NCDS/BCS70 1999-2000 Follow-ups

Guide to the Combined Dataset
(June 2001)

Compiled by on behalf of the Joint Centre for Longitudinal Research Team
by

Peter Shepherd
The 1999-2000 follow-ups of the National Child Development Study (NCDS) and the 1970 British Cohort Study (BCS70) were carried out under the auspices of the **Joint Centre for Longitudinal Research**. The JCLR exists to promote and facilitate the widest possible use of longitudinal studies, and the development of expertise in longitudinal research. It is a partnership of three institutions with unparalleled experience in the conduct of longitudinal surveys and the analysis of longitudinal data:

- **Centre for Longitudinal Studies (CLS)**, Institute of Education, University of London
- **International Centre for Health and Society (ICHS)**, University College Medical School, London
- **National Centre for Social Research (NatCen)**

The work of designing and conducting the NCDS and BCS70 1999-2000 Follow-ups was carried out by a joint team drawn from two of the JCLR partners – CLS and the National Centre. The key members of the team are listed below:

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**National Centre NCDS/BCS70 Team**

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*CAPI/CASI programming:*  
Michael Hart, Kevin Palmer, Steve Kelly

The Centre brings together expertise the conduct of longitudinal research and the potential for major scientific advances at the interface of education, medicine and social science.
ACKNOWLEDGEMENTS

We wish to acknowledge the support for these two follow-ups of our principal funders: the Economic and Social Research Council; Government Departments and Agencies (Office of National Statistics, Department for Education and Employment, Department of Social security, Department of Health, Scottish Executive, Basic Skills Agency); and the International Centre for Child Studies.

The work could not have been carried out successfully without the involvement of over a hundred advisors drawn from researchers, policy makers and funders, who we consulted throughout the design of the surveys.

The names of NCDS/BCS70 Advisors, and an indication of their contribution may be found in the following document, which also accompanies the data deposit:

The design and conduct of the 1999-2000 surveys of the National Child Development Study and the 1970 British Cohort Study.
PREFACE

This document has been prepared to accompany the initial deposit, with the UK Data Archive at the University of Essex, of data from the most recent follow-ups of two continuing, multidisciplinary, national, longitudinal studies – the National Child Development Study (NCDS) and the 1970 British Cohort Study (BCS70).

The other elements of the deposit, to which reference will be made throughout this document, are identified below. Users are advised that they will need to consult all elements of the documentation to gain a full understanding of the data.

**NCDS/BCS70 Deposit: Elements**

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<td>NCDS/BCS70 1999-2000 Follow-ups: Interactive Data Dictionary for Combined NCDS/BCS70 SPSS dataset (based on the SPSS Data Dictionary)</td>
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</tr>
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INTRODUCTION

This document has been prepared to accompany the initial deposit, with the UK Data Archive at the University of Essex, of data from the most recent follow-ups of two continuing, multidisciplinary, national, longitudinal studies – the National Child Development Study (NCDS) and the 1970 British Cohort Study (BCS70). The follow-ups took place between November 1999 and September 2000, and it is noteworthy that this was the first time that both cohorts had been surveyed at the same time. They were designed and implemented jointly by the Centre for Longitudinal Studies of the Institute of Education, University of London (CLS), and the National Centre for Social Research (NatCen), on behalf of the Joint Centre for Longitudinal Research. The work was mainly funded by the Economic and Social Research Council, but important contributions were also made by a number of government departments, and by the Basic Skills Agency.

NCDS and BCS70

The National Child Development Study (NCDS) started life as the Perinatal Mortality Survey and examined the social and obstetric factors associated with stillbirth and infant mortality among over 17,000 babies born in Britain in the week 3-9 March 1958. Since this first study the whole cohort have been surveyed on five other occasions in order to monitor their health, education, social and economic circumstances. These surveys were carried out in 1965 (age 7), 1969 (age 11), 1974 (age 16), 1981 (age 23) and 1991 (age 33). As part of the 1991 survey, a special study was also undertaken of the children of one third of the cohort members, including assessments of the behaviour and cognitive development of approximately 5,000 children. There have also been surveys of sub-samples of the cohort, the recent occurring in 1996 (age 37) when information was collected on the basic skills of a representative sample of 10 per cent of cohort members.

The 1970 British Cohort Study (BCS70) was designed along similar lines to the NCDS, surveying over 17,000 babies born in Britain in the week 5-11 April 1970. Since the birth survey there have been four other major data collection exercises in order to monitor their health, education, social and economic circumstances. These were carried out in 1975 (age 5), 1980 (age 10), 1986 (age 16) and 1996 (age 26). As in NCDS, subsamples have been studied at various ages: for example at age 21, paralleling the NCDS survey at age 37, a 10 per cent representative sample was assessed for basic skills difficulties.

From their original focus on the circumstances and outcomes of birth, the two cohort studies have broadened in scope to map all aspects of health, education and social development of their subjects as they passed through childhood and adolescence. In latter sweeps, the information collected has covered their transitions into adult life, including leaving full-time education, entering the labour market, setting up independent homes, forming partnerships and becoming parents.

The latest rounds of data collection for NCDS and BCS70 took place in 1999/2000 (NCDS cohort member were 41/42 and BCS70 cohort members were 29/30). The main aim of these most recent surveys was to explore the factors central to the formation and maintenance of adult identity in each of the following domains:

- Lifelong learning
- Relationships, parenting and housing
- Employment and income
- Health and health behaviour
- Citizenship and values
Further details of this ‘life course’ theoretical framework and its use in the development of question areas for the most recent sweeps of NCDS and BCS70 are contained in the following, which also accompanies the data deposit:

_The design and conduct of the 1999-2000 surveys of the National Child Development Study and the 1970 British Cohort Study._

**Advisors**

As with previous NCDS and BCS70 follow-ups, the surveys were designed in collaboration with advisors drawn from researchers, policy makers and funders. Following an initial meeting, held in March 1998, a number of advisory groups were formed, one for each of the proposed major topic areas to be covered by the new surveys – see below.

**NCDS/BCS70 Advisory Groups**

- Child development & education
- Citizenship and values
- Employment and income
- Family, parenting and housing
- Health
- Lifelong learning
- Methodology

After the initial meeting, members of each group exchanged ideas via email and/or meetings and, ultimately provided written advice on the content of the survey instrumentation (June-September 1998). Subsequently, members of the advisory groups were updated on the development of the instrumentation, and the progress of the surveys. Latterly, a number of advisors have been involved in the initial assessment of the quality of the information obtained during the survey.

Further details of the advisory groups, and their consultations and advice are contained in the following, which also accompanies the data deposit:

_The design and conduct of the 1999-2000 surveys of the National Child Development Study and the 1970 British Cohort Study._

**Survey instruments/CAPI**

Information was gathered from NCDS and BCS70 cohort members by interview and using self-completion questionnaire. A major innovation in the conduct of the new surveys was the adoption of computer-assisted, rather than paper-based, methods of data collection. The use of CAPI (Computer Assisted Personal Interviewing) serves to improve the quality of the data collected, by simplifying the conduct of the interviews with complex filter structures. It also provides for the rapid production of clean data, because of the facility to edit data on entry. In addition, the employment of CAPI simplifies coding of information about occupation and answers to other open-ended questions where responses can be keyed in during the interview. The same method, CASI (Computer Assisted Self-Interviewing), was employed with the self-completion instrument, when the laptop computer was handed over to the cohort members themselves.

Following development work - including: pre-piloting qualitative interviews and a pilot based on traditional paper interview schedules and self-completion questionnaire all based on non-cohort member samples; and a CAPI/CASI ‘dress rehearsal’ pilot based on a cohort member sample - the
survey instruments were programmed into a single CAPI/CASI instrument using Blaise 3 which was suitable for both NCDS and BCS70 cohort members. This was possible because over 90 per cent of questions were common to both cohorts. The major differences between the content of the NCDS and BCS70 surveys were:

- Reference dates for retrospective questions/histories. These were March 1991 for NCDS, and April 1986 for BCS70 - although NCDS cohort members who did not take part in the 1991 follow-up (NCDS5), where asked for details of qualifications gained since March 1981 (see below).

- The inclusion of additional questions for NCDS cohort members dealing with:
  - Children over the age of 16 years
  - Children absent from the household, but who were living with cohort member in 1991

A short proxy interview was also included in the Blaise program for use where the cohort member was unable to understand or respond to questions put by the interviewer, or to the self-completion. Questions were put to a family member or carer.

Details of the survey instruments and their development are to be found in the following, which also accompanies the data deposit:

- NCDS/BCS70 1999-2000 Follow-ups: CAPI Documentation

Content of surveys

As noted above, the survey instrumentation was developed in consultation with those who have been involved with the design and analysis of earlier NCDS and BCS70 surveys, other research advisors and funders; and in accordance with the following principles:

- Relevance to the stage of life reached
- Continuity with previous surveys
- Comparability across NCDS and BCS70
- Compatibility with other surveys (eg: BHPS, the General Household Survey and the (US) National Longitudinal Survey of Youth)

A summary of the topics covered by the surveys is given below.

Survey topics

- Household
- Housing
- Relationships
- Children
- Family Social Relationships & Support
- Family Income
- Employment
- Lifelong Learning
- Health
- Citizenship and Values
- Self-completion (covering attitudes/especially sensitive topics)
A more detailed summary of the content of the surveys is also given below, and full details of the content of the survey instruments are to be found in the following, which also accompanies the data deposit:

**NCDS/BCS70 1999-2000 Follow-ups: CAPI Documentation**

### NCDS/BCS70 Follow-ups 1999/2000 Summary of the contents of the surveys

<table>
<thead>
<tr>
<th>Household Grid</th>
<th>INTERVIEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Household grid</td>
<td>Fairly standard grid. Gathers details of sex, age, relationship to respondent, marital status</td>
</tr>
<tr>
<td>Ethnicity</td>
<td>Based on the new question being developed for the 2001 Census</td>
</tr>
<tr>
<td>Language spoken in the home</td>
<td>Language usually spoken</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Housing</th>
<th>INTERVIEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current address</td>
<td>Rooms, heating, housing benefit, tenure</td>
</tr>
<tr>
<td>Intentions to move</td>
<td>Moving, future tenure, why moving</td>
</tr>
<tr>
<td>Property inheritance</td>
<td>Ever inherited house/flat, when</td>
</tr>
<tr>
<td>Homelessness</td>
<td>Experience of, number of times, date of last, why, where stayed, duration, applied to LA</td>
</tr>
<tr>
<td>Housing history</td>
<td>Works backwards from last address. Seeks details of: dates, tenure, living arrangements, reasons for moving,</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relationships</th>
<th>INTERVIEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marital status</td>
<td>Legal status, prior cohabitation, dates of marriage/cohabitation, age, marital status of partner</td>
</tr>
<tr>
<td>Relationship history</td>
<td>Marriage/cohabiting. Works backwards from last relationship. Seeks details of: dates, sex, age, marital status, marriage, separation/divorce</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Children</th>
<th>INTERVIEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pregnancy history</td>
<td>Works backwards from last pregnancy conceived/fathered. Seeks details of: outcome, name, sex, birth weight, DOB, problems, smoking in pregnancy, other parent, whereabouts, support and circumstances of absent children</td>
</tr>
<tr>
<td>Lone parenthood</td>
<td>Periods of $\geq$1 month. Works forward for up to 4 periods. Seeks details of dates and numbers of children</td>
</tr>
<tr>
<td>Infertility</td>
<td>Ability to have and plans for (more) children</td>
</tr>
<tr>
<td>Adopted children</td>
<td>Age of child on adoption and nature of adoption</td>
</tr>
<tr>
<td>Partner's children from a previous relationship</td>
<td>Number, whether seen or visit</td>
</tr>
<tr>
<td>Children over 16 (NCDS only)</td>
<td>Name, age, economic, marital and parent status</td>
</tr>
<tr>
<td>Absent formerly resident children (NCDS only)</td>
<td>Name, age, whereabouts, economic, marital and parent status; CM contact and payments for children absent from the household, but who were living with CM in 1991</td>
</tr>
<tr>
<td>Family activities</td>
<td>Things done as a family</td>
</tr>
<tr>
<td>Demands of parenting</td>
<td>Physical/emotional/time demands, worries, closeness of family</td>
</tr>
</tbody>
</table>

### Family, Social Relationships & Support

| Contact with family | Parents alive/contact/close/divorce/worries/help. Contact with siblings/in-laws/grandparents |
| Emotional support | Sources/nature of emotional support |

### Family Income

<p>| Other Income | Income from benefits and regular income from other |</p>
<table>
<thead>
<tr>
<th>Sources received by respondent and/or partner</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Employment</strong></td>
</tr>
<tr>
<td>Economic activity</td>
</tr>
<tr>
<td>Current job</td>
</tr>
<tr>
<td>Other paid work</td>
</tr>
<tr>
<td>Currently unemployed</td>
</tr>
<tr>
<td>Labour market histories</td>
</tr>
<tr>
<td>Partner’s job</td>
</tr>
<tr>
<td><strong>Lifelong Learning</strong></td>
</tr>
<tr>
<td>Qualifications</td>
</tr>
<tr>
<td>Current course for qualification</td>
</tr>
<tr>
<td>Assessment of current/most recent course</td>
</tr>
<tr>
<td>Other courses and training</td>
</tr>
<tr>
<td>No formal learning</td>
</tr>
<tr>
<td>Learning overview</td>
</tr>
<tr>
<td>Contact with information technology</td>
</tr>
<tr>
<td>Literacy and numeracy</td>
</tr>
<tr>
<td><strong>Health</strong></td>
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<td>General health</td>
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<td>Respiratory problems</td>
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<td>Mental health</td>
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<td>Seeing and hearing</td>
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<td>Other conditions</td>
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<td>Accidents/injuries</td>
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<td>Hospital admissions</td>
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<td>Smoking</td>
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<td>Drinking</td>
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<tr>
<td>Diet</td>
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<tr>
<td>Exercise</td>
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<tr>
<td>Height and weight</td>
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<tr>
<td><strong>Citizenship and Values</strong></td>
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<td></td>
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</tbody>
</table>
SELF-COMPLETION

<table>
<thead>
<tr>
<th>Your views</th>
<th>Attitude statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>How you get on with your husband, wife or partner</td>
<td>Includes Locke-Wallace</td>
</tr>
<tr>
<td>Some more of your views</td>
<td>Attitude statements</td>
</tr>
<tr>
<td>How you feel</td>
<td>Malaise Inventory</td>
</tr>
<tr>
<td>Your skills</td>
<td>How good at skill/is skill used at work</td>
</tr>
<tr>
<td>More of your views</td>
<td>Attitude statements</td>
</tr>
<tr>
<td>How you feel about your life so far</td>
<td>GHQ 12</td>
</tr>
<tr>
<td>More of your views</td>
<td>Attitude statements</td>
</tr>
<tr>
<td>School exclusion and truancy</td>
<td>Number of temporary/permanent suspensions/exclusions; frequency of truancy</td>
</tr>
<tr>
<td>Contact with the police and crime</td>
<td>Number of times moved on, questioned, warned, taken to police station, cautioned, found guilty by a court</td>
</tr>
<tr>
<td>Use of illegal drugs</td>
<td>Whether tried number of specific drugs ever/in last 12 months</td>
</tr>
</tbody>
</table>

Fieldwork

The main fieldwork for the NCDS and BCS70 surveys began following the first interviewer briefing at the end of October 1999. It was conducted in a series of 6, overlapping waves as shown below.

**Dates of Fieldwork Waves**

<table>
<thead>
<tr>
<th>Wave</th>
<th>1st Briefing</th>
<th>Fieldwork</th>
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<tr>
<td>1</td>
<td>29/10/99</td>
<td>29/10-13/12</td>
</tr>
<tr>
<td>2</td>
<td>29/11/99</td>
<td>29/11-10/01</td>
</tr>
<tr>
<td>3</td>
<td>06/01/00</td>
<td>06/01-14/02</td>
</tr>
<tr>
<td>4</td>
<td>31/01/00</td>
<td>31/01-13/03</td>
</tr>
<tr>
<td>5</td>
<td>28/02/00</td>
<td>28/02-10/04</td>
</tr>
<tr>
<td>6</td>
<td>03/04/00</td>
<td>03/04-25/09</td>
</tr>
</tbody>
</table>

With the exception of the last wave, each wave broadly covered all areas of the country and targeted some 2,500 members of each cohort (5,000 in total). The last wave contained the vast majority of outliers (addresses in the Highlands and islands), as well as movers and others who could not be interviewed in waves 1-5.

Each wave began with the mailing of an advance letter advising the cohort members selected for inclusion in the wave that an interviewer would be calling shortly. This was followed by a series of face-to-face interviewer briefings, held in different parts of the country, during which: the background and purpose of the survey was explained; instructions were given on the contact, tracing and other administrative procedures; the survey content was outlined; and the interviewers given an opportunity to conduct a full ‘dummy’ interview (designed to take them through all the main sections of the CAPI/CASI instruments, and to highlight areas of questioning and/or issues of definition, where the surveys differ from other surveys on which the interviewer may have worked/be working).

During fieldwork, National Centre interviewers administered the CAPI/CASI instruments, after carrying out any necessary tracing to establish the whereabouts of cohort members. The interviewer tracing supplemented the efforts of the small Tracing Team maintained by CLS during the preparations for and conduct of the survey.

Between follow-ups efforts are made by CLS, through the mailing of an annual birthday card and other activities, to maintain contact with as many members as possible of both cohorts. But, unfortunately, at any one time an important minority of NCDS/BCS70 cohort members remains untraced, and considerable efforts have been made before and during the surveys to locate as many
as possible of the untraced. This serves not only to maximise response, but also to minimise response bias.

Prior to fieldwork, the CLS Tracing Team attempted to obtain a current address for as many cohort members as possible. The work of the team built on experience gained during the NCDS 1981 and 1991 follow-ups, and the BCS70 1996 Postal Follow-up to trace attempt to trace as many cohort members as possible. It made use of a variety of sources of information, as indicated below both before and during fieldwork.

During the period of fieldwork, which ended on 25 September, the efforts of the tracing team were supplemented, where necessary, by interviewers who sought to establish the whereabouts of the cohort member, speaking to neighbours and others, and follow-up leads as appropriate. Where the interviewer failed to find the cohort member, information was passed back to the CLS tracing team for further investigation.

### Sources of address information during tracing

- Annual birthday card mailings
- Address and contact address information provided by cohort members in the past
- Other information contained in study records
- Telephone number databases
- Postcode databases
- Electoral register databases
- National Health Service Central Register records of NHS registration, emigrations and deaths
- Health Authorities address records
- Driver and Vehicle Licensing Agency address records
- Ministry of Defence records
- Media appeals
- Interviewer detective work during fieldwork

Further details of the fieldwork and tracing are to be found in the following, which also accompanies the data deposit:


### Data coding and editing

Data were returned from the field (via modem) and coding and residual editing undertaken

A major advantage of the use of CAPI and CASI is the reduced need for post-fieldwork editing – the majority of checks for validity, range and consistency can be incorporated into the CAPI/CASI program. Inevitably, however, there were checks, which were overlooked, or not initially thought necessary. These checks were incorporated into the DP activities undertaken by the National Centre after the survey.

The NCDS/BCS70 interview and self-completion include a number of open-ended questions where the verbatim answers of cohort members are keyed by interviewers, and a rather larger number of questions where precodes are provided for answers but provision is also made to record additional information where then precode ‘other’ is used. Following the start of the surveys, these questions were reviewed by the CLS team in order to determine the priorities for coding, and to identify the appropriate coding frames. Where possible, coding frames that had been employed for earlier NCDS/BCS70 surveys were adopted, although it was usually necessary to include additional codes. In other instances, it was necessary to develop a coding frame from scratch. Coding was undertaken by the National Centre and CLS, with the latter being responsible for coding of health and related
problems using the WHO *International Classification of Diseases*, and OPCS *Classification of Surgical Procedures and Operations*.

Further details of the editing and coding are to be found in the following, which also accompanies the data deposit:


**Timetable**

An indication of the overall timetable for the NCDS and BCS70 follow-ups is given below with reference to a number of key events and activities mentioned above.

It should be noted that the full funding necessary to carry out both follow-ups was not finally secured until early 2000, and that the main fieldwork period was extended in order to ensure that as many cohort members as possible had an opportunity to participate.

<table>
<thead>
<tr>
<th>Key event/activity</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start of survey design and tracing of cohort members</td>
<td>January 1998</td>
</tr>
<tr>
<td>Consultative conference – advisory groups established</td>
<td>March 1998</td>
</tr>
<tr>
<td>Written advice received on content from advisory groups</td>
<td>June – September 1998</td>
</tr>
<tr>
<td>Development of instrumentation begins</td>
<td>July 1998</td>
</tr>
<tr>
<td>Further consultation with advisors</td>
<td>July 1998-July 1999</td>
</tr>
<tr>
<td>Qualitative pre-piloting undertaken</td>
<td>December 1998-February 1999</td>
</tr>
<tr>
<td>First, paper pilot (non-cohort sample)</td>
<td>July 1999</td>
</tr>
<tr>
<td>Development of CAPI/CASI program</td>
<td>July-October 1999</td>
</tr>
<tr>
<td>Development of instrumentation completed</td>
<td>August 1999</td>
</tr>
<tr>
<td>Second, CAPI/CASI pilot - ‘dress rehearsal’ (cohort sample)</td>
<td>September 1999</td>
</tr>
<tr>
<td>First briefings for main surveys</td>
<td>October 1999</td>
</tr>
<tr>
<td>Main fieldwork for both follow-ups begins</td>
<td>November 1999</td>
</tr>
<tr>
<td>Coding frames for open answers agreed, coding begins</td>
<td>March 2000</td>
</tr>
<tr>
<td>Last briefings for main surveys</td>
<td>April 2000</td>
</tr>
<tr>
<td>Meeting with advisors to report progress</td>
<td>May 2000</td>
</tr>
<tr>
<td>Fieldwork ends/tracing of cohort members ends</td>
<td>September 2000</td>
</tr>
<tr>
<td>Coding and editing completed/Last data transferred to CLS</td>
<td>December 2000</td>
</tr>
<tr>
<td>Initial assessment of data by CLS and advisors begins</td>
<td>January 2001</td>
</tr>
<tr>
<td>Deposit of initial cross-sectional data for both follow-ups</td>
<td>July 2001</td>
</tr>
</tbody>
</table>
NCDS/BCS70 DATA

The main data for the recent NCDS and BCS70 follow-ups is supplied to the UK Data Archive in the form of a single, combined SPSS dataset. This holds 5,188 variables for a total of 22,680 cases – 11,419 NCDS and 11,261 BCS70.

As the table below shows, the bulk of these (over 98%) represent full interviews accompanied by a self-completion. The majority of the remainder are full interviews, where the self-completion was not answered, although there are also a small number of incomplete or partial interviews. Short proxy interviews were undertaken with a family member or carer where the cohort member was unable to understand or respond to questions put by the interviewer or to the self-completion. On a small number of occasions where the cohort member could understand and respond with the aid of an interpreter, an interview was attempted where a family member or carer was able to act as an intermediary.

<table>
<thead>
<tr>
<th></th>
<th>NCDS</th>
<th>BCS70</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full interview &amp; self completion</td>
<td>11,281</td>
<td>11,116</td>
<td>22,397</td>
</tr>
<tr>
<td>Full interview, no self-completion</td>
<td>94</td>
<td>88</td>
<td>182</td>
</tr>
<tr>
<td>Partial interview</td>
<td>13</td>
<td>22</td>
<td>35</td>
</tr>
<tr>
<td>Proxy interview</td>
<td>31</td>
<td>35</td>
<td>66</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>11,419*</td>
<td>11,261*</td>
<td>22,680</td>
</tr>
</tbody>
</table>

- 10 NCDS and 7 BCS70 interviews where carried out with the aid of an interpreter (normally another family member)

**Source:** Crosstabulation of UNOUT x SAMPLE x INTWHO

**Variable names** - The variable names on the dataset are those automatically allocated by the CAPI program (Blaise 3). Within the Blaise, each question has a variable name (rather than number), made up of a maximum of 8 characters, and this is used to determine the variable name on the dataset.

Where the question is repeated (eg: the same question is asked for each birth, relationship, job, qualification, etc reported), Blaise automatically allocates a number suffix (eg: name, name2, name3, name4). Unfortunately, where the variable name in the Blaise program was originally more than 6 characters long, Blaise truncates the name to allow for the suffix. As a result, there is not always a simple match between the Blaise program documentation and the data.

A somewhat extreme example of the range of variable names that may be encountered is given in the table below. In the interview, the question: “Who is the other parent of (name of baby)?” was repeated for each child conceived in each pregnancy. In Blaise, and in the CAPI documentation, this question has the name ‘WHOPARB’. In the dataset, variable names are reserved for a maximum of 5 children conceived in each of a maximum of 8 pregnancies. Only for the first baby reported as conceived in the first reported pregnancy does the variable have the name WHOPARB. Blaise allocates modified variable names for each of the 39 other variables which identify the “other parent”. It is important to note that information on pregnancy history was gathered by starting with the most recent pregnancy.

A full list of the variables relating to pregnancy history is given in Appendix 1.

Details of the CAPII program are to be found in the following, which also accompanies the data deposit:

**NCDS/BCS70 1999-2000 Follow-ups: CAPI Documentation**
Variable names for the repeated question: “Who is the other parent of (name of baby)?”

The question is repeated for each child conceived (maximum=5) in each pregnancy (maximum=8)

**NB:** Pregnancy 1 is the most recent pregnancy

<table>
<thead>
<tr>
<th>Pregnancy</th>
<th>Baby</th>
<th>Variable name</th>
<th>Pregnancy</th>
<th>Baby</th>
<th>Variable name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1</td>
<td>WHOPARB</td>
<td></td>
<td>5 1</td>
<td>WHOPAR33</td>
<td></td>
</tr>
<tr>
<td>1 2</td>
<td>WHOPARB2</td>
<td></td>
<td>2 2</td>
<td>WHOPAR35</td>
<td></td>
</tr>
<tr>
<td>1 3</td>
<td>WHOPARB3</td>
<td></td>
<td>3 3</td>
<td>WHOPAR37</td>
<td></td>
</tr>
<tr>
<td>1 4</td>
<td>WHOPARB4</td>
<td></td>
<td>4 4</td>
<td>WHOPAR39</td>
<td></td>
</tr>
<tr>
<td>1 5</td>
<td>WHOPARB5</td>
<td></td>
<td>5 5</td>
<td>WHOPAR41</td>
<td></td>
</tr>
<tr>
<td>2 1</td>
<td>WHOPARB6</td>
<td></td>
<td>6 1</td>
<td>WHOPAR43</td>
<td></td>
</tr>
<tr>
<td>2 2</td>
<td>WHOPARB7</td>
<td></td>
<td>2 2</td>
<td>WHOPAR45</td>
<td></td>
</tr>
<tr>
<td>2 3</td>
<td>WHOPARB8</td>
<td></td>
<td>3 3</td>
<td>WHOPAR47</td>
<td></td>
</tr>
<tr>
<td>2 4</td>
<td>WHOPARB9</td>
<td></td>
<td>4 4</td>
<td>WHOPAR49</td>
<td></td>
</tr>
<tr>
<td>2 5</td>
<td>WHOPAR11</td>
<td></td>
<td>5 5</td>
<td>WHOPAR51</td>
<td></td>
</tr>
<tr>
<td>3 1</td>
<td>WHOPAR13</td>
<td></td>
<td>7 1</td>
<td>WHOPAR53</td>
<td></td>
</tr>
<tr>
<td>3 2</td>
<td>WHOPAR15</td>
<td></td>
<td>2 2</td>
<td>WHOPAR55</td>
<td></td>
</tr>
<tr>
<td>3 3</td>
<td>WHOPAR17</td>
<td></td>
<td>3 3</td>
<td>WHOPAR57</td>
<td></td>
</tr>
<tr>
<td>3 4</td>
<td>WHOPAR19</td>
<td></td>
<td>4 4</td>
<td>WHOPAR59</td>
<td></td>
</tr>
<tr>
<td>3 5</td>
<td>WHOPAR21</td>
<td></td>
<td>5 5</td>
<td>WHOPAR61</td>
<td></td>
</tr>
<tr>
<td>4 1</td>
<td>WHOPAR23</td>
<td></td>
<td>8 1</td>
<td>WHOPAR63</td>
<td></td>
</tr>
<tr>
<td>4 2</td>
<td>WHOPAR25</td>
<td></td>
<td>2 2</td>
<td>WHOPAR65</td>
<td></td>
</tr>
<tr>
<td>4 3</td>
<td>WHOPAR27</td>
<td></td>
<td>3 3</td>
<td>WHOPAR67</td>
<td></td>
</tr>
<tr>
<td>4 4</td>
<td>WHOPAR29</td>
<td></td>
<td>4 4</td>
<td>WHOPAR69</td>
<td></td>
</tr>
<tr>
<td>4 5</td>
<td>WHOPAR31</td>
<td></td>
<td>5 5</td>
<td>WHOPAR71</td>
<td></td>
</tr>
</tbody>
</table>

**Variable labels** – The variable labels included on the dataset were also initially derived from the CAPI program. In exporting the SPSS dataset from Blaise, labels based on the wording of questions were automatically allocated. Subsequently, these have been individually reviewed and, where necessary, modified in an effort to ensure that labels are comprehensible and accurate.

Again, particular problems occurred where a question was repeated (eg: the same question is asked for each birth, relationship, job, qualification, etc reported). When initially created, the Blaise-generated dataset had identical labels for each repeat of the question. In revising these labels, efforts have been made to indicate which variables relate to which birth, relationship, job, qualification, etc.

Again, an example based on the repeated question: “Who is the other parent of (name of baby)?” is given below. Within the label, the “(P1)”, “(P2)”, etc identify the first reported pregnancy, second reported pregnancy, etc.; and the “baby1”, “baby2”, etc identify the first, second, etc baby reported as conceived. It is important to note that information on pregnancy history was gathered by starting with the most recent pregnancy. Similar conventions are used for the other histories within the dataset.

**Variable labels for repeated question: “Who is the other parent of (name of baby)?”**

**NB:** Pregnancy 1 is the most recent pregnancy

<table>
<thead>
<tr>
<th>Pregnancy</th>
<th>Baby</th>
<th>Variable name</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1</td>
<td>WHOPARB</td>
<td></td>
<td>(P1) Who is baby1s other parent</td>
</tr>
<tr>
<td>2 1</td>
<td>WHOPARB6</td>
<td></td>
<td>(P2) Who is baby1s other parent</td>
</tr>
<tr>
<td>3 1</td>
<td>WHOPAR13</td>
<td></td>
<td>(P3) Who is baby1s other parent</td>
</tr>
<tr>
<td>4 1</td>
<td>WHOPAR23</td>
<td></td>
<td>(P4) Who is baby1s other parent</td>
</tr>
<tr>
<td>5 1</td>
<td>WHOPAR33</td>
<td></td>
<td>(P5) Who is baby1s other parent</td>
</tr>
<tr>
<td>6 1</td>
<td>WHOPAR43</td>
<td></td>
<td>(P6) Who is baby1s other parent</td>
</tr>
<tr>
<td>7 1</td>
<td>WHOPAR53</td>
<td></td>
<td>(P7) Who is baby1s other parent</td>
</tr>
<tr>
<td>8 1</td>
<td>WHOPAR63</td>
<td></td>
<td>(P8) Who is baby1s other parent</td>
</tr>
</tbody>
</table>
**Value labels** – The value labels are also similarly derived from the Blaise program and have similarly been reviewed and, where necessary, modified in an effort to ensure that labels are comprehensible and accurate.

**Missing values** – In general, the use of CAPI/CASI has meant that missing data is less common than in earlier NCDS/BCS70 surveys. Missing values are not identified as such within the initial dataset (“declared missing” within SPSS), nor are they labelled. However, “refused”, “don’t know”, “not answered” and “not applicable” have been given consistent values and should be readily distinguishable:

<table>
<thead>
<tr>
<th>Value</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>7, 97, 997, 9997, 99997, 999997</td>
<td>Refused</td>
</tr>
<tr>
<td>8, 98, 998, 9998, 99998, 999998</td>
<td>Don’t know</td>
</tr>
<tr>
<td>9, 99, 999, 9999, 99999, 999999</td>
<td>Not answered</td>
</tr>
<tr>
<td>. (sysmis)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Variable order** – The order in which variables appear in the dataset will broadly follow the order of sections, and of questions within sections of the survey instruments.

However, the order is determined by the structure of the Blaise program, which does not necessarily hold each question in the order in which they are put to the respondent. As the example given in the table below illustrates, the sequence of variables in the dataset relating to drug use does not follow the same order as the questions on drug use in the self-completion (and as shown in: National Centre for Social Research NCDS/BCS70 Team (2000) *NCDS/BCS70 CAPI Documentation* which also accompanies the data deposit). This change in order is typically, but not exclusively associated with question sequences which are repeated to produce grid-like data structures (eg: birth, relationship, job, qualification histories, etc).

**Values** – As this was a CAPI/CASI survey, the values should be within the specified range for each variable.

**Consistency** – Again, the use of CAPI/CASI should ensure that all filters have been correctly followed.

Further details of the content of the data set can be found by generating an SPSS ‘data dictionary’. An interactive version of this which facilitates key word/phrase searches of the content of the dataset also accompanies the data deposit:

*NCDS/BCS70 1999-2000 Follow-ups: Interactive Data Dictionary for Combined NCDS/BCS70 SPSS dataset (based on the SPSS Data Dictionary)*

**EXCLUDED VARIABLES**

A number of variables have been removed from the dataset originally derived from the CAPI/CASI program in order to ensure that the anonymity of cohort members is preserved.
Self-completion (CASI) and dataset order of variables relating to drug use

<table>
<thead>
<tr>
<th>Variable</th>
<th>Label</th>
<th>Dataset order</th>
<th>Sequential position</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANNABIS</td>
<td>(SC) Have you ever tried cannabis?</td>
<td>DRUG</td>
<td>6360</td>
<td>(SC) Name of 1st other drug not mentioned</td>
</tr>
<tr>
<td>ECSACY</td>
<td>(SC) Have you ever tried ecstasy?</td>
<td>DRUG12</td>
<td>6365</td>
<td>(SC) Taken 1st other drug in the last 12 mths?</td>
</tr>
<tr>
<td>AMPHET</td>
<td>(SC) Have you ever tried amphetamines?</td>
<td>MORE31</td>
<td>6366</td>
<td>(SC) Taken more than 1 other drug?</td>
</tr>
<tr>
<td>LSD</td>
<td>(SC) Have you ever tried LSD?</td>
<td>DRUG2</td>
<td>6367</td>
<td>(SC) Name of 2nd other drug not mentioned</td>
</tr>
<tr>
<td>POPPER</td>
<td>(SC) Have you ever tried amyl nitrate?</td>
<td>DRUG13</td>
<td>6372</td>
<td>(SC) Taken 2nd other drug in the last 12 mths?</td>
</tr>
<tr>
<td>MAGMUSH</td>
<td>(SC) Have you ever tried magic mushrooms?</td>
<td>MORE32</td>
<td>6373</td>
<td>(SC) Taken more than 2 other drugs?</td>
</tr>
<tr>
<td>COCAINE</td>
<td>(SC) Have you ever tried cocaine?</td>
<td>DRUG3</td>
<td>6374</td>
<td>(SC) Name of 3rd other drug not mentioned</td>
</tr>
<tr>
<td>TEMAZ</td>
<td>(SC) Have you ever tried temazepan?</td>
<td>DRUG14</td>
<td>6379</td>
<td>(SC) Taken 3rd other in the last 12 mths?</td>
</tr>
<tr>
<td>SEMERON</td>
<td>(SC) Have you ever tried semeron?</td>
<td>MORE33</td>
<td>6380</td>
<td>(SC) Taken more than 3 other drugs?</td>
</tr>
<tr>
<td>KETAMINE</td>
<td>(SC) Have you ever tried ketamine?</td>
<td>DRUG4</td>
<td>6381</td>
<td>(SC) Name of 4th other drug</td>
</tr>
<tr>
<td>CRACK</td>
<td>(SC) Have you ever tried crack?</td>
<td>DRUG15</td>
<td>6386</td>
<td>(SC) Taken 4th other drug in the last 12 mths?</td>
</tr>
<tr>
<td>HEROIN</td>
<td>(SC) Have you ever tried heroin?</td>
<td>MORE34</td>
<td>6387</td>
<td>(SC) Taken more than 4 other drugs?</td>
</tr>
<tr>
<td>METHAD</td>
<td>(SC) Have you ever tried methadone?</td>
<td>DRUG5</td>
<td>6388</td>
<td>(SC) Name of 5th other drug</td>
</tr>
<tr>
<td>OTHDRUG</td>
<td>(SC) Have you tried any other illegal drugs?</td>
<td>DRUG16</td>
<td>6393</td>
<td>(SC) Taken 5th other drug in the last 12 mths?</td>
</tr>
<tr>
<td>DRUG12</td>
<td>(SC) Name of 1st other drug not mentioned</td>
<td>MORE35</td>
<td>6394</td>
<td>(SC) Taken more than 5 other drugs?</td>
</tr>
<tr>
<td>DRUG15</td>
<td>(SC) Taken 1st other drug in the last 12 mths?</td>
<td>DRUG6</td>
<td>6395</td>
<td>(SC) Name of 6th other drug</td>
</tr>
<tr>
<td>MORE31</td>
<td>(SC) Taken more than 1 other drug?</td>
<td>DRUG17</td>
<td>6400</td>
<td>(SC) Taken 6th other drug in the last 12 mths?</td>
</tr>
<tr>
<td>DRUG2</td>
<td>(SC) Name of 2nd other drug not mentioned</td>
<td>MORE36</td>
<td>6401</td>
<td>(SC) Taken more than 6 other drugs?</td>
</tr>
<tr>
<td>DRUG13</td>
<td>(SC) Taken 2nd other drug in the last 12 mths?</td>
<td>MORE32</td>
<td>6526</td>
<td>(SC) Have you ever tried cannabis?</td>
</tr>
<tr>
<td>DRUG3</td>
<td>(SC) Name of 3rd other drug not mentioned</td>
<td>ECSACY</td>
<td>6527</td>
<td>(SC) Have you ever tried ecstasy?</td>
</tr>
<tr>
<td>DRUG14</td>
<td>(SC) Taken 3rd other in the last 12 mths?</td>
<td>AMPHET</td>
<td>6528</td>
<td>(SC) Have you ever tried amphetamines?</td>
</tr>
<tr>
<td>MORE33</td>
<td>(SC) Taken more than 3 other drugs?</td>
<td>LSD</td>
<td>6529</td>
<td>(SC) Have you ever tried LSD?</td>
</tr>
<tr>
<td>DRUG4</td>
<td>(SC) Name of 4th other drug</td>
<td>POPPER</td>
<td>6530</td>
<td>(SC) Have you ever tried amyl nitrate?</td>
</tr>
<tr>
<td>DRUG15</td>
<td>(SC) Taken 4th other drug in the last 12 mths?</td>
<td>MAGMUSH</td>
<td>6531</td>
<td>(SC) Have you ever tried magic mushrooms?</td>
</tr>
<tr>
<td>MORE34</td>
<td>(SC) Taken more than 4 other drugs?</td>
<td>COCAINE</td>
<td>6532</td>
<td>(SC) Have you ever tried cocaine?</td>
</tr>
<tr>
<td>DRUG5</td>
<td>(SC) Name of 5th other drug</td>
<td>TEMAZ</td>
<td>6533</td>
<td>(SC) Have you ever tried temazepan?</td>
</tr>
<tr>
<td>DRUG16</td>
<td>(SC) Taken 5th other drug in the last 12 mths?</td>
<td>SEMERON</td>
<td>6534</td>
<td>(SC) Have you ever tried semeron?</td>
</tr>
<tr>
<td>MORE35</td>
<td>(SC) Taken more than 5 other drugs?</td>
<td>KETAMINE</td>
<td>6535</td>
<td>(SC) Have you ever tried ketamine?</td>
</tr>
<tr>
<td>DRUG6</td>
<td>(SC) Name of 6th other drug</td>
<td>CRACK</td>
<td>6536</td>
<td>(SC) Have you ever tried crack?</td>
</tr>
<tr>
<td>DRUG17</td>
<td>(SC) Taken 6th other drug in the last 12 mths?</td>
<td>HEROIN</td>
<td>6537</td>
<td>(SC) Have you ever tried heroin?</td>
</tr>
<tr>
<td>MORE36</td>
<td>(SC) Taken more than 6 other drugs?</td>
<td>METHAD</td>
<td>6538</td>
<td>(SC) Have you ever tried methadone?</td>
</tr>
<tr>
<td>OTHDRUG</td>
<td>(SC) Have you tried any other illegal drugs?</td>
<td>6539</td>
<td>(SC) Have you tried any other illegal drugs?</td>
<td></td>
</tr>
</tbody>
</table>
Some useful variables

Variables included on the initial dataset, which may be of particular value to users are identified below.

