.

## Year of birth

Date of birth is not available for respondents in GHS rounds 1979 to 1981. In 1982 to 1985 date of birth is available only for those answering the FI section. Date of birth is available for all respondents from GHS round 1986. In all years, age was collected for all respondents.

Table 2: Number of year of birth missing by year

| year | brthyr(INFORMANT`S YEAR OF BIRTH) |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | missing | not missing | 2202 | 2995 |  |
| 1979 | 30705 | 0 | 0 | 0 | 30705 |
| 1980 | 31443 | 0 | 0 | 0 | 31443 |
| 1981 | 32410 | 0 | 0 | 0 | 32410 |
| 1982 | 21847 | 5313 | 0 | 0 | 27160 |
| 1983 | 21217 | 5370 | 0 | 0 | 26587 |
| 1984 | 20063 | 5291 | 0 | 0 | 25354 |
| 1985 | 20149 | 5406 | 0 | 0 | 25555 |
| 1986 | 51 | 26022 | 0 | 0 | 26073 |
| 1987 | 34 | 26385 | 0 | 0 | 26419 |
| 1988 | 37 | 25313 | 0 | 0 | 25350 |
| 1989 | 23 | 25246 | 0 | 0 | 25269 |
| 1990 | 11 | 23652 | 0 | 0 | 23663 |
| 1991 | 36 | 24621 | 0 | 0 | 24657 |
| 1992 | 34 | 24501 | 0 | 0 | 24535 |
| 1993 | 17 | 24062 | 0 | 0 | 24079 |
| 1994 | 24 | 23598 | 0 | 0 | 23622 |
| 1995 | 0 | 23385 | 0 | 0 | 23385 |
| 1996 | 0 | 22274 | 0 | 0 | 22274 |
| 1998 | 53 | 20343 | 0 | 0 | 20396 |
| 2000 | 32 | 19234 | 0 | 0 | 19266 |
| 2001 | 46 | 21134 | 0 | 0 | 21180 |
| 2002 | 71 | 20077 | 1 | 0 | 20149 |
| 2003 | 95 | 24394 | 0 | 0 | 24489 |
| 2004 | 39 | 20382 | 0 | 0 | 20421 |
| 2005 | 7367 | 27291 | 0 | 1 | 34659 |
| 2006 | 53 | 22871 | 0 | 0 | 22924 |
| 2007 | 45 | 21427 | 0 | 0 | 21472 |
| Total | 185902 | 487592 | 1 | 1 | 673496 |

## Sample quarter

Table 3b: Number of individual by quarter and year, revised quarter variable

| Year | sampq (Sample quarter) |  |  |  | Total |
| :--- | ---: | ---: | ---: | ---: | :--- |
|  | 1 | 2 | 3 | 4 |  |
| 1998 | 5,208 | 5,242 | 4,713 | 5,233 | 20,396 |
| 2000 | 5,100 | 4,848 | 4,707 | 4,611 | 19,266 |
| 2001 | 3,934 | 6,092 | 5,693 | 5,461 | 21,180 |
| 2002 | 5,076 | 5,143 | 4,970 | 4,960 | 20,149 |
| 2003 | 5,210 | 5,374 | 6,849 | 7,056 | 24,489 |
| 2004 | 5,118 | 5,191 | 5,136 | 4,976 | 20,421 |
| 2005 | 0 | 8,470 | 8,430 | 8,193 | 25,093 |
| 2006 | 5,960 | 5,838 | 5,690 | 5,436 | 22,924 |
| 2007 | 5,247 | 5,629 | 5,429 | 5,167 | 21,472 |
| 2008 | 4,972 | 5,299 | 5,087 | 5,145 | 20,503 |
| 2009 | 4,767 | 4,887 | 4,788 | 4,546 | 18,988 |

The 1998 GHS data file from ESDS was found to have an error in codes 3 and 4 of SAMPQTR and an attempt has been made to correct these using the month of interview. All interviews either coded 3 originally or coded 4 and taking place in November and December 1998 are now coded 3. The rest of those coded 4 originally retain the code 4 . This is not exactly accurate as interviews scheduled for a particular quarter sometimes take place in a later quarter. So a few of those retaining the code 4 in the 1998 survey may in fact belong to quarter 3 although the interview took place in January to March 1999.