### Information Variables

<table>
<thead>
<tr>
<th>Information</th>
<th>Variables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey elements completed</td>
<td>UNOUT, INTWHO</td>
</tr>
<tr>
<td>NCDS or BCS70 respondents</td>
<td>SAMPLE</td>
</tr>
<tr>
<td>Self-completion</td>
<td>UNOUT, CASIINT</td>
</tr>
<tr>
<td>Proxy interviews</td>
<td>UNOUT, IFPROXY</td>
</tr>
<tr>
<td>Identifiers</td>
<td>NSERIAL/BSERIAL</td>
</tr>
<tr>
<td>Sex</td>
<td>DMSEX, CMSEX</td>
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<td>Date of interview</td>
<td>INTDATE/DATEINT</td>
</tr>
<tr>
<td>Derived variables within CAPI</td>
<td>See below</td>
</tr>
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</table>

Additional information about the self-completion, proxy interviews, identifiers and derived variables used within CAPI is given below, along with additional guidance for users.
Self-completion

The self-completion (CASI) was administered at the end of the interview. The interviewer handed the laptop computer used for the interview to the cohort member and explained how they should complete the questionnaire. Where the cohort member was unable or reluctant to use the laptop, the interviewer assisted, and if necessary administered the self-completion as an interview.

The variables which hold the data for the self-completion are identifiable through their labels – all begin with the endorsement “(SC)”. These variables are identified below.

Variables which hold data for the Self-completion (CASI)
(ordered left to right)

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<td>WHOTEACH</td>
<td>WHOCARES</td>
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</table>

Further details of the self-completion are to be found in the following, which also accompanies the data deposit:

Proxy interview

As noted above, where the cohort member was unable to understand or respond to questions put by the interviewer or to the self-completion, short proxy interviews were undertaken with a family member or carer. The variables which hold the data for the proxy interview are identifiable through their labels – all begin with the endorsement "(Proxy)". These variables are identified below.

Variables which hold data for the Proxy Interview
(ordered left to right)

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<td>NORMPRX</td>
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</table>

Further details of the proxy interview are to be found in Appendix 2, and the following, which also accompanies the data deposit:

Identifiers

NCDS and BCS70 have unique identifiers which appear on the datasets already lodged with the UK Data Archive. These identifiers are also to be found on the new dataset.

- **NCDS** – The NCDS identifier is given by the variable NSERIAL. This may be used to match the new data with existing datasets where the same unique identifier will have the variable name SERIAL.

- **BCS70** – Two BCS70 identifiers appear on the dataset:
  - BSERIAL – This should be used to match the new data with existing BCS70 datasets which use the identifier SERIAL.
  - KEY – This should be used to match the new data with existing BCS70 datasets which use the identifier KEY. It may also be used to match with existing datasets in which the unique identifier is given by a combination of ‘CHES number’ and ‘Twincode’. The former will normally be given the variable name: CHESNO; whilst the latter may variously appear as: TC, CTC, TC2, TC10, etc. To facilitate the match it is important to know that:

\[
\begin{align*}
\text{KEY} &= (\text{CHESNO} \times 10) + \text{TC} \\
\text{CHESNO} &= \text{trunc}(\text{KEY}/10) \\
\text{TC} &= \text{mod}(\text{KEY}, \text{CHESNO})
\end{align*}
\]

A NOTE OF CAUTION

The initial dataset may be matched with data from earlier NCDS surveys using the unique identifiers included. However, it is important to note that, to date, efforts have concentrated on an internal (cross-sectional) review of the quality of the data, and although longitudinal linkage has been made, there have been no efforts to validate the link through longitudinal editing. Users merging new and old data are strongly advised to carry out their own checks on the validity of the longitudinal link. They should report the details of any problems encountered to the User Support Group via email (cohort@cls.ioe.ac.uk).
Reference dates for retrospective data/histories

Although NCDS and BCS70 are prospective longitudinal studies, the gap between follow-ups has ensured that each includes a number of retrospective questions, which focus on experience since the previous follow-up. The recent follow-ups were no exception; retrospective information was gathered on pregnancies, relationships, jobs, qualifications and health problems since the last major follow-ups as follows:

- **NCDS**: the reference date was March 1991, representing the time of the last major follow-up in 1991 (NCDS5) when the members of the cohort were aged 33 years.

  This means that the retrospective histories only cover ages 33 to 41 or 42 (depending on date of interview). Similar histories for ages 16 to 33 are to be found in the NCDS4 and NCDS5 datasets. There is one exception. For those not interviewed at NCDS5, information about qualifications was gathered with reference to March 1981, representing the time of the 1981 follow-up (NCDS4) when the cohort were aged 23 years. In order to compile a complete history from age 16 it will be necessary to link data from the NCDS5 and NCDS6 surveys (and for some it will also be necessary to link data from the NCDS4 survey).

- **BCS70**: the reference date was April 1986, representing the time of the major follow-up in 1986 when the members of the cohort were aged 16 years.

  This means that the retrospective data gathered during the recent follow-up provides histories covering the ages 16-29 or 30 (depending on date of interview). The BCS70 1996 Postal Follow-up was not used to define the reference date because it included very few retrospective questions, and because response to the survey was limited by the need to plan and implement the survey in a limited time interval. This was a consequence of the nature of the funding available.

Date of interview

As noted above, fieldwork for the NCDS/BCS70 follow-ups took place between November 1999 and September 2000. Each interview included on the dataset was date-stamped by the laptop used by the interviewer to administer the CAPI/CASI instruments. Although, interviewers were asked at the start of the Blaise program to correct any erroneous date or time, subsequent checking revealed that a small number of interview dates were clearly wrong. Fortunately, it has been possible to correct the majority of these with reference to other survey records.

However, the dates for 9 interviews remain to be resolved. These are identified below, together with details of the fieldwork wave in which it the address was issued to interviewers. It will be seen that all but one interview was carried out as part of wave 3 which began in January 2000. Whilst it is tempting to make an educated guess about the correct date of interview, experience suggests that it is better to await confirmation.

Updates for these cases will be provided as soon as they are available.
### Interview dates: Unresolved errors

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<th>DATEINT</th>
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<td></td>
<td>518148Y</td>
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<td>January 2000</td>
</tr>
</tbody>
</table>

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
CAPI Derived variables

Routing respondents through the interview required the derivation of a number of summary variables within CAPI program. As the table below shows, these provide information in a number of areas, about the household, relationships, children, housing, economic activity and qualifications, which may be of value to users.

Some useful CAPI Derived variables

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<thead>
<tr>
<th>Variable</th>
<th>Label</th>
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<tbody>
<tr>
<td>HHSIZE</td>
<td>Total Number of people in hhld (Derived)</td>
</tr>
<tr>
<td>AGEP</td>
<td>Age of parner [derived]</td>
</tr>
<tr>
<td>SEXP</td>
<td>Sex of partner [derived]</td>
</tr>
<tr>
<td>NUMADCH</td>
<td>No: of adopted kids in hhld [derived]</td>
</tr>
<tr>
<td>ANYCHD</td>
<td>Whether any kids in hhld [derived]</td>
</tr>
<tr>
<td>CHD16F</td>
<td>Any kids aged 0-16yrs in hhld [derived]</td>
</tr>
<tr>
<td>CHD13F</td>
<td>Any kids aged 0-13yrs in hhld [derived]</td>
</tr>
<tr>
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<td>Any kids aged 3+yrs in hhld [derived]</td>
</tr>
<tr>
<td>CHDAGE4</td>
<td>Any kids aged 4-15yrs in hhld [derived]</td>
</tr>
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<td>Any kids aged 5-16 yrs in hhld [derived]</td>
</tr>
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<td>CHD16</td>
<td>Any kids 16+yrs in hhld [derived]</td>
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<tr>
<td>CHD0_6</td>
<td>(CM NCDS) No: of own kids in hhld aged 0-6yrs [derived]</td>
</tr>
<tr>
<td>OWNCHILD</td>
<td>Whether CM has any of their own kids in hhld [derived]</td>
</tr>
<tr>
<td>FATHIN</td>
<td>Whether CMs natural father lives in hhld [derived]</td>
</tr>
<tr>
<td>MOTHIN</td>
<td>Whether CMs natural mother lives in hhld [derived]</td>
</tr>
<tr>
<td>NSPOUSE</td>
<td>Whether CMs spouse in hhld [derived]</td>
</tr>
<tr>
<td>NPART</td>
<td>Whether CMs partner in hhld [derived]</td>
</tr>
<tr>
<td>NUMROOMS</td>
<td>Total no. rooms (derived)</td>
</tr>
<tr>
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<td>(A1-A25) Date moved out (derived)</td>
</tr>
<tr>
<td>MOVIN2-MOVIN25</td>
<td>(A2-A25) Date moved in (derived)</td>
</tr>
<tr>
<td>LIVIN-LIVIN9</td>
<td>(EP1-EP9) Date relationship started (derived)</td>
</tr>
<tr>
<td>LIVOUT-LIVOUT9</td>
<td>(EP1-EP9) Date relationship ended (derived)</td>
</tr>
<tr>
<td>NUM</td>
<td>Total number of babies in ref period [derived]</td>
</tr>
<tr>
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<td>Date 1st-3rd period lp started (derived)</td>
</tr>
<tr>
<td>LONEEND-LONEEND7</td>
<td>Date 1st-3rd period lp ended (derived)</td>
</tr>
<tr>
<td>ABCHAGE-ABCHANGE8</td>
<td>Age of eldest-8th eldest child living elsewhere (derived)</td>
</tr>
<tr>
<td>STRTJOB-SRTJO10</td>
<td>PrevAct1-10: Date started activity (derived)</td>
</tr>
<tr>
<td>CSTRTJOB</td>
<td>Date started current activity (derived)</td>
</tr>
<tr>
<td>NUMGCSE</td>
<td>Total no. of GCSE quals CM has (derived)</td>
</tr>
<tr>
<td>NUMOLVL</td>
<td>Total no. of GCE O Levels CM has [derived]</td>
</tr>
<tr>
<td>NUMCSE</td>
<td>Total no. of CSEs:EDCSE1+EDCSE2 [derived]</td>
</tr>
<tr>
<td>NUMASLVL</td>
<td>Total no. of A/S levels CM has (derived)</td>
</tr>
<tr>
<td>NUMGCSAS</td>
<td>Total no. of GCE A level/S level quals CM has (derived)</td>
</tr>
</tbody>
</table>

All CAPI derived variables include the word ‘derived’ within the label. A full list of CAPI derived variables is given below.

More details of the CAPI derived variables are to be found in the following, which also accompanies the data deposit:

*NCDS/BCS70 1999-2000 Follow-ups: CAPI Documentation*
### CAPI Derived Variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
<th>MOVIN</th>
<th>MOVOUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHSIZE</td>
<td>Total Number of people in hhld (Derived)</td>
<td>MOVIN3</td>
<td>(A3)</td>
</tr>
<tr>
<td>BIRTHDAY</td>
<td>CM day of birthday (derived)</td>
<td>MOVOUT3</td>
<td>(A3)</td>
</tr>
<tr>
<td>AGEP</td>
<td>Age of partner [derived]</td>
<td>MOVIN4</td>
<td>(A4)</td>
</tr>
<tr>
<td>SEXP</td>
<td>Sex of partner [derived]</td>
<td>MOVOUT4</td>
<td>(A4)</td>
</tr>
<tr>
<td>NUMADCH</td>
<td>No: of adopted kids in hhld [derived]</td>
<td>MOVIN5</td>
<td>(A5)</td>
</tr>
<tr>
<td>ANYCHD</td>
<td>Whether any kids in hhld [derived]</td>
<td>MOVIN5</td>
<td>(A5)</td>
</tr>
<tr>
<td>CHD16F</td>
<td>Any kids aged 0-16yrs in hhld [derived]</td>
<td>MOVOUT5</td>
<td>(A5)</td>
</tr>
<tr>
<td>CHD13F</td>
<td>Any kids aged 0-13yrs in hhld [derived]</td>
<td>MOVOUT6</td>
<td>(A6)</td>
</tr>
<tr>
<td>CHDAGE3</td>
<td>Any kids aged 3+yrs in hhld [derived]</td>
<td>MOVIN7</td>
<td>(A7)</td>
</tr>
<tr>
<td>CHDAGE4</td>
<td>Any kids aged 4-15yrs in hhld [derived]</td>
<td>MOVOUT7</td>
<td>(A7)</td>
</tr>
<tr>
<td>CHD5_16</td>
<td>Any kids aged 5-16 yrs in hhld [derived]</td>
<td>MOVIN8</td>
<td>(A8)</td>
</tr>
<tr>
<td>CHD16</td>
<td>Any kids 16+yrs in hhld [derived]</td>
<td>MOVOUT8</td>
<td>(A8)</td>
</tr>
<tr>
<td>CHD16N01</td>
<td>Child reference number [derived]</td>
<td>MOVIN9</td>
<td>(A9)</td>
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<td>CHD16N02</td>
<td>Child reference number [derived]</td>
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<td>(A9)</td>
</tr>
<tr>
<td>CHD16N03</td>
<td>Child reference number [derived]</td>
<td>MOVIN10</td>
<td>(A10)</td>
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<tr>
<td>CHD16N04</td>
<td>Child reference number [derived]</td>
<td>MOVOUT10</td>
<td>(A10)</td>
</tr>
<tr>
<td>CHD16N05</td>
<td>Child reference number [derived]</td>
<td>MOVIN11</td>
<td>(A11)</td>
</tr>
<tr>
<td>CHD16N06</td>
<td>Child reference number [derived]</td>
<td>MOVOUT11</td>
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<td>CHD16N07</td>
<td>Child reference number [derived]</td>
<td>MOVIN12</td>
<td>(A12)</td>
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<td>CHD16N08</td>
<td>Child reference number [derived]</td>
<td>MOVOUT12</td>
<td>(A12)</td>
</tr>
<tr>
<td>CHD16N09</td>
<td>Child reference number [derived]</td>
<td>MOVIN13</td>
<td>(A13)</td>
</tr>
<tr>
<td>CHD16N10</td>
<td>Child reference number [derived]</td>
<td>MOVOUT13</td>
<td>(A13)</td>
</tr>
<tr>
<td>ADPTNU01</td>
<td>Adopted child reference number [derived]</td>
<td>MOVIN14</td>
<td>(A14)</td>
</tr>
<tr>
<td>ADPTNU02</td>
<td>Adopted child reference number [derived]</td>
<td>MOVOUT14</td>
<td>(A14)</td>
</tr>
<tr>
<td>ADPTNU03</td>
<td>Adopted child reference number [derived]</td>
<td>MOVIN15</td>
<td>(A15)</td>
</tr>
<tr>
<td>ADPTNU04</td>
<td>Adopted child reference number [derived]</td>
<td>MOVOUT15</td>
<td>(A15)</td>
</tr>
<tr>
<td>ADPTNU05</td>
<td>Adopted child reference number [derived]</td>
<td>MOVIN16</td>
<td>(A16)</td>
</tr>
<tr>
<td>ADPTNU06</td>
<td>Adopted child reference number [derived]</td>
<td>MOVOUT16</td>
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<td>ADPTNU07</td>
<td>Adopted child reference number [derived]</td>
<td>MOVIN17</td>
<td>(A17)</td>
</tr>
<tr>
<td>ADPTNU08</td>
<td>Adopted child reference number [derived]</td>
<td>MOVOUT17</td>
<td>(A17)</td>
</tr>
<tr>
<td>ADPTNU09</td>
<td>Adopted child reference number [derived]</td>
<td>MOVIN18</td>
<td>(A18)</td>
</tr>
<tr>
<td>ADPTNU10</td>
<td>Adopted child reference number [derived]</td>
<td>MOVOUT18</td>
<td>(A18)</td>
</tr>
<tr>
<td>CHD0_6</td>
<td>(CM NCDS) No: of own kids in hhld aged 0-6yrs [derived]</td>
<td>MOVIN19</td>
<td>(A19)</td>
</tr>
<tr>
<td>OWCNCHLD</td>
<td>Whether CM has any of their own kids in hhld [derived]</td>
<td>MOVOUT19</td>
<td>(A19)</td>
</tr>
<tr>
<td>FATHIN</td>
<td>Whether CMs natural father lives in hhld [derived]</td>
<td>MOVIN20</td>
<td>(A20)</td>
</tr>
<tr>
<td>MOTHIN</td>
<td>Whether CMs natural mother lives in hhld [derived]</td>
<td>MOVOUT20</td>
<td>(A20)</td>
</tr>
<tr>
<td>NSPOUSE</td>
<td>Whether CMs spouse in hhld [derived]</td>
<td>MOVIN21</td>
<td>(A21)</td>
</tr>
<tr>
<td>NPART</td>
<td>Whether CMs partner in hhld [derived]</td>
<td>MOVOUT21</td>
<td>(A21)</td>
</tr>
<tr>
<td>LINENO</td>
<td>Line no. of person from hhld grid [derived]</td>
<td>MOVIN22</td>
<td>(A22)</td>
</tr>
<tr>
<td>SEX</td>
<td>CM gender [derived]</td>
<td>MOVOUT22</td>
<td>(A22)</td>
</tr>
<tr>
<td>AGE</td>
<td>CM age last birthday [derived]</td>
<td>MOVIN23</td>
<td>(A23)</td>
</tr>
<tr>
<td>HSIZE</td>
<td>No: of people in hhld [derived]</td>
<td>MOVOUT23</td>
<td>(A23)</td>
</tr>
<tr>
<td>YEARNOW</td>
<td>Year interview took place (derived)</td>
<td>MOVIN24</td>
<td>(A24)</td>
</tr>
<tr>
<td>NUMROOMS</td>
<td>Total no. rooms (derived)</td>
<td>MOVOUT24</td>
<td>(A24)</td>
</tr>
<tr>
<td>MOVOUT</td>
<td>(A1) Date moved out (derived)</td>
<td>MOVIN25</td>
<td>(A25)</td>
</tr>
<tr>
<td>MOVIN2</td>
<td>(A2) Date moved in (derived)</td>
<td>MOVOUT25</td>
<td>(A25)</td>
</tr>
<tr>
<td>MOVOUT2</td>
<td>(A2) Date moved out (derived)</td>
<td>LIVIN</td>
<td>(EP1)</td>
</tr>
</tbody>
</table>

NCDS/BCS70 1999-2000 Follow-ups: Guide to the Combined Dataset
### CAPI Derived Variables (continued)

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
<th>Derived from</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIVOUT</td>
<td>Date relationship ended (derived)</td>
<td>LINEGRI9 9th adopted child listed in hhld grid (derived)</td>
</tr>
<tr>
<td>LIVIN2</td>
<td>Date relationship started (derived)</td>
<td>LINEGR10 1st child 16+ in hhld grid (derived)</td>
</tr>
<tr>
<td>LIVOUT2</td>
<td>Date relationship ended (derived)</td>
<td>LINEGR11 2nd child 16+ in hhld grid (derived)</td>
</tr>
<tr>
<td>LIVIN3</td>
<td>Date relationship started (derived)</td>
<td>LINEGR12 3rd child 16+ in hhld grid (derived)</td>
</tr>
<tr>
<td>LIVOUT3</td>
<td>Date relationship ended (derived)</td>
<td>LINEGR13 4th child 16+ in hhld grid (derived)</td>
</tr>
<tr>
<td>LIVIN4</td>
<td>Date relationship started (derived)</td>
<td>LINEGR14 5th child 16+ in hhld grid (derived)</td>
</tr>
<tr>
<td>LIVOUT4</td>
<td>Date relationship ended (derived)</td>
<td>LINEGR15 6th child 16+ in hhld grid (derived)</td>
</tr>
<tr>
<td>LIVIN5</td>
<td>Date relationship started (derived)</td>
<td>LINEGR16 7th child 16+ in hhld grid (derived)</td>
</tr>
<tr>
<td>LIVOUT5</td>
<td>Date relationship ended (derived)</td>
<td>ABCHAGE Age of eldest child living elsewhere (derived)</td>
</tr>
<tr>
<td>LIVIN6</td>
<td>Date relationship started (derived)</td>
<td>ABCHAGE2 Age of 2nd eldest child living elsewhere (derived)</td>
</tr>
<tr>
<td>LIVOUT6</td>
<td>Date relationship ended (derived)</td>
<td>ABCHAGE3 Age of 3rd eldest child living elsewhere (derived)</td>
</tr>
<tr>
<td>LIVIN7</td>
<td>Date relationship started (derived)</td>
<td>ABCHAGE4 Age of 4th eldest child living elsewhere (derived)</td>
</tr>
<tr>
<td>LIVOUT7</td>
<td>Date relationship ended (derived)</td>
<td>ABCHAGE5 Age of 5th eldest child living elsewhere (derived)</td>
</tr>
<tr>
<td>LIVIN8</td>
<td>Date relationship started (derived)</td>
<td>ABCHAGE6 Age of 6th eldest child living elsewhere (derived)</td>
</tr>
<tr>
<td>LIVOUT8</td>
<td>Date relationship ended (derived)</td>
<td>ABCHAGE7 Age of 7th eldest child living elsewhere (derived)</td>
</tr>
<tr>
<td>LIVIN9</td>
<td>Date relationship started (derived)</td>
<td>ABCHAGE8 Age of 8th eldest child living elsewhere (derived)</td>
</tr>
<tr>
<td>LIVOUT9</td>
<td>Date relationship ended (derived)</td>
<td>STRTJOB PrevAct1: Date started activity (derived)</td>
</tr>
<tr>
<td>NUMP</td>
<td>Total number of babies in ref period [derived]</td>
<td>STRTJOB2 PrevAct2: Date started activity (derived)</td>
</tr>
<tr>
<td>LONESRT</td>
<td>Date 1st period lp started (derived)</td>
<td>STRTJOB3 PrevAct3: Date started activity (derived)</td>
</tr>
<tr>
<td>LONEEND</td>
<td>Date 1st period lp ended (derived)</td>
<td>STRTJOB4 PrevAct4: Date started activity (derived)</td>
</tr>
<tr>
<td>LONESTR2</td>
<td>Date 2nd period of lone parenthood started (derived)</td>
<td>STRTJOB5 PrevAct5: Date started activity (derived)</td>
</tr>
<tr>
<td>LONEEND4</td>
<td>Date 2nd period of lone parenthood ended (derived)</td>
<td>STRTJOB6 PrevAct6: Date started activity (derived)</td>
</tr>
<tr>
<td>LONESTR3</td>
<td>Date 3rd period of lone parenthood started (derived)</td>
<td>STRTJOB7 PrevAct7: Date started activity (derived)</td>
</tr>
<tr>
<td>LONEEND7</td>
<td>Date 3rd period of lone parenthood ended (derived)</td>
<td>STRTJOB8 PrevAct8: Date started activity (derived)</td>
</tr>
<tr>
<td>LINEGRID</td>
<td>1st adopted child listed in hhld grid (derived)</td>
<td>STRTJOB9 PrevAct9: Date started activity (derived)</td>
</tr>
<tr>
<td>LINEGR12</td>
<td>2nd adopted child listed in hhld grid (derived)</td>
<td>STRTJOB10 PrevAct10: Date started activity (derived)</td>
</tr>
<tr>
<td>LINEGR13</td>
<td>3rd adopted child listed in hhld grid (derived)</td>
<td>CSTRTJOB Date started current activity (derived)</td>
</tr>
<tr>
<td>LINEGR14</td>
<td>4th adopted child listed in hhld grid (derived)</td>
<td>NUMGCSE Total no. of GCSE quals CM has (derived)</td>
</tr>
<tr>
<td>LINEGR15</td>
<td>5th adopted child listed in hhld grid (derived)</td>
<td>NUMOLVL Total no. of GCE O Levels CM has [derived]</td>
</tr>
<tr>
<td>LINEGR16</td>
<td>6th adopted child listed in hhld grid (derived)</td>
<td>NUMCSE Tot no. of CSEs: EDCSE1+EDCSE2 [derived]</td>
</tr>
<tr>
<td>LINEGR17</td>
<td>7th adopted child listed in hhld grid (derived)</td>
<td>NUMASLVL Total no. of A/S levels CM has (derived)</td>
</tr>
<tr>
<td>LINEGR18</td>
<td>8th adopted child listed in hhld grid (derived)</td>
<td>NUMGCSAS Total no. of GCE A level/S level quals CM has (derived)</td>
</tr>
</tbody>
</table>
FURTHER ASSESSMENT OF DATA QUALITY

In addition to the checks that were built into the CAPI code, or undertaken immediately after fieldwork, members of the CLS NCDS/BCS70 team have carried out further checks. In this task they have been greatly assisted by a number of researchers who are members of the NCDS/BCS70 Advisory Groups and/or their associates and, as such, are experienced in the use of data from previous NCDS/BCS70 follow-ups.

It can take some time to become familiar with a large and complex dataset, such as this, and it is important to stress that the checking continues. However, in assessing the quality of the new data, the CLS team and advisors were asked to concentrate on the aspects listed below.

Guide for Quality Assessment

- **Variable labels** – Check that these are present for all variables, comprehensible and accurate.
- **Value labels** – Check that these are present where appropriate, comprehensive, comprehensible and accurate.
- **Values** – Report all variables for which the values appear unusual/wrong in any way.
- **Consistency** – Report all instances of apparent inconsistency, *eg*:
  - Where the responses to a primary (filter) question (*eg*: “Do you have any of the qualifications on this card?”) and supplementary (filtered) question (*eg*: “IF YES, Which?”) are not consistent.
  - Where the respondent’s circumstances (*eg*: marital status, economic status) are not consistent throughout the dataset.
- **Missing values** – Report all instances where:
  - There are many missing cases.
  - Missing values are present but not declared or labelled.
- **Variable order** – Report all instances where confusion occurs because variables appear out of sequence.
- **Other problems** – Report any and all other problems encountered in using the dataset.
- **Derived variables** – Provide details of any derived variables developed which may be of value to other users and which may be considered for deposit with the UK Data Archive.
Some of the information presented above has drawn on lessons learned as a result of this quality assessment. Additional, and more detailed information and guidance is given below, organised by survey topic.

A list of the advisors and their associates who contributed to the assessment of the quality of the data, and whose work is drawn on below is given in Appendix 3. The contribution of individual advisors is acknowledged below. Wherever appropriate, the detailed documentation provided by advisors is included in Appendices 4-8.

Survey topics

Household
Housing
Relationships
Children
Family Social Relationships & Support
Family Income
Employment
Lifelong Learning
Health
Citizenship and Values
Self-completion (covering attitudes/especially sensitive topics)
HOUSEHOLD

<table>
<thead>
<tr>
<th>Household Grid</th>
<th>Fairly standard grid. Gathers details of sex, age, relationship to respondent, marital status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethnicity</td>
<td>Based on the new question being developed for the 2001 Census</td>
</tr>
<tr>
<td>Language spoken in the home</td>
<td>Language usually spoken</td>
</tr>
</tbody>
</table>

Review of these data by the CLS NCDS/BCS70 Team and by advisors has, to date, revealed no particular problems, nor have any derived variables been developed. (A number of CAPI derived variables are available – see above).

However, it should be noted that the household grid includes information about the current de-facto marital status for all persons in the household. For a small number of cohort members, this information has been shown to be inconsistent with information about their legal marital status recorded later in the interview. Further details are reported below under ‘Relationships’.

The data will continue to be investigated and, if necessary, detailed updates will be made available, and the dataset will be updated.

Queries about problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
HOUSING

<table>
<thead>
<tr>
<th>Housing</th>
<th>Current address</th>
<th>Rooms, heating, housing benefit, tenure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intentions to move</td>
<td>Moving, future tenure, why moving</td>
<td></td>
</tr>
<tr>
<td>Property inheritance</td>
<td>Ever inherited house/flat, when</td>
<td></td>
</tr>
<tr>
<td>Homelessness</td>
<td>Experience of, number of times, date of last, why, where stayed, duration, applied to LA</td>
<td></td>
</tr>
<tr>
<td>Housing history</td>
<td>Works backwards from last address. Seeks details of: dates, tenure, living arrangements, reasons for moving.</td>
<td></td>
</tr>
</tbody>
</table>

Review of these data by the CLS NCDS/BCS70 Team and by advisors has, to date, revealed no particular problems, nor have any derived variables been developed.

The data will continue to be investigated and, if necessary, detailed updates will be made available, and the dataset will be updated.

Queries about problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
RELATIONSHIPS

<table>
<thead>
<tr>
<th>Relationships</th>
<th>Legal status, prior cohabitation, dates of marriage/cohabitation, age, marital status of partner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marital status</td>
<td></td>
</tr>
<tr>
<td>Relationship history</td>
<td>Marriage/cohabiting. Works backwards from last relationship. Seeks details of: dates, sex, age, marital status, marriage, separation/divorce</td>
</tr>
</tbody>
</table>

Partnership status

*(Based on work undertaken by Dr Ann Berrington, University of Southampton)*

The following is based on notes made by Dr Berrington whilst exploring the marital status and partnership history data. A number of problems are identified and solution suggested. The data have not been modified in line with these suggested solutions. Users may make such changes if they wish.

1. Proxy interview – IF PROXY=1

For these 66 individuals no information about marital status is available.

However, information is available in the variables PROXYAC1, PROXYAC2, PROXYAC3 and PROXYAC4 on whether these cohort members had ever been married, had children, a job or education. Just 5 are reported as having been married.

2. Inconsistencies between legal and de-facto marital status

The documentation suggests that at the start of the interview current de-facto marital status is asked for all persons in the household. Later on in the questionnaire, cohort members are asked for their legal marital status. Cross-tabulation of these two variables (MS and MARSTAT2) suggests a number of inconsistencies.

a) 140+1 =141 cases give a valid legal marital status but have missing information for de-facto marital status.

   Use the information from the household grid to identify the de-facto marital status

   (i) MARSTAT2=1, MS=missing (n=76)

   Most of these people do not have a current partner in the household, i.e. NPART=0, NSPOUSE=0. Code these as MS=3. 4 cases have a current partner – code these as MS=2. However, only one of these four goes on to provide any information about their current partner

   (ii) MARSTAT2=2 or 3, MS=missing (n=42)

   Classify all those living with a spouse (NSPOUSE=1) as de-facto currently married (n=12). The remainder can be classified as de-facto separated (n=30). NOTE: This assumes that all there is no spouse who was missed on the household grid – see comment later on.

   (iii) MARSTAT2=4 or 5 or 6, MS=missing

   3 cases report a current partner in the household grid. 2 of the 3 provide details of this current partner. These 3 can be coded as cohabiting, the remainder can be coded as MS=MARSTAT2.

b) 12 people gave a valid code for de-facto marital status but no information for legal marital status.

   Code all of those who have a de-facto status of “single never married” as legal marital status “never married” (n=3).
Code those whose de-facto marital status is “divorced” as legal marital status “divorced” (n=1).

Code those whose de-facto marital status is “separated” as legal marital status “separated” (n=1). Use information from the partnership history data to identify the legal marital status of the 7 cases who are currently married or cohabiting. I.e. identify whether these individuals have been previously married.

c) 24 cases report themselves as legally separated but de-facto married. 12 appear to have a partner in the household. We can’t tell for definite whether these are married to their partner as CURPARTB is missing for all: code either as MS=1 or 2. The remaining 12 do not appear to have a partner: code either as MS=1 or 2. The remaining 12 do not appear to have a partner: code as MS=4.

d) 2 cases say that they are legally separated and say that they are single never married. In fact they were both previously legally married and experienced marital dissolution. One went on to have a current cohabiting partnership and should be coded as MS=2, whilst the other should be coded MS=4.

e) 10 cases say that they are legally divorced but currently married. 7 of these appear to be currently cohabiting and could be coded MS=2. The remaining 3 do not have a current partner and so should be coded MS=5.

f) 2 cases say that they are legally widowed and currently married. Both appear to be cohabiting and so should be coded MS=2.

g) 3 cases say that they are legally divorced but currently widowed. One of these is cohabiting and should be coded MS=2. The other has no partner and should be coded as MS=5.

h) 1 case says that they are legally widowed and their de-facto status is divorced. This person appears to be cohabiting and could be coded MS=2.

3. Inconsistencies between reported current de-facto marital status (MS) and the derived variable indicating whether a spouse or partner is present.

There are 316 cases who are either currently married or cohabiting (MS=1 or 2) where NPART=0 and NSPOUSE=0. It may be that in all of these cases there is a partner living elsewhere. For the analyses discussed below these 316 cases are deleted.

A total of 500 of those who report de-facto status separated, divorced or widowed (MS=4-6), also report a current partner in the household. All 500 provide a valid code for the year and month of their current partnership. These cases can be recoded as cohabiting MS=2.

4. Inconsistencies between CURPART and CURPARTC for those who did not live together before marriage.

There appear to be two start dates for the start of the current partnership among those who said that they did not live together before marriage. Was this on purpose – to act as a check? For 203 cases the year as reported in CURPART and CURPARTC was not the same. For some of these cases CURPARTC>CURPART suggesting perhaps a period of co-residence which was not considered “living together”? In other cases CURPAETC<CURPART which though possible seems unlikely.

5. Years and months of start and end dates of partnerships.

The data appear to be very complete with very few missing cases for months of marriage and cohabitation. Given the obvious heaping of the dates, especially of cohabitation, on June (and September to a lesser extent) it would be helpful to clarify whether these months were estimated in the field by the respondent (as per the questionnaire instructions), whether they were estimated in the field by the interviewer, or whether there has been some post-field imputation.

As a result of this estimation there are inevitably some inconsistencies between the start of date of cohabitation and marriage. For example among those respondents who are currently married and who lived with their spouse prior to marriage:
88 cases give the same month and year for the start of cohabitation and marriage

30 individuals have a negative period of premarital cohabitation.

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Partnership Histories (BCS70 cohort members only)

*(Based on work undertaken by Dr Ann Berrington, University of Southampton)*

The following problem cases have been identified by Dr Berrington for BCS70 cases:

**NB:** The identifiers listed below are for the variable BSERIAL – the unique identifier used for BCS70 cohort members

1. Union histories incomplete - don't tell us whether they had a previous partnership  
   04230096  06467062  06499041  10652074  10921001  11033011  15357009

2. Missing all partnership information  
   01962229

3. Separated/Divorced/Widowed no current partner and no information on previous partnership  
   00725069  01245013  03228043  05794018  06129076  07393091  08042081
   09855079  11343019  12294077

4. Separated/Divorced/Widowed, MS=2,4,5 No information on current partnership.  
   00437064  01239038  01563047  01881229  02013058  02178069  02215063  02218089
   0310042  03404044  03685084  03940034  04012039  04318022  04356077  04521026
   04540003  05152000  05373082  06338031  07019000  07429086  08007052  08734096
   09203084  09353042  10126060  10388022  11144040  11847006  13600077  14438031
   14507004  14858093  15467063  16349062  17093038  17173063  17537068  17800044

5. Other Inconsistencies in partnership history which could not be resolved  
   00507064  01949055  02688031  03203014  04203093  04361077  05458083  06631036
   07000047  08656021  09784055  10728074  10745000  11528098  13938039  14692092
   16486018  18006056

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
CHILDREN

<table>
<thead>
<tr>
<th>Children</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pregnancy history</td>
<td>Works backwards from last pregnancy conceived/fathered. Seeks details of: outcome, name, sex, birth weight, DOB, problems, smoking in pregnancy, other parent, whereabouts, support and circumstances of absent children</td>
</tr>
<tr>
<td>Lone parenthood</td>
<td>Periods of ≥1 month. Works forward for up to 4 periods. Seeks details of dates and numbers of children</td>
</tr>
<tr>
<td>Infertility</td>
<td>Ability to have and plans for (more) children</td>
</tr>
<tr>
<td>Adopted children</td>
<td>For up to 4 children. Seeks details of age of child on adoption and nature of adoption</td>
</tr>
<tr>
<td>Partner’s children from a previous relationship</td>
<td>Number, whether seen or visit</td>
</tr>
<tr>
<td>Children over 16 (NCDS only)</td>
<td>Name, age, economic, marital and parent status</td>
</tr>
<tr>
<td>Absent formerly resident children (NCDS only)</td>
<td>Name, age, whereabouts, economic, marital and parent status; CM contact and payments for children absent from the household, but who were living with CM in 1991</td>
</tr>
<tr>
<td>Family activities</td>
<td>Things done as a family</td>
</tr>
<tr>
<td>Demands of parenting</td>
<td>Physical/emotional/time demands, worries, closeness of family</td>
</tr>
</tbody>
</table>

Pregnancy Histories

*(Based on work undertaken by Dr Ann Berrington, University of Southampton and subsequently by the CLS NCDS/BCS70 Team)*

In analysing the fertility histories, Dr Berrington noted that the data seems generally to be in good shape, if rather cumbersome to work with. However, she did note “…a significant minority who have reported consecutive pregnancies in one confinement…”.

As noted above, during the interview, information was gathered for each child conceived in each pregnancy, starting with the most recent and working back through each earlier pregnancy. This means that the birth dates recorded in the most recent pregnancy must be later than those recorded in the second most recent, etc. It also means that within any one pregnancy, the dates recorded for each child conceived should be similar if not the same.

Further investigation by the CLS NCDS/BCS70 Team suggests that Dr Berrington was indeed correct to be concerned. For some cohort members, the dates of successive pregnancies appear to be recorded in the variables reserved for multiple outcomes of a single pregnancy. This appears to be true for some 261 cases (154 BCS70 and 107 NCDS), although in some instances the apparent error may reflect the timing of a mix of outcomes, including live births, stillbirths and miscarriages. For some, there may also be a problem with the order of pregnancies which do not appear to start with the most recent and work backward.

Following further investigation, a list of detailed updates will be made available, and the dataset will be updated. In the meantime, a list of the cases which currently appear to be effected by this problem is given below.

**NB:** The identifiers listed below are for the variables NSERIAL and BSERIAL
### NCDS

<table>
<thead>
<tr>
<th>Code</th>
<th>Number</th>
<th>Code</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>044014L</td>
<td>045002J</td>
<td>094028E</td>
<td>089005Z</td>
</tr>
<tr>
<td>091017J</td>
<td>092206S</td>
<td>093052W</td>
<td>099010M</td>
</tr>
<tr>
<td>110244V</td>
<td>12008X</td>
<td>130406T</td>
<td>100009C</td>
</tr>
<tr>
<td>218005B</td>
<td>235011T</td>
<td>283016T</td>
<td>380014R</td>
</tr>
<tr>
<td>385005P</td>
<td>400075Q</td>
<td>481001R</td>
<td>500125L</td>
</tr>
<tr>
<td>512002L</td>
<td>528021D</td>
<td>513033C</td>
<td>514012Z</td>
</tr>
<tr>
<td>720027P</td>
<td>750043F</td>
<td>823051Q</td>
<td>850027R</td>
</tr>
<tr>
<td>882051T</td>
<td>933019C</td>
<td>937020J</td>
<td>950168T</td>
</tr>
<tr>
<td>985067J</td>
<td>986100J</td>
<td>986250D</td>
<td>986431J</td>
</tr>
<tr>
<td>X60006M</td>
<td>Y00293N</td>
<td>Y01189Y</td>
<td>Y20134D</td>
</tr>
<tr>
<td>Y02134D</td>
<td>Y20154L</td>
<td>Y30179F</td>
<td>Y31043N</td>
</tr>
</tbody>
</table>

### BCS70

<table>
<thead>
<tr>
<th>Code</th>
<th>Number</th>
<th>Code</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0027906</td>
<td>00387068</td>
<td>00530014</td>
<td>00607090</td>
</tr>
<tr>
<td>0126004</td>
<td>01618019</td>
<td>01763001</td>
<td>01850050</td>
</tr>
<tr>
<td>0293408</td>
<td>02939057</td>
<td>03050020</td>
<td>03264047</td>
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<tr>
<td>0439403</td>
<td>05014068</td>
<td>05030071</td>
<td>05289032</td>
</tr>
<tr>
<td>0558506</td>
<td>05794018</td>
<td>06030073</td>
<td>06092005</td>
</tr>
<tr>
<td>0630507</td>
<td>06460083</td>
<td>06480086</td>
<td>06501030</td>
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<tr>
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<td>06950022</td>
<td>07050079</td>
<td>07420034</td>
</tr>
<tr>
<td>0807006</td>
<td>08230086</td>
<td>08260063</td>
<td>08280015</td>
</tr>
<tr>
<td>0871009</td>
<td>08980021</td>
<td>09030049</td>
<td>09120028</td>
</tr>
<tr>
<td>0926009</td>
<td>09620069</td>
<td>09310011</td>
<td>09320038</td>
</tr>
<tr>
<td>0971009</td>
<td>09830047</td>
<td>09980026</td>
<td>10040050</td>
</tr>
<tr>
<td>1058205</td>
<td>10657050</td>
<td>10765052</td>
<td>10930029</td>
</tr>
<tr>
<td>1148002</td>
<td>11630006</td>
<td>11700049</td>
<td>12150070</td>
</tr>
<tr>
<td>1356013</td>
<td>13930037</td>
<td>13940090</td>
<td>14130024</td>
</tr>
<tr>
<td>1486904</td>
<td>14978022</td>
<td>15080081</td>
<td>15590082</td>
</tr>
<tr>
<td>1557106</td>
<td>15730066</td>
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<td>1671709</td>
<td>16820069</td>
<td>17380019</td>
<td>18030061</td>
</tr>
</tbody>
</table>

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
FAMILY SOCIAL RELATIONSHIPS & SUPPORT

<table>
<thead>
<tr>
<th>Family, Social Relationships &amp; Support</th>
<th>Contact with family</th>
<th>Emotional support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parents alive/contact/close/divorce/worries/help. Contact with siblings/in-laws/grandparents</td>
<td>Sources/nature of emotional support</td>
<td></td>
</tr>
</tbody>
</table>

Review of these data by the CLS NCDS/BCS70 Team and by advisors has, to date, revealed no particular problems, nor have any derived variables been developed.

The data will continue to be investigated and, if necessary, detailed updates will be made available, and the dataset will be updated.

Queries about problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
## FAMILY INCOME

<table>
<thead>
<tr>
<th>Family Income</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Income</td>
<td>Income from benefits and regular income from other sources</td>
</tr>
<tr>
<td></td>
<td>received by respondent and/or partner</td>
</tr>
<tr>
<td>Financial situation</td>
<td>Organisation of household money and money problems</td>
</tr>
</tbody>
</table>

*(Based on work undertaken by Dr Gaëlle Pierre, Institute for Employment Research, University of Warwick)*

In reviewing the data on ‘Family income’, Dr Pierre has reported that, for some BCS70 cases, values for amount of benefit received (BENAMT- BENAMT25) and the amount of other income (INCAMT- INCAMT12) appear quite high.

This will be subject to further investigation by the CLS NCDS/BCS70 Team, following which a list of necessary updates will be made available, and the dataset will be updated. In the meantime, users should use these data with some caution.

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
EMPLOYMENT

<table>
<thead>
<tr>
<th>Employment</th>
<th>Fairly standard question</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economic activity</td>
<td></td>
</tr>
<tr>
<td>Current job</td>
<td>Seeks details of: earnings, hours, fringe and other benefits, pensions, prospects</td>
</tr>
<tr>
<td>Other paid work</td>
<td>Weekly earnings from odd/casual jobs</td>
</tr>
<tr>
<td>Currently unemployed</td>
<td>How became unemployed and job search</td>
</tr>
<tr>
<td>Labour market histories</td>
<td>Periods in a job or not in a job lasting ≥1 month. Works backwards. Seeks details of: circumstances and dates. If in job gathers details of job, employer, responsibilities (for SOC and SIC coding)</td>
</tr>
<tr>
<td>Partner’s job</td>
<td>Age left full-time education, economic status, job, employer, responsibilities (for SOC and SIC coding), earnings</td>
</tr>
</tbody>
</table>

Earnings and hours worked

*(Based on work undertaken by Dr Gaëlle Pierre, Institute for Employment Research, University of Warwick)*

In reviewing the data on employment, Dr Pierre has noted the following:

1. Some respondents report numbers of hours worked below 30 while reporting f/t employment (for both employees and self-employed).

2. Some of the observations on pay appear very low/high.

Further information about earnings are given below.

3. Some of the Standard Industrial Classification (SIC) codes are not in the SIC classification, and some are missing.

Further details of the SIC coding are to be found in the following which also accompanies the data deposit:


4. Some of the previous activities have the same start dates.

5. Some of the start years for previous activities are equal to 9999 or 9998. As noted above, the following missing values will be found within the data:

   **Missing values (unless otherwise labelled)**

<table>
<thead>
<tr>
<th>Number(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7, 97, 997, 9997, 999997</td>
<td>Refused</td>
</tr>
<tr>
<td>8, 98, 998, 9998, 99998</td>
<td>Don’t know</td>
</tr>
<tr>
<td>9, 99, 999, 9999, 99999, 999999</td>
<td>Not answered</td>
</tr>
<tr>
<td>. (sysmis)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

6. Some of the start years for the current activity go back to when the respondent was younger than 16. One observation reports a start year of 1958 for a BCS70 respondent.
These problems will be subject to further investigation by the CLS NCDS/BCS70 Team, following which a list of necessary updates will be made available, and the dataset will be updated. In the meantime, users should use these data with some caution.

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Earnings

*(Based on work undertaken by Lorraine Dearden and Alissa Goodman, Institute for Fiscal Studies)*

In reviewing the data on earnings, Lorraine Dearden and Alissa Goodman have identified a number of problems and produced a number of very valuable revised and derived variables. These are briefly described below. Further details of all variables are to be found in the detailed documentation supplied by Lorraine Dearden and Alissa Goodman, which is included as Appendix 4.

### Section 1. Interview date

1. **Corrected interview date**
   - **Name:** lintdate
   - **Description:** Corrected interview date
   - **Purpose:** To correct interview dates that were originally coded as outside the interviewing period. In the original data there were 23 individuals whose interview dates were not between 10/99 and 9/00.

### Section 2. Deflators

2. **RPI at interview date**
   - **Name:** rpi_int
   - **Description:** Retail price index (RPI) for month of interview, where Jan 2001 = 1.000.
   - **Purpose:** To allow wages, incomes etc. to be converted into other prices. To uprate wages to Jan 2001 prices, divide by this deflator.

### Section 3. Employment variables

3. **Total usual weekly hours**
   - **Name:** Hours
   - **Description:** Total usual weekly hours, including paid and unpaid overtime, not including meal breaks.
   - **Purpose:** To derive a measure of total hours usually worked, in order to convert gross and net pay information available into an hourly pay measure.

4. **Imputed/Corrected net last pay**
   - **Name:** Inetpay
   - **Description:** Imputed or corrected net last pay variable.
   - **Purpose:** Clean last net pay variable, corrected for implausible values.

5. **Imputed/Corrected net period**
   - **Name:** Inetprd
   - **Description:** Imputed or corrected net last pay PERIOD variable.
   - **Purpose:** Clean last net pay PERIOD variable, corrected for implausible values and imputed from gross where net unavailable

6. **Imputed/Corrected gross pay**
   - **Name:** Igropay
   - **Description:** Imputed or corrected gross last pay variable.
   - **Purpose:** Clean last gross pay variable, corrected for implausible values and imputed from gross where net unavailable

7. **Imputed/Corrected gross period**
   - **Name:** Igroprd
   - **Description:** Imputed or corrected gross last pay PERIOD variable.
Purpose: Clean last gross pay PERIOD variable, corrected for implausible values and imputed from gross where net unavailable

8. Hourly net last pay
Name: hr_net
Description: Hourly net last pay.
Purpose: Clean hourly equivalent last net pay. Where net pay variables are missing but gross pay variables are available, net pay has been imputed from gross using known parameters of the tax system in the relevant year.

9. Annual net last pay
Name: ann_net
Description: Clean annual equivalent net last pay. Where net pay variables are missing but gross pay variables are available, net pay has been imputed from gross using known parameters of the tax system in the relevant year.
Purpose: Clean annual equivalent last net pay, with missing values imputed wherever possible.

10. Hourly gross last pay
Name: hr_gro
Description: Clean hourly equivalent last gross pay. Where gross pay variables are missing but net pay variables are available, gross pay has been imputed from net using known parameters of the tax system in the relevant year.
Purpose: Clean hourly equivalent gross last pay, with missing values imputed wherever possible.

11. Annual gross last pay
Name: ann_gro
Description: Clean annual equivalent last gross pay. Where gross pay variables are missing but net pay variables are available, gross pay has been imputed from net using known parameters of the tax system in the relevant year.
Purpose: Clean annual equivalent gross last pay with missing values imputed wherever possible.

Section 4. Partner’s earnings variables

12. Partner’s Imputed/Corrected last net pay
Name: Ipnetpay
Description: Partner’s last net pay variable, implausible values corrected.
Purpose: Clean partner’s last net pay.

13. Partner’s Imputed/Corrected last net pay PERIOD
Name: Ipnetprd
Description: Partner’s last net pay PERIOD variable, implausible values corrected.
Purpose: Clean partner’s last net pay PERIOD.

14. Partner’s Imputed/Corrected last net pay PERIOD
Name: Ipnpred
Description: Partner’s last net pay PERIOD variable, implausible values corrected.
Purpose: Clean partner’s last net pay PERIOD.

15. Partner’s annual last net pay
Name: ann_pnet
Description: Annual equivalent of partner’s last net pay, implausible values corrected.
Purpose: Clean annual equivalent partner’s last net pay

16. Partner’s IMPUTED annual last gross pay
Name: ann_pgro
Description: Annual equivalent of partner’s last gross pay, imputed from partner’s last net pay using the known parameters of the tax system in the relevant year.
Purpose: Clean annual equivalent partner’s last gross pay - imputed from net.

Section 5. Intermediate variables – used during cleaning

17. Type of fix to pay variable and period codes
Name: fixtype
Description: Categorical variable containing the type of coding error (if any) which we have identified in the pay information of each employee, and the fix which has been implemented.
Purpose: To identify and record corrections to last net and gross pay variables.

18. Indicator of odd proportion of gross to net pay
Name: oddprop
Description: Indicator of whether ratio of gross to net pay suggests coding error in some of the pay variables which REMAINS UNCORRECTED.
Purpose: To identify odd wage information

19. Indicator of wage variable probably too high or too low
Name: oddwage
Description: Indicator of whether pay variables remain apparently implausibly high or low AFTER CORRECTIONS have been implemented.
Purpose: To identify odd wage information

20. Missing hours variable
Name: zhours.
Description: Indicator of Usual weekly hours variable (hours) missing.

21. Missing hourly net pay indicator
Name: zhr_net.
Description: Indicator of if/ why net hourly pay variable is missing.

22. Missing hourly gross pay indicator
Name: zhr_gro.
Description: Indicator of if/ why gross hourly pay variable is missing.

23. Odd partner’s wage indicator
Name: podd.
Description: Indicator of apparently implausibly high or low partner’s net wage, remaining AFTER CORRECTIONS have been implemented.

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
LIFELONG LEARNING

<table>
<thead>
<tr>
<th>Lifelong Learning</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualifications</td>
<td>Age left full-time education and educational and vocational qualifications held (subjects, grades, dates awarded, where studied)</td>
</tr>
<tr>
<td>Current course for qualification</td>
<td>Qualification, subject(s), date started, where studied</td>
</tr>
<tr>
<td>Assessment of current/most recent course</td>
<td>Why taken and expected/experienced benefits</td>
</tr>
<tr>
<td>Other courses and training</td>
<td>Number, why taken and expected/experienced benefits</td>
</tr>
<tr>
<td>No formal learning</td>
<td>Reasons why no learning</td>
</tr>
<tr>
<td>Learning overview</td>
<td>Use of computers at home and at work</td>
</tr>
<tr>
<td>Contact with information technology</td>
<td>Useful and enjoyable periods of learning</td>
</tr>
<tr>
<td>Literacy and numeracy</td>
<td>Problems with reading, writing and maths, implications and courses to improve</td>
</tr>
</tbody>
</table>

Age left education

*(Based on work undertaken by:)*

- Dr Gaëlle Pierre, Institute for Employment Research, University of Warwick
- Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London

In reviewing the data Lifelong Learning, Dr Pierre has noted problems with the data on the age of leaving full-time education: "...several answers are >30 for NCDS and some NCDS respondents say "still in f/t education...".".

Samantha Parsons has reviewed these and related data and produced the revised and derived variables are identified below. Further details of all variables are to be found in the detailed documentation supplied by Samantha Parsons, which is included as Appendix 5.

Details of further problems identified by Samantha in relation to other aspects of Lifelong Learning and her suggested solutions are summarised below. Details of problems in other areas of the data are given in the sections dealing with ‘Health’ (Diet, food and exercise; Eating problems; Smoking; Drinking; and Accidents), and with the ‘Self-completion’ (Skills and Illegal drug use).

Age left full-time education

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>actage2</td>
<td>607 2.7</td>
<td></td>
<td>^1</td>
<td>22072</td>
</tr>
<tr>
<td>actage2 details age CM left full-time education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>agefle2</td>
<td>66 0.3</td>
<td>6 0</td>
<td>36 0.2</td>
<td>22572</td>
</tr>
<tr>
<td>agefle2 captures CMs who were in full-time education at time of interview</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>furthed2</td>
<td>607 2.7</td>
<td></td>
<td></td>
<td>22073</td>
</tr>
<tr>
<td>furthed2 details CMs who returned to full-time education less than 3 years after initially leaving full-time education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lftmore2</td>
<td>20522 90.5</td>
<td></td>
<td>^2</td>
<td>2156</td>
</tr>
<tr>
<td>lftmore2 details age CM left second period of full-time education</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>plefted</td>
<td>5981 26.4</td>
<td>^12 0.1</td>
<td>^347 2.1</td>
<td>16340</td>
</tr>
<tr>
<td>plefted details age CM partner left full-time education</td>
<td></td>
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</tr>
</tbody>
</table>
### Derived AGE LEFT FULL-TIME EDUCATION Variables

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ageftedu</td>
<td>109</td>
<td>0.5</td>
<td></td>
<td>22571</td>
</tr>
<tr>
<td>Agefted</td>
<td></td>
<td>0.5</td>
<td></td>
<td>22571</td>
</tr>
<tr>
<td>Ageledu</td>
<td></td>
<td>0.5</td>
<td></td>
<td>22571</td>
</tr>
<tr>
<td>Plefted1</td>
<td></td>
<td>0.5</td>
<td></td>
<td>16340</td>
</tr>
</tbody>
</table>

6 category variables combining information from `actagel2` and `agelfte2`. Values: 1'before 16' 2'at 16' 3'post 16' 4'post 18' 5'post 21' 6'still in ft edu'.

Continuous variable combining information from `actagel2`, `agelfte2`, `furthed2` and `lftmore2`. Value range: 14 to 42, 99=still in education

6 category variable collapsing information in `agelfted`. Values: 1'before 16' 2'at 16' 3'post 16' 4'post 18' 5'post 21' 6'still in ft edu'.

5 category variable collapsing information in `plefted1`. Values: 1'before 16' 2'at 16' 3'post 16' 4'post 18' 5'post 21'.

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Qualifications

Problems with reporting of GCSEs

(Based on work undertaken by Andrew Jenkins, Institute of Education, University of London)

In reviewing the data on qualifications, Andrew Jenkins identified problems with the reporting of GCSE qualifications. The nature of the problem is described below in a summary of the report prepared by Andrew. The full report is included as Appendix 6.

1. The Extent of the Problem

The earliest date at which it is possible to have obtain a GCSE qualification is Summer 1988, yet some 94 NCDS cohort members and over 1,000 BCS70 cohort members (CMs) report having obtained one or more GCSEs before 1988. To try to resolve this apparent inconsistency, the data for all of the 94 NCDS CMs and the first 200 BCS CMs have been checked against earlier sweeps of the NCDS/BCS surveys where information on qualifications is also available.

2. GCSE Date Errors for the NCDS

In the 2000 sweep of the data, those NCDS CMs who had participated in the previous sweep in 1991 were asked to supply information on all qualifications which they had obtained since 1991; those who were absent from the previous sweep were asked about all qualifications which they had obtained since 1974, or school leaving age. Asking for information over such a long spell of time is very likely to introduce inaccuracies due to imperfect recall. However, for NCDS, the 2000 sweep represents the sixth follow-up on the lives of cohort members, which means that there is potential information in earlier sweeps which can be used for checking. In 1978, schools and colleges attended by cohort members were contacted and asked to supply details of the qualifications which NCDS CMs had obtained. This is a valuable resource, since it represents an objective source of information on qualifications obtained. The main drawback is that it only covers the period up to 1978. In what follows it is referred to as the EXAMS file. It contains data on the number of qualifications obtained, and also some data on the subjects of qualifications. NCDS4 (1981) some details of qualifications obtained since 1974, but NCDS5 (1991) is more informative. In NCDS5 CMs were asked (a) about qualifications ever obtained and (b) about qualifications obtained since 1981. Note that the NCDS questionnaire did ask for GCSEs, as well as O levels and CSEs. The main drawback of NCDS5 is that it does not tell us about the number of qualifications. For example, CMs were asked if they had CSEs at grades 2-5, but were not asked to report how many they had obtained. It also, of course, has problems of recall errors. The EXAMS file, supplemented by NCDS5, then, are the main sources which we can use to check the accuracy of the data in NCDS6 (2000).

A detailed case-by-case listing for each of the 94 NCDS records in question is contained in Appendix 7, and this should be referred to when considering the summary given here.

Fortunately, most of the 94 cases were present in the EXAMS file, and since the majority of erroneous cases were reporting that they got their GCSEs in the 1973 to 1976 period, the data contained in the EXAMS file is relevant. In more detail, all but ten of the 94 cases were present in the EXAMS file. Out of these, five were present in NCDS5. There is no earlier data for the remaining five.

For some of the remaining cases, EXAMS file data was found to be not relevant because they were reporting GCSE qualifications after 1978, but fortunately this applied to 7 cases. Three of these were covered by NCDS5, but the remaining 4 were not.

In sum, then, there were only 9 cases where data could not be obtained from earlier sweeps to check the GCSE errors in NCDS6.

The majority of those for whom data is available would appear to have CSEs rather than the GCSEs reported in NCDS6. However, some have O levels, and some a mixture of O levels and CSEs. Although a good many cases appear to show confusion between GCSEs and either O levels or CSEs, some cases are less simple, showing differences in the number of O levels recorded in the
EXAMS file and the number of GCSEs listed in NCDS6. In other cases, there is little evidence in the EXAMS file that the qualifications reported in NCDS6 were actually obtained. Other cases show duplication, and can be easily resolved out in the absence of EXAM data.

3. GCSE date errors among a sample of BCS70 cases

Because there are such a large number of GCSE errors among the BCS70 cohort, it has only been possible to look at the first 200 of these (rather less than a fifth of the total).

The BCS70 CMs were one of the last cohorts to sit O levels and CSEs as their school-leaving exams before they were replaced by GCSEs. BCS CMs should only have GCSEs if they stayed in education to at least age 18, or subsequently returned to study for a qualification.

The only source of data for checking the responses in BCS 2000 is the earlier BCS postal survey conducted in 1996. Questions about qualifications in the BCS 1996 survey were asked in the order: CSE, O level, GCSE, rather than the order GCSE, O level, CSE in BCS 2000. Thus checking BCS70 2000 against BCS70 1996 should help to root out errors which may have arisen from the order in which the questions were asked in BCS70 2000. However, BCS70 1996 had a relatively small sample size (n = 9,003), so many of those in BCS70 2000 may not be present in BCS 1996.

Of the 200 BCS70 CMs checked, some 134 (67%) were also present in BCS70 1996. Out of these, 2 also reported GCSEs in BCS70 1996 (although not necessarily the same number as in BCS70 2000); 17 provided no information about qualifications in BCS70 96, and 75 did not report any GCSEs in BCS70 96. Detailed information on each case is presented in Appendix ?.

Among the 134 for whom 1996 data are available it is usually possible to make some reasonable guess as to what should be done about the erroneous GCSE data in BCS 2000. For many, it is clear that the GCSE data should be recoded to O levels, while in others the GCSEs should be recoded as CSEs. Other cases are not quite so obvious, and some, where there are large discrepancies between 1996 and 2000, or where errors have been repeated. The real difficulty is, however, that we have a substantial number of cases not present in 1996, so there is no data to check the BCS 2000 results against.

4. O levels and CSEs reported as gained after 1988

Among all the NCDS CMs, some 59 had reported obtaining one or more O levels after 1988 - after they were (presumably) phased out in 1988.

The dates for the reported O levels were all in the 1990s. The source of the error is likely to be either that (a) they have actually got GCSEs rather than O levels or (b) a mistake was made inputting the data, so that the O level was actually obtained in, say, 1974 but this was coded as 1994.

Some 47 of the 59 cases (79%) were also present in NCDS5, which means that they were (or should have been) only asked questions about qualifications obtained since 1991. This would make it unlikely that error (b) occurred. The data do indeed show that most of these 47 were only reporting O levels obtained in the 1990s: 28 reported a single O level obtained in the 1990s and no earlier O levels; a further 13 reported two O levels obtained in the 1990s and no O levels. However, the remaining six of the 47, despite being present in NCDS5 in 1991, also reported O levels obtained in both the 1970s and the 1990s.

For the 12 not present in 1991, it is difficult to discriminate between the (a) and (b) errors listed above.

So it is not possible to resolve all the cases, but for many recoding to GCSE would be a sensible solution.

Only two NCDS CMs reported obtaining CSEs after 1988.
For BCS, there appear to be 133 cases in which CMs report O levels obtained after 1988, and 32 cases report CSEs obtained after 1988, but these have not been studied in any detail.

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Highest qualification

*(Based on work undertaken by:)*

- **Andrew Jenkins, Institute of Education, University of London and Professor Gerald Makepeace, University of Cardiff**
- **Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London**

*(Based on work undertaken by Andrew Jenkins, Institute of Education, University of London and Professor Gerald Makepeace, University of Cardiff)*

In reviewing the data relating to qualifications, Andrew Jenkins and Gerald makepeace have developed a number of derived variables relating to qualifications. In particular, they provide derived variables for the highest academic qualification, the highest vocational qualification and the highest NVQ level recorded in the 2000 survey, as shown below.

<table>
<thead>
<tr>
<th>HIACA00</th>
<th>'Highest academic qualification recorded in 2000 survey'.</th>
</tr>
</thead>
<tbody>
<tr>
<td>-9</td>
<td>'Missing'</td>
</tr>
<tr>
<td>0</td>
<td>'None'</td>
</tr>
<tr>
<td>1</td>
<td>'Bad O-levels'</td>
</tr>
<tr>
<td>2</td>
<td>'CSE 2-5, other Scottish school qualification'</td>
</tr>
<tr>
<td>3</td>
<td>'Good O levels'</td>
</tr>
<tr>
<td>4</td>
<td>'1 A level or more than 1 AS level at grade A-C'</td>
</tr>
<tr>
<td>5</td>
<td>'2 or more A-levels'</td>
</tr>
<tr>
<td>6</td>
<td>'Diploma'</td>
</tr>
<tr>
<td>7</td>
<td>'Degree, PGCE, other degree level'</td>
</tr>
<tr>
<td>8</td>
<td>'Higher degree'</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NVQACA00</th>
<th>'Highest NVQ level from an academic qualification in 2000 survey'.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHMACA00</td>
<td>'Highest academic qualification in 2000 survey ghm measure see also IFS'.</td>
</tr>
<tr>
<td>0</td>
<td>'None'</td>
</tr>
<tr>
<td>1</td>
<td>'Bad O levels, CSE 2-5'</td>
</tr>
<tr>
<td>2</td>
<td>'Good O-levels, A-level'</td>
</tr>
<tr>
<td>3</td>
<td>'2 or more A-levels'</td>
</tr>
<tr>
<td>4</td>
<td>'Sub-degree'</td>
</tr>
<tr>
<td>5</td>
<td>'Degree' 6 'Higher Degree'</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIVOC00</th>
<th>'Highest vocational qualification recorded in 2000 survey'.</th>
</tr>
</thead>
<tbody>
<tr>
<td>-9</td>
<td>'Missing'</td>
</tr>
<tr>
<td>0</td>
<td>'None'</td>
</tr>
<tr>
<td>1</td>
<td>'C&amp;G Opo &amp; Other, RSA 1, HGV, Other tech or bus qualification'</td>
</tr>
<tr>
<td>2</td>
<td>'C&amp;G Craft-Inter-Ord-Part1-Cant say, RSA2, Insig, JIB NJC etc'</td>
</tr>
<tr>
<td>3</td>
<td>'C&amp;G Advanced-Final-Part II or III, ONC-OND, RSA 3'</td>
</tr>
<tr>
<td>4</td>
<td>'Nursing, BTEC HNC-HND, HNC-HND, C&amp;G Full Tech (FTC)'</td>
</tr>
<tr>
<td>5</td>
<td>'NVQ awarded at level 5.'</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HiNVQ00</th>
<th>'Highest NVQ level (whether academic or vocational)'</th>
</tr>
</thead>
</table>
It is important to stress that:

- These variables are based only on the data gathered in the most recent survey.

- For the majority of NCDS cohort members, the variables may have only limited value as they only relate to qualifications gained since the age of 33 years. This is because for most NCDS cohort members, information was only gathered on qualifications gained since the last follow-up in 1991. Only if they did not take part in the 1991 survey was information gathered about qualifications gained since 1981 – the date of the previous follow-up. In this case, the variables relate to qualifications gained since the age of 23. Comprehensive information about qualifications gained since the age of 16 can only be obtained by linking the data gathered in the new survey with that gathered in earlier follow-ups.

- For BCS70 cohort members, the variables relate to qualifications gained since the age of 16.

- Previous published work has used slightly different definitions of these variables so some users may need to adapt the code they provide. The table below shows how the educational qualifications obtained were mapped into the national qualifications framework.

<table>
<thead>
<tr>
<th>Level of Qualification</th>
<th>General (Academic)</th>
<th>Vocationally-related (Applied)</th>
<th>Occupational (Vocational)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Higher Degree</td>
<td>NVQ level 5</td>
<td>PGCE</td>
</tr>
<tr>
<td>4</td>
<td>Degree HE Diploma</td>
<td>BTEC Higher Certificate/Diploma HNC/HND</td>
<td>NVQ level 4 Professional degree level qualifications Nursing/paramedic Other teacher training qualification City &amp; Guilds Part 4/Career Ext/Full Tech RSA Higher Diploma</td>
</tr>
<tr>
<td>3</td>
<td>A level AS levels Scottish Highers Scottish Cert of 6th Year Studies</td>
<td>Advanced GNVQ BTEC National Diploma ONC/OND</td>
<td>NVQ level 3 City &amp; Guilds Part 3/Final/Advanced Craft RSA Advanced Diploma Pitmans level 3</td>
</tr>
<tr>
<td>2</td>
<td>GCSE grade A*-C O levels grade A-C O levels grade D-E CSE grade 1 Scottish standard grades 1-3 Scottish lower or ordinary grades</td>
<td>Intermediate GNVQ BTEC First Certificate BTEC First Diploma</td>
<td>NVQ level 2 Apprenticeships City &amp; Guilds Part 2/Craft/Intermediate City &amp; Guilds Part 1/Other RSA First Diploma Pitmans level 2</td>
</tr>
<tr>
<td>1</td>
<td>GCSE grade D-G CSEs grades 2-5 Scottish standard grades 4-5 Other Scottish school qualification</td>
<td>Foundation GNVQ Other GNVQ</td>
<td>NVQ level 1 Other NVQ Units towards NVQ RSA Cert/Other Pitmans level 1 Other vocational qualifications HGV</td>
</tr>
</tbody>
</table>
Jenkins and Makepeace also define a set of binary variables showing whether an individual has a particular qualification. These variables may be used to devise various typologies for training. They are listed below.

A copy of the SPSS code and documentation supplied by Jenkins and Makepeace is included as Appendix 7.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Qualification variables derived by Jenkins and Makepeace

<table>
<thead>
<tr>
<th>Variable</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCSEHI00</td>
<td>Has CM obtained one or more GCSEs at grades A to C?</td>
</tr>
<tr>
<td>GCSELO00</td>
<td>Has CM obtained one or more GCSEs at grades D to E?</td>
</tr>
<tr>
<td>OLEVHI00</td>
<td>Has CM obtained one or more O levels at grades A to C?</td>
</tr>
<tr>
<td>OLEVLO00</td>
<td>Has CM obtained one or more O levels at grades D to E?</td>
</tr>
<tr>
<td>CSEHI00</td>
<td>Has CM obtained one or more CSEs at grade 1?</td>
</tr>
<tr>
<td>CSELO00</td>
<td>Has CM obtained one or more CSEs at grades 2 to 5?</td>
</tr>
<tr>
<td>ASLHI00</td>
<td>Has CM obtained one or more AS levels at grades A to C?</td>
</tr>
<tr>
<td>ASLLO00</td>
<td>Has CM obtained one or more AS levels at grades D to G?</td>
</tr>
<tr>
<td>NASLEV00</td>
<td>Number of AS level passes at grade A-C</td>
</tr>
<tr>
<td>ALEVHI00</td>
<td>Has CM obtained one or more A levels at grades A to C?</td>
</tr>
<tr>
<td>ALEVLO00</td>
<td>Has CM obtained one or more A levels at grades D to E?</td>
</tr>
<tr>
<td>ALEV00</td>
<td>Has CM obtained any A level passes at any grade?</td>
</tr>
<tr>
<td>NALEV00</td>
<td>Number of A level passes at any grade</td>
</tr>
<tr>
<td>SCOTLO00</td>
<td>Has CM obtained Scottish SCE standard grades 4-5 or equivalent?</td>
</tr>
<tr>
<td>SCOT200</td>
<td>Has CM obtained Scottish SCE standard grades 1-3 or equivalent?</td>
</tr>
<tr>
<td>SCOT300</td>
<td>Has CM obtained Scottish SUPE-SLC lower or ordinary grade?</td>
</tr>
<tr>
<td>SCOT400</td>
<td>Has CM obtained Scottish SCE-SUPE-SLC higher grade or equivalent?</td>
</tr>
<tr>
<td>SCOT500</td>
<td>Has CM obtained Scottish Certificate of 6th Year Studies?</td>
</tr>
<tr>
<td>SCOT600</td>
<td>Has CM obtained other Scottish school qualification?</td>
</tr>
<tr>
<td>HDEG00</td>
<td>Has CM obtained a higher degree?</td>
</tr>
<tr>
<td>DIP00</td>
<td>Diploma-Certificate-Teacher Training Qual (not pgce) in Higher Ed</td>
</tr>
<tr>
<td>NURSE00</td>
<td>Has CM obtained any nursing or paramedic qualifications?</td>
</tr>
<tr>
<td>PGCE00</td>
<td>Has CM obtained a PGCE or other postgraduate certificate in HE?</td>
</tr>
<tr>
<td>ONCOND00</td>
<td>Does CM have ONC or OND?</td>
</tr>
<tr>
<td>HNCHND00</td>
<td>Does CM have HNC or HND?</td>
</tr>
<tr>
<td>BTEC100</td>
<td>Does CM have a BTEC etc First-General Certificate?</td>
</tr>
<tr>
<td>BTEC200</td>
<td>Does CM have a BTEC etc First-General Diploma?</td>
</tr>
<tr>
<td>BTEC300</td>
<td>Does CM have a BTEC etc National Certificate Diploma?</td>
</tr>
<tr>
<td>BTEC400</td>
<td>Does CM have a BTEC etc Higher Certificate Diploma?</td>
</tr>
<tr>
<td>BTEC500</td>
<td>Does CM have other BTEC qualification?</td>
</tr>
<tr>
<td>CITY100</td>
<td>Does CM have a City and Guilds Part 1</td>
</tr>
<tr>
<td>CITY200</td>
<td>Does CM have a City and Guilds Part2 or Craft or Intermediate</td>
</tr>
<tr>
<td>CITY300</td>
<td>Does CM have a City and Guilds Part3 or Final or Advanced Craft</td>
</tr>
<tr>
<td>CITY400</td>
<td>Does CM have a City and Guilds Part4 or Career Extension or Full tec</td>
</tr>
<tr>
<td>CITY500</td>
<td>Does CM have a City and Guilds Other C&amp;G qualification</td>
</tr>
<tr>
<td>RSA100</td>
<td>Does CM have RSA certificate?</td>
</tr>
<tr>
<td>RSA200</td>
<td>Does CM have RSA First Diploma?</td>
</tr>
<tr>
<td>RSA300</td>
<td>Does CM have RSA Advanced Diploma or Certificate?</td>
</tr>
<tr>
<td>RSA400</td>
<td>Does CM have RSA Higher Diploma</td>
</tr>
<tr>
<td>RSA500</td>
<td>Does CM have other RSA qualification?</td>
</tr>
<tr>
<td>PIT100</td>
<td>Does CM have a Pitmans level 1?</td>
</tr>
<tr>
<td>PIT200</td>
<td>Does CM have a Pitmans level 2?</td>
</tr>
<tr>
<td>Variable</td>
<td>Label</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>PIT300</td>
<td>Does CM have a Pitmans level 3?</td>
</tr>
<tr>
<td>PIT400</td>
<td>Does CM have other Pitmans qualification?</td>
</tr>
<tr>
<td>NVQ100</td>
<td>Does CM have an NVQ at Level 1?</td>
</tr>
<tr>
<td>NVQ200</td>
<td>Does CM have an NVQ at Level 2?</td>
</tr>
<tr>
<td>NVQ300</td>
<td>Does CM have an NVQ at Level 3?</td>
</tr>
<tr>
<td>NVQ400</td>
<td>Does CM have an NVQ at Level 4?</td>
</tr>
<tr>
<td>NVQ500</td>
<td>Does CM have an NVQ at Level 5?</td>
</tr>
<tr>
<td>NVQ600</td>
<td>Does CM have an NVQ at Level 6?</td>
</tr>
<tr>
<td>NVQ700</td>
<td>Does CM have Trusts towards NVQ-SVQ?</td>
</tr>
<tr>
<td>NVQ800</td>
<td>Does CM have other NVQ?</td>
</tr>
<tr>
<td>GNVQ100</td>
<td>Does CM have GNVQ Foundation?</td>
</tr>
<tr>
<td>GNVQ200</td>
<td>Does CM have GNVQ Intermediate?</td>
</tr>
<tr>
<td>GNVQ300</td>
<td>Does CM have GNVQ Advanced?</td>
</tr>
<tr>
<td>GNVQ400</td>
<td>Does CM have other GNVQ qualification?</td>
</tr>
<tr>
<td>APPREN00</td>
<td>Has CM obtained any recognised trade apprentice qualifications?</td>
</tr>
<tr>
<td>HGV00</td>
<td>Has CM obtained at least one hgv qualification?</td>
</tr>
<tr>
<td>OTHVOC00</td>
<td>Has CM obtained at least one other vocational qualification?</td>
</tr>
<tr>
<td>ACAMISS</td>
<td>Dummy for missing value for do you have an educational qualification</td>
</tr>
<tr>
<td>VOCMISS</td>
<td>Dummy for missing value for do you have a vocational qualification</td>
</tr>
<tr>
<td>ALLMISS</td>
<td>Missing values, Do you have any of these qualifications?</td>
</tr>
<tr>
<td>PROXY</td>
<td>Was interview completed by a proxy</td>
</tr>
<tr>
<td>YTS00</td>
<td>Has CM done a YTS course?</td>
</tr>
<tr>
<td>GOV00</td>
<td>Has CM done another gov course (including New Deal)?</td>
</tr>
<tr>
<td>MODAPP00</td>
<td>Has CM done a modern apprenticeship?</td>
</tr>
<tr>
<td>NFAIL00</td>
<td>Number of courses started where CM did not obtain the qualification</td>
</tr>
<tr>
<td>ACCESS00</td>
<td>Has CM done an access course?</td>
</tr>
<tr>
<td>WORKC00</td>
<td>Number of other work related courses</td>
</tr>
<tr>
<td>LEIS00</td>
<td>Number of courses for interest or leisure</td>
</tr>
<tr>
<td>READ00</td>
<td>Number of courses to improve reading</td>
</tr>
<tr>
<td>WRITE00</td>
<td>Number of courses to improve writing</td>
</tr>
<tr>
<td>MATHS00</td>
<td>Number of courses to improve maths</td>
</tr>
<tr>
<td>ACA000</td>
<td>1 if CM has no academic qualifications</td>
</tr>
<tr>
<td>ACA100</td>
<td>1 if CM has bad O-levels</td>
</tr>
<tr>
<td>ACA200</td>
<td>1 if CM has CSE 2-5, Other Scots</td>
</tr>
<tr>
<td>ACA300</td>
<td>1 if CM has good O-levels</td>
</tr>
<tr>
<td>ACA400</td>
<td>1 if CM has 1 A-level or more than 1 AS at grade A-C</td>
</tr>
<tr>
<td>ACA500</td>
<td>1 if CM has 2 or more A-levels</td>
</tr>
<tr>
<td>ACA600</td>
<td>1 if CM has diploma</td>
</tr>
<tr>
<td>ACA700</td>
<td>1 if CM has degree, PGCE, other degree level</td>
</tr>
<tr>
<td>ACA800</td>
<td>1 if CM has higher degree</td>
</tr>
<tr>
<td>VOC000</td>
<td>1 if CM has no vocational qualifications</td>
</tr>
<tr>
<td>VOC100</td>
<td>1 if CM has vocational qualification equivalent to NVQ1</td>
</tr>
<tr>
<td>VOC200</td>
<td>1 if CM has vocational qualification equivalent to NVQ2</td>
</tr>
<tr>
<td>VOC300</td>
<td>1 if CM has vocational qualification equivalent to NVQ3</td>
</tr>
<tr>
<td>VOC400</td>
<td>1 if CM has vocational qualification equivalent to NVQ4</td>
</tr>
<tr>
<td>VOC500</td>
<td>1 if CM has vocational qualification equivalent to NVQ5</td>
</tr>
<tr>
<td>HIACA00</td>
<td>Highest academic qualification recorded in 2000 survey</td>
</tr>
<tr>
<td>NVQACA00</td>
<td>Highest NVQ level from an academic qualification in 2000 survey</td>
</tr>
<tr>
<td>GHMACA00</td>
<td>Highest academic qualification in 2000 survey ghm measures see also IFS</td>
</tr>
<tr>
<td>HIVOC00</td>
<td>Highest vocational qualification recorded in 2000 survey</td>
</tr>
</tbody>
</table>
Variable Label
HINVQ00 Highest NVQ level (whether academic or vocational)
GROUP 3 categories - BCS70 and NCDS by whether present in 1991 survey

(Based on work undertaken by Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London)

Building on the work of Jenkins and Makepeace, Samantha Parsons, has developed derived variables which match the measures of highest academic and vocational qualifications, but which incorporate information gathered during the NCDS5 follow-up in 1991. This ensures that they provide information based on all qualifications gained since the age of 16. The variables are listed below.