## Errors in the coding of sex

In 2006, some men appear to have answered the fertility history of the Family Information section, but this is due to an error in the coding of the variable SEX. These are, in fact, women who were correctly coded as female in the 2005 round, but mistakenly recoded as male in 2006 (in the second wave as the survey has become longitudinal in that year). They are not present in the CPC database for 2006-2009, only respondents in the survey for the first time (wave=1) were retained.

## Ineligible women answering the FI section

Also in 2006, some women aged 60+ appear to have answered the FI section but these are women who were eligible in 2005 and who in 2006 on the repeat interview had reached their $60^{\text {th }}$ birthday. We have not established why these respondents have answers recorded in the FI section in 2006, despite their ineligibility on age grounds. Possibly ONS recovered the history from the 2005 dataset or continued in 2006 using the same filter as the previous year. Again, they are not present in the CPC database as they were in the second or later wave in 2006-2009.

## Year of interview

There are four years where a few dates of interview are missing (in all, 13 cases between 1998 and 2002). The year of survey has then been attributed as the year of interview and the month as 6.5.

The year of interview sometimes does not correspond to the year of the survey. When the interview year is after the survey year it is most often due to the normal process of interviews that can take place until six months after the planned date. However we cannot explain what happens when the interview year is earlier than the actual year of the survey (see Table 4). Some years that had been obviously miscoded (e.g. 1989 instead of 1998 for the 1998 survey year) have been recoded manually.

Table 4: Cases in which the recorded year of interview is before the year of the survey

| year | problint |  |  |
| :---: | :---: | :---: | :---: |
|  | no problem | interview before year of survey | Total |
| 1979 | 30705 | 0 | 30705 |
| 1980 | 31443 | 0 | 31443 |
| 1981 | 32410 | 0 | 32410 |
| 1982 | 27160 | 0 | 27160 |
| 1983 | 26587 | 0 | 26587 |
| 1984 | 25354 | 0 | 25354 |
| 1985 | 25555 | 0 | 25555 |
| 1986 | 26073 | 0 | 26073 |
| 1987 | 26419 | 0 | 26419 |
| 1988 | 25350 | 0 | 25350 |
| 1989 | 25269 | 0 | 25269 |
| 1990 | 23663 | 0 | 23663 |
| 1991 | 24657 | 0 | 24657 |
| 1992 | 24535 | 0 | 24535 |
| 1993 | 24079 | 0 | 24079 |
| 1994 | 23622 | 0 | 23622 |
| 1995 | 23385 | 0 | 23385 |
| 1996 | 22228 | 46 | 22274 |
| 1998 | 20393 | 3 | 20396 |
| 2000 | 19266 | 0 | 19266 |
| 2001 | 21177 | 3 | 21180 |
| 2002 | 20146 | 3 | 20149 |
| 2003 | 24485 | 4 | 24489 |
| 2004 | 20421 | 0 | 20421 |
| 2005 | 25086 | 7 | 25093 |
| 2006 | 22912 | 12 | 22924 |
| 2007 | 21466 | 6 | 21472 |
| Total | 663846 | 84 | 663930 |

## Age and year of birth

The age calculated using the date of birth together with the date interview is not always consistent with the age reported in the survey. For some the difference is just one year, which may be mainly due to the fact that the day of birth and of interview are not available.

However, Table 5 shows that the difference between the reported and calculated age can be greater than a year. This is especially the case in 2001, due to the top-coding of age at 85 (ages 85 and higher being coded $85+$ ). For some other survey years it appears as a miscoding, sometime obvious when the calculated age is 10 or 20 years different from the reported age.

These inconsistencies have not been corrected in the CPC dataset. Users may choose how to handle the issue.