It is important to stress that in these variables:

- Uses the NCDS5 variables: N501441 to N501469
- Degree is now coded at NVQ4 level.
- At NCDS5 it is impossible to tell how many ‘A’ levels cohort members have. Hence, this code assumes NCDS5 ‘A’ levels are 2 or more. The Jenkins and Makepeace variables differentiate between those with 1 ‘A’ level, and those with 2 or more.
- City & Guilds Full Technological is allocated to NVQ4. The Jenkins and Makepeace variables allocate this qualification to NVQ3.

<table>
<thead>
<tr>
<th>Variable</th>
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<td>&quot;Highest qual gained at age 33 – based on NCDS5 variables&quot;.</td>
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</tr>
<tr>
<td></td>
<td>1  'CSE 2-5/equiv NVQ1'</td>
</tr>
<tr>
<td></td>
<td>2  'O Level/equiv NVQ2'</td>
</tr>
<tr>
<td></td>
<td>3  'A Level/equiv NVQ3'</td>
</tr>
<tr>
<td></td>
<td>4  'Higher qual NVQ4'</td>
</tr>
<tr>
<td></td>
<td>5  'Degree/higher NVQ5/6'</td>
</tr>
<tr>
<td></td>
<td>-1 'No information'.</td>
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<td>HQ332K</td>
<td>'highest NVQ qualification - academic or vocational - recoding 2000 to match NCDS5'.</td>
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<tr>
<td>HACAD33B</td>
<td>'ncds33: highest academic qualification to match HIACA00'.</td>
</tr>
<tr>
<td></td>
<td>0'no quals'</td>
</tr>
<tr>
<td></td>
<td>2'cse2-5'</td>
</tr>
<tr>
<td></td>
<td>3'good o levels'</td>
</tr>
<tr>
<td></td>
<td>5'a levels'</td>
</tr>
<tr>
<td></td>
<td>6'diploma'</td>
</tr>
<tr>
<td></td>
<td>7'degree PGCE'</td>
</tr>
<tr>
<td></td>
<td>8'higher degree'.</td>
</tr>
<tr>
<td>HACNVQ33</td>
<td>'ncds33: highest NVQ level qual from academic qualification to match NVQACA00'.</td>
</tr>
</tbody>
</table>
HACGHM33 'ncds33: highest academic qualification - ghm measure to match GHMACA00'.
0'no quals'
1'cse2-5'
2'o levels'
3'a levels'
4'sub degree'
5'degree'
6'higher degree'.

HIVOC33 'ncds33: highest vocational qualification - to match HIVOC00'.

HQ33A 'ncds33: highest NVQ qualification - academic or vocational - to match HINVQ00'.

HQACA00 'highest academic qualification - combining hacad33b and hiaca00'.
0'no quals'
1'bad o levels'
2'cse2-5'
3'good o levels'
4'as levels or 1 a level'
5'a levels' 6'diploma'
7'degree PGCE'
8'higher degree'.

HQANVQ00 'highest NVQ level qual from academic qualification - combining hacnvq33 and nvqaca00'.

HQAGHM00 'highest academic qualification - ghm measure - combining hacghm33 and ghmaca00'.
0'no quals'
1'cse2-5'
2'o levels'
3'a levels'
4'sub degree'
5'degree'
6'higher degree'.

HQVOC00 'highest vocational qualification - combining hvoc33 and hivoc00'.

HQNQVQ00 'highest NVQ qualification - academic or vocational - combining hq33a and hinvq00'.

A copy of the SPSS code supplied by Samantha Parsons is also included as Appendix 7.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Basic skills

(Based on work undertaken by Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London)

Whilst reviewing the data on basic skills, Samantha Parsons identified a number of problems and produced a number of very valuable revised and derived variables. These relate to the following:

1. Maths difficulties
2. Reading difficulties
3. Writing difficulties
4. Difficulties resulting from having 3R problem
5. Course attendance
6. Computer use at home and work

The problems and revised and derived variables are identified below. Further details of all variables are to be found in the detailed documentation supplied by Samantha Parsons, which is included as Appendix 5.

Details of further problems identified by Samantha in other areas, and her suggested solutions are given in the sections dealing with ‘Health’ (Diet, food and exercise; Eating problems; Smoking; Drinking; and Accidents), and with the ‘Self-completion’ (Skills and illegal drug use).
## 1. Maths difficulties

<table>
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<td>66 0.3 4 0</td>
<td>21 0.1 22589</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

549 (2.4%) had difficulty/were not able to work out change from £10. However, only 426 (78% of 549) asked additional 5 questions on type of maths difficulties CM had:

| mprbtype     |               |                                      |                                      | 426     |
|--------------|----------------|--------------------------------------|                                      |         |
| addup        |                |                                      |                                      |         |
| subtract     |                |                                      |                                      |         |

multiply

| subtract     | 1 0 425     |                                      |                                      | 425     |

| mathcors     | 66 0.3 4 0 20 0.1 | 22590                          |                                      |         |

429 (1.9%) had done a course to improve their maths. 429 asked if doing course now or previously

| mathsnow     | 22251 98.1 | 429                                |                                      |         |

6234 (27.7%) ever wanted to improve their maths. 6234 asked multi-coded questions i) why they wanted to improve their maths and ii) where/how they would improve them

| mthlike1 – mthlike5 | 16446 72.5 | 6232                     |                                      |         |
| mthplac1 – mthplac9 | 16446 72.5 | ^4 6230                  |                                      |         |

| datesprob     | 1377 6.1 1 0 15 0.1 | 21271                          |                                      |         |

696 (3.3%) had difficulty/were not able to work out dates/use a calendar

| mathconf      | 11421 50.4 3 0 20 0.1 | 11236                          |                                      |         |

1536 (13.7%) not confident helping their child(ren) with maths

| mathschild    | 11421 50.4 3 0 16 0.1 | 11240                          |                                      |         |

1093 (9.7%) did not help their child(ren) with maths

| partmath      | 12733 56.1 4 0 22 0.1 | 9921                           |                                      |         |

1439 (14.5%) of CM partner did not help their child(ren) with maths
Derived MATHS DIFFICULTIES variables

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<td>n 1394 6.1</td>
<td>n 21284</td>
<td>21284</td>
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<tr>
<td></td>
<td></td>
<td>% 6.1</td>
<td>% 6.1</td>
<td></td>
</tr>
</tbody>
</table>

4 category variable combining information given in `mathsprb` and `datesprb`. Only for CMs who answered both questions. CM reporting ‘difficulties’ or ‘no, can’t do’ treated as one category. Values: 1’no difficulties’ 2’maths difficulties’ 3’date/calendar difficulties’ 4’maths and 3’date/calendar difficulties’.

| bsamp1   | 22254 98.1     | 426                           |                                 |         |
| bsamp2   | 22254 98.1     | 426                           |                                 |         |

6 category variable counting the specific maths problems of CMs who had reported maths difficulties in `mathsprb`. Included `mprbtype` (recognising numbers), `addup`, `subtract`, `multiply`, and `divide`. Values: 0’not these problems’ 1’one problem’ 2’two problems’ 3’three problems’ 4’four problems’ 5’all five problems’.

Derived variables from multi-coded `mthlike1-mthlike5`: reasons why CM wants to improve their maths: for their children, to get a job, to get a promotion, get a better job, for self satisfaction.

| impmkid | 16448 72.5     |                                 |                                 | 6232    |
| impmgjob|                                 |                                 |                                 |         |
| impmprom|                                 |                                 |                                 |         |
| impmbjob|                                 |                                 |                                 |         |
| impmsef |                                 |                                 |                                 |         |

Derived variables from multi-coded `mthplac1-mthplac9`: means by which CM would improve their maths: on a day college course, on an evening college course, on a weekend college course, on ANY college course, at a community centre, by using local library resources, by using PC packages, by using programmes on TV, by using programmes on the radio, by using books at home.

| domcolld | 16450 72.5     |                                 |                                 | 6230    |
| domcolle |                                 |                                 |                                 |         |
| domcollw |                                 |                                 |                                 |         |
| domcoll  |                                 |                                 |                                 |         |
| domcomc  |                                 |                                 |                                 |         |
| domlib   |                                 |                                 |                                 |         |
| dompc    |                                 |                                 |                                 |         |
| domtv    |                                 |                                 |                                 |         |
| domradio |                                 |                                 |                                 |         |
| dombook  |                                 |                                 |                                 |         |
2. Reading difficulties

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<td>%</td>
<td>n</td>
<td>%</td>
</tr>
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<td>readprb1</td>
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<td>0</td>
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<tr>
<td>readprb2</td>
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<td>97.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>readprb3</td>
<td>22003</td>
<td>97.0</td>
<td>3</td>
<td>0</td>
</tr>
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<td>readprb4</td>
<td>1377</td>
<td>6.1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>readprb4</td>
<td>1377</td>
<td>6.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Asks if CM feels ability to read paperwork has improved over the last decade. 789 (3.7%) feel it has got worse.

| Readcors   | 66 | 0.3 | 4 | 0 | 20 | 0.1 | 22590 | 197 (0.9%) had done a course to improve their reading. 197 asked if doing course now or previously |
| Readnow    | 22483 | 99.1 |     |     | 197 |     |         |         |
| Readimp    | 128 | 0.6 | 2 | 0 | 22550 |     |         |         |

1856 (8.2%) ever wanted to improve their reading. 1856 asked multi-coded questions i) why they wanted to improve their reading and ii) where/how they would improve them

| redlike1 – redlike5 | 20824 | 91.8 |     |     | 1856 |     |         |         |
| redplac1-redplac9   | 20824 | 91.8 | ^2 |     | 1854 |     |         |         |

(redplac8 and redplac9 hold no information)

| Kidrcnf   | 11421 | 50.4 | 3 | 0 | 21 | 0.1 | 11235 | 561 (5.0%) not confident helping their child(ren) with reading |
| Readkid   | 11421 | 50.4 | 3 | 0 | 15 | 0.1 | 11241 | 822 (7.3%) did not read to their child(ren) |
| Partread  | 12733 | 56.1 | 4 | 0 | 21 | 0.1 | 9922 | 1271 (12.8%) of CM partner did not read to their child(ren) |
### Derived READING DIFFICULTIES variables

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</table>

4 category variable combining information given in `readprb1`, `readprb2` and `readprb3`. CM reporting ‘difficulties’ or ‘no, can’t do’ treated as one category. Values: 1’no reading difficulties’ 2’1 type of reading difficulty’ 3’2 types of reading difficulties’ 4’3 types of reading difficulties’.

<table>
<thead>
<tr>
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</tr>
</tbody>
</table>

3 category variable combining information given in `readprb1`, `readprb2` and `readprb3` for CMs who reported ‘difficulties’ or ‘no, can’t do’ in `readprb1` and answered `readprb1`, `readprb2` and `readprb3`. CM reporting ‘difficulties’ or ‘no, can’t do’ treated as one category. Values: 1’no reading difficulties’ 2’1 type of reading difficulty’ 3’2 types of reading difficulties’ 4’3 types of reading difficulties’.

### Derived variables from multi-coded redlike1-redlike5: reasons why CM wants to improve their reading:

- imprkid
- imprgjob
- imprprom
- imprbjob
- imprself

<table>
<thead>
<tr>
<th>imprkid</th>
<th>20824</th>
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<tr>
<td>imprgjob</td>
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<td>imprprom</td>
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<td></td>
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<tr>
<td>imprbjob</td>
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<tr>
<td>imprself</td>
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</table>

### Derived variables from multi-coded redplac1-redplac9: means by which CM would improve their reading:

- dorcolld
- dorcolle
- dorcollw
- dorcoll
- dorcomc
dorlib
- dorpc
dortv
dorradio
dorbook

<table>
<thead>
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3. **Writing difficulties**

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<td>wordsprb</td>
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<td>partwrit</td>
<td>12733</td>
<td>56.1</td>
<td>4</td>
<td>9922</td>
</tr>
</tbody>
</table>

1087 (3.2%) had difficulty/were not able to write a thank-you letter to a friend. 1087 asked additional question on spelling difficulties (includes CM with value of 9 in writeprb)

70 (6.4%) never tried to write a thank-you letter to a friend. 1017 asked additional questions on handwriting legibility and difficulties putting down in words what want to say

315 (1.4%) had done a course to improve their writing. 315 asked if doing course now or previously

2636 (11.7%) ever wanted to improve their writing. 2636 asked multi-coded questions i) why they wanted to improve their reading and ii) where/how they would improve them

806 (7.2%) not confident helping their child(ren) with writing

1440 (12.8%) did not help their child(ren) with writing

1687 (17.0%) of CM partner did help their child(ren) with writing
Derived WRITING DIFFICULTIES variables

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<td>21301</td>
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8 category variable combining information given in writeprb, hwritprb, wprbtype and wordsprb. CM reporting ‘difficulties’ or ‘no, can’t do’ treated as one category. Values: 0’no probs’ 1’writing spelling handwriting articulating’ 2’writing spelling handwriting’ 3’writing spelling articulating’ 4’writing handwriting articulating’ 5’writing spelling’ 6’writing articulating’ 7’writing handwriting’ 8’writing only’.

bsawrit2   | 21594          | 95.2                                  |                                      | 1086    |

4 category variable counting the specific writing problems of CMs who had reported ‘difficulties’ or ‘no, can’t do’ in writeprb. Included writeprb, wprbtype (spelling), hwritprb (handwriting), and wordsprb (articulating). CM reporting ‘difficulties’ or ‘no, can’t do’ in writeprb treated as one category. Values: 1’1 difficulty’ 2’2 types of writing difficulties’ 3’3 types of writing difficulties’ 4’4 types of writing difficulties’.

Derived variables from multi-coded redlike1-redlike5: reasons why CM wants to improve their reading: for their children, to get a job, to get a promotion, get a better job, for self satisfaction. Values: 0’not this reason’ 1’yes, for this reason’.

impwkid    | 20045          | 88.4                                  |                                      | 2635    |
impwgjob   |
impwprom   |
impwbjob   |
impwself   |

Derived variables from multi-coded redplac1-redplac9: means by which CM would improve their reading: on a day college course, on an evening college course, on a weekend college course, on ANY college course, at a community centre, by using local library resources, by using PC packages, by using programmes on TV, by using programmes on the radio, by using books at home. Values: 0’not using this method’ 1’this method’.

dowcold    | 20049          | 88.4                                  |                                      | 2631    |
dowcolle   |
dowcollw   |
dowcoll    |
dowcomc    |
dowlib     |
dowpc      |
dowtv      |
dowradio   |
dowbook    |
4. Difficulties resulting from having basic skills problems

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<td>Getjob</td>
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<td>92.8</td>
<td>21</td>
<td>0.1</td>
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<tr>
<td>620 (38.5%) CMs with 3R problem felt affected them getting new job</td>
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<td>Copejob</td>
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<td>0.1</td>
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<tr>
<td>391 (24.2%) CMs with 3R problem felt affected them coping in current job</td>
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<td>Gtpromot</td>
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<td>92.8</td>
<td>38</td>
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<td>570 (35.7%) CMs with 3R problem felt affected them getting a promotion</td>
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<td>Copehmbs</td>
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</tr>
<tr>
<td>253 (15.6%) CMs with 3R problem felt affected them in managing household business</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Helpkids</td>
<td>21047</td>
<td>92.8</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>419 (25.7%) CMs with 3R problem felt affected them being able to help their children learn. In addition, 409 (25.1%) never helped their children to read or learn</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Copeleis</td>
<td>21047</td>
<td>92.8</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>341 (20.9%) CMs with 3R problem felt affected them pursuing other interests</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5. Course attendance

<table>
<thead>
<tr>
<th>Variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failqual</td>
<td>N 66</td>
<td>3404 (8.8%) failed/cot completed course. 3404 asked how many courses they had failed/not completed</td>
<td>n 34</td>
<td>22577</td>
</tr>
<tr>
<td>Numqual</td>
<td>19276</td>
<td>84.9%</td>
<td>3404 (8.8%) failed/cot completed course. 3404 asked how many courses they had failed/not completed</td>
<td>3401</td>
</tr>
<tr>
<td>yts (bcs70 only)</td>
<td>11454</td>
<td>50.5%</td>
<td>3303 (29.5%) CMs had done a yts course. 3303 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Numyts</td>
<td>19377</td>
<td>85.4%</td>
<td>3303 (29.5%) CMs had done a yts course. 3303 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Ytsnow</td>
<td>19377</td>
<td>85.4%</td>
<td>3303 (29.5%) CMs had done a yts course. 3303 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Othgov</td>
<td>66</td>
<td>0.3%</td>
<td>550 (2.4%) CMs had done an ‘other’ type of Government course. 550 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Numgov</td>
<td>22130</td>
<td>97.6%</td>
<td>550 (2.4%) CMs had done an ‘other’ type of Government course. 550 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Govnow</td>
<td>22130</td>
<td>97.6%</td>
<td>550 (2.4%) CMs had done an ‘other’ type of Government course. 550 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Aptrain</td>
<td>66</td>
<td>0.3%</td>
<td>329 (1.5 %) CMs had done a modern apprenticeship course. 329 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Numap</td>
<td>22351</td>
<td>98.5%</td>
<td>329 (1.5 %) CMs had done a modern apprenticeship course. 329 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Apnow</td>
<td>22351</td>
<td>98.5%</td>
<td>329 (1.5 %) CMs had done a modern apprenticeship course. 329 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Actrain</td>
<td>66</td>
<td>0.3%</td>
<td>352 (1.6%) CMs had done an access course. 352 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Numac</td>
<td>22328</td>
<td>98.4%</td>
<td>352 (1.6%) CMs had done an access course. 352 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Acnow</td>
<td>22328</td>
<td>98.4%</td>
<td>352 (1.6%) CMs had done an access course. 352 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Wrktrain</td>
<td>66</td>
<td>0.3%</td>
<td>7871 (34.7%) CMs had done a work-related training course. 7871 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Numwrktr</td>
<td>14809</td>
<td>65.3%</td>
<td>7871 (34.7%) CMs had done a work-related training course. 7871 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Wrktrnow</td>
<td>14809</td>
<td>65.3%</td>
<td>7871 (34.7%) CMs had done a work-related training course. 7871 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Leiscors</td>
<td>66</td>
<td>0.3%</td>
<td>5528 (24.4%) CMs had done a course for interest or leisure. 5528 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Numleis</td>
<td>17152</td>
<td>75.6%</td>
<td>5528 (24.4%) CMs had done a course for interest or leisure. 5528 asked how many they had done, and if they were on a course now</td>
<td></td>
</tr>
<tr>
<td>Leisnow</td>
<td>17152</td>
<td>75.6%</td>
<td>5528 (24.4%) CMs had done a course for interest or leisure. 5528 asked how many they had done, and if they were on a course now</td>
<td></td>
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</tbody>
</table>
## Derived COURSE ATTENDANCE variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>system-missing</th>
<th>user-missing: 8 ((^) indicates 98)</th>
<th>user-missing: 9 ((^) indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>yts1</td>
<td>11470</td>
<td>50.6</td>
<td>11210</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 category variable combining information from yts and yrsnow. Values: 0'no' 1'yes, previously' 2'yes, now'.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gov1</td>
<td>94</td>
<td>0.4</td>
<td>22588</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 category variable combining information from othgov and govnow. Values: 0'no' 1'yes, previously' 2'yes, now'.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>apt1</td>
<td>92</td>
<td>0.4</td>
<td>22586</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 category variable combining information from aptrain and apnow. Values: 0'no' 1'yes, previously' 2'yes, now'.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>access1</td>
<td>95</td>
<td>0.4</td>
<td>22587</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 category variable combining information from actrain and acnow. Values: 0'no' 1'yes, previously' 2'yes, now'.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>wrt1</td>
<td>93</td>
<td>0.4</td>
<td>22585</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 category variable combining information from wrktrain and wrktrnow. Values: 0'no' 1'yes, previously' 2'yes, now'.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Leis1</td>
<td>94</td>
<td>0.4</td>
<td>22586</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 category variable combining information from leiscors and leisnow. Values: 0'no' 1'yes, previously' 2'yes, now'.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>read1</td>
<td>90</td>
<td>0.4</td>
<td>22590</td>
<td></td>
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<tr>
<td></td>
<td>3 category variable combining information from readcors and readnow. Values: 0'no' 1'yes, previously' 2'yes, now'.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Writ1</td>
<td>91</td>
<td>0.4</td>
<td>22590</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 category variable combining information from writcors and writenow. Values: 0'no' 1'yes, previously' 2'yes, now'.</td>
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<tr>
<td>math1</td>
<td>90</td>
<td>0.4</td>
<td>22590</td>
<td></td>
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<tr>
<td></td>
<td>3 category variable combining information from mathcors and mathsnow. Values: 0'no' 1'yes, previously' 2'yes, now'.</td>
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</table>
6. Computer use at Home and Work

<table>
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<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>pchome</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>hpcuse</td>
<td>9301</td>
<td>41.0</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>howuse01-howuse33 (howuse18-howuse33 hold no information)</td>
<td>11391</td>
<td>50.2</td>
<td>^8</td>
<td>0.1</td>
</tr>
<tr>
<td>pchome1</td>
<td>94</td>
<td>0.4</td>
<td>22586</td>
<td>12026</td>
</tr>
<tr>
<td>wpcuse</td>
<td>10654</td>
<td>47.0</td>
<td>1</td>
<td>12025</td>
</tr>
</tbody>
</table>

Derived HOME COMPUTER variables

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<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>pchome1</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
</tbody>
</table>

Derived variables from multi-coded howuse01-howuse33. For 11289 (50.0%) CMs who have and use a home computer. Ways CM uses home computer: for word processing, WWW, e-mail, data analysis, database work, design packages, playing games, sending/receiving faxes, using CD ROM or Encyclopedia, composing music, listening to music, photography, programming, managing home finances, spreadsheets, web design, scanning, other things, unspecified things. Values: 0 'not use home PC this way' 1 'yes, uses home PC this way'.

hwp, hwww, hemail, hdatan, hdesign, hgames, hfax, hencryom, hmusic, hmusicl, hphoto, hpro, hhhomefin, hspread, hwebdes, hscan, hoother, hunspec
 Derived WORK COMPUTER variables

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>pcwork1</td>
<td>3927 17.3</td>
<td>18753</td>
<td></td>
<td>18753</td>
</tr>
</tbody>
</table>

5 category variable combining information from **pcwork** and **wpcuse**. Values 0 'no' 1 'yes, use it less than once a week' 2 'yes, use it once a week' 3 'yes, use it 2-4 times a week' 4 'yes, use it daily'.

Derived variables from multi-coded howuse34-howuse46. For 12025 (64.1%) CMs who use a PC at work. Ways CM uses work computer: for word processing, WWW, e-mail, data analysis, data base work, design packages, playing games, sending/receiving faxes, using CD ROM or Encyclopedia, composing music, listening to music, photography, programming, spreadsheets, web design, scanning, other things, unspecified things. Values: 0 'not use work PC this way' 1 'yes, uses work PC this way'.

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>wwp</td>
<td>10655</td>
<td>47.0</td>
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<tr>
<td>wwww</td>
<td></td>
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<tr>
<td>wemail</td>
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<tr>
<td>wdatan</td>
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<tr>
<td>wdatab</td>
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</tr>
<tr>
<td>wdesign</td>
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<tr>
<td>wgames</td>
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<td>wfax</td>
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<td>wencyrom</td>
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<td>wmusicc</td>
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<tr>
<td>wmusicl</td>
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<tr>
<td>wphoto</td>
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<tr>
<td>wprog</td>
<td></td>
<td></td>
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<tr>
<td>wother</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12025</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Queries about these problems should be directed to the User Support Group ([cohort@cls.ioe.ac.uk](mailto:cohort@cls.ioe.ac.uk))
HEALTH

<table>
<thead>
<tr>
<th>Health</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>General health</td>
<td>Self-assessed health and experience of list of conditions, including age at onset and contact with doctor</td>
</tr>
<tr>
<td>Long-term health conditions</td>
<td>Details of longstanding illnesses, etc (including limiting impact and age at onset), impact on employment, registered disabled.</td>
</tr>
<tr>
<td>Respiratory problems</td>
<td>Coughing, phlegm and shortness of breath</td>
</tr>
<tr>
<td>Mental health</td>
<td>Experience of mental health problems, including age at onset</td>
</tr>
<tr>
<td>Seeing and hearing</td>
<td>Problems with sight/eyes and with hearing</td>
</tr>
<tr>
<td>Other conditions</td>
<td>Details of other health conditions requiring regular medical supervision</td>
</tr>
<tr>
<td>Accidents/injuries</td>
<td>Works backwards. Details of accidents/injuries/assaults (age, why admitted, out/in-patient, type of injury). Nature of any permanent disability resulting from any accident/etc</td>
</tr>
<tr>
<td>Hospital admissions</td>
<td>Works backwards. Age and why admitted</td>
</tr>
<tr>
<td>Smoking</td>
<td>Smoking habit of respondent and partner</td>
</tr>
<tr>
<td>Drinking</td>
<td>Alcohol consumption in last 7 days, other aspects of drinking behaviour</td>
</tr>
<tr>
<td>Diet</td>
<td>Frequency of consumption of types of food, vegetarian or other special diets</td>
</tr>
<tr>
<td>Exercise</td>
<td>Exercise at work and in daily life</td>
</tr>
<tr>
<td>Height and weight</td>
<td>Self-reported height and weight and assessment of weight</td>
</tr>
</tbody>
</table>

(Based on work undertaken by:
- Barbara Jefferis, Institute of Child Health
- Scott Montgomery, Karolinska Sjukhuset, Stockholm, Sweden
- Richard Rowe and Barbara Maughan, Institute of Psychiatry
- Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London)

Whilst reviewing the data on health, those named above identified a number of problems and produced a number of very valuable revised and derived variables. Details are reported below for each area of the areas identified above.

Additional information on health was included in the self-completion and further information is given on these data are given in the relevant section below.

General Health

(Based on work undertaken by:
- Barbara Jefferis, Institute of Child Health
- Richard Rowe and Barbara Maughan, Institute of Psychiatry)

Health Generally

1. How is your health generally? (HLTHGEN) - Rates similar in BCS70 and NCDS.

For NCDS: Reported as Excellent (31%men, 29%women), good (51%men, 52%women), fair (15%men, 14%women), poor (3%men, 4%women).

2. How is your health over the last 12 months? (HLTHYR) - Rates in poorer categories perhaps a little lower in BCS70 as may be expected from their younger age
For NCDS, as in the NCDS4 (age 23) and NCDS5 (age 33) surveys, more men than women report excellent health - Excellent (29%men, 26%women), good (47%men, 46%women), fairly good (16%men, 16%women), not so good (8%men, 12%women). Overall, 76% of NCDS men and 72% NCDS women report good or excellent health in the last 12 months, more women report poorer health. This follows the same patterns as in the NCDS4 and NCDS5 year surveys.

Specific Health Conditions

(Based on work undertaken by:
- Barbara Jefferis, Institute of Child Health
- Scott Montgomery
- Richard Rowe and Barbara Maughan, Institute of Psychiatry
- Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London)

Variables with no valid cases

The following variables are redundant, as they have no valid cases:

OTHSKIN SKINCOND SL1AGE, SL112M, SL1DOC SKINCON7 EATING4 HERNIWH4 GYNAEP09 GYNAEP10 KINDDIA3 (CANCTY04 TO CANCTY12) UGICOCR5

Eating problems

1. The "Some other eating problem" category is the most common positive response but it is not clear how this may be unpacked further, as EATOTH does not appear in the data set.

   EATOTH is an open question which along with the answers to other open health questions, has recently been coded by CLS. These data will be made available shortly, along with the text of all open questions.

2. EATING4 variable included but all cases are missing (none in NCDS either).

3. Eating problems – some distributions and derived variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>eatprob</td>
<td>66</td>
<td>0.3</td>
<td>6</td>
<td>22587</td>
</tr>
<tr>
<td></td>
<td>729 (3.2%) CMs reported an eating disorder. 729 asked name of eating problem(s) they have had in multi-coded variables</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>eating1-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>eating4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(eating4 holds no information)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>el1age</td>
<td>21951</td>
<td>96.8</td>
<td>1</td>
<td>728</td>
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<tr>
<td>el112m</td>
<td>21951</td>
<td>96.8</td>
<td>0.1</td>
<td>724</td>
</tr>
<tr>
<td>349 (47.9%) CMs had an eating disorder in last 12 months. 349 asked if they had seen a doctor re: eating disorder</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>el1doc</td>
<td>22331</td>
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<td>349</td>
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</table>

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.
Derived EATING PROBLEMS variables

<table>
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<tr>
<th>Variable</th>
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<th>user-missing: 9 (^ indicates 99)</th>
<th>Valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eatprnow</td>
<td>95</td>
<td>0.4</td>
<td></td>
<td>22585</td>
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<tr>
<td>bulemia</td>
<td>93</td>
<td>0.4</td>
<td></td>
<td>22587</td>
</tr>
<tr>
<td>Anorexia</td>
<td>93</td>
<td></td>
<td></td>
<td>22587</td>
</tr>
<tr>
<td>Swallow</td>
<td>93</td>
<td></td>
<td></td>
<td>22587</td>
</tr>
<tr>
<td>Otheatpr</td>
<td>93</td>
<td></td>
<td></td>
<td>22587</td>
</tr>
</tbody>
</table>

3 category variable combining information given in eatprob and el112m. Values: 0'no eating problems' 1'previous eating problem' 2'current eating problem'

2 category variables. If CM gave valid answer to eatprob, used information in multi-coded eating1-eating4 variables. Values: 0 'not this eating problem' 1 'yes, this eating problem'

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.

Further details of these derived variables are to be found in the detailed documentation supplied by Samantha Parsons, which is included as Appendix 5.

Blood Pressure

For NCDS, 10% (n=592) men and 12.5% (n=708) of women report ever having had high blood pressure (perhaps gestational blood pressure may explain the difference?). This compares with 256 men and 356 women reporting ever had high blood pressure at 33 years. Approximately 6% of the cohort have had high blood pressure in the last 12 months.

Cancers

For NCDS, more cancers are reported in women than in men: 3.5 % compared to 2%. At age 41, 61 men and 202 women have had cancers, compared to 33 men and 130 women at age 33. Women report mostly breast, cervix and skin cancers, for men the most common cancers are skin and testes. 11 men and 38 women have had cancer in the past 12 months, all but 3 have seen their doctors about it.

Diabetes

For NCDS, approximately 1.7% of the cohort report ever having had diabetes, 98 men and 99 women, this compares with 39 men and 32 women reporting 'ever had' diabetes at age 33. 1.2% have had it in the past 12 months, most consulting their doctors about it in this time period.

Allergy and headache

For NCDS, 14% men and 15% women have had hay fever in the last 12 months (compared to 16% at age 33), 3% men and 5% women have seen a doctor about it in the last 12 months. Average age of onset for men was 18 years and for women, 19 years.

Bronchitis

For NCDS, 2% men and 3% of women in the sample have had bronchitis in last 12 months, with slightly fewer consulting their doctor about it in the last 12 months. Average age at which men first had bronchitis was 18 for men and 21 for women. Similar incidence rates are reported in the 33 year sample.

Asthma

For NCDS, 5% and 7% women have had asthma in the last 12 months. Average age men first had asthma was 17 years, and 24 years for women. 2% men and 5% women have had allergic rhinitis in last 12 months. Average age at which cohort first had allergic rhinitis was 24 years.
20% (n=1146) men and 25% (n=1444) women report ever having skin problems at age 41, in comparison at 33 15% men (n=820) and 20% women (n=1114) report ever having eczema or skin problems.

**Eczema or other skin problems**

For NCDS, 932 men and 632 women have had eczema or other skin problems (mostly psoriasis, acne and contact dermatitis, mouth ulcers, fungal infections) in the last 12 months. This is higher than the reported 12 month incidence at 33 years, for men 10% (n=556) and 14% (n=798 for women).

Average age men and women first had eczema was around 20 years. Average age men first had acne was 14 years, for women it was 17 years. For psoriasis, it was 23.5 years for men and 22 years for women. The average age men and women first had cold sores was 21.

7% men and 19% of women have had severe headaches in the last 12 months. 2% men and 8% of women have seen a doctor about these in the last 12 months. Average age that cohort members first had severe headaches was 22.

**ME, back pain, eating problems, hernia and fits**

Less than 1% of the NCDS cohort report having suffered ME in the last 12 months. For NCDS, 22% of men and women have suffered persistent back pain, lumbago or sciatica. This compares with 51% men and 43% women reporting ever having lower back pain at age 33. 16% have had persistent back pain over the last 12 months, with 9% visiting their doctor about it.

For NCDS, 2% (n=97) men and 4% (n=225) women have ever had eating problems. 7% men and 3% women report having had hernias. 1.6% (88) men and 1% (64) women have had a hernia in the past 12 months.

For NCDS, 2% of the sample have ever had fits or convulsions, less than 1% in the past month. Average age men first had fits was 20, and women, 17 years.

**Women’s health**

For NCDS, 26% women reported problems with their periods- mostly heavy or painful. 15% had problems with their periods over the last 12 months, and 11% had seen their doctor about it. This compares with 18% reporting ever having persistent trouble with periods at age 33 and 14 % having persistent troubles over the last 12 months.

At age 41, 22% had other gynaecological problems, commonly ovarian cysts, endometriosis and fibroids. 6% had gynaecological problems over the last 12 months and 5% had seen their doctor about it. Average age women first had gynaecological problems was 31. At age 33, 16% women reported ever havinh other gynecological problems and 10% in the last 12 months.

9% of women are currently taking the pill and 79 % have ever taken the pill.

26% men and 23% women have been sterilised or had vasectomy/ hysterectomy.

**Kidney, bladder problems, etc**

For NCDS:

- 6% men and 10% women have ever had kidney or bladder problems (similar to age 33, 4% and 9% for men and women). In the 41 year old men it was mostly kidney or bladder stones, in women, mostly kidney or bladder infections.

- 2.2% man and 4.1% men have had kidney or bladder problems in last 12 months, most have seen their doctor about it.

- 5% women and 12% men have had irritable bowel syndrome.
- 5% men and 3% women have had duodenal or peptic ulcers. <1% men or women have had ulcers in the last 12 months.
- 4% men and 8% women have had gall stones in the last 12 months.
- 0.3% of cohort had IBS in last 12 months and 0.2% had ulcerative colitis in last 12 months.

A summary of the more prevalent conditions in the NCDS cohort is given below.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
## Most prevalent health conditions in the NCDS cohort

<table>
<thead>
<tr>
<th>Condition</th>
<th>Men (%)</th>
<th>Women (%)</th>
<th>In the last 12 months</th>
<th>Men (%)</th>
<th>Women (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accidents</td>
<td>45</td>
<td>25</td>
<td>Back pain/ lumber/ sciatica</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Wheezing/ whistling chest</td>
<td>28</td>
<td>28</td>
<td>Heavy periods</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Problems with periods</td>
<td>26</td>
<td>19</td>
<td>Painful periods</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Gynecological problems</td>
<td>22</td>
<td>18</td>
<td>Problems with periods</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Ovarian cyst</td>
<td>4</td>
<td>4</td>
<td>Respiratory problems</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Fibroids</td>
<td>3</td>
<td>3</td>
<td>Gynecological problems</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Endometriosis</td>
<td>3</td>
<td>3</td>
<td>Asthma</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Hay fever</td>
<td>20</td>
<td>20</td>
<td>Bronchitis</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Migraine / headache</td>
<td>13</td>
<td>13</td>
<td>Hay fever</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Problems with sight or eyes</td>
<td>20</td>
<td>20</td>
<td>Problems with periods</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Both eyes</td>
<td>15</td>
<td>15</td>
<td>Winter phlegm (am or pm)</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>One eye</td>
<td>5</td>
<td>5</td>
<td>Winter phlegm (am or pm)</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Eczema</td>
<td>10</td>
<td>10</td>
<td>Gall stones</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>High blood pressure</td>
<td>10</td>
<td>12.5</td>
<td>Bronchitis</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>Asthma</td>
<td>10</td>
<td>12</td>
<td>Kidney / bladder</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>Low/depressed/sad</td>
<td>8</td>
<td>15</td>
<td>Gynecological problems</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Bronchitis</td>
<td>8</td>
<td>13</td>
<td>High blood pressure</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Hearing problems</td>
<td>9</td>
<td>8</td>
<td>Hay fever</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>IBS</td>
<td>5</td>
<td>12</td>
<td>Gall stones</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Kidney / bladder problems</td>
<td>6</td>
<td>10</td>
<td>Bronchitis</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>Duodenal or peptic ulcers</td>
<td>6</td>
<td>3</td>
<td>Asthma</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Anxious/ jittery</td>
<td>3.5</td>
<td>6.5</td>
<td>Eating problems</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Psoriasis</td>
<td>4</td>
<td>4</td>
<td>Diabetes</td>
<td>1.2</td>
<td>2</td>
</tr>
<tr>
<td>Phobic</td>
<td>2</td>
<td>2</td>
<td>Allergic rhinitis</td>
<td>0.8</td>
<td>2</td>
</tr>
<tr>
<td>Rhinitis</td>
<td>3</td>
<td>6</td>
<td>ME</td>
<td>&lt;1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Cold sores</td>
<td>2</td>
<td>4</td>
<td>Duodenal or peptic ulcers</td>
<td>&lt;1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Cancers</td>
<td>2</td>
<td>3.5</td>
<td>IBS</td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>Acne</td>
<td>3</td>
<td>2</td>
<td>Ulcerative colitis</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>Fungus infections</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact dermatitis</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gallstones</td>
<td>0.8</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diabetes</td>
<td>1.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fits/ convulsions</td>
<td>&lt;2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mouth ulcers</td>
<td>0.8</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Source:** Barbara Jefferis, Institute of Child Health
Long-term health conditions

The following variables are redundant, as they have no valid cases:

LSIIMWK4  LSIIMWK5  LSIIMWK6  LSIIMWK7  LSIIMWK8  LSIIMWK9
LSIAGE4  LSIAGE5  LSIAGE6  LSIAGE7  LSIAGE8  LSIAGE9

Respiratory problems

For NCDS:

- 14% men and 13% women cough first thing in the morning in winter.
- 11% men and 7% women bring up phlegm from chest in the morning in winter.
- 8% men and 6% women usually bring up phlegm from chest during day or night in winter.
- 12.6% men and 14.2% women usually cough day or night in winter.
- 10% men and women cough on most days for at least 3 months of the year.
- 8% men and 5% bring up phlegm from chest most days for at least 3 months of the year.
- These responses to the respiratory health questions are very similar at age 33.
- 2.3% men and 1.9% women cannot walk.
- 6% men and 11% women are ever out of breath walking on level ground (more than at 33 years).
- 28% men and women have ever had whistling or wheezing chest. 18.5% have had this in the last 12 months. Of these, 60% have had it less than 5 times and 40% five times or more.
- 8% men and 11% women in the cohort have used an inhaler or other prescribed asthma medicine in the last 12 months.

Mental health

Whilst reviewing the data on health, Richard Rowe and Barbara Maughan made a number of observations about the quality and utility of the data. These are summarised below.

1. MHPROBS1

a) MHPROBS1 contain 98 and 99 codes; these need labelling.

As noted above, the following missing values will be found within the data:

<table>
<thead>
<tr>
<th>Missing values (unless otherwise labelled)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7, 97, 997, 9997, 99997, 999997 = Refused</td>
</tr>
<tr>
<td>8, 98, 998, 9998, 99998, 999998 = Don’t know</td>
</tr>
<tr>
<td>9, 99, 999, 9999, 99999, 999999 = Not answered</td>
</tr>
<tr>
<td>. (sysmis) = Not applicable</td>
</tr>
</tbody>
</table>
b) It would be much easier to code MHPROBS1-9 by disorder as the age of onset variables are coded. ie. MHPROBS1 would be a binary variable indicating the presence or absence of depression etc.

As noted above, variable names have been allocated through CAPI (Blaise). MHPROBS is the name of the CAPI variable and where the question has been repeated, Blaise places adds numerical suffix strating with 2, hence the sequence fro MHPROBS (and all repeated variables) is MHPROBS, MHPROBS2,….MHPROBSn.

c) Prevalence by sex looks plausible (see table below).

2. Age of onset variables

a) Depression age at onset: MHAGE more consistently called MHAGE1. Without the number, it looks like this may be a summary of the MHSPECS that include a numerical identifier. 99 codes need to be labelled as missing.

See comments above.

b) All look consistent with mhprobs variables.

3. MHSPEC

a) Similarly to age of onset, mhspec should be called mhspec1.

b) MHSPEC labelled ‘seen specialist/een to hosp’ whereas mhprobs say ‘seen specialist’. It would be helpful to make this consistent.

c) A lot of missing data on these variables. Of those who report depression since refdate. 52% are missing on mhspec. Similar levels of missing regarding other disorders. It is not clear why this a problem here, particularly as it is not a problem for the mhstill variables.

4. MHSTILL

a) Similarly to age of onset and MHSPEC, MHSTILL should be called MHSTILL1.

b) Rates look plausible (see table below)

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
### Prevalence of mental health problems reported in NCDS/BCS70

<table>
<thead>
<tr>
<th>Disorder</th>
<th>In entire sample</th>
<th>In those having experienced problem since refdate (males and females combined)</th>
<th>Male</th>
<th>Female</th>
<th>Still has problems most of the time</th>
<th>Still has problems occasionally</th>
<th>No longer has problems</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Depression</strong></td>
<td></td>
<td></td>
<td>NCDS</td>
<td>BCS-70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>14% (N=811)</td>
<td>29% (N=1655)</td>
<td>14%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>13% (N=702)</td>
<td>28% (N=1631)</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Anxiety</strong></td>
<td></td>
<td></td>
<td>NCDS</td>
<td>BCS-70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>6% (N=306)</td>
<td>10% (N=548)</td>
<td>18%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>5% (N=283)</td>
<td>8% (N=447)</td>
<td>17%</td>
</tr>
<tr>
<td><strong>Phobias</strong></td>
<td></td>
<td></td>
<td>NCDS</td>
<td>BCS-70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>3% (N=165)</td>
<td>6% (N=332)</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>4% (N=196)</td>
<td>6% (N=317)</td>
<td>18%</td>
</tr>
<tr>
<td><strong>Overexcited/over confident</strong></td>
<td></td>
<td></td>
<td>NCDS</td>
<td>BCS-70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>0.4% (N=22)</td>
<td>0.4% (N=24)</td>
<td>23%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>0.5% (N=26)</td>
<td>0.4% (N=21)</td>
<td>25%</td>
</tr>
<tr>
<td><strong>Compelled to repeat activities</strong></td>
<td></td>
<td></td>
<td>NCDS</td>
<td>BCS-70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>1% (N=54)</td>
<td>1% (N=60)</td>
<td>33%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>1% (N=54)</td>
<td>1% (N=62)</td>
<td>33%</td>
</tr>
<tr>
<td><strong>Hallucinations</strong></td>
<td></td>
<td></td>
<td>NCDS</td>
<td>BCS-70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>1% (N=40)</td>
<td>1% (N=40)</td>
<td>24%</td>
</tr>
<tr>
<td>Category</td>
<td>BCS-70</td>
<td>NCDS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>--------</td>
<td>-------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Alcohol problems</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCS-70</td>
<td>1% (N=50)</td>
<td>1% (N=49)</td>
<td>24%</td>
<td>34%</td>
<td>41%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NCDS</td>
<td>2% (N=93)</td>
<td>1% (N=64)</td>
<td>26%</td>
<td>25%</td>
<td>49%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCS-70</td>
<td>2% (N=135)</td>
<td>0.6% (N=37)</td>
<td>21%</td>
<td>17%</td>
<td>62%</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Drug problems</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCS-70</td>
<td>2% (N=114)</td>
<td>0.7% (N=41)</td>
<td>21%</td>
<td>14%</td>
<td>65%</td>
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</tr>
<tr>
<td>NCDS</td>
<td>0.04% (N=2)</td>
<td>0.9% (N=51)</td>
<td></td>
<td>20%</td>
<td>45%</td>
<td></td>
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</tr>
<tr>
<td>BCS-70</td>
<td>0.2% (N=9)</td>
<td>1.7% (N=98)</td>
<td></td>
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</tr>
<tr>
<td><strong>Bulimia</strong></td>
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<td></td>
</tr>
<tr>
<td>BCS-70</td>
<td>0% (N=4)</td>
<td>1.3% (N=73)</td>
<td></td>
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</tr>
<tr>
<td>NCDS</td>
<td>0.1% (N=5)</td>
<td>2% (N=111)</td>
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<td></td>
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</tr>
<tr>
<td><strong>Anorexia</strong></td>
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<td></td>
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</tr>
<tr>
<td>BCS-70</td>
<td>0% (N=9)</td>
<td>0.2% (N=9)</td>
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</tr>
<tr>
<td>NCDS</td>
<td>0.2% (N=9)</td>
<td>0.2% (N=73)</td>
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</tr>
<tr>
<td><strong>Swallowing problems</strong></td>
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<td></td>
</tr>
<tr>
<td>BCS-70</td>
<td>0% (N=4)</td>
<td>0.1% (N=8)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Seeing and hearing

For NCDS:

- 20% of the cohort report problems with sight or eyes: 15% in both eyes and 5% in one eye.
- 9% have hearing problems: evenly distributed between problems with one ear or with both.
- 8% of the cohort are short sighted, 4% long sighted and 2.5% have other sight or eye conditions.
- 60% men and 40% women do not wear glasses or contact lenses. 35% men wear glasses and 5% wear contact lenses; women wear lenses more often than men do. 5% men and 7% women wear both contact lenses and glasses.
- 65% men and 58% women read books, watch television and see into the distance without problems.
- 90% of those reporting their everyday vision thought it was average or better than average and 7% reported slightly abnormal vision.
- 5% men and 3% women have some hearing problems (tinnitus, repeated ear infections and discharge)
- <0.5% wear hearing aids.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)

Other conditions

1. The following variables are redundant, as they have no valid cases.
   
   HOSUP33  HOSUP36  HOSUP38  HOSUP39  HOSUP41  HOSUP42  HOSUP43  HOSUP44  
   HOSUP45  HOMORE14  HOAGE15  HOMORE15  HOAGE16  HOSUP46  HOSUP47  HOSUP48  
   HOMORE16  HOAGE17  HOSUP49  HOSUP50  HOSUP51  HOMORE17  HOAGE18  HOSUP52  
   HOSUP53  HOSUP54  HOMORE18  HOAGE19  HOSUP55  HOSUP56  HOSUP57  HOMORE19  
   HOAGE20  HOSUP58  HOSUP59  HOSUP60  HOMORE20

2. For NCDS, 5% men and 7% women have another health condition. This is mostly monitored, either by hospital or clinic or by GP. 20% men and 105 women report that their conditions are not monitored. 0.2% men and 0.5% women are monitored for more than one other health condition.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Accidents/injuries

1. The following variables are redundant, as they have no valid cases:

   ACCIDAN8  ACCIDAN9  ACCINJ18ACCINJ24  ACCINJ30  ACCINJ36

2. 45% men have had accidents since “refdate”, this appears to be age 33. Of these, 13% have had accidents at work, 10% a sports accident and 8% a road accident. Of the 25% women cohort members who have had accidents, 8% have had road accidents, 7% have had an accident in the home and 4% have had an accident at work.

3. For NCDS, men and women differ in the number of accidents that they have seen a doctor for. 13% men have had a sports accident and 12% have had an accident at work. 6% have had an accident at home and 5% have been a driver or passenger in a road accident. 7% women have had an accident at work or an ’other’ type of accident. 3% have had a sports accident. 2% have had a violent assault or mugging compared to 4% men.

4. Further details of aspects of the information about accidents, and a number of derived variables are given below.

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 98</th>
<th>user-missing: 99</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N   %</td>
<td>N   %</td>
<td>N   %</td>
</tr>
</tbody>
</table>

Multi-coded questions ask if CM had an accident, and if yes, what type of accident.

Accidan1: 66 0.3
Accidan2: 8 0
Accidan3: 24 0.1
Accidan4: 22582

12458 (55%) reported no accidents with 10124 (45%) reporting they had some kind of accident. These CMs asked how many accidents they had had in total, the age and type of their most recent accident.

Accidno: 10104
Accage: 10085
Accwhy: 10101

Derived ACCIDENT variables

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 98</th>
<th>user-missing: 99</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N   %</td>
<td>N   %</td>
<td>N   %</td>
</tr>
</tbody>
</table>

2-category derived variables from multi-coded accidan1-accidan9. Each variable gives % experiencing type of accident: road accident (pedestrian), road accident (driver/passenger), at work, at home, at school/college, playing sport, other type, violent assault, sexual assault. Values: 0’not experienced’ 1’yes, experienced’.

accroadp: 98 0.4
accroadd: 
accwork: 
acchome: 
accschcl: 
accsport: 
accother: 
vassault: 
asssex: 

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.
Further details of these derived variables are to be found in the detailed documentation supplied by Samantha Parsons, which is included as Appendix 5.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)

Smoking

1. **Missing values:**

There are occasional 8s and 9s on SMOKING, NOFCIGS, AGEQUIT, OTHSMOKE and PARTCIGS

As noted above, the following missing values will be found within the data:

**Missing values (unless otherwise labelled)**

| 7, 97, 997, 9997, 99997, 999997 | = Refused |
| 8, 98, 998, 9998, 99998, 999998 | = Don't know |
| 9, 99, 999, 9999, 99999, 999999 | = Not answered |
| . (sysmis) | = Not applicable |

2. **Basic distributions:**

<table>
<thead>
<tr>
<th></th>
<th>Men</th>
<th>Women</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BCS70 (n=5438) %</td>
<td>NCDS (n=5600) %</td>
</tr>
<tr>
<td>Never smoked cigarettes</td>
<td>41.8</td>
<td>43.7</td>
</tr>
<tr>
<td>Used to smoke, don’t at all now</td>
<td>18.2</td>
<td>26.0*</td>
</tr>
<tr>
<td>Smoke occasionally</td>
<td>8.1</td>
<td>4.6</td>
</tr>
<tr>
<td>Smoke every day</td>
<td>31.9</td>
<td>25.7</td>
</tr>
</tbody>
</table>

* Mean age of quitting is similar in men and in women, at around 30.5 years.
** Of the current smokers, consumption in men and women peaks at 20/day (31%) with only 5% smoking more than 30/day. The other 2 peaks are at 10 and 15 per day. Average number of cigarettes smoked per day is 23 for men and 18 for women.
Further details of aspects of the information about smoking, and a derived variable giving categories for number of cigarettes smoked are given below.

<table>
<thead>
<tr>
<th>Variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98; ^^indicates 998)</th>
<th>user-missing: 9 (^ indicates 99; ^^indicates 999)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>Smoking</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nofcigs</td>
<td>16458</td>
<td>72.6</td>
<td>^16</td>
<td>0.3</td>
</tr>
<tr>
<td>exsmoker</td>
<td>16333</td>
<td>72.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agequit</td>
<td>18148</td>
<td>80.0</td>
<td>^6</td>
<td>0.1</td>
</tr>
<tr>
<td>whosmoke</td>
<td>16816</td>
<td>74.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partcigs</td>
<td>18159</td>
<td>80.1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.

**Derived SMOKING variable**

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98; ^^indicates 998)</th>
<th>user-missing: 9 (^ indicates 99; ^^indicates 999)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>Smoke</td>
<td>116</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6 category variables combining information from smoking and nofcigs. Values: 0 ‘never smoked’ 1 ‘ex-smoker’ 2 ‘occasional smoker’ 3 ‘up to 10 a day’ 4 ‘11 to 20 a day’ 5 ‘more than 20 a day’.

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.

Further details of these derived variables are to be found in the detailed documentation supplied by Samantha Parsons, which is included as Appendix 5.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Drinking

1. Further details of aspects of the information about alcohol consumption, and a number of derived variables are given below.

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98; ^^indicates 998)</th>
<th>user-missing: 9 (^ indicates 99; ^^indicates 999)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drinks</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>18260 (80.7%) CMs drank alcohol regularly (daily, weekly or monthly). 18260 asked how many of each type of alcoholic drink they had in last 7 days prior to interview</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>beer</td>
<td>4420</td>
<td>19.5</td>
<td>^^16</td>
<td>0.1</td>
</tr>
<tr>
<td>Spirits</td>
<td>4420</td>
<td>19.5</td>
<td>^^16</td>
<td>0.1</td>
</tr>
<tr>
<td>Wine</td>
<td>4420</td>
<td>19.5</td>
<td>^^3</td>
<td>18256</td>
</tr>
<tr>
<td>Sherry</td>
<td>4420</td>
<td>19.5</td>
<td></td>
<td>18258</td>
</tr>
<tr>
<td>Pops</td>
<td>4420</td>
<td>19.5</td>
<td></td>
<td>18258</td>
</tr>
<tr>
<td>othdrink</td>
<td>4420</td>
<td>19.5</td>
<td></td>
<td>18259</td>
</tr>
<tr>
<td>cage1</td>
<td>493</td>
<td>2.2</td>
<td></td>
<td>22182</td>
</tr>
<tr>
<td>cage2</td>
<td>17159</td>
<td>75.7</td>
<td></td>
<td>5520</td>
</tr>
<tr>
<td>cage3</td>
<td>493</td>
<td>2.2</td>
<td></td>
<td>22187</td>
</tr>
<tr>
<td>cage4</td>
<td>20487</td>
<td>90.3</td>
<td></td>
<td>2193</td>
</tr>
<tr>
<td>cage5</td>
<td>493</td>
<td>2.2</td>
<td></td>
<td>22187</td>
</tr>
<tr>
<td>cage6</td>
<td>19987</td>
<td>88.1</td>
<td></td>
<td>2693</td>
</tr>
<tr>
<td>cage7</td>
<td>493</td>
<td>2.2</td>
<td></td>
<td>22185</td>
</tr>
<tr>
<td>cage8</td>
<td>21806</td>
<td>96.1</td>
<td></td>
<td>874</td>
</tr>
<tr>
<td>cage9</td>
<td>4208</td>
<td>18.6</td>
<td></td>
<td>439</td>
</tr>
<tr>
<td>cage10</td>
<td>20141</td>
<td>88.8</td>
<td></td>
<td>2539</td>
</tr>
</tbody>
</table>

5521 (24.9%) CMs ever felt should cut down on their drinking. 5521 asked if felt this in last year

2193 (9.7%) CMs ever felt criticised about their drinking. 2193 asked if felt this in last year

2693 (11.9%) CMs ever felt bad or guilty about their drinking. 2693 asked if felt this in last year

874 (3.9%) CMs ever had a drink first thing in A.M. to steady hands. 874 asked if they had in last year

2539 (11.2%) CMs ever drink during breaks at work. 2539 asked if they had in last year

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.

Derived DRINKING variables

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98; ^^indicates 998)</th>
<th>user-missing: 9 (^ indicates 99; ^^indicates 999)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>drkunits</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>Continuous variable giving total number of alcohol units CM had in 7 days prior to interview. Combines information given in beer, spirits, wine, sherry and pops. Range from 0-427. Mean: 19.26, Median: 11.00, sd: 25.77</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drkcrit</td>
<td>493</td>
<td>2.2</td>
<td></td>
<td>22187</td>
</tr>
<tr>
<td>Drkbad</td>
<td>493</td>
<td>2.2</td>
<td></td>
<td>22187</td>
</tr>
<tr>
<td>Drkhand</td>
<td>495</td>
<td>2.2</td>
<td></td>
<td>22185</td>
</tr>
<tr>
<td>Drkwork</td>
<td>4214</td>
<td>18.6</td>
<td></td>
<td>18466</td>
</tr>
</tbody>
</table>

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.
Further details of these derived variables are to be found in the detailed documentation supplied by Samantha Parsons, which is included as Appendix 5.

2. The information gathered on drinking also includes 10 items from the CAGE scale, see below.

### Cage variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAGE1</td>
<td>Ever felt ought to cut down on drinking</td>
</tr>
<tr>
<td>CAGE2</td>
<td>Felt ought to cut down on drinking in last year?</td>
</tr>
<tr>
<td>CAGE3</td>
<td>Have people annoyed you by criticising your drinking</td>
</tr>
<tr>
<td>CAGE4</td>
<td>People annoyed CM re: drinking in last year</td>
</tr>
<tr>
<td>CAGE5</td>
<td>Ever felt bad or guilty about your drinking</td>
</tr>
<tr>
<td>CAGE6</td>
<td>Felt bad/guilty about drinking in past year?</td>
</tr>
<tr>
<td>CAGE7</td>
<td>Ever had a drink first thing in am to steady hands etc</td>
</tr>
<tr>
<td>CAGE8</td>
<td>Had drink first thing in am in past year?</td>
</tr>
<tr>
<td>CAGE9</td>
<td>Ever have an alcoholic drink during breaks in daily work</td>
</tr>
<tr>
<td>CAGE10</td>
<td>Freq of drinking during work breaks in past year</td>
</tr>
</tbody>
</table>

Items 1, 3, 5, 7 may be used to create a drinking problem scale; scores of 2 or more positively endorsed items on this scale have been shown to provide a good indicator of alcohol problems in community samples (King, M. (1986). At risk drinking among general practice attenders. Validation of the CAGE questionnaire. *Psychological Medicine* 16, 213-217; Mayfield, D., McCloed, G. & Hall, P. (1984). The CAGE questionnaire. Validation of a new alcohol screening instrument. *American Journal of Psychiatry* 131, 1121-1123). SPSS syntax to generate CAGETOT (total score) and CAGEDI (low vs high) is given below.

*CAGE total score (count of positively endorsed items) and binary alcohol problem indicator (see Mayfield et al, 1984; King, 1986 for details).*

*set no to 0 and yes to 1 and declare missing values.
recode cage1 cage3 cage5 cage7 (2 = 0).
mis val cage1 cage3 cage5 cage7 (8, 9).
val lab cage1 cage3 cage5 cage7 0 'no' 1 'yes'.

*compute CAGE total score.
compute cagetot = cage1 + cage3 + cage5 + cage7.
recode cagetot (sysmis = 9).
var lab cagetot 'Cage (ever), total score'.
val lab cagetot 9 'not known'.

*compute binary indicator of alcohol problems.
compute cagedi = cagetot.
recode cagedi (2 through 4 = 1) (0, 1 = 0) (sysmis = 9).
mis val cagedi cagedi (9).
var lab cagedi 'Cage (any drinking problem ever), 2+ cutoff cagetot'.
val lab cagedi 0 'no' 1 'yes' 9 'not known'.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Diet

1. For NCDS:

- 45% men and 60% women eat fresh fruit once / day or more. 20% men and 14% women eat it less than once a week or occasionally.
- 11% men and 25% women eat salads or raw vegetables once a day or more. 25% men and 15% women eat salads or raw vegetables less than once a week.
- 35% men and 43% women eat cooked vegetables at least once per day.
- 66% men and 53% women eat food fried in vegetable oil less than once a week. 20% men and 10% women eat food fried in vegetable oil 3-6 days a week.
- 8% men and 5% women eat food fried in hard fat 1-2 times a week. 60% men and 73% women never eat food fried in hard fat.
- 53% men and 35% women eat chips more than 1-2 days a week.
- 50% men and 40% women eat eggs less frequently than twice a week.
- 9% men and 21% women eat sweets and chocolates once a day or more. 25% men and women eat sweets and chocolates only occasionally (<1 day /week).
- 23% men and 21% women eat cakes or biscuits at least once per day. 23% men and 26% women eat cakes and biscuits only occasionally.
- 40% men and 47% women eat whole meal bread or rolls 3-6 days per week. 68% men and
- 60% women eat other bread or rolls 3-6 times a week.
- 32% men and 24% women eat red meat 3-6 days a week.
- 34% men and 40% women eat poultry 3-6 days a week.
- 70% men and women eat fresh fish less than one day a week.
- 76% men and 70% women eat pulses less frequently than one day per week.
- 2% men and 3% women are vegetarians.
- 3% men and 7% women are on a special diet- sometimes prescribed by doctor.
2. Further details of aspects of the information about diet are given below.

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>%</td>
<td>N</td>
<td>%</td>
</tr>
<tr>
<td>Fruit</td>
<td>66</td>
<td>0.3</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Eggs</td>
<td>66</td>
<td>0.3</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Salads</td>
<td>66</td>
<td>0.3</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>cookdveg</td>
<td>66</td>
<td>0.3</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Oilfried</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Chops</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Sweets</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Cakes</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>whlbread</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Othbread</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Redmeat</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Poultry</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Pulses</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Veggy</td>
<td>66</td>
<td>0.3</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

808 (3.6%) CMs vegetarian. 808 asked the type of vegetarian they were

<table>
<thead>
<tr>
<th>Vegtype</th>
<th>N</th>
<th>%</th>
<th>n</th>
<th>%</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>66</td>
<td>0.3</td>
<td>9</td>
<td></td>
<td>26</td>
<td>0.1</td>
</tr>
</tbody>
</table>

1061 (4.7%) CMs followed a special diet. 1061 asked the type of special diet they followed. Only 1009 (95% of 1061) asked if the diet had been recommended by a doctor

<table>
<thead>
<tr>
<th>Diettype</th>
<th>N</th>
<th>%</th>
<th>n</th>
<th>%</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>66</td>
<td>0.3</td>
<td>10</td>
<td></td>
<td>27</td>
<td>0.1</td>
</tr>
</tbody>
</table>

17263 (76.3%) CMs do regular exercise. 17263 asked how often they take regular exercise and if they become breathless/sweaty during exercise

<table>
<thead>
<tr>
<th>Exercise</th>
<th>N</th>
<th>%</th>
<th>n</th>
<th>%</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>66</td>
<td>0.3</td>
<td>10</td>
<td></td>
<td>27</td>
<td>0.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Breathle</th>
<th>N</th>
<th>%</th>
<th>n</th>
<th>%</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>0</td>
<td>17261</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sweat</th>
<th>N</th>
<th>%</th>
<th>n</th>
<th>%</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>0</td>
<td>17260</td>
<td></td>
</tr>
</tbody>
</table>

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
Exercise

For NCDS:

- 75% men and 72% women do regular exercise.
- 15% men and 20% women exercise every day.
- 61% men and 67% women do regular exercise 2-3 days a week.
- 38% men and 23% women report getting out of breath or sweaty most times that they exercise.

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
CITIZENSHIP AND VALUES

| Citizenship and Values | Involvement with organisations, voting behaviour and intentions, political alignment, trade union membership, religion, newspaper readership, car ownership, values, political activity |

Review of these data by the CLS NCDS/BCS70 Team and by advisors has, to date, revealed no particular problems, nor have any derived variables been developed.

The data will continue to be investigated and, if necessary, detailed updates will be made available, and the dataset will be updated.

Queries about problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
SELF-COMPLETION

<table>
<thead>
<tr>
<th>Your views</th>
<th>Attitude statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>How you get on with your husband, wife or partner</td>
<td>Includes Locke-Wallace</td>
</tr>
<tr>
<td>Some more of your views</td>
<td>Attitude statements</td>
</tr>
<tr>
<td>How you feel</td>
<td>Malaise Inventory</td>
</tr>
<tr>
<td>Your skills</td>
<td>How good at skill/is skill used at work</td>
</tr>
<tr>
<td>More of your views</td>
<td>Attitude statements</td>
</tr>
<tr>
<td>How you feel about your life so far</td>
<td>GHQ 12</td>
</tr>
<tr>
<td>More of your views</td>
<td>Attitude statements</td>
</tr>
<tr>
<td>School exclusion and truancy</td>
<td>Number of temporary/permanent suspensions/exclusions; frequency of truancy</td>
</tr>
<tr>
<td>Contact with the police and crime</td>
<td>Number of times moved on, questioned, warned, taken to police station, cautioned, found guilty by a court</td>
</tr>
<tr>
<td>Use of illegal drugs</td>
<td>Whether tried number of specific drugs ever/in last 12 months</td>
</tr>
</tbody>
</table>

Your views/Some more of your views/More of your views

*(Based on work undertaken by John Preston, Centre for Longitudinal Studies, Institute of Education, University of London)*

In reviewing the data for the questions on ‘Views’ in the self-completion (CASI), John Preston developed the following ten attitude scales:

<table>
<thead>
<tr>
<th>Scale</th>
<th>Derived variable</th>
<th>Alpha coefficients</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Anti-racism</td>
<td>TOLERACE</td>
<td>NCDS 0.8000  BCS70 0.8222</td>
</tr>
<tr>
<td>2 Left-Right</td>
<td>LEFTR</td>
<td>NCDS 0.7313  BCS70 0.6792</td>
</tr>
<tr>
<td>2 Support for Authority</td>
<td>AUTHORIT</td>
<td>NCDS 0.6470  BCS70 0.6176</td>
</tr>
<tr>
<td>4 Support for traditional marital values</td>
<td>PROFAM</td>
<td>NCDS 0.8620  BCS70 0.6345</td>
</tr>
<tr>
<td>5 Effect of children on quality of life</td>
<td>NOKIDS</td>
<td>NCDS 0.6141  BCS70 0.6232</td>
</tr>
<tr>
<td>6 Support for working Mothers</td>
<td>MUMWORK</td>
<td>NCDS 0.6880  BCS70 0.6782</td>
</tr>
<tr>
<td>7 Political cynicism</td>
<td>POLCYN</td>
<td>NCDS 0.6742  BCS70 0.6526</td>
</tr>
<tr>
<td>8 Technophobia</td>
<td>ANTITECH</td>
<td>NCDS 0.5892  BCS70 0.5732</td>
</tr>
<tr>
<td>9 Environmentalism</td>
<td>ENVIRON</td>
<td>NCDS 0.4664  BCS70 0.5070</td>
</tr>
<tr>
<td>10 Support for the work ethic</td>
<td>WORKETH</td>
<td>NCDS 0.5388  BCS70 0.5469</td>
</tr>
</tbody>
</table>

The scales were constructed using the 50 ‘Views’ items of the self-completion questionnaire (see below), although a small number were not included in the scales, and did not appear to form any clear factors of their own. Data for NCDS and BCS70 was analysed separately, although the factors identified in each were, fortuitously, identical. Principal components analysis was employed using varimax rotation to orthogonal simple structure. The number of factors chosen was based upon those with Eigen values greater than one, followed by the ‘scree’ test to determine that point at which Eigen values leveled off. Factors were examined for interpretability and to ensure that at least three items had loadings on each of them. Cronbach’s alpha was employed as a test of internal consistency of the factors. In all cases, alpha scores were above 0.5 which indicates that it is acceptable to consider the items as forming an identifiable factor.

For each factor, the derived variable identified above is the mean of the scores for each item within the component. Further details of the development of these derived variables and appropriate SPSS
code are to be found in the detailed documentation supplied by John Preston, which is included as Appendix 8.