Table 5: Total number of persons in each dataset

| year | problages |  |  |
| :---: | :---: | :---: | :---: |
|  | no problem | age calculated strictly different from age+/-1 | Total |
| 1979 | 30705 | 0 | 30705 |
| 1980 | 31443 | 0 | 31443 |
| 1981 | 32410 | 0 | 32410 |
| 1982 | 27131 | 29 | 27160 |
| 1983 | 26549 | 38 | 26587 |
| 1984 | 25319 | 35 | 25354 |
| 1985 | 25515 | 40 | 25555 |
| 1986 | 26061 | 12 | 26073 |
| 1987 | 26387 | 32 | 26419 |
| 1988 | 25326 | 24 | 25350 |
| 1989 | 25252 | 17 | 25269 |
| 1990 | 23648 | 15 | 23663 |
| 1991 | 24636 | 21 | 24657 |
| 1992 | 24515 | 20 | 24535 |
| 1993 | 24062 | 17 | 24079 |
| 1994 | 23620 | 2 | 23622 |
| 1995 | 23382 | 3 | 23385 |
| 1996 | 22270 | 4 | 22274 |
| 1998 | 20394 | 2 | 20396 |
| 2000 | 19266 | 0 | 19266 |
| 2001 | 21000 | 180 | 21180 |
| 2002 | 20149 | 0 | 20149 |
| 2003 | 24488 | 1 | 24489 |
| 2004 | 20421 | 0 | 20421 |
| 2005 | 25091 | 2 | 25093 |
| 2006 | 22902 | 22 | 22924 |
| 2007 | 21450 | 22 | 21472 |
| Total | 663392 | 538 | 663930 |

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ESRC Centre for Population Change
Building 58，Room 2001
Faculty of Social and Human Sciences
University of Southampton
SO17 1BJ
T：＋44（0）2380 592579
E：cpc＠soton．ac．uk
www．cpc．ac．uk

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[^0]:    ${ }^{1}$ In 1998 a question was asked about whether the respondent had ever cohabited without marrying that partner, and if so, how many such partnerships they had. This variable for 1998 has not been included in the dataset.

[^1]:    ${ }^{2}$ marst here is the marital status variable that we have constructed from GHS marital status variablei.e. the declared marital status variable that appears in the CPC database.

[^2]:    ${ }^{3}$ Note that code 0 for PARTQ1-n differs slightly from code 0 for MARQ1-n: here 0 means no date in spell, irrespective of how many partnerships declared; in MARQ1-n 0 means no n-th marriage declared.

[^3]:    ${ }^{4}$ Quality flags were generated for the 2008 and 2009 rounds when these were added but they have not been examined closely; the tabulations in this Annex do not include the 2008 and 2009 data.

[^4]:    ${ }^{5}$ Note bthhist is a working variable and does not appear in the final dataset.

[^5]:    ${ }^{6}$ Quality flags were generated for the 2008 and 2009 rounds when these were added but they have not been examined closely. The tabulations in this Annex do not include the 2008 and 2009 data.

[^6]:    ${ }^{7}$ The rise in numbers here is due to men being asked a marriage history from 1986 onwards

[^7]:    ${ }^{8}$ Quality flags were generated for the 2008 and 2009 rounds when these were added but they have not been examined closely. The tabulations in this Annex do not include the 2008 and 2009 data.

[^8]:    ${ }^{9}$ The term "partnership" in this document includes, as well as marriages, freestanding cohabitations, that is spells of cohabitation that do not end in marriage to the cohabiting partner.

[^9]:    ${ }^{10}$ One possibility is that this may be due to the introduction of telephone interviewing, but the cause has not been established at the time of writing this document.

[^10]:    ${ }^{11}$ For the full classification see the User Guide.

[^11]:    ${ }^{12}$ Now thinking of your full-time education, what type of school or college did you last attend full-time? Was it: "elementary or secondary school", "university", "polytechnic", nursing school or teaching hospital", "or some other type of college?"