Questions on ‘Views’ in the self-completion (CASI)

<table>
<thead>
<tr>
<th>Variable Label</th>
<th>Variable Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR1 (SC) Big business benefits owners at expense of workers</td>
<td>LR5 (SC) Ordinary people don’t get fair share of nation’s wealth</td>
</tr>
<tr>
<td>AR1 (SC) Mixed race marriage is OK</td>
<td>AR4 (SC) Wouldn’t mind working with people from other races</td>
</tr>
<tr>
<td>E1 (SC) Problems in the environment not that serious</td>
<td>IT2 (SC) Computers enrich the lives of users</td>
</tr>
<tr>
<td>A1 (SC) The law should be obeyed even if wrong</td>
<td>MOR4 (SC) Marriage is for life?</td>
</tr>
<tr>
<td>C1 (SC) Unless have kids will be lonely in old age</td>
<td>A4 (SC) Give law breakers stiffer sentences</td>
</tr>
<tr>
<td>PC1 (SC) No political party would benefit me</td>
<td>E3 (SC) The environment vs economic growth</td>
</tr>
<tr>
<td>L1* (SC) More likely to get better job if do training/educ</td>
<td>WE2 (SC) If I didn’t like a job I’d pack it in</td>
</tr>
<tr>
<td>MOR1 (SC) Divorce is too easy to get these days</td>
<td>LR6 (SC) Government should redistribute income</td>
</tr>
<tr>
<td>LR2 (SC) Private schools should be abolished</td>
<td>WM4 (SC) A mother and family happier if she goes out to work</td>
</tr>
<tr>
<td>WM1 (SC) Pre-school kids suffer if mum works</td>
<td>L3 (SC) Learning new things boosts confidence</td>
</tr>
<tr>
<td>IT1 (SC) Computers at work destroying peoples skills</td>
<td>C3* (SC) Having children interferes with parents freedom</td>
</tr>
<tr>
<td>WE1 (SC) Any job is better than being unemployed</td>
<td>A5 (SC) Young people don’t have respect for trad values</td>
</tr>
<tr>
<td>MOR2 (SC) Married people happier than unmarried</td>
<td>WM3 (SC) Kids benefit if mum has job outside home?</td>
</tr>
<tr>
<td>A2 (SC) Death penalty for some crimes</td>
<td>A4 (SC) Give law breakers stiffer sentences</td>
</tr>
<tr>
<td>MOR3 (SC) Couples with kids should not separate</td>
<td>MOR5 (SC) Women should have the right to an abortion?</td>
</tr>
<tr>
<td>LR3 (SC) Management get the better of employees</td>
<td>PC3 (SC) Politicians in politics for own benefit?</td>
</tr>
<tr>
<td>AR2 (SC) Wouldn’t mind if family of diff race moved next door</td>
<td>L4* (SC) Effort of getting quals more trouble than worth?</td>
</tr>
<tr>
<td>C2 (SC) Can have fulfilling life with no kids</td>
<td>AR5 (SC) Don’t want another race person as my boss?</td>
</tr>
<tr>
<td>L2* (SC) Knowing right people helps more than quals to get job</td>
<td>MOR6 (SC) Alright for unmarried people to have kids?</td>
</tr>
<tr>
<td>PC2 (SC) No difference which political party is in power in GB</td>
<td>A6 (SC) Schools teach children to obey authority?</td>
</tr>
<tr>
<td>LR4* (SC) Take out own private health care, stop relying on NHS</td>
<td>IT4 (SC) Every family should have a computer?</td>
</tr>
<tr>
<td>E2 (SC) Preserving environment most important</td>
<td>WE3 (SC) Important to hang onto job even if unhappy?</td>
</tr>
<tr>
<td>A3 (SC) Censorship is needed to uphold morals</td>
<td>WM5 (SC) Dads job is to earn money; mums to stay home?</td>
</tr>
<tr>
<td>WM2 (SC) Family life suffers if mum working full time</td>
<td>C4 (SC) People with no kids are missing out?</td>
</tr>
<tr>
<td>AR3 (SC) Would mind kids going to school with diff races</td>
<td>IT5* (SC) Learning to use a computer more trouble than worth?</td>
</tr>
</tbody>
</table>

* Variable not included in the scales and not appearing to form any clear factors of their own.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
How you feel (Malaise Inventory)

*(Based on work undertaken by Richard Rowe & Barbara Maughan, Institute of Psychiatry)*

The Malaise Inventory provides a measure of for assessing psychiatric morbidity, developed by the Rutter and others at the Institute of Psychiatry from the Cornell Medical Index (Rutter M, Tizard J, and Whitemore K (1970) *Education, Health and Behaviour*. London). It is a 24-item self-completion scale and has been included in earlier NCDS and BCS70 follow-ups. The 24 variables included on the dataset are identified below.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAL01</td>
<td>(SC) Do you often have backache?</td>
</tr>
<tr>
<td>MAL02</td>
<td>(SC) Do you feel tired most of the time?</td>
</tr>
<tr>
<td>MAL03</td>
<td>(SC) Do you often feel miserable or depressed?</td>
</tr>
<tr>
<td>MAL04</td>
<td>(SC) Do you often have bad headaches?</td>
</tr>
<tr>
<td>MAL05</td>
<td>(SC) Do you often get worried about things?</td>
</tr>
<tr>
<td>MAL06</td>
<td>(SC) Usually have difficulty falling or staying asleep?</td>
</tr>
<tr>
<td>MAL07</td>
<td>(SC) Usually wake unnecessarily early in morning?</td>
</tr>
<tr>
<td>MAL08</td>
<td>(SC) Do you wear yourself out worrying about health?</td>
</tr>
<tr>
<td>MAL09</td>
<td>(SC) Do you often get into a violent rage?</td>
</tr>
<tr>
<td>MAL10</td>
<td>(SC) Do people often annoy and irritate you?</td>
</tr>
<tr>
<td>MAL11</td>
<td>(SC) Have you had twitching of face/neck/shoulders?</td>
</tr>
<tr>
<td>MAL12</td>
<td>(SC) Often suddenly become scared for no reason?</td>
</tr>
<tr>
<td>MAL13</td>
<td>(SC) Often scared to be alone without friends near?</td>
</tr>
<tr>
<td>MAL14</td>
<td>(SC) Are you easily upset or irritated?</td>
</tr>
<tr>
<td>MAL15</td>
<td>(SC) Are you frightened of going out alone?</td>
</tr>
<tr>
<td>MAL16</td>
<td>(SC) Are you constantly keyed up and jittery?</td>
</tr>
<tr>
<td>MAL17</td>
<td>(SC) Do you suffer from indigestion?</td>
</tr>
<tr>
<td>MAL18</td>
<td>(SC) Do you suffer from an upset stomach?</td>
</tr>
<tr>
<td>MAL19</td>
<td>(SC) Is your appetite poor?</td>
</tr>
<tr>
<td>MAL20</td>
<td>(SC) Does every little thing get on your nerves?</td>
</tr>
<tr>
<td>MAL21</td>
<td>(SC) Does your heart often race like mad?</td>
</tr>
<tr>
<td>MAL22</td>
<td>(SC) Often have bad pains in your eyes?</td>
</tr>
<tr>
<td>MAL23</td>
<td>(SC) Troubled with rheumatism or fibrositis?</td>
</tr>
<tr>
<td>MAL24</td>
<td>(SC) Have you ever had a nervous breakdown?</td>
</tr>
</tbody>
</table>

Typically, the Malaise inventory has been used to produce:

- **Total score**: The sum of the positive responses to the 24 items
- **Binary categorisation**: Scores 0-6 categorised as ‘Normal’ and 7 and higher as ‘Depressed’

Recent analysis has shown evidence that the responses to the items of the Malaise Inventory may represent two separate psychological and somatic sub-scales rather than a single underlying factor:

- **Psychological subscale**: 15 Items - 2, 3, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 19, 20
- **Somatic subscale**: 8 items - 1, 4, 11, 17, 18, 21, 22, 23
SPSS code to generate all four Malaise measures is given below.

```spss
*Malaise Inventory – Total Score (items 1-24=1)
compute maltot=0.
do repeat x=mal01 to mal24.
if(x eq 1)maltot=maltot+1.
end repeat.
count malmiss=mal01 to mal24(sysmis,8,9).
compute malvalid=24-malmiss.
if(malvalid ge 19)maltot=maltot*24/malvalid.
if(malvalid lt 19)maltot=-1.
missing values maltot(-1).

*Malaise Inventory – Binary categorisation (1-6=1;7-24=2)
compute malaise=maltot.
recode malaise(0 thru 6=1)(6 thru 24=2).

* Malaise Inventory – Psychological subscale (items 2, 3, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 19,
20=1)
count malpsych=mal02 mal03 mal05 mal06 mal07 mal08 mal09 mal10 mal12 mal13 mal14 mal15
mal16 mal19 mal20 (1).

* Malaise Inventory – Somatic subscale (items 1, 4, 11, 17, 18, 21, 22, 23=1)
count malsom=mal01 mal04 mal11 mal17 mal18 mal21 mal22 mal23 (1).
if missing(maltot)malpsych=-1.
if missing(maltot)malsom=-1.
missing values malpsych malsom (-1).
var labels
maltot "Total Malaise score (sum of 1s)/
malaise "Malaise categories"/
malpsych "Malaise: Psychological subscale"/
malsom "Malaise: Somatic subscale".
value labels malaise 1 'Normal' 2 'Depressed'.
fre maltot malaise malpsych malsom.
```

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)

For more information see:


Available at: http://link.springer.de/link/service/journals/00127/bibs/9034006/90340333.htm
Your skills

(Based on work undertaken by Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London)

After reviewing the self-completion data, Samantha Parsons produced the following information about responses to questions included on work-related skills

Further details of all variables are to be found in the detailed documentation supplied by Samantha Parsons, which is included as Appendix 5.

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKILL1A</td>
<td>283 1.2</td>
<td>3</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>SKILL1B</td>
<td>1136 5.0</td>
<td></td>
<td>1</td>
<td>21543</td>
</tr>
<tr>
<td>SKILL2A</td>
<td>283 1.2</td>
<td></td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>SKILL2B</td>
<td>2103 5.3</td>
<td></td>
<td>1</td>
<td>21476</td>
</tr>
<tr>
<td>SKILL3A</td>
<td>383 1.2</td>
<td></td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>SKILL3B</td>
<td>3507 15.5</td>
<td></td>
<td>1</td>
<td>19172</td>
</tr>
<tr>
<td>SKILL4A</td>
<td>283 1.2</td>
<td></td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>SKILL4B</td>
<td>1211 5.3</td>
<td></td>
<td>3</td>
<td>21466</td>
</tr>
<tr>
<td>SKILL5A</td>
<td>283 1.2</td>
<td></td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>SKILL5B</td>
<td>1163 5.1</td>
<td></td>
<td>1</td>
<td>21516</td>
</tr>
<tr>
<td>SKILL6A</td>
<td>283 1.2</td>
<td></td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>SKILL6B</td>
<td>1165 5.1</td>
<td></td>
<td>1</td>
<td>21514</td>
</tr>
<tr>
<td>SKILL7A</td>
<td>283 1.2</td>
<td></td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>SKILL7B</td>
<td>1531 6.8</td>
<td></td>
<td>1</td>
<td>21148</td>
</tr>
<tr>
<td>SKILL8A</td>
<td>283 1.2</td>
<td></td>
<td>3</td>
<td>19 0.1%</td>
</tr>
<tr>
<td>SKILL8B</td>
<td>2463 10.9</td>
<td></td>
<td>1</td>
<td>21216</td>
</tr>
<tr>
<td>SKILL9A</td>
<td>283 1.2</td>
<td></td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>SKILL9B</td>
<td>2157 9.5</td>
<td></td>
<td>1</td>
<td>20522</td>
</tr>
</tbody>
</table>

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.

Queries about problems with these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
How you feel about your life so far (General Health Questionnaire)

The General Health Questionnaire (GHQ) is a self-administered screening test, designed to identify short-term changes in mental health (depression, anxiety, social dysfunction and somatic symptoms). It is a pure state measure, responding to how much a subject feels that their present state "over the past few weeks" is unlike their usual state. It does not make clinical diagnoses and should not be used to measure long-standing attributes. There are four different versions:

- **GHQ12** - A quick screener for survey use.
- **GHQ28** - Used to examine a profile of scores.
- **GHQ30** - A screener with 'physical' element items removed.
- **GHQ60** - Used to identify cases for more intensive examination.

The GHQ12 was included in the self-completion (CASI) as it is very quick to administer. Nonetheless, it is just as reliable, valid and sensitive as the other longer versions. The 12 variables included in the dataset are identified below.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHQ1</td>
<td>(SC)...can concentrate on what you are doing?</td>
</tr>
<tr>
<td>GHQ2</td>
<td>(SC)...lost much sleep over worry?</td>
</tr>
<tr>
<td>GHQ3</td>
<td>(SC)...felt you were playing a useful part in things?</td>
</tr>
<tr>
<td>GHQ4</td>
<td>(SC)...felt capable of making decisions?</td>
</tr>
<tr>
<td>GHQ5</td>
<td>(SC)...felt constantly under strain?</td>
</tr>
<tr>
<td>GHQ6</td>
<td>(SC)...felt could not overcome difficulties?</td>
</tr>
<tr>
<td>GHQ7</td>
<td>(SC)...been able to enjoy normal activities?</td>
</tr>
<tr>
<td>GHQ8</td>
<td>(SC)...been able to face up to your problems?</td>
</tr>
<tr>
<td>GHQ9</td>
<td>(SC)...been feeling unhappy and depressed?</td>
</tr>
<tr>
<td>GHQ10</td>
<td>(SC)...been losing confidence in yourself?</td>
</tr>
<tr>
<td>GHQ11</td>
<td>(SC)...been thinking yourself as worthless?</td>
</tr>
<tr>
<td>GHQ12</td>
<td>(SC)...been feeling reasonable happy?</td>
</tr>
</tbody>
</table>

The GHQ12 is also quick to score. There are two approaches:

- **Binary scoring** - This the usual way of scoring the GHQ when it is to be used for case identification. The advantage of using this method of scoring is that by weighting the answer options 0, 0, 1, 1, it avoids problems due to "middle users". To score you simply assign 0 for the first two answer options, 1 for the second two answer options and total the scores. (If used as a screener, rather than for survey work, this score can be compared to a threshold).

- **Likert scoring** - The authors suggest that if subscale scores are required for GHQ-28, there are marginal advantages in using the Likert method of scoring which assigns weights of 0, 1, 2 and 3 to each answer option. To score you simply assign 0 for the first answer option, 1 for the second answer option, 2 for the third answer option and 3 for the fourth answer option and total the scores. (If used as a screener, rather than for survey work, this score can also be compared to a threshold).
SPSS code to generate both Binary and Likert GHQ12 scores is given below.

* GHQ12 Binary Score (weighting the answer options 0, 0, 1, 1)
fre ghq1 ghq2 ghq3 ghq4 ghq5 ghq6 ghq7 ghq8 ghq9 ghq10 ghq11 ghq12.
missing values ghq1 ghq2 ghq3 ghq4 ghq5 ghq6 ghq7 ghq8 ghq9 ghq10 ghq11 ghq12 (8,9).
recode
ghq1 ghq2 ghq3 ghq4 ghq5 ghq6 ghq7 ghq8 ghq9 ghq10 ghq11 ghq12
(1 thru 2=0) (3 thru 4=1) (else=copy) into ghq1bi ghq2bi ghq3bi
ghq4bi ghq5bi ghq6bi ghq7bi ghq8bi ghq9bi ghq10bi ghq11bi ghq12bi.
compute ghq12bi = ghq1bi+ghq2bi+ghq3bi+ghq4bi+ghq5bi+ghq6bi+ghq7bi+ghq8bi
+ghq9bi+ghq10bi+ghq11bi+ghq12bi.
execute.

* GHQ12 Likert Score (weighting the answer options 0, 1, 2 and 3)
recode
ghq1 ghq2 ghq3 ghq4 ghq5 ghq6 ghq7 ghq8 ghq9 ghq10 ghq11 ghq12
(1=0) (2=1) (3=2) (4=3) (else=copy) into ghq1lik ghq2lik ghq3lik ghq4lik
ghq5lik ghq6lik ghq7lik ghq8lik ghq9lik ghq10lik ghq11lik ghq12lik.
compute ghq12lik = ghq1lik+ghq2lik+ghq3lik+ghq4lik+ghq5lik+ghq6lik+ghq7lik
+ghq8lik+ghq9lik+ghq10lik+ghq11lik+ghq12lik.
var labels
ghq12bi "GHQ12 score"/
ghq12lik "GHQ12 Likert score".
fre ghq12bi ghq12lik.

Queries about these variables should be directed to the User Support Group (cohort@cls.ioe.ac.uk)

A useful website about the General Health Questionnaire including the scoring methods is:

www.nfer-nelson.co.uk/html/health/products/ghq.htm
Contact with the police and crime

*(Based on work undertaken by Richard Rowe & Barbara Maughan, Institute of Psychiatry)*

Whilst reviewing the data from the self-completion, Richard Rowe & Barbara Maughan made a number of observations about the quality and utility of the data. These are summarised below.

COURT, POLICE1 TO POLICE5:

- As expected more men, and more respondents in BCS70, report police contacts or being found guilty by a court (e.g. 23.5% of men in BCS70 have been found guilty by a court).
- 64.8% of men in BCS70 report being stopped and questioned. Are such high rates plausible?
- NB: 170 people who have been found guilty in a court have not reported any police contacts.

Queries about problems with these variables should be directed to the User Support Group
(cohort@cls.ioe.ac.uk)
Use of illegal drugs

(Based on work undertaken by:
- Richard Rowe & Barbara Maughan, Institute of Psychiatry
- Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London)

1. Frequencies for reported use of illegal drugs look plausible (see table below). As expected, men and BCS70 cohort members reported higher levels of drug use.

<table>
<thead>
<tr>
<th>Type of drug</th>
<th>Taken drug, not in last year</th>
<th>Taken drug in last year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannabis</td>
<td>28.6</td>
<td>11.7</td>
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<tr>
<td>Ecstasy</td>
<td>6.7</td>
<td>2.4</td>
</tr>
<tr>
<td>Amphetamines</td>
<td>12.9</td>
<td>2.5</td>
</tr>
<tr>
<td>LSD</td>
<td>8.8</td>
<td>0.5</td>
</tr>
<tr>
<td>Popper</td>
<td>11.5</td>
<td>1.1</td>
</tr>
<tr>
<td>Magic mushrooms</td>
<td>9.7</td>
<td>0.5</td>
</tr>
<tr>
<td>Cocaine</td>
<td>5.7</td>
<td>3.4</td>
</tr>
<tr>
<td>Temazepan</td>
<td>3.5</td>
<td>0.9</td>
</tr>
<tr>
<td>Ketamine</td>
<td>1.1</td>
<td>0.2</td>
</tr>
<tr>
<td>Crack</td>
<td>0.9</td>
<td>0.3</td>
</tr>
<tr>
<td>Heroin</td>
<td>1.2</td>
<td>0.3</td>
</tr>
<tr>
<td>Methadone</td>
<td>0.7</td>
<td>0.2</td>
</tr>
<tr>
<td>“Semeron”</td>
<td>0.2</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Other drugs</td>
<td>2.7</td>
<td></td>
</tr>
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</table>

Source: Richard Rowe & Barbara Maughan, Institute of Psychiatry

2. “Semeron” is a fictitious drug which was included among the illegal drugs listed in the self-completion. This same “drug” has been included in many similar instruments in a variety of surveys. Although relatively few cohort members report using semeron, it is clear that some caution should be used when analyzing the data for those who do so. If semeron-users are excluded from the above table, the prevalence of the use of other genuine illegal drugs will be marginally reduced.

3. Additional information about the data relating to illegal drug use is given below. A number of derived variables are also identified. The latter exclude data for cohort members who reported using semeron. Further details of these variables are to be found in the detailed documentation supplied by Samantha Parsons, which is included as Appendix 5.
variable system-missing user-missing: 8 (^ indicates 98) user-missing: 9 (^ indicates 99) valid n

<table>
<thead>
<tr>
<th>variable</th>
<th>n</th>
<th>%</th>
<th>n</th>
<th>%</th>
<th>n</th>
<th>%</th>
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<td>0.0</td>
<td>22378</td>
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<td>12</td>
<td>0.1</td>
<td>7</td>
<td>0.0</td>
<td>22378</td>
</tr>
<tr>
<td>AMPHET</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
<td>6</td>
<td>0.0</td>
<td>22380</td>
</tr>
<tr>
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<td>11</td>
<td>0</td>
<td>6</td>
<td>0.0</td>
<td>22380</td>
</tr>
<tr>
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<td>11</td>
<td>0</td>
<td>8</td>
<td>0.0</td>
<td>22378</td>
</tr>
<tr>
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<td>11</td>
<td>0</td>
<td>7</td>
<td>0.0</td>
<td>22379</td>
</tr>
<tr>
<td>COCAINE</td>
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<td>1.2</td>
<td>11</td>
<td>0</td>
<td>7</td>
<td>0.0</td>
<td>22379</td>
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<td>TEMAZ</td>
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<td>11</td>
<td>0</td>
<td>9</td>
<td>0.0</td>
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<td>11</td>
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<td>10</td>
<td>0.0</td>
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<td>KETAMINE</td>
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<td>11</td>
<td>0</td>
<td>8</td>
<td>0.0</td>
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<td>CRACK</td>
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<td>0</td>
<td>6</td>
<td>0.0</td>
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<tr>
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<td>11</td>
<td>0</td>
<td>6</td>
<td>0.0</td>
<td>22380</td>
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<tr>
<td>METHAD</td>
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<td>11</td>
<td>0</td>
<td>6</td>
<td>0.0</td>
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<tr>
<td>OTHDRUG</td>
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<td>1.2</td>
<td>11</td>
<td>0</td>
<td>7</td>
<td>0.0</td>
<td>22379</td>
</tr>
</tbody>
</table>

**DRUG-DRUG6:** multi-coded string variables for the 614 CMs who answered 'yes' to othdrug. 22378 are 'numeric missing' leaving just 302 individual answers in drug, 37 in drug2, 13 in drug3, 8 in drug4, 4 in drug5, 2 in drug6. Each answer needs to be converted from string to numeric.

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.

---

**Derived ILLEGAL DRUG variables**

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>n</td>
<td>%</td>
<td>N</td>
<td>%</td>
<td>n</td>
</tr>
</tbody>
</table>

If CMs said they had taken SEMERON they were omitted from derived variables on illegal drug use. 43 (0.2%) said they had taken the drug SEMERON.

anydrug1 347 1.5
Takes information from the 12 individual illegal drug questions (information in othdrug not coded yet). Counts the number of illegal drugs CM has taken in the last 12 months. 13.5% of CMs have taken at least 1 illegal drug in last 12 months.

drugs1 347 1.5
Collapses anydrug1 variable into 0‘not taken any drug’ 1‘yes, taken at least 1 illegal drug in last 12 months’.

anydrug2 347 1.5
Takes information from the 12 individual illegal drug questions (information in othdrug not coded yet). Counts the number of illegal drugs CM has ever taken. 43.5% of CMs have taken at least 1 illegal drug in their lifetime.

drugs2 347 1.5
Collapses anydrug2 variable into 0‘never taken an illegal drug’ 1‘yes, taken at least 1 illegal drug in lifetime’.

Source: Samantha Parsons, Centre for Longitudinal Studies, Institute of Education, University of London.

---

4. The variables DRUG to DRUG6 hold the ‘Other drugs’ keyed into the laptops by cohort members as they answered the self-completion. Some entries may appear nonsensical, and many are misspelled. Other entries could, in principle be assigned to one of the above categories, (eg: variants on spelling of cannabis etc). A number of other drugs not listed in the self-completion are also identified (eg: opium and solvents). Other entries may well represent street-names of particular drugs. It is hoped that it may be possible to update the variables relating to illegal drugs in order to incorporate this information in the future.

Queries about these problems should be directed to the User Support Group (cohort@cls.ioe.ac.uk)
## APPENDICES

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Pregnancy History Variables</td>
<td>A2</td>
</tr>
<tr>
<td>Appendix 2</td>
<td>Proxy Interview Variables</td>
<td>A5</td>
</tr>
<tr>
<td>Appendix 3</td>
<td>NCDS/BCS70 Advisors contributing to quality assessment of NCDS/BCS70 data</td>
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<tr>
<td>Appendix 4</td>
<td>Earnings and related variables</td>
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<td>Appendix 5</td>
<td>Basic Skills and other variables</td>
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</tr>
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<td>Problems with reporting of GCSEs</td>
<td>A96</td>
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<td>Appendix 7</td>
<td>Highest Qualification</td>
<td>A138</td>
</tr>
<tr>
<td>Appendix 8</td>
<td>Attitude Scales</td>
<td>A163</td>
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</tbody>
</table>
## APPENDIX 1: Pregnancy History Variables

| Pregnancy Number | Baby | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
|------------------|------|---|---|---|---|---|---|---|---|---|---|---|
| Has CM ever been or got anyone else pregnant | EVERPREG |
| Number of babies carried | PREGNUM | PREGNUM2 |
| How long had CM & partner not been using birth control | PREGJ | PREGJ2 |
| Months not been using birth control | PREGK |
| Weeks not been using birth control | PREGK2 |
| Years not been using birth control | PREGL | PREGL2 |
| MC: Whether smoked during pregnancy | CGPREGA1 | CGPREGA4 |
| MC: Whether smoked during pregnancy | CGPREGA2 | CGPREGA5 |
| MC: Whether smoked during pregnancy | CGPREGA3 | CGPREGA6 |
| Whether smoked more, less or same as before | CPREGB | CPREGB2 |
| Outcome of pregnancy for baby(n) | PREGA | PREGA2 | PREGA3 | PREGA4 | PREGA5 | PREGA6 | PREGA7 | PREGA8 | PREGA9 | PREGA10 |
| Name of baby(n) | PREGB | PREGB2 | PREGB3 | PREGB4 | PREGB5 | PREGB6 | PREGB7 | PREGB8 | PREGB9 | PREGB10 |
| Sex of baby(n) | PREGC | PREGC2 | PREGC3 | PREGC4 | PREGC5 | PREGC6 | PREGC7 | PREGC8 | PREGC9 | PREGC10 |
| Birth weight of baby(n) – units | PREGD | PREGD2 | PREGD3 | PREGD4 | PREGD5 | PREGD6 | PREGD7 | PREGD8 | PREGD9 | PREGD10 |
| Birth weight of baby(n) pounds | POUND | POUND2 | POUND3 | POUND4 | POUND5 | POUND6 | POUND7 | POUND8 | POUND9 | POUND10 |
| Birth weight of baby(n) ounces | OUNCE | OUNCE2 | OUNCE3 | OUNCE4 | OUNCE5 | OUNCE6 | OUNCE7 | OUNCE8 | OUNCE9 | OUNCE10 |
| Birth weight of baby(n) kilos | KILO | KILO2 | KILO3 | KILO4 | KILO5 | KILO6 | KILO7 | KILO8 | KILO9 | KILO10 |
| Birth weight of baby(n) grammes | GRAMM | GRAMM2 | GRAMM3 | GRAMM4 | GRAMM5 | GRAMM6 | GRAMM7 | GRAMM8 | GRAMM9 | GRAMM10 |
| baby(n) day of live or still birth | PREGED | PREGED2 | PREGED3 | PREGED4 | PREGED5 | PREGED6 | PREGED7 | PREGED8 | PREGED9 | PREGED10 |
| baby(n) month of live/still birth, miscarriage/termination | PREGEN | PREGEN2 | PREGEN3 | PREGEN4 | PREGEN5 | PREGEN6 | PREGEN7 | PREGEN8 | PREGEN9 | PREGEN10 |
| baby(n) year of live/still birth, miscarriage/termination | PREGEM | PREGEM2 | PREGEM3 | PREGEM4 | PREGEM5 | PREGEM6 | PREGEM7 | PREGEM8 | PREGEM9 | PREGEM10 |
| baby(n) date of birth | PREGEY | PREGEY2 | PREGEY3 | PREGEY4 | PREGEY5 | PREGEY6 | PREGEY7 | PREGEY8 | PREGEY9 | PREGEY10 |
| Was baby(n) early, late or on time | PREGF | PREGF2 | PREGF3 | PREGF4 | PREGF5 | PREGF6 | PREGF7 | PREGF8 | PREGF9 | PREGF10 |
| How many weeks early or late was baby(n) | PREGG | PREGG2 | PREGG3 | PREGG4 | PREGG5 | PREGG6 | PREGG7 | PREGG8 | PREGG9 | PREGG10 |
| Was anything wrong with baby(n) at birth | PREGH | PREGH2 | PREGH3 | PREGH4 | PREGH5 | PREGH6 | PREGH7 | PREGH8 | PREGH9 | PREGH10 |
| Is CMs current partner baby(n)s other parent | WHOPARA | WHOPARA2 | WHOPARA3 | WHOPARA4 | WHOPARA5 | WHOPARA6 | WHOPARA7 | WHOPARA8 | WHOPARA9 | WHOPARA10 |
| Who is baby(n)s other parent | WHOPARB | WHOPARB2 | WHOPARB3 | WHOPARB4 | WHOPARB5 | WHOPARB6 | WHOPARB7 | WHOPARB8 | WHOPARB9 | WHOPARB10 |
| Does baby(n) ever see other parent | ABSKIDAB | ABSKIDAB2 | ABSKIDAB3 | ABSKIDAB4 | ABSKIDAB5 | ABSKIDAB6 | ABSKIDAB7 | ABSKIDAB8 | ABSKIDAB9 | ABSKIDAB10 |
| How often does baby(n) see other parent | ABSKIDAC | ABSKIDAC2 | ABSKIDAC3 | ABSKIDAC4 | ABSKIDAC5 | ABSKIDAC6 | ABSKIDAC7 | ABSKIDAC8 | ABSKIDAC9 | ABSKIDAC10 |
| Another pregnancy before this one? | MOREPREG | MOREPRE2 |
## Pregnancy History Variables (continued)

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<tr>
<th>Pregnancy History Variables</th>
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<th>2</th>
<th>3</th>
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<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<td>Has CM ever been or got anyone else pregnant</td>
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<tr>
<td>(Number of babies carried)</td>
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<tr>
<td>How long had CM &amp; partner not been using birth control</td>
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<td></td>
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<td>Weeks not been using birth control</td>
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<td>Years not been using birth control</td>
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<td>MC: Whether smoked during pregnancy</td>
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<td>Whether smoked more, less or same as before</td>
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<td>PREGA15</td>
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<td>PREGC16</td>
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<td>PREGC18</td>
<td>PREGC19</td>
<td>PREGC20</td>
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<tr>
<td>Birth weight of baby(n) - units</td>
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<td>PREGD12</td>
<td>PREGD13</td>
<td>PREGD14</td>
<td>PREGD15</td>
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<td>PREGD17</td>
<td>PREGD18</td>
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<td>Birth weight of baby(n) pounds</td>
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<td>POUND13</td>
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<td>OUNCE15</td>
<td>OUNCE16</td>
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<td>KILO17</td>
<td>KILO18</td>
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<tr>
<td>Was baby(n) early, late or on time</td>
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<td>PREGF15</td>
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<td>PREGF20</td>
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<tr>
<td>How many weeks early or late was baby(n)</td>
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<td>PREGG12</td>
<td>PREGG13</td>
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<td>PREGG17</td>
<td>PREGG18</td>
<td>PREGG19</td>
<td>PREGG20</td>
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<tr>
<td>Was anything wrong with baby(n) at birth</td>
<td>PREGH11</td>
<td>PREGH12</td>
<td>PREGH13</td>
<td>PREGH14</td>
<td>PREGH15</td>
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<td>PREGH17</td>
<td>PREGH18</td>
<td>PREGH19</td>
<td>PREGH20</td>
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<td>What was the problem with the baby(n)</td>
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<td>PREGI12</td>
<td>PREGI13</td>
<td>PREGI14</td>
<td>PREGI15</td>
<td>PREGI16</td>
<td>PREGI17</td>
<td>PREGI18</td>
<td>PREGI19</td>
<td>PREGI20</td>
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<tr>
<td>Is CMs current partner baby(n)s other parent</td>
<td>WHOPAR12</td>
<td>WHOPAR14</td>
<td>WHOPAR16</td>
<td>WHOPAR18</td>
<td>WHOPAR20</td>
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<tr>
<td>Does baby(n) live with CM</td>
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<td>WHERK12</td>
<td>WHERK13</td>
<td>WHERK14</td>
<td>WHERK15</td>
<td>WHERK16</td>
<td>WHERK17</td>
<td>WHERK18</td>
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<td>Was baby(n) early, late or on time</td>
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<td>How often does baby(n) see other parent</td>
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<td>Year baby(n) last lived with CM</td>
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<td>Does CM pay maintenance for baby(n)</td>
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<td>Another pregnancy before this one?</td>
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**Notes:**

1. NCDS/BCS70 1999-2000 Follow-ups: Guide to the Combined Dataset (June 2001) APPENDICES – A4
APPENDIX 2: Proxy Interview Variables

Where the cohort member was unable to understand or respond to questions put by the interviewer or to the self-completion, short proxy interviews were undertaken with a family member or carer. The variables which hold the data for the proxy interview are identifiable through their labels – all begin with the endorsement “(Proxy)”. These variables and associated labels are listed below.

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<tr>
<th>Variable</th>
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<td>(Proxy) Year CM moved into current address</td>
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<td>YEARM</td>
<td>(Proxy) Month CM moved into current address</td>
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<tr>
<td>TENURE</td>
<td>(Proxy) 'Does CM own or rent home’</td>
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<tr>
<td>MARSTAT</td>
<td>(Proxy) What is CM's legal marital status</td>
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<tr>
<td>PREGPROX</td>
<td>(Proxy) How many children does CM have</td>
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<td>PROXYTYP</td>
<td>(Proxy) Whether CM was employed or self employed</td>
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<td>PROXYECO</td>
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<td>(Proxy) How many employees were there</td>
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<td>FURTHED</td>
<td>(Proxy) Whether CM started FT education later</td>
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<td>(Proxy) CM height without shoes - units</td>
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<td>(Proxy) Interviewer: record name change on ARF</td>
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<td>(Proxy) Does CM usually live at this address</td>
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APPENDIX 3: NCDS/BCS70 Advisors contributing to quality assessment of NCDS/BCS70 data

A list of the advisors and their associates who contributed to the assessment of the quality of the data, and whose work is drawn on above is given in below. The contribution of individual advisors is acknowledged below. Wherever appropriate, the detailed documentation provided by advisors is included in Appendices 4-8.

<table>
<thead>
<tr>
<th>Advisor</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Ann Berrington</td>
<td>University of Southampton</td>
</tr>
<tr>
<td>Louise Blackwell</td>
<td>Centre For Longitudinal Studies, Institute of Education, University of London</td>
</tr>
<tr>
<td>Lorraine Dearden</td>
<td>Institute for Fiscal Studies</td>
</tr>
<tr>
<td>Alissa Goodman</td>
<td>Institute for Fiscal Studies</td>
</tr>
<tr>
<td>Barbara Jefferis</td>
<td>Institute of Child Health</td>
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<tr>
<td>Andrew Jenkins</td>
<td>Institute of Education, University of London</td>
</tr>
<tr>
<td>Gerald Makepeace</td>
<td>University of Cardiff</td>
</tr>
<tr>
<td>Scott Montgomery</td>
<td>Karolinska Sjukhuset, Stockholm, Sweden</td>
</tr>
<tr>
<td>Barbara Maughan</td>
<td>Institute of Psychiatry</td>
</tr>
<tr>
<td>Samantha Parsons</td>
<td>Centre For Longitudinal Studies, Institute of Education, University of London</td>
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<tr>
<td>Dr Gaëlle Pierre</td>
<td>Institute for Employment Research</td>
</tr>
<tr>
<td>John Preston</td>
<td>Centre For Longitudinal Studies, Institute of Education, University of London</td>
</tr>
<tr>
<td>Richard Rowe</td>
<td>Institute of Psychiatry</td>
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APPENDIX 4: Earnings and related variables

Documentation produced by Alissa Goodman and Lorraine Dearden of the Institute for Fiscal Studies relating to earnings and related variables is reproduced below. (NB: References to Appendix 1 and Appendix 2 in the original documentation have been changed below to Annex 1 and Annex 2 to avoid confusion with Appendices 1 and 2 above)

Queries about the contents of this appendix should be directed to the User Support Group (cohort@cls.ioe.ac.uk)

Derived Variables.

Section 1. Interview date
1. Corrected interview date
   Name: lintdate
   Description Corrected interview date
   Purpose To correct interview dates that were originally coded as outside the interviewing period. In the original data there were 23 individuals whose interview dates were not between 10/99 and 9/00.
   Source variables
   Intdate
   Code
   See intdat.do

Section 2. Deflators
2. RPI at interview date
   Name: rpi_int
   Description Retail price index (RPI) for month of interview, where Jan 2001 = 1.000.
   Purpose To allow wages, incomes etc. to be converted into other prices. To uprate wages to Jan 2001 prices, divide by this deflator.
   Source variables
   Intdate, Retail price index (RPI).
   Frequency distribution
   See Annex 1, Table 2.

Section 3. Employment variables
3. Total usual weekly hours
   Name: Hours
   Description Total usual weekly hours, including paid and unpaid overtime, not including meal breaks.
   Purpose To derive a measure of total hours usually worked, in order to convert gross and net pay information available into an hourly pay measure.
   Source variables
   Chours1 Chours2 Chours3 Chours4, Otimeany. This is calculated as: Chours1 + Chours2 + Chours3 + Chours4, where missing values of each of these four variables are set to zero. This ensures that these variables do not include missing values (ie so that no 999s are added in to the total). Notice that individuals have either responses at Chours1 (where Otimeany=2), or responses at Chours2,Chours3 or Chours4 (where Otimeany=1), but never both.
Note this variable is set to missing (.) for all those who a) are not employees b) have missing values in all of the above source variables.

**Code**
(Stata do-file format): see checkwage.do

**Frequency distribution**
See Annex, Table 3.

4. **Imputed/Corrected net last pay**
   **Name**: Inetpay
   **Description**: Imputed or corrected net last pay variable.
   **Purpose**: Clean last net pay variable, corrected for implausible values.
   **Source variables**: Cnetpay, Cgropay, cnetprd, cgroprd, cnetpred, cgorpred, hours.
   **Source code**: See checkwage.do
   **Frequency distribution**: See Annex 1, Table 4.
   **Further information about corrections made**: see Annex 2

5. **Imputed/Corrected net period**
   **Name**: Inetprd
   **Description**: Imputed or corrected net last pay PERIOD variable.
   **Purpose**: Clean last net pay PERIOD variable, corrected for implausible values and imputed from gross where net unavailable
   **Source variables**: Cnetpay, Cgropay, cnetprd, cgroprd, cnetpred, cgorpred, hours.
   **Frequency distribution**: See Annex 1, Table 5.
   **Further information about corrections made**: see Annex 2

6. **Imputed/Corrected gross pay**
   **Name**: Igropay
   **Description**: Imputed or corrected gross last pay variable.
   **Purpose**: Clean last gross pay variable, corrected for implausible values and imputed from gross where net unavailable
   **Source variables**: Cnetpay, Cgropay, cnetprd, cgroprd, cnetpred, cgorpred, hours,
   **Source code**: See checkwage.do
   **Frequency distribution**: See Annex 1, Table 6.
   **Further information about corrections made**: see Annex 2.

7. **Imputed/Corrected gross period**
   **Name**: Igroprd
   **Description**: Imputed or corrected gross last pay PERIOD variable.
   **Purpose**: Clean last gross pay PERIOD variable, corrected for implausible values and imputed from gross where net unavailable
   **Source variables**: Cnetpay, Cgropay, cnetprd, cgroprd, cnetpred, cgorpred, hours,
   **Further information about corrections made**: see Annex 2.
   **Frequency distribution**
See Annex 1, Table 7.

8. Hourly net last pay
Name: hr_net
Description: Hourly net last pay.
Purpose: Clean hourly equivalent last net pay. Where net pay variables are missing but gross pay variables are available, net pay has been imputed from gross using known parameters of the tax system in the relevant year.
Source Variables
InetPay, InetPrd, Inetpred, Igropay, Igorprd, Igropred, Hours, ms, age2-age10
Code
Stata do file format: see checkwage.do, impute.do
Frequency distribution
See Annex 1, Table 8.

9. Annual net last pay
Name: ann_net
Description: Clean annual equivalent net last pay. Where net pay variables are missing but gross pay variables are available, net pay has been imputed from gross using known parameters of the tax system in the relevant year.
Purpose: Clean annual equivalent last net pay, with missing values imputed wherever possible.
Source Variables
InetPay, InetPrd, Inetpred, Igropay, Igorprd, Igropred, Hours, ms, age2-age10
Code
Stata do file format: checkwage.do, impute.do
Frequency distribution
See Annex 1, Table 9.

10. Hourly gross last pay
Name: hr_gro
Description: Clean hourly equivalent last gross pay. Where gross pay variables are missing but net pay variables are available, gross pay has been imputed from net using known parameters of the tax system in the relevant year.
Purpose: Clean hourly equivalent gross last pay, with missing values imputed wherever possible.
Source Variables
Igropay, IgroPrd, Igropred, Inetpay, Inetprd, Inetpred Hours, ms, age2-age10
Code
Stata do file format: see checkwage.do, impute.do
Frequency distribution
See Annex 1, Table 10.

11. Annual gross last pay
Name: ann_gro
Description: Clean annual equivalent last gross pay. Where gross pay variables are missing but net pay variables are available, gross pay has been imputed from net using known parameters of the tax system in the relevant year.
Purpose: Clean annual equivalent gross last pay with missing values imputed wherever possible.
Source Variables
I_groPay, I_groPrd, I_gropred, Inetpay, Inetprd, Inetpred Hours, ms, age2-age10
Code
Stata do file format: checkwage.do, impute.do
Frequency distribution
See Annex 1, Table 11.

**Section 4. Partner’s earnings variables.**

12. Partner’s Imputed/Corrected last net pay
   **Name:** Ipnetpay
   **Description:** Partner’s last net pay variable, implausible values corrected.
   **Purpose**
   Clean partner’s last net pay.
   **Source Variables**
   Pnetpay, pnetprd, pnetpred
   **Code**
   Stata do file format: partner.do
   **Frequency distribution**
   See Annex 1, Table 12.

13. Partner’s Imputed/Corrected last net pay PERIOD
   **Name:** Ipnetprd
   **Description:** Partner’s last net pay PERIOD variable, implausible values corrected.
   **Purpose**
   Clean partner’s last net pay PERIOD.
   **Source Variables**
   Pnetpay, pnetprd, pnetpred
   **Code**
   Stata do file format: partner.do
   **Frequency distribution**
   See Annex 1, Table 13.

14. Partner’s Imputed/Corrected last net pay PERIOD
   **Name:** Ipnpred
   **Description:** Partner’s last net pay PERIOD variable, implausible values corrected.
   **Purpose**
   Clean partner’s last net pay PERIOD.
   **Source Variables**
   Pnetpay, pnetprd, pnetpred
   **Code**
   Stata do file format: partner.do
   **Frequency distribution**
   See Annex 1, Table 14.

15. Partner’s annual last net pay
   **Name:** ann_pnet
   **Description:** Annual equivalent of partner’s last net pay, implausible values corrected.
   **Purpose**
   Clean annual equivalent partner’s last net pay
   **Source Variables**
   Ipnetpay, Ipnetprd, Ipnetpred
   **Code**
   Stata do file format: partner.do
   **Frequency distribution**
   See Annex 1, Table 15.

16. Partner’s IMPUTED annual last gross pay
   **Name:** ann_pgro
   **Description:**
Annual equivalent of partner’s last gross pay, imputed from partner’s last net pay using the known parameters of the tax system in the relevant year.

**Purpose**
Clean annual equivalent partner’s last gross pay - imputed from net.

**Source Variables**
Ipnetpay, Ipnetprd, Ipnetpred, lintdate, ms

**Code**
Stata do file format: partner.do

**Frequency distribution**
See Annex 1, Table 16.

**Section 5. Intermediate variables – used during cleaning.**

17. **Type of fix to pay variable and period codes**

**Name:** fixtype

**Description**
Categorical variable containing the type of coding error (if any) which we have identified in the pay information of each employee, and the fix which has been implemented.

**Purpose**
To identify and record corrections to last net and gross pay variables.

**Code**
See checkwage.do

**Frequency distribution**
See Annex 1, Table 17.

**Further information**
See Annex 2.

18. **Indicator of odd proportion of gross to net pay**

**Name:** oddprop

**Description**
Indicator of whether ratio of gross to net pay suggests coding error in some of the pay variables which REMAINS UNCORRECTED.

**Purpose**
To identify odd wage information

**Code**
Oddprop = 1 if (Hr_net/hr_gro) <0.4 or >4
See checkwage.do.
See Annex 1, Table 18.

**Further information**, including description and frequency distributions: See Annex 2

19. **Indicator of wage variable probably too high or too low**

**Name:** oddwage

**Description**
Indicator of whether pay variables remain apparently implausibly high or low AFTER CORRECTIONS have been implemented.

**Purpose**
To identify odd wage information

**Code**
Oddwage =1 if (Hr_gro<2) or (Hr_gro>100)
See checkwage.do
See Annex 1, Table 19.

**Further information**, including description and frequency distributions: See Annex 2

20. **Missing hours variable**

**Name:** zhours.

**Description**
Indicator of Usual weekly hours variable (hours) missing.

**Purpose**

**Code**
See checkwage.do

**Frequency distribution**
See Annex 1, Table 20.
21. Missing hourly net pay indicator
Name: zhr_net.
Description
Indicator of if/why net hourly pay variable is missing.
Purpose
See checkwage.do
Code
Frequency distribution
See Annex 1, Table 21.

22. Missing hourly gross pay indicator
Name: zhr_gro.
Description
Indicator of if/why gross hourly pay variable is missing.
Purpose
See checkwage.do
Code
Frequency distribution
See Annex 1, Table 22.

23. Odd partner’s wage indicator
Name: podd.
Description
Indicator of apparently implausibly high or low partner’s net wage, remaining AFTER CORRECTIONS have been implemented.
Purpose
Code
Podd=1 if (assuming fixed number of hours for part-time and full-time work) implied hourly net pay of partner is <2 or >100.
See partner.do
Frequency distribution
See Annex 1, Table 23.
ANNEX 1 FREQUENCY DISTRIBUTIONS

The frequency distributions are available on request from the User Support Group
(cohort@cls.ioe.ac.uk)

Derived variables used for identifying coding errors in the pay information:

1) Fixtype. This is a derived categorical variable taking values 0-20. It contains the type of coding error (if any) which we have identified in the pay information of each employee, and the suggested fix.

2) Oddprop. This is a (0,1) dummy variable, which is set to 1 if AFTER ALL SUGGESTED CORRECTIONS, the ratio of net to gross hourly pay is still less than 0.4 or greater than 4.

3) Oddwage. This is a (0,1) dummy variable, which is set to 1 if AFTER ALL SUGGESTED CORRECTIONS, gross hourly pay is still less than £2 per hour or more than £100 per hour.

How coding errors have been identified

In order to identify possible coding errors, we have converted all gross and net pay given to its hourly equivalent (wherever possible - there are a few cases of missing hours variables). We have done this using CnetPay, CnetPrd, Cnetpred, CgroPay, CgroPrd, CgroPred, Chours1-Chours4 (and in a small number of cases where pay is given daily, we also use EconAct). [All our derived variables and code will be deposited in due course.]

Some of the coding errors have been spotted because the ratio of net hourly pay to gross hourly pay is clearly wrong. We have considered just those whose ratio of net to gross hourly pay is over 4, or below 0.4. By looking at the data for these observations it has in many cases been fairly obvious what the coding error has been and how it should be corrected. Those with these coding errors (and their suggested solutions) are contained in fixtype 1-12. Those whose ratio of gross to net is wrong, but no obvious fix can be seen are coded as Fixtype=19.

Other coding errors have been identified because both gross and net hourly pay are either implausibly high or implausibly low. We have considered those whose implied gross hourly pay is over £100 per hour, or less than £2 per hour. All the coding errors for those whose implied hourly pay is too high or too low are contained in Fixtype 13-18. Where it is not clear that a coding error has occurred, or the fix required is not obvious, fixtype is set to 20.

Note that these are not necessarily the only coding errors contained in the data. Those considered are those where the ratio of net to gross hourly pay is >4 or <0.4, and those whose implied gross hourly pay is less than £2 or more than £100 per hour. These are arbitrary cut-offs, and a wider net could be considered if needs be.

Notice also that a judgement has to be made in the absence of any further information, for those coded in Fixtype 8, 14 and Fixtype 17 (and possibly others) where a number of different corrections could be made to the data to make it more plausible, and we have just chosen one possible solution. In particular in these cases it is not clear whether the problem is too many (or too few) zeros in the pay amount variables, or whether the period codes are wrong. We have suggested that it is the period codes are wrong, but CLS may take a different view.

For those who are coded in Fixtype= 19 or Fixtype=20, or for whom Oddprop=1 or Oddwage=1 despite the suggested fixes already put in place, we will have to make some decisions on an individual case-by-case basis whether to leave the information as it is, correct it in some way, or discard it.

The coding frame for Fixtype

The table below sets out the coding frame for the fixtype variable: it describes what the miscoding appears to be, and what the suggested correction is. The corrections are simply suggestions; in many cases other possible also corrections exist: see below.
**Coding frame for variable fixtype**

<table>
<thead>
<tr>
<th>FIXTYPE</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No fixes made.</td>
</tr>
<tr>
<td>1</td>
<td>Gross pay given annually needs to be multiplied by 10.</td>
</tr>
<tr>
<td>2</td>
<td>Net pay given monthly needs to be divided by 100.</td>
</tr>
<tr>
<td>3</td>
<td>Net pay given monthly needs to be divided by 10.</td>
</tr>
<tr>
<td>4</td>
<td>Net pay given monthly or four weekly needs to be multiplied by 100.</td>
</tr>
<tr>
<td>5</td>
<td>Net pay given monthly or four weekly needs to be multiplied by 10.</td>
</tr>
<tr>
<td>6</td>
<td>Net monthly pay is coded as yearly: CnetPrd needs to be changed to 4.</td>
</tr>
<tr>
<td>7</td>
<td>Gross yearly pay is coded as monthly or 4-weekly: CGroPrd needs to be changed to 5.</td>
</tr>
<tr>
<td>8*</td>
<td>Gross yearly pay coded as weekly: period code needs to be changed to 5.</td>
</tr>
<tr>
<td>9</td>
<td>Gross pay given yearly needs to be divided by 10.</td>
</tr>
<tr>
<td>10</td>
<td>Gross monthly pay is coded as weekly: CGroPrd needs to be changed to changed to 4.</td>
</tr>
<tr>
<td>11</td>
<td>Individual fixes: see code provided below.</td>
</tr>
<tr>
<td>12</td>
<td>Gross pay set to missing.</td>
</tr>
<tr>
<td>13</td>
<td>Net and Gross pay need to be divided by 100.</td>
</tr>
<tr>
<td>14*</td>
<td>Net and Gross monthly pay is coded as yearly: CnetPrd and CGroPrd need to be changed to 4.</td>
</tr>
<tr>
<td>15</td>
<td>Net and Gross weekly pay is coded as yearly: CnetPrd and CGroPrd need to be changed to 4.</td>
</tr>
<tr>
<td>16</td>
<td>Total hours variable (derived by IFS) is too low and incompatible with self-reported economic status. Set hours to missing.</td>
</tr>
<tr>
<td>17*</td>
<td>Net and Gross yearly pay is coded as monthly: CnetPrd and CGroPrd need to be changed to 5.</td>
</tr>
<tr>
<td>18</td>
<td>Net and Gross pay have both been coded as 1: set to missing.</td>
</tr>
<tr>
<td>19</td>
<td>No fix yet: proportion of net to gross pay is odd, but fix needed is not clear.</td>
</tr>
<tr>
<td>20</td>
<td>No fix yet: Hourly pay appears very high or low, but fix needed is not clear.</td>
</tr>
</tbody>
</table>

*Sometimes there are a number of possible fixes which would make the pay data look more sensible, and it is not entirely clear what the right one is. In particular:
  * **Fixtype 8**: it has been assumed that the mistake made is that gross annual pay has been coded as weekly. In many cases it is also plausible that it could be gross weekly pay which needs to be divided by 100.
  * **Fixtype 14**: it has been assumed that the mistake made is that monthly pay has been coded as annual. In fact it could also be the case that it is in fact annual pay which needs to be multiplied by 10 (re-coding to monthly effectively multiplies by 12).
  * **Fixtype 17**: it has been assumed that the mistake made is that annual pay has been coded as monthly. Equally plausible is that monthly pay has been provided which needs to be divided by 10 (re-coding the period code to annual effectively multiplies it by 12).

*Details of individual fixes already made.*
Those coded fixtype=11 require individual fixes, set out below.

**Individual fixes**

<table>
<thead>
<tr>
<th>Serial</th>
<th>Changes to Cgroprd</th>
<th>Changes to CnetPrd</th>
</tr>
</thead>
<tbody>
<tr>
<td>112006</td>
<td>Cgroprd recoded to 1</td>
<td></td>
</tr>
<tr>
<td>101716</td>
<td>Cgroprd recoded to 4</td>
<td></td>
</tr>
<tr>
<td>213363</td>
<td>Cgroprd recoded to 4</td>
<td></td>
</tr>
<tr>
<td>215256</td>
<td>Cgroprd recoded to 6 Cgroprd recoded to 15</td>
<td></td>
</tr>
<tr>
<td>226017</td>
<td>CnetPrd recoded to 4</td>
<td></td>
</tr>
<tr>
<td>229217</td>
<td>CnetPrd recoded to 4</td>
<td></td>
</tr>
<tr>
<td>200306</td>
<td>CnetPrd recoded to 1 (although net becomes a bit too high compared to gross)</td>
<td></td>
</tr>
<tr>
<td>117261</td>
<td>CnetPrd recoded to 1 (although net becomes a bit too high compared to gross)</td>
<td></td>
</tr>
<tr>
<td>2198999</td>
<td>CnetPrd recoded to 1 (although net becomes a bit too high compared to gross)</td>
<td></td>
</tr>
</tbody>
</table>
### Changes to cnetpay
- Cnetpay should be equal to £100
- Cnetpay should be divided by 10
- Cnetpay should be multiplied by 10

### Changes to cgropay
- Cgropay should be multiplied by 1000
- Cgropay should be divided by 10

#### Frequency distribution for fixtype

<table>
<thead>
<tr>
<th>type of fix to net</th>
<th>Freq.</th>
<th>Percent</th>
<th>Cum.</th>
</tr>
</thead>
<tbody>
<tr>
<td>no fix</td>
<td>15443</td>
<td>95.20</td>
<td>95.20</td>
</tr>
<tr>
<td>gro*10</td>
<td>134</td>
<td>0.83</td>
<td>96.03</td>
</tr>
<tr>
<td>net/100</td>
<td>4</td>
<td>0.02</td>
<td>96.05</td>
</tr>
<tr>
<td>net/10</td>
<td>17</td>
<td>0.10</td>
<td>96.16</td>
</tr>
<tr>
<td>net*100</td>
<td>3</td>
<td>0.02</td>
<td>96.18</td>
</tr>
<tr>
<td>net*10</td>
<td>9</td>
<td>0.06</td>
<td>96.23</td>
</tr>
<tr>
<td>net year to month</td>
<td>167</td>
<td>1.03</td>
<td>97.26</td>
</tr>
<tr>
<td>gro month to year</td>
<td>97</td>
<td>0.60</td>
<td>97.86</td>
</tr>
<tr>
<td>gro week to year</td>
<td>10</td>
<td>0.06</td>
<td>97.92</td>
</tr>
<tr>
<td>gro/10</td>
<td>15</td>
<td>0.09</td>
<td>98.01</td>
</tr>
<tr>
<td>gro week to month</td>
<td>15</td>
<td>0.09</td>
<td>98.11</td>
</tr>
<tr>
<td>individual fix</td>
<td>22</td>
<td>0.14</td>
<td>98.24</td>
</tr>
<tr>
<td>gro to missing</td>
<td>3</td>
<td>0.02</td>
<td>98.26</td>
</tr>
<tr>
<td>both/100</td>
<td>14</td>
<td>0.09</td>
<td>98.35</td>
</tr>
<tr>
<td>both year to month</td>
<td>135</td>
<td>0.83</td>
<td>99.18</td>
</tr>
<tr>
<td>both year to week</td>
<td>9</td>
<td>0.06</td>
<td>99.24</td>
</tr>
<tr>
<td>hours to missing</td>
<td>14</td>
<td>0.09</td>
<td>99.32</td>
</tr>
<tr>
<td>both month to year</td>
<td>11</td>
<td>0.07</td>
<td>99.39</td>
</tr>
<tr>
<td>no fix- prop still odd</td>
<td>11</td>
<td>0.07</td>
<td>99.46</td>
</tr>
<tr>
<td>no fix- wages still od</td>
<td>88</td>
<td>0.54</td>
<td>100.00</td>
</tr>
<tr>
<td>Total</td>
<td>16221</td>
<td>100.00</td>
<td></td>
</tr>
</tbody>
</table>

### Further serial numbers under question: oddprop and oddwage

After these “corrections” set out above have been carried out, there are still a number of individuals whose wages or ratio of net to gross pay are still odd. We will have to consider these on a case-by-case basis and decide whether to leave the information as it is, correct it in some way, or discard the information all together.

The frequency distributions for oddprop and oddwage are as follows.

**ODDPROP** (ratio net: gross hourly pay <0.4 or >4)

<table>
<thead>
<tr>
<th>odd ratio</th>
<th>of net to</th>
<th>hourly pay</th>
<th>Freq.</th>
<th>Percent</th>
<th>Cum.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>16464</td>
<td>99.91</td>
<td>99.91</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>15</td>
<td>0.09</td>
<td>100.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>16479</td>
<td>100.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ODDWAGE** (gross hourly wage>£100 or < £2)
Strangely high or low gross hourly wage

<table>
<thead>
<tr>
<th></th>
<th>Freq.</th>
<th>Percent</th>
<th>Cum.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>16379</td>
<td>99.39</td>
<td>99.39</td>
</tr>
<tr>
<td>1</td>
<td>100</td>
<td>0.61</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Total | 16479 | 100.00 |

Source code

For reference, the exact stata code which has been used to derive the fixtype variable is also attached as a stata do-file, checkwage.do.
STATA CODE:

- CHECKWAGE.DO
- IMPUTE.DO
- PARTNER.DO

CHECKWAGE.DO

/* WAGES DATA */
#delimit;
set more 1;
/* cd "j:\2000cohorts\derived data";
/* TO MAKE SURE THIS DATASET IS CREATED, RUN GETDATA.DO */
u wagedata, clear; */

/* SET ORIGINAL VARIABLES cnetpay, cnetprd, cgropay, cgroprd IN STONE IN
onetpay, ogropay etc.
corrections and imputations are then added to cnetpay... */
cap drop onetpay;
gen onetpay = cnetpay;
lab var onetpay "original net pay variable";
cap drop ogropay;
gen ogropay = cgropay;
lab var ogropay "original gross pay variable";
cap drop onetprd;
gen onetprd = cnetprd;
lab var onetprd "original net period variable";
cap drop ogroprd;
gen ogroprd = cgroprd;
lab var ogroprd "original gross period variable";

/**** EMPLOYMENT STATUS : will be useful later ***********/
cap drop employee;
gen employee = 1 if econact <= 2;
replace employee = 0 if employee ~= 1;
lab var employee "in paid employment";

/******************** INITIAL MISSING GROSS AND NET PAY VARIABLES
**********************/
/* NOTE these will change later, as some nonsense values get set to missing
but we need to use them in the interim */
/* missing cnetpay */
cap drop znetpay;
gen znetpay = 1 if cnetpay == 9999998 | cnetpay == 9999999;
replace znetpay = 0 if znetpay ~= 1;
replace znetpay = . if cnetpay == .;
lab var znetpay "missing cnetpay";
/* missing cgropay */
cap drop zgropay;
gen zgropay = 1 if cgropay==9999998|cgropay==9999999;
replace zgropay = 0 if zgropay==1;
replace zgropay = . if cgropay==.;
lab var zgropay "missing cgropay";

/***************************** HOURS
*******************************************************************************/
/* have to set up USUAL WEEKLY HOURS before period codes, to be able to convert pay into hourly */
cap pr drop dohours;
pr def dohours;
cap drop hours;
cap drop zhours;
cap drop hrs1;
cap drop hrs2;
cap drop hrs3;
cap drop hrs4;
cap drop paidhrs;
gen hrs1= chours1 if chours1<99;
gen hrs2= chours2 if chours2<998;
gen hrs3= chours3 if chours3<998;
gen hrs4= chours4 if chours4<998;
replace hrs1 = 0 if hrs1==.;
replace hrs2 = 0 if hrs2==.;
replace hrs3 = 0 if hrs3==.;
replace hrs4 = 0 if hrs4==.;
gen hours = hrs1 + hrs2 + hrs3 + hrs4 if zhours==0 & employee==1;
gen paidhrs = hrs1 + hrs2 + hrs3 if zhours==0 & employee==1;
replace    zhours        = 1                                  if hours ==0 & employee==1;
replace    hours         = .                                  if zhours ==1 & employee==1;

lab var hours "total usual weekly hours";
lab var paidhrs "total paid hours";

gr hours, bin(50) xlab(10,20,30,40,50,60,70,80,90,100,120,140,170) ylab(0,0.05,0.1,0.15,0.2) t1("distribution of hours");

cap log close;
log using hours, replace;
    tab hours;
    tab zhours;
log close;
end;
dohours;

/******************************************* PAY PERIOD CODES*******************************************/

/* the coding frame for CNETPROD and CGROPRD is:
1 one week
2 a fortnight
3 four weeks
4 a calendar month
5 a year
6 other period

the coding frame for CNETPRED and CGROPRED is:
1 one week
2 a fortnight/2 weeks
3 four weeks
4 a calendar month
5 a year (12 months/52 weeks)
6 three weeks
7 five weeks
8 six weeks
9 seven weeks
10 eight weeks
11 two calendar months
12 eight times a year
13 nine times a year
14 ten times a year
15 three months/13 weeks
16 six months/26 weeks
17 hourly
18 daily
19 one off lump sum
20 some other period
21 varies
22 refused
23 some other comment
24 irrelevant/unspecific response */
NET PAY VARIABLES

/* First make sure not to start manipulating cnetpay and cgropay missing values 9999997 and 9999998 ! */

replace cnetpay =. if znetpay==1;
replace cgropay =. if zgropay==1;

/* need to guess how many days per week someone works to convert any daily pay into weekly not too important as it only affects 7 individuals, with a max of 50 hours per week */
/* use paid hours, as we want to sum daily pay over the number of days they get paid for to get total weekly pay */

cap drop days;
gen days = paidhrs/8;
replace days = 7 if days>=7;
lab var days "days per week (estimated)";

/* this program converts net pay into different periods depending on the period code */
cap pr drop donet;
pr def donet;
cap drop ann_net;
cap drop wk_net;
cap drop hr_net;
cap drop mo_net;
cap drop znetprd;

gen wk_net       =         (cnetpay)                if cnetprd==1 
& znetpay==0;
replace wk_net    =         (cnetpay / 2)               if cnetprd==2 
& znetpay==0;
replace wk_net    =         (cnetpay / 4)               if cnetprd==3 
& znetpay==0;
replace wk_net    =         (cnetpay / (13/3))         if cnetprd==4 
& znetpay==0;
replace wk_net    =         (cnetpay / 52)              if cnetprd==5 
& znetpay==0;
replace wk_net    =         9999997                           if cnetprd==. 
& employee==1                & znetpay==0;
replace wk_net    =         (cnetpay)                   if cnetprd==6 &
cnetpred==1         & znetpay==0;
replace wk_net    =         (cnetpay / 2)               if cnetprd==6 &
cnetpred==2         & znetpay==0;
replace wk_net    =         (cnetpay / 3)               if cnetprd==6 &
cnetpred==3         & znetpay==0;
replace wk_net    =         (cnetpay / (13/3))          if cnetprd==6 &
cnetpred==4         & znetpay==0;
replace wk_net = (cnetpay / 52) if cnetprd==6 &
cnetpred==5 & znetpay==0;
replace wk_net = (cnetpay / 3) if cnetprd==6 &
cnetpred==6 & znetpay==0;
replace wk_net = (cnetpay / 5) if cnetprd==6 &
cnetpred==7 & znetpay==0;
replace wk_net = (cnetpay / 6) if cnetprd==6 &
cnetpred==8 & znetpay==0;
replace wk_net = (cnetpay / 7) if cnetprd==6 &
cnetpred==9 & znetpay==0;
replace wk_net = (cnetpay / 8) if cnetprd==6 &
cnetpred==10 & znetpay==0;
replace wk_net = (cnetpay / (26/3)) if cnetprd==6 &
cnetpred==11 & znetpay==0;
replace wk_net = (cnetpay / (52/8)) if cnetprd==6 &
cnetpred==12 & znetpay==0;
replace wk_net = (cnetpay / (52/9)) if cnetprd==6 &
cnetpred==13 & znetpay==0;
replace wk_net = (cnetpay / (52/10)) if cnetprd==6 &
cnetpred==14 & znetpay==0;
replace wk_net = (cnetpay / 13) if cnetprd==6 &
cnetpred==15 & znetpay==0;
replace wk_net = (cnetpay / 26) if cnetprd==6 &
cnetpred==16 & znetpay==0;
replace wk_net = (cnetpay * paidhrs) if cnetprd==6 &
cnetpred==17 & zhours==0 & znetpay==0;
replace wk_net = (cnetpay * days) if cnetprd==6 &
cnetpred==18 & zhours==0 & znetpay==0;
replace wk_net = 9999997 if cnetprd==6 &
cnetpred==19 & znetprd==1 & zhours==0;
replace wk_net = 9999997 if cnetprd==6 &
cnetpred>=20 & znetpay==0;
replace wk_net = 9999997 if cnetprd==6 &
employee==1;
replace wk_net . if employee==0;

lab var wk_net "weekly net pay";

/* missing net period */
gen znetprd = 1 if wk_net==9999997;
replace znetprd = 0 if employee==1 & znetprd~=1;
replace znetprd = . if employee==0;
lab var znetprd "missing net period code";
replace wk_net = . if znetprd==1;

/* annual net pay */
gen ann_net = (wk_net*52) if znetprd==0;
replace ann_net=. if znetprd==1;
lab var ann_net "annual net pay";

/* hourly net pay */
gen hr_net = (wk_net/ hours) if zhours==0 &
znetprd==0;
/* can get hourly pay even if hours missing if cnetpay is given hourly */
replace hr_net = cnetpay if cnetprd==6 & cnetpred==17 & zhours==1;
lab var hr_net "hourly net pay";

/* monthly net pay */
gen mo_net = (wk_net * (13/3)) if znetprd==0;
lab var mo_net "monthly net pay";
end;
donet;

/******************************************** GROSS PAY VARIABLES
********************************************/

/* this program converts gross pay into different periods depending on the
period code */
cap pr drop dogross;
pr def dogross;
cap drop ann_gro;
cap drop wk_gro;
cap drop hr_gro;
cap drop mo_gro;
cap drop zgroprd;
gen wk_gro = (cgropay) if cgroprd==1 & zgropay==0;
replace wk_gro = (cgropay / 2) if cgroprd==2 & zgropay==0;
replace wk_gro = (cgropay / 4) if cgroprd==3 & zgropay==0;
replace wk_gro = (cgropay / (13/3)) if cgroprd==4 & zgropay==0;
replace wk_gro = (cgropay / 52) if cgroprd==5 & zgropay==0;
replace wk_gro = 9999997 if cgroprd==. &
employee==1 & zgropay==0;
replace wk_gro = (cgropay) if cgroprd==6 &
cgropred==1 & zgropay==0;
replace wk_gro = (cgropay / 2) if cgroprd==6 &
cgropred==2 & zgropay==0;
replace wk_gro = (cgropay / 3) if cgroprd==6 &
cgropred==3 & zgropay==0;
replace wk_gro = (cgropay / (13/3)) if cgroprd==6 &
cgropred==4 & zgropay==0;
replace wk_gro = (cgropay / 52) if cgroprd==6 &
cgropred==5 & zgropay==0;
replace wk_gro = (cgropay / 3) if cgroprd==6 &
cgropred==6 & zgropay==0;
replace wk_gro = (cgropay / 5) if cgroprd==6 &
cgropred==7 & zgropay==0;
replace wk_gro = (cgropay / 6) if cgroprd==6 &
cgropred==8 & zgropay==0;
replace wk_gro = (cgropay / 7) if cgroprd==6 &
cgropred==9 & zgropay==0;
replace wk_gro = (cgropay / 8) if cgroprd==6 &
cgropred==10 & zgropay==0;
replace wk_gro = (cgropay / (26/3)) if cgroprd==6 &
cgropred==11 & zgropay==0;
replace wk_gro = (cgropay / (52/8)) if cgroprd==6 &
cgropred==12 & zgropay==0;
replace wk_gro = (cgropay / (52/9)) if cgroprd==6 &
cgropred==13 & zgropay==0;
replace wk_gro = (cgropay / (52/10)) if cgroprd==6 &
cgropred==14 & zgropay==0;
replace wk_gro = (cgropay / 13) if cgroprd==6 &
cgropred==15 & zgropay==0;
replace wk_gro = (cgropay / 26) if cgroprd==6 &
cgropred==16 & zgropay==0;
replace wk_gro = (cgropay * paidhrs) if cgroprd==6 &
cgropred==17 & zhours==0 & zgropay==0;
replace wk_gro = (cgropay * days) if cgroprd==6 &
cgropred==18 & zhours==0 & zgropay==0;
replace wk_gro = 9999997 if cgroprd==6 &
cgropred==19 & cgropred~=. & zgropay==0;
replace wk_gro = 9999997 if cgroprd==9; /* one odd case here */
replace wk_gro = 9999997 if cgroprd==. &
employee==1;
replace wk_gro = . if employee==0;
lab var wk_gro "weekly gross pay";
gen zgroprd = 1 if (wk_gro==9999997);
replace zgroprd = 0 if (employee<=2 & zgroprd~=1);
replace zgroprd = . if employee==0;
lab var zgroprd "missing gross period code";
replace wk_gro = . if zgroprd==1;

gen ann_gro = (wk_gro*52);
lab var ann_gro "annual gross pay";
gen hr_gro = (wk_gro/ hours) if zhours==0;
/* can get hourly pay even if hours missing if cgropay is given hourly */
replace hr_gro = cgropay if cgroprd==6 & cgroprd==17 &
zhours==1;
lab var hr_gro "hourly gross pay";
gen mo_gro = (wk_gro * (13/3));
lab var mo_gro "monthly gross pay";

end;
dogross;

/**************************************************************
FIXES TO PAY INFORMATION
***************************************************************/

/* Some are fixed because the ratio of net pay to gross pay is clearly
wrong, and looking at the data
it is obvious what the coding error has been.
Others are fixed because both gross and net pay are both clearly miscoded.
Also some hours are miscoded */
cap drop fixtype;
gen fixtype=0 if employee==1;
lab var fixtype "type of fix to net and/ or gross pay";
lab def fixtype
0 "no fix"
1 "gro*10"
2 "net/100"
3 "net/10"
4 "net*100"
5 "net*10"
6 "net year to month"
7 "gro month to year"
8 "gro week to year"
9 "gro/10"
10 "gro week to month"
11 "individual fix"
12 "gro to missing"
13 "both/100"
14 "both year to month"
15 "both year to week"
16 "hours to missing"
17 "both month to year"
18 "both to missing"
19 "no fix- prop still odd"
20 "no fix- wages still odd", modify;
lab val fixtype fixtype;

************** CHECK NET AGAINST GROSS FOR ODD AMOUNTS OR PERIOD CODES **************
cap pr drop doprop;
pr def doprop;
cap drop hr_prop;
gen hr_prop = hr_net/hr_gro;
lab var hr_prop "ratio of net to gross hourly pay";
cap drop oddprop;
gen oddprop =1 if (hr_prop<0.4|hr_prop>4) & hr_prop~=.;
lab var oddprop "odd ratio of net to gross hourly pay";
cap log close;
end;
doprop;
log using oddprop, replace;
di "no fixes yet";
tab oddprop;
log off;

****************************
* FIX 1  *
******************************
/* lots of gross pay given annually needs to be multiplied by 10! */
replace fixtype=1 if (cgroprd==5|cgropred==5) & hr_prop>=5 & hr_prop=. & cgropay<=6000;
replace cgropay= cgropay*10 if fixtype==1;
donet;
dogross;
doprop;
log using oddprop, append;
di "after fix 1:");
    tab oddprop;
log off;
/********************
*    FIX 2         *
********************/
/* there are a couple of monthly net pay which need to be divided by 100 */
replace fixtype=2 if (cnetprd==4|cnetpred==4) & hr_prop>=50 & hr_prop=. & cnetpay>80000;
replace cnetpay = cnetpay/100 if fixtype==2;
donet;
dogross;
doprop;
log using oddprop, append;
di "after fix 2:");
    tab oddprop;
log off;
/********************
*    FIX 3         *
********************/
/* there are some monthly net pay which need to be divided by 10 */
replace fixtype=3 if  (cnetprd==4|cnetpred==4) & hr_prop>=5 & hr_prop=. & cnetpay>=5000;
replace cnetpay= cnetpay/10 if  fixtype==3;
donet;
dogross;
doprop;
log using oddprop, append;
di "after fix 3:");
    tab oddprop;
log off;
/********************
*    FIX 4         *
********************/
/* there are some net monthly and four weekly pay that need to be multiplied by 100 */
replace fixtype=4 if (cnetprd==4|cnetprd==3|cnetpred==4|cnetpred==3) & hr_prop<0.2 & cnetpay<50;
replace cnetpay = cnetpay *100 if fixtype==4;
donet;
dogross;
```stata
doprop;
log using oddprop, append;
di "after fix 4:";
tab oddprop;
log off;

/***********************
*     FIX 5         *
***********************
/* there are some net monthly and four weekly pay that need multiplying by 10 */
replace fixtype=5 if (cnetprd==4|cnetprd==3|cnetpred==4|cnetpred==3) & hr_prop<0.2 & cnetpay<500;
replace cnetpay = cnetpay *10 if fixtype==5;
donet;
dogross;
doprop;
log using oddprop, append;
di "after fix 5:";
tab oddprop;
log off;

/***********************
*     FIX 6         *
***********************
/* lots of net monthly pay coded as yearly: period code needs to be changed */
replace fixtype=6 if (cnetprd==5|cnetpred==5) & cnetpay<=6000 & hr_prop<=0.1;
replace cnetprd = 4 if fixtype==6;
donet;
dogross;
doprop;
log using oddprop, append;
di "after fix 6:";
tab oddprop;
log off;

/***********************
*     FIX 7         *
***********************
/* there are some gross yearly pay coded as monthly and four weekly: period code needs to be changed */
replace fixtype = 7 if (cgroprd==3| cgroprd==4| cgropred==3| cgropred==4) & cgropay>=10000 & hr_prop<0.2;
replace cgroprd = 5 if fixtype==7;
donet;
dogross;
doprop;
log using oddprop, append;
di "after fix 7:";
tab oddprop;
```
log off;

/******************************
 *    FIX 8       *
 ******************************

/* there are some gross yearly pay coded as weekly: period code needs to be changed */
replace fixtype = 8          if (cgroprd==1|cgropred==1) & cgropay>=6000 & hr_prop<0.2;
replace cgroprd = 5          if fixtype==8;
donet;
dogross;
doprop;
log using oddprop, append;
di "after fix 8:";
    tab oddprop;
log off;

/******************************
 *    FIX 9       *
 ******************************

/* there are some gross yearly pay which need to be divided by 10 */
replace fixtype= 9          if (cgroprd=5|cgropred=5) & cgropay>=100000 & hr_prop<0.2;
replace cgropay= cgropay/10 if fixtype==9;
donet;
dogross;
doprop;
log using oddprop, append;
di "after fix 9:";
    tab oddprop;
log off;

/******************************
 *    FIX 10      *
 ******************************

/* there are some gross monthly pay coded as weekly: period code needs to be changed */
replace fixtype= 10 if (cgroprd==1 | cgropred==1) & cgropay>=350 & hr_prop<0.2;
replace cgroprd= 4 if fixtype==10;
donet;
dogross;
doprop;
log using oddprop, append;
di "after fix 10:";
    tab oddprop;
log off;

/******************************
 *    FIX 11      *
 ******************************

/* INDIVIDUAL FIXES - these come from eyeballing individual cases */
/* fixes to cgroprd */
replace cgroprd=1 if serial== 112006;
replace cgroprd=4 if serial== 101716;
replace cgroprd=4 if serial== 213363;
replace cgroprd=6 if serial== 215256; /* net pay is 3 monthly
and this looks more plausible */
replace cgroprd=15 if serial== 215256;

/* fixes to cnetprd */
replace cnetprd=4 if serial== 226017;
replace cnetprd=4 if serial== 229217;
replace cnetprd=1 if serial== 200306; /* from monthly to weekly, although makes net a bit high compared to gross */
replace cnetprd=1 if serial== 117261; /* from monthly to weekly, although makes net a bit high compared to gross */
replace cnetprd=1 if serial== 219899; /* from monthly to weekly, although makes net a bit high compared to gross */
replace cnetprd=1 if serial== 208399; /* from monthly to weekly, although makes net a bit high compared to gross */
replace cnetprd=1 if serial== 104694; /* from monthly to weekly, although makes net a bit high compared to gross */
replace cnetprd=1 if serial== 105206; /* from monthly to weekly, although makes net a bit high compared to gross */
replace cnetprd=2 if serial== 109860; /* gross pay is given fortnightly, and this looks more plausible */

/* fixes to cnetpay: make sure changes only get made to original miscoded value: ie. don't keep dividing
or multiplying after the problem is already fixed */
replace cnetpay= onetpay/10 if serial== 124299;
replace cnetpay= onetpay*10 if serial== 213092;
replace cnetpay= onetpay*10 if serial== 229425;
replace cnetpay=100 if serial== 119813; /* this one gets changed around by my different fixes, but eyeballing shows that it should be £100 */
replace cnetpay= onetpay*10 if serial== 111346;
/* fixes to cgropay */
replace cgropay= ogropay*1000 if serial== 121730;
replace cgropay= ogropay/10 if serial== 210049;
replace cgropay= ogropay/10 if serial== 219518;

donet;
dogross;
doprop;
log using oddprop, append;
   di "after individual fixes ";
   tab oddprop;
log off;

/* update fixtype variable */
replace fixtype = 11 if serial== 112006;
replace fixtype = 11 if serial== 101716;
replace fixtype = 11 if serial== 213363;
replace fixtype = 11 if serial== 215256;
replace fixtype = 11 if serial== 226017;
replace fixtype = 11 if serial== 229217;
replace fixtype = 11 if serial== 200306;
replace fixtype = 11 if serial== 117261;
replace fixtype = 11 if serial== 219899;
replace fixtype = 11 if serial== 208399;
replace fixtype = 11 if serial== 104694;
replace fixtype = 11 if serial== 105206;
replace fixtype = 11 if serial== 109860;

replace fixtype = 11 if serial== 124299;
replace fixtype = 11 if serial== 213092;
replace fixtype = 11 if serial== 229425;
replace fixtype = 11 if serial== 119813;
replace fixtype = 11 if serial== 121730;
replace fixtype = 11 if serial== 210049;
replace fixtype = 11 if serial== 219518;
replace fixtype = 11 if serial== 111346;

/********************
*    FIX 12         *
********************/
/* SET SOME GROSS TO MISSING
   if net looks sensible, but gross looks rubbish, set gross to missing and then impute from net later */
replace cgropay=. if serial== 219802;
replace cgropay=. if serial== 209108;
replace cgropay=. if serial== 100831;

/* update fixtype variable */
replace fixtype=12 if serial== 219802;
replace fixtype=12 if serial== 209108;
replace fixtype=12 if serial== 100831;

/* update zgropay variable */
replace zgropay=1 if serial== 219802;
replace zgropay=1 if serial== 209108;
replace zgropay=1 if serial== 100831;

donet;
dogross;
doprop;
log using oddprop, append;
   di "after some set to missing ";
   tab oddprop;
log off;

/******************** ODD LOOKING WAGES
   --- WHERE GROSS AND NET ARE IN LINE BUT BOTH ARE WRONGLY CODED IN SOME WAY *******************/

so hr_gro;
cap log close;
log using oddwage, replace;

cap pr drop oddwage;
pr def oddwage;
cap drop oddwage;
gen oddwage = 1 if (hr_gro>100 & hr_gro=. | hr_gro<2);
replace oddwage = 0 if oddwage = 1;
replace oddwage = . if employee = 0;
lab var oddwage "Strangely high or low gross hrly wage ";
end;
oddwage;

/* record numbers that look too high or too low */
cap log close
log using oddwage, append;
di "NO FIXES YET ";
tag oddwage;
cap log close;

***********************
*    FIX 13            *
***********************
/*there are a number where the ratio of net to gross is fine, but both need to be divided by 100 */

    /* Note these are guesses, but it would appear that full amounts including pence have been provided, but coded without the decimal point. In practice this applies to all gross hourly wages over £360 per hour ... */
replace fixtype =13 if hr_gro> 360 & hr_gro=. ;
replace cnetpay=onetpay/100 if fixtype =13;
replace cgropay=ogropay/100 if fixtype =13;
donet;
dogross;
oddwage;
cap log close;
log using oddwage, append;
di "after FIX 13 ";
tag oddwage;
log off;

***********************
*    FIX 14             *
***********************
/* there are MANY where the ratio of net to gross is fine, but monthly pay has been recorded as annual.

NOTE: A PLAUSIBLE ALTERNATIVE IS that both have lost a zero, and need to be multiplied by 10 (rather than 12 which is what we are implicitly doing here)

    Change it to monthly for now - can reconsider
Note: only change those whose implied hourly pay is less than £2 per hour, although there are many more who also look suspect. Also only change to monthly those whose implied hourly pay is more than 36.7p per hour. This is because from looking at them, the ones below this should be coded at WEEKLY instead. */

/* quick data description of who these people are */
cap log close;
log using oddwage, append;
su hr_net hr_gro if cnetprd==5 & cgroprd==5 & cnetpay<2500 & cgropay<3000 & econact==1;
su hr_net hr_gro if cnetprd==5 & cgroprd==5 & cnetpay<2500 & cgropay<3000 & econact==2;
cap log close;

replace fixtype = 14 if cnetprd==5 & cgroprd==5 & cnetpay<2500 & cgropay<3000 & hr_gro>0.367 & hr_gro<2;
replace cnetprd=4 if fixtype ==14;
replace cgroprd=4 if fixtype ==14;
donet;
dogross;
oddwage;
cap log close;
log using oddwage, append;
di "after FIX 14 ";
tab oddwage;
log off;

/**********************/
* FIX 15 *
/**********************/
/* there are SOME where weekly pay has been recorded as annual. From looking at them, those whose implied hourly pay is less than 36.7p per hour ought to be coded as weekly */

replace fixtype = 15 if cnetprd==5 & cgroprd==5 & cnetpay<700 & cgropay<700 & hr_gro<0.367;
replace cnetprd=1 if fixtype ==15;
replace cgroprd=1 if fixtype ==15;
donet;
dogross;
oddwage;
cap log close;
log using oddwage, append;
di "after FIX 15 ";
tab oddwage;
log off;
/***********************
*    FIX 16          *
***********************
/* there are a number with IMPLAUSIBLE, VERY low weekly hours, which are
not compatible
with their self-reported work status, recorded in econact */
/* I'm not sure what to do with these? Set them to missing? Assume some
average hours for them?
Set to missing for now */
replace fixtype=16 if hours<=10 & hr_gro>50 & hr_gro~= & econact==1;
cap log close;
    log using oddwage, append;
    tab econact if hours<=10 & hr_gro>50 & hr_gro<=.;
cap log close;
replace hours=0 if fixtype==16;
replace zhours=1 if fixtype==16;
dohours;
dogross;
donet;
oddwage;
cap log close;
log using oddwage, append;
    di "after FIX 16 ";
    tab oddwage;
log off;

/***********************
*    FIX 17          *
***********************
/* there are some who have annual amounts recorded as monthly: change
period code to annual
(* or else they could need to be divided by 10? see above? *)
*/
replace fixtype = 17 if (cnetprd==3| cnetprd==4) & cnetpay>10000 &
hr_net>100 & hr_net~=
replace cnetprd = 5  if (cnetprd==3| cnetprd==4) & cnetpay>10000 &
hr_net>100 & hr_net~=
replace fixtype = 17 if (cgroprd==3| cgroprd==4) & cgropay>10000 &
hr_gro>100 & hr_gro~=
replace cgroprd = 5  if (cgroprd==3| cgroprd==4) & cgropay>10000 &
hr_gro>100 & hr_gro~=
dogross;
donet;
oddwage;
cap log close;
log using oddwage, append;
    di "after FIX 17 ";
    tab oddwage;
log off;

***********************
* FIX 18 *
***************/
/* there are 8 obs where cgropay and cnetpay both coded as 1 :
   clearly nothing to do with their pay, although (except for 1 obs who "refused" to give period codes), period codes and hours work information is provided. Set to missing for now: can good data for these be recovered? */

replace fixtype=18 if cnetpay==1 & cgropay==1 & hr_gro==.;
replace cnetpay=. if fixtype==18;
replace znetpay=1 if fixtype==18;
replace cgropay=. if fixtype==18;
replace zgropay=1 if fixtype==18;
donet;
dogross;
oddwage;
cap log close;
log using oddwage, append;
di "after FIX 18 ";
tab oddwage;
log off;

/********************
* FIX 11: AGAIN *
*******************/
/* some more individual fixes to gross and net pay */

/* WHAT TO DO??
 1) Need to find a fix for serial 122904 : 10 net pay, 15 gross pay --- multiply by 100?
      already has had net period code changed from annual to monthly to be more in line with the gross period code, but this may not be the right fix in this case?

  2) SERIAL 109130: monthly gross and net pay given as £55 for 56 hours per week = 22p per hour

  3) SERIAL 218767, 208683,230872, 20174: really high annual pay - see below for comparison to wave 5 info */

li serial chrtid rw* wk_net _m if serial==218767;
li serial chrtid rw* wk_gro _m if serial==228991;
li serial chrtid rw* wk_net _m if serial==208683;
li serial chrtid rw* wk_net _m if serial==230872;
li serial chrtid rw* wk_net _m if serial==201714;

replace cgropay=ogropay/10 if serial ==228991; /* based on weekly net pay in wave 5 of £605.305 -- more plausible that this one is in the region of £600 not £6000 */
replace fixtype=11 if serial==228991;
drop if _m==2;
donet;
dogross;
oddwage;
cap log close; log using oddwage, append; di "after more individual fixes:"; tab oddwage; log off;

/*******************************
* FIXES 19 AND 20: NOT REALLY A FIX - *
*******************************
/* if proportion of net to gross is still odd, but no fix has been made */
replace fixtype=19 if oddprop==1 & fixtype==0;

/* if gross hourly wage is still > £100 or < £2, but no fix has been made */
replace fixtype=20 if oddwage==1 & fixtype==0;

/****************************************** SET UP SOME CATEGORY VARIABLES
FOR REFERENCE **********************/
/* Missing status variables for cnetpay and cgropay: 
for each net pay obs missing: 
some can be imputed from gross, 
for others, net and gross are both missing. */

/* both gross and net missing */
cap drop bothmiss;
gen bothmiss =1 if znetpay==1 & zgropay==1;
replace bothmiss =0 if bothmiss~=1;
replace bothmiss = . if employee==0;
lab var bothmiss "both wages missing";

/* can impute net from gross */
cap drop impnet;
gen impnet =1 if znetpay==1 & zgropay~=1;
replace impnet =0 if impnet~=1;
replace impnet =. if employee==0;
lab var impnet "can impute net from gross";

/* can impute gross from net */
cap drop impgro;
gen impgro =1 if zgropay==1 & znetpay~=1;
replace impgro =0 if impgro~=1;
replace impgro =. if employee==0;
lab var impgro "can impute gross from net";

/* how to fix missing net pay */
cap drop fixnet;
gen fixnet =1 if impnet==1;
replace fixnet =2 if bothmiss==1;
replace fixnet =0 if znetpay==0;
replace fixnet =. if employee==0;
lab var fixnet "how to fix missing net pay";
lab def fixnet 0 "no fix needed" 1 "can impute from gross" 2 "set to missing", modify;
lab val fixnet fixnet;

/*how to fix missing gross pay */
cap drop fixgro;
gen fixgro =1 if impgro==1;
replace fixgro =2 if bothmiss==1;
replace fixgro =0 if zgropay==0;
replace fixgro =. if employee==0;
lab var fixgro "how to fix missing gross wage";
lab def fixgro 0 "no fix needed" 1 "can impute from net" 2 "set to missing", modify;
lab val fixgro fixgro;
replace fixtype=. if bothmiss==1;

/*********************************************REASONS WHY NO HOURLY PAY AVAILABLE *********************************************/
cap drop zhr_net;
lab def zhr_net 0 "not missing"
  1 "imputed from gross"
  2 "missing pay: cannot impute"
  3 "missing period code: cannot impute"
  4 "missing hours, no hourly pay given" , modify;
gen zhr_net = 1 if fixnet==1;
replace zhr_net = 1 if fixnet==0 & znetprd==1 & zgropay==0 & zgroprd==0;
/* net period code is missing */
replace zhr_net = 2 if fixnet==2;
replace zhr_net = 3 if (fixnet==0 | fixnet==1) & znetprd==1 & zgroprd==1;
replace zhr_net = 4 if (fixnet==0 & znetprd==0 & zgroprd==0 & zhours==1) | (fixnet==1 & zgroprd==0 & zhours==1);
replace zhr_net = 0 if employee==1 & zhr_net==.;
/* set back to not missing or can impute if pay is given hourly, or could impute from gross pay given hourly */
replace zhr_net = 0 if cnetprd==6 & cnetpred==17 & zhours==1;
replace zhr_net = 1 if zhr_net==5 & fixnet==1 & cnetprd==6 & cnetpred==17 & zhours==1;
replace zhr_net = . if employee==0;
lab val zhr_net zhr_net;
lab var zhr_net "missing hourly net pay";

cap drop zhr_gro;
gen zhr_gro = 1 if fixgro==1;
replace zhr_gro = 1 if fixgro==0 & zgroprd==1 & znetpay==0 & znetprd==0;
/* gross period code is missing */
replace zhr_gro = 2 if fixgro==2;
replace zhr_gro = 3 if zgroprd==1 & znetprd==1 & (fixgro==0 | fixgro==1);
replace zhr_gro = 4 if (fixgro==0 & zgroprd==0 & zhours==1) | (fixgro==1 & znetprd==0 & zhours==1);
replace zhr_gro = 0 if employee==1 & zhr_gro==.;
/* set back to not missing or can impute if pay is given hourly, or could impute from gross pay given hourly */
replace zhr_gro = 0 if cgroprd==6 & cgropred==17 & zhours==1;
replace zhr_net = 1 if zhr_gro==5 & fixgro==1 & cnetprd==6 & cnetpred==17 & zhours==1;
replace zhr_gro = . if employee==0;
lab def zhr_gro 0 "not missing"
       1 "imputed from net"
       2 "missing pay: cannot impute"
       3 "missing period code: cannot impute"
       4 "missing hours, no hourly pay given" , modify;
lab val zhr_gro zhr_gro;
lab var zhr_gro "missing hourly gro pay";

/****************************** do the imputations 
*****************************************/
do "e:\2000cohorts\do files\impute";
replace hr_gro= Ihr_gro if zhr_gro==1;
replace wk_gro= Iwk_gro if zhr_gro==1;
replace mo_gro= Imo_gro if zhr_gro==1;
replace ann_gro= Iann_gro if zhr_gro==1;
replace hr_net= Ihr_net if zhr_net==1;
replace wk_net= Iwk_net if zhr_net==1;
replace mo_net= Imo_net if zhr_net==1;
replace ann_net= Iann_net if zhr_net==1;

/****************************** inflate to Jan 01 
****************************/
/* these will have been merged in from Iintdate.dta 
*/
cap drop rhr_gro;
gen rhr_gro = hr_gro/ rpi_int;
lab var rhr_gro "real gross hourly earnings, j01 prices";
cap drop lhw;
gen lhw = log(hr_gro);
lab var lhw "log real gross hourly earnings, j01 prices";

/****************************** code up some simple characteristics 
*******************************/
cap drop male;
gen male =1 if cmsex==1;
replace male = 0 if cmsex==2;
lab var male "male dummy";
cap drop sampsex;
gen sampsex =1 if sample==1 & male==1;
replace sampsex =2 if sample==2 & male==1;
replace sampsex =3 if sample==1 & male==0;
replace sampsex =4 if sample==2 & male==0;
lab def sampsex 1 "bcs70 man" 2 "ncds man" 3 "bcs70 woman" 4 "ncds woman", modify;
lab val sampsex sampsex;
cap drop bcsman;
cap drop ncdsman;
cap drop bcswom;
cap drop ncdswom;

gen bcsman = 1 if sampse==1;
gen ncdsman = 1 if sampse==2;
gen bcswom = 1 if sampse==3;
gen ncdswom = 1 if sampse==4;

replace bcsman = 0 if  bcsman~=1;
replace ncdsman = 0 if  ncdsman~=1;
replace bcswom  = 0 if  bcswom~=1;
replace ncdswom = 0 if  ncdswom~=1;

/* log some results */
cap log close;
log using misspay, replace;

/* BASIC PAY VARIABLES */
tab fixnet sample, col freq;
tab fixgro sample, col freq;

/* HOURS */
tab zhours sample, col freq;

/* HOURLY PAY VARIABLES */
tab zhr_net sample, col freq;
tab zhr_gro sample, col freq;

tab zhr_net econact, col freq;
tab zhr_gro econact, col freq;

tab zhr_net cmsex, col freq;
tab zhr_gro cmsex, col freq;

/* FIXES TO PAY VARIABLES */
tab fixtype sample, col freq;

/****** hourly gross pay descriptives **************/
su hr_gro, det;
table sampsex, c(median hr_gro);
table sampsex, c(mean hr_gro);
table sample econact, c(median hr_gro), if employee==1;
table sample econact, c(mean hr_gro), if employee==1;

table sample econact, c(median hr_gro), if cmsex==1 & employee==1;
table sample econact, c(mean hr_gro), if cmsex==2 & employee==1;

gr hr_gro if hr_gro<40 & oddwage==0 & oddprop==0, bin(50)
xlab(0,3,10,20,40) by(sampsex) ylab(0,0.04,0.08,0.12,0.16);
reg lhw ncdsman bcsman bcswom ;
log close;

/******FINALLY, SET NEW IMPUTED PAY AND PERIOD VARIABLES,**************/
AND RETURN CNETPAY, ETC. TO THEIR ORIGINALES/
cap drop Inetpay;
gen Inetpay=cnetpay;
lab var Inetpay "imputed/corrected net pay variable";
cap drop Igropay;
gen Igropay=cgropay;
lab var Igropay "imputed/corrected gross pay variable";
cap drop Inetprd;
gen Inetprd=cnetprd;
lab var Inetprd "imputed/corrected net period variable";
label values Inetprd cnetprd;
cap drop Igroprd;
gen Igroprd=cgroprd;
lab var Igroprd "imputed/corrected gross period variable";
label values Igroprd cgroprd;

/* return cnet and gro variables to their originals */
replace cnetpay=onetpay;
replace cnetprd=onetprd;
replace cgropay=ogropay;
replace cgroprd=ogroprd;
**IMPUTE.DO**

```
/********************************************IMPUTATION OF NET AND GROSS PAY ********************************************/
/* assume all are contracted IN to SERPs */
/* assume none get WFTC through pay packet */
# delimit;
set more 1;

/******** interview dates and tax year
*********************************************************************************************************/
/* use corrected intdate variable once have got this together properly..*/
cap drop intmth;
cap drop intyr;
cap drop temp;
gen str2 temp= substr(intdate,3,2);
gen intmth= real(temp);
cap drop temp;
gen str4 temp = substr(intdate,5,4);
gen intyr= real(temp);
cap drop taxyear;
gen taxyear=1999 if ((intyr==1999)| (intyr==2000 & intmth<4));
replace taxyear=2000 if taxyear~=1999;
lab var taxyear "tax year";

/**** Because there was still the MCA in 1999, need to check if there are any children ***********/

/* sum across household members to see if any are children u19 */
cap pr drop makekid;
pr def makekid;
local loop = 2;
while `loop' <10 {
/* include foster kids for now */
replace kidinhh = kidinhh+ 1 if
    reltoke`loop' ==3 & age`loop'<17 |
    reltoke`loop' ==4 & age`loop'<17 |
    reltoke`loop' ==5 & age`loop'<17 |
    reltoke`loop' ==6 & age`loop'<17 |
    reltoke`loop' ==7 & age`loop'<17;
replace maybek = maybek+1 if
         (reltoke`loop' ==3 & (age`loop'==18|age`loop'==19|age`loop'==999)) |
         (reltoke`loop' ==4 & (age`loop'==18|age`loop'==19|age`loop'==999)) |
         (reltoke`loop' ==5 & (age`loop'==18|age`loop'==19|age`loop'==999)) |
         (reltoke`loop' ==6 & (age`loop'==18|age`loop'==19|age`loop'==999)) |
         (reltoke`loop' ==7 & (age`loop'==18|age`loop'==19|age`loop'==999));
local loop = `loop' +1;
```

need to know marital status and if there are children in the household for MCA in 1999 */
cap drop kidinhh;
gen kidinhh=0;
lab var kidinhh "kid u17 in household grid";
cap drop maybek;
gen maybek=0;
lab var maybek "kid 18,19, missing age in household grid";
makekid;
cap drop mca;
gen mca=1 if taxyear==1999 & ms==1;
replace mca = 1 if taxyear==1999 & (kidinhh>0|maybek>0);
replace mca =0 if mca ~=1;
lab var mca "getting married couples allowance?";

/**************************** some helpful indicators
*******************************************************************************/

/* can impute net from gross */
cap drop impnet;
gen impnet =1 if znetpay==1 & zgropay~1;
replace impnet =0 if impnet~1;
replace impnet =. if employee==0;
lab var impnet "can impute net from gross";

/* can impute gross from net */
cap drop impgro;
gen impgro =1 if zgropay==1 & znetpay~1;
replace impgro =0 if impgro~1;
replace impgro =. if employee==0;
lab var impgro "can impute gross from net";

/**************************** some parameters of the tax system
*******************************************************************************/
cap drop lel;
cap drop uel;
cap drop pa;
cap drop thresh1;
cap drop thresh2;
cap drop lowrate;
cap drop baserate;
cap drop highrate;
gen lel=67 if taxyear==2000;
replace lel=66 if taxyear==1999;
lab var lel "national insurance lower earnings limit";
gen uel=535 if taxyear==2000;
replace uel=500 if taxyear==1999;
lab var uel "national insurance upper earnings limit";

gen pa = 4385 if taxyear==2000;
replace pa = 4335 if taxyear==1999;
lab var pa "personal allowance";

geno uel = 1520 if taxyear==2000;
replace thresh1 = 1500 if taxyear==1999;
lab var thresh1 "lower rate limit";

geng thresh2 = 28400 if taxyear==2000;
replace thresh2 = 28000 if taxyear==1999;
lab var thresh2 "basic rate limit";

geng lowrate = 0.1;
lab var lowrate "lower rate";

geng baserate = 0.22 if taxyear==2000;
replace baserate = 0.23 if taxyear==1999;
lab var baserate "basic rate";

geng highrate = 0.4;
lab var highrate "higher rate";

cap drop notax;
cap drop lowband;
cap drop baseband;
cap drop highband;

/* put people in income tax bands according to their net incomes */
gen notax = 1 if (ann_net<=pa);
gen lowband = 1 if (ann_net>pa) & (ann_net <= (pa + (0.9 * thresh1)))
gen baseband= 1 if (ann_net > (pa + (0.9 * thresh1)) & (ann_net <= (pa + (0.9 * thresh1) + ((1-baserate) * (thresh2-thresh1))));
gen highband= 1 if (ann_net >=(pa + (0.9 * thresh1) + ((1-baserate) * (thresh2-thresh1))));

/****************************************************** NATIONAL INSURANCE
**********************************************/

/* FROM GROSS */
cap drop wk_nig;

gen wk_nig = 0 if wk_gro<lel;
replace wk_nig = 0.1* (wk_gro-lel) if wk_gro>=lel &
wk_gro<=uel;
replace wk_nig = 0.1* (uel-lel) if wk_gro>uel;

lab var wk_nig "from gross: imputed weekly NI payments";

/* FROM NET */
cap drop wk_nin;
gen wk_nin = 0 if wk_net<=lel;
replace wk_nin = ((wk_net-lel)/9) if wk_net>lel & wk_net<=uel*0.9;
replace wk_nin = (0.1* (uel- lel)) if wk_net>uel*0.9;
lab var wk_nin "from net: imputed weekly NI payments"

/************************************** INCOME TAX
*****************************************************/
/* tax is worked out separately for those whose income falls:
1. below personal allowance
2. in 10p band
3. in basic rate band
4. in higher rate band */
/* FROM GROSS */
cap drop taxann;
gen taxann = ann_gro-pa;
cap drop ann_itg;
gen ann_itg =0 if taxann <=0;
replace ann_itg = lowrate * taxann if taxann >0 & (taxann < thresh1);
replace ann_itg =((lowrate * (thresh1)) + (baserate * (taxann - thresh1))) if (taxann>= thresh1) & (taxann< thresh2)
replace ann_itg =((lowrate * (thresh1)) + (baserate * (thresh2 - thresh1)) + (highrate * (taxann - thresh2)) if (taxann>=thresh2)
replace ann_itg = ann_itg - 197 if mca==1;
replace ann_itg = 0 if ann_itg <0;
lab var ann_itg "from GROSS: imputed annual income tax payments"

/* FROM NET */
cap drop ann_itn;
gen ann_itn =0 if notax==1;
replace ann_itn = (lowrate/(1-lowrate)) *(ann_net-pa) if lowband==1;
replace ann_itn = ((baserate/(1-baserate))*(ann_net-pa)) - (((baserate-lowrate)/(1-baserate)) * thresh1) if baseband==1;
replace ann_itn = ((highrate/(1-highrate))*(ann_net-pa)) - (((highrate-baserate)/(1-highrate)) * thresh2) - (((baserate-lowrate)/(1-highrate)) * thresh1) if highband==1;
replace ann_itn = ann_itn -197 if mca==1;
replace ann_itn = 0 if ann_itn<0;
lab var ann_itn "from NET: imputed annual income tax payments";
cap drop Iann_gro;
cap drop Iann_net;

gen Iann_gro = ann_net + (wk_nin*52) + ann_itn;
lab var Iann_gro "gross annual income imputed from net";

gen Iann_net = ann_gro - (wk_nig*52) - ann_itg;
lab var Iann_net "net annual income imputed from gross";

/* need to translate these back into other periods: hourly, weekly */
/* weekly */
cap drop Iwk_gro;
cap drop Iwk_net;

gen Iwk_gro = Iann_gro/52;
lab var Iwk_gro "weekly gross imputed from net";

gen Iwk_net = Iann_net/52;
lab var Iwk_net "weekly net imputed from gross";

/*monthly */
cap drop Imo_gro;
cap drop Imo_net;

gen Imo_gro = Iann_gro/12;
lab var Imo_gro "monthly gross imputed from net";

gen Imo_net = Iann_net/12;
lab var Imo_net "monthly net imputed from gross";

/* hourly */
cap drop Ihr_gro;
cap drop Ihr_net;

gen Ihr_gro = Iwk_gro/hours;
lab var Ihr_gro "hourly gross imputed from net";

gen Ihr_net = Iwk_net/hours;
lab var Ihr_net "hourly net imputed from gross";

/****************************log some results
*****************************************************************************/
cap drop prop;
gen prop = hr_net/hr_gro;
replace prop = hr_net/Ihr_gro if zhr_gro==1;
replace prop = Ihr_net/hr_gro if zhr_net==1;

cap drop imputax*;
gen imputax1 = Ihr_net/hr_gro;
gen imputax2 = hr_net/Ihr_gro;

lab var imputax1 "ratio: imputed net given gross";
lab var imputax2 "ratio: imputed gross given net";
cap drop reported;
gen reported = hr_net/hr_gro;

cap log close;
log using imputation, replace;
su prop;
su prop if zhr_net==1 & zhr_gro==1, det;
su prop if zhr_net==1, det;
su prop if zhr_gro==1, det;

su hr_gro Ihr_gro hr_net Ihr_net;
sum imputax1 imputax2 reported;

cap log close;
PARTNER.DO

/* this sorts out partner's income
1. set up missing variable
2. put into weekly/ annual
3. any fixes?
4. impute gross from net
*/
#delimit;
set more 1;

/**************** set original in stone
***********************************************************************/
cap drop opnet;
gen opnet = pnetpay;
lab var opnet "original pnetpay";

cap drop opnetprd;
gen opnetprd = pnetprd;
lab var opnetprd "original pnetprd";

cap drop opnpred;
gen opnpred = pnetpred;
lab var opnpred "original pnetpred";

/**** EARNINGS STATUS :   this is different from the cm coding, as there
are earnings figs for people across all peconact, not just employees ************/
cap drop pearns;
gen pearns =1        if pnetpay~=.;
replace pearns  =0        if pnetpay==.;
lab var pearns "partner's earnings reported";

/******************* missing partner's pay
******************************************************************************/
cap drop zpnetpay;
gen zpnetpay       =1       if opnet== 99999998|opnet==99999999|opnet==1;
replace zpnetpay   =0       if zpnetpay~=1;
replace zpnetpay   =.       if pnetpay==.;
lab var zpnetpay "missing pnetpay";

/******************** period codes
******************************************************************************/
/*the coding frame for pnetprd:
 1 one week
 2 a fortnight
 3 four weeks
 4 a calendar month
 5 a year or
 6 other period

the coding frame for pnetpred:
 1 one week
 2 a fortnight/2 weeks
 3 four weeks
 4 a calendar month
 5 a year (12 months/52 weeks)
6 three weeks
7 five weeks
8 six weeks
9 seven weeks
10 eight weeks
11 two calendar months
12 eight times a year
13 nine times a year
14 ten times a year
15 three months/13 weeks
16 six months/26 weeks
17 hourly
18 daily
19 one off lump sum
20 some other period
21 varies
22 refused
23 some other comment
24 irrelevant/unspecific response */

/********************************************************************************** NET PAY VARIABLES
**********************************************************************************/

/* First make sure not to start manipulating missing values 9999997 and 9999998 ! */
replace pnetpay =. if zpnetpay==1;
/* need to guess
days per week (5 give their pay daily)
hours per week (3 give their pay hourly)

assume the number of hours (and days based on this)
is the median employee hours of the cohort members--
this is 20 for part time males and females,
40 for full-time females,
45 for full-time males

(asumme partner's sex is opp of cm sex -- too much effort to get proper
code from household
grid for now -- out of these 8 its pretty much certain to be true!) */
cap drop phours;
gen phours = 20 if (peconact==2|peconact==4);
replace phours = 40 if (peconact==1|peconact==3) & cmsex==1;
replace phours = 45 if (peconact==1|peconact==3) & cmsex==2;
lab var phours "partner's hours: estimated";
cap drop pdays;
gen pdays = 2.5 if (peconact==2|peconact==4);
replace pdays = 5 if (peconact==1|peconact==3);
lab var pdays "partner's days: estimated";

/* this program converts net pay into different periods depending on the
period code */
cap pr drop dopnet;
pr def dopnet;
cap drop ann_pnet;
cap drop wk_pnet;
cap drop zpnetprd;

gen wk_pnet = (pnetpay) if pnetprd==1 & zpnetpay==0;
replace wk_pnet = (pnetpay / 2) if pnetprd==2 & zpnetpay==0;
replace wk_pnet = (pnetpay / 4) if pnetprd==3 & zpnetpay==0;
replace wk_pnet = (pnetpay / (13/3)) if pnetprd==4 & zpnetpay==0;
replace wk_pnet = (pnetpay / 52) if pnetprd==5 & zpnetpay==0;
replace wk_pnet = 9999997 if pnetprd==6 & pearsns==1 & zpnetpay==0;
replace wk_pnet = (pnetpay) if pnetprd==6 & pnetpred==1 & zpnetpay==0;
replace wk_pnet = (pnetpay / 2) if pnetprd==6 & pnetpred==2 & zpnetpay==0;
replace wk_pnet = (pnetpay / 3) if pnetprd==6 & pnetpred==3 & zpnetpay==0;
replace wk_pnet = (pnetpay / (13/3)) if pnetprd==6 & pnetpred==4 & zpnetpay==0;
replace wk_pnet = (pnetpay / 52) if pnetprd==6 & pnetpred==5 & zpnetpay==0;
replace wk_pnet = (pnetpay / 3) if pnetprd==6 & pnetpred==6 & zpnetpay==0;
replace wk_pnet = (pnetpay / 5) if pnetprd==6 & pnetpred==7 & zpnetpay==0;
replace wk_pnet = (pnetpay / 7) if pnetprd==6 & pnetpred==8 & zpnetpay==0;
replace wk_pnet = (pnetpay / 8) if pnetprd==6 & pnetpred==9 & zpnetpay==0;
replace wk_pnet = (pnetpay / 10) if pnetprd==6 & pnetpred==10 & zpnetpay==0;
replace wk_pnet = (pnetpay / (26/3)) if pnetprd==6 & pnetpred==11 & zpnetpay==0;
replace wk_pnet = (pnetpay / (52/8)) if pnetprd==6 & pnetpred==12 & zpnetpay==0;
replace wk_pnet = (pnetpay / (52/9)) if pnetprd==6 & pnetpred==13 & zpnetpay==0;
replace wk_pnet = (pnetpay / (52/10)) if pnetprd==6 & pnetpred==14 & zpnetpay==0;
replace wk_pnet = (pnetpay / 13) if pnetprd==6 & pnetpred==15 & zpnetpay==0;
replace wk_pnet = (pnetpay / 26) if pnetprd==6 & pnetpred==16 & zpnetpay==0;
replace wk_pnet = (pnetpay * phours) if pnetprd==6 & pnetpred==17 & zpnetpay==0;
replace wk_pnet = (pnetpay * pdays) if pnetprd==6 & pnetpred==18 & zpnetpay==0;
replace wk_pnet = 9999997 if pnetprd==6 & pnetpred>=19 & zpnetpay==0;
replace wk_pnet = 9999997 if pnetprd==. & zpnetpay==0;
replace wk_pnet = 9999997 if pnetprd==6 & pnetpred=. & zpnetpay==0;

lab var wk_pnet  "partner weekly net pay";

/* missing net period */
gen zpnetprd       =        1 if wk_pnet==9999997;
replace zpnetprd   =        0 if pearns==1 & zpnetprd~=1;
replace zpnetprd   = .      if pearns==0;
lab var zpnetprd   "missing net period code";
replace wk_pnet    = .      if zpnetprd==1;

/* annual net pay */
gen ann_pnet       =         (wk_pnet*52)                  if zpnetprd==0;
replace ann_pnet=.                                         if zpnetprd==1;
lab var ann_pnet  "partner annual net pay";

/* ROUGH guess at hourly net pay -- by dividing by estimated hours */
cap drop hr_pnet;
gen hr_pnet = wk_pnet/phours;
replace hr_pnet =. if zpnetprd==1;
end;
dopnet;
cap pr drop podd;
pr def podd;
cap drop podd;
gen podd=1 if (hr_pnet<2 | hr_pnet>100) & ann_pnet~=.;
lab var podd "odd partner's wage";
tab podd;
end;
podd;

/******************** FIXES TO PARTNER'S PAY *******************/
/* FIX ONE
A LOAD CODED AS WEEKLY WHICH I AM CHANGING TO ANNUAL ---- SOME COULD
HAVE THE DECIMAL POINT IN THE WRONG PLACE,
ITS IMPOSSIBLE TO KNOW WHICH, BUT IT MATTERS SINCE WHAT I AM DOING
DIVIDES BY 52, WHEREAS THE OTHER DIVIDES BY 100!!!! */
replace pnetprd=5 if (serial ==111207  | serial ==   205291  | serial ==
100875  | serial ==  127091 |
              serial ==107752  | serial == 108363  | serial ==
211375);

/* FIX TWO
A LOAD CODED AS ANNUAL WHICH MUST BE MONTHLY */
replace pnetprd = 4 if hr_pnet<1 & pnetpay>500 & pnetprd==5;

/* FIX 3: these need to be multiplied by 1000 I think ! */
replace pnetpay=opnet*1000 if serial==231141|serial==220423|serial==218974;

/* A LOAD CODED AS ANNUAL WHICH I THINK ARE WEEKLY - ALTHOUGH THEY COULD BE
HOURLY AND WITHOUT A DECIMAL POINT...! */
replace pnetprd=1 if serial==223385|serial==208807|serial==128051|serial==230870|serial==208819|serial==223287;

/* FIX 4: these are coded as monthly which should be annual */
replace pnetprd = 5 if (serial == 129075|serial==226193|serial==200516|serial==208649);
su pnetprd;

/* FIX 5: decimal point has gone missing: divide by 100 */
replace pnetpay = opnet /100 if serial==109177|serial==228795;

/* FIX 6: some individual fixes */
replace pnetpay =1100 if serial==129849;

/* Fix 7: these ought to be monthly ! */
replace pnetprd = 4 if serial==230227|serial==111346|serial==228451|serial==206491|serial==108097|serial==220322|
serial==110103|serial==227417|serial==222487|serial==130222|
serial==218190|serial==112998|serial==209574|serial==105600|
serial==222518|serial==123032|serial==229425|serial==120296;

/* these need to be *100 */
replace pnetpay = opnet *100 if serial==216308|serial==201426|serial==111346|serial==222511;

/* these need to be * 10 */
replace pnetpay= opnet * 10 if serial==113089|serial==214352|serial==211187|serial==104141|
serial==209738|serial==219897|serial==228918|serial==111609|
serial==222537|serial==104729|serial==125905|serial==111127|
serial==217108|serial==111811|serial==212263;
dopnet;
replace pnetpay = pnetpay*10 if hr_pnet>=0.5 & hr_pnet<=1;

/* these look like hourly */
replace pnetprd=6 if serial==225242|serial==105684|serial==200634|serial==112685;
replace pnetpred=17 if serial==225242|serial==105684|serial==200634|serial==112685;

/* change to missing - can't really tell what they should be...*/
replace pnetpay=. if serial==113463|serial==222918|serial==219680|serial==117299|serial==130637|
serial==202656|serial==219418|serial==124541|serial==127480|serial==214513;

/* these look like weekly */
replace pnetprd=1 if pnetprd==4 & hr_pnet>=1.02 & hr_pnet<2;

dopnet;
podd;
JUST IMPUTE A GROSS FIGURE FROM THIS NET -- although the net is given net of pension contributions, so gross will not be accurate! */

**************************************** NATIONAL INSURANCE ****************************************

/* FROM NET */
cap drop wk_nip;

gen  wk_nip    = 0                                       if wk_pnet<=lel
;  
replace  wk_nip    = ((wk_pnet-lel)/9)                    if wk_pnet>lel &
wk_pnet<=uel*0.9 ;                                 
replace  wk_nip    = (0.1* (uel- lel))                   if
wk_pnet>uel*0.9 ;                                    
lab var wk_nip "from net: partner's imputed weekly NI payments";

/* FROM NET */
cap drop ann_itp;
gen  ann_itp  =0                                               if
notax==1;
replace  ann_itp  =   (lowrate/(1-lowrate)) *(ann_pnet-pa)      if
lowband==1;
replace  ann_itp  = ((baserate/(1-baserate))*(ann_pnet-pa)) - (((baserate-
lowrate) /((1-baserate)) * thresh1) if baseband==1;
replace  ann_itp  = ((highrate/(1-highrate))*(ann_pnet-pa)) - (((highrate-
baserate)/(1-highrate)) * thresh2) - (((baserate-lowrate)/(1-highrate)) *
thresh1) if highband==1;
/* don't know if its right to give the whole MCA to the partner -- when
imputing before I gave it all to the cohort memeber
think about doing this properly later. */
replace ann_itp = ann_itp -197 if mca==1;
replace ann_itp = 0           if ann_itp<0;

lab var ann_itp "from NET: partner's imputed annual income tax payments";

cap drop ann_pgro;
gen ann_pgro = ann_pnet + (wk_nip*52) + ann_itp ;
lab var ann_pgro "partner's gross annual income imputed from net ";

/* need to translate these back into other periods : hourly, weekly */
/* weekly */
cap drop wk_pgro;
gen wk_pgro= ann_pgro/52;
lab var wk_pgro "partner's weekly gross imputed from net";

/* hourly */
cap drop hr_pgro;
gen hr_pgro = wk_pgro/phours;
lab var hr_pgro "partner's hourly gross imputed from net";

************* put originals back ************************************************/
#delimit;
cap drop Ipnetpay;
cap drop Ipnetprd;
cap drop Ipnpred;
rename pnetpay Ipnetpay;
rename pnetprd Ipnetprd;
rename pnpred Ipnpred;
rename opnet pnetpay;
rename opnetprd pnetprd;
rename opnpred pnetpred;

label values pnetprd pnetprd;
lab values pnetpred pnetpred;
APPENDIX 5: Basic Skills and other variables

Documentation Samantha Parsons of the Centre for Longitudinal Studies relating to basic skills and other variables is reproduced below.

Queries about the contents of this appendix should be directed to the User Support Group (cohort@cls.ioe.ac.uk)

PRELIMINARY ANALYSIS OF NCDS/BCS70 NEW 1999/2000 SURVEY DATA

i. Age CM and CM partner left full-time education
ii. Maths difficulties
iii. Reading difficulties
iv. Writing difficulties
v. Other difficulties of having 3R problem
vi. Skills questions
vii. Course attendance
viii. Computer use at home and work
ix. Illegal drug use
x. Diet, food and exercise
xi. Eating problems
xii. Smoking
xiii. Drinking
xiv. Accidents
### Age Left Full-Time Education Questions

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>actagel2</code></td>
<td>607</td>
<td>2.7</td>
<td>^1 0</td>
<td>22072</td>
</tr>
<tr>
<td><code>agelfte2</code></td>
<td>66</td>
<td>0.3</td>
<td>6 0</td>
<td>36 0.2</td>
</tr>
<tr>
<td><code>furthed2</code></td>
<td>607</td>
<td>2.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>lftmore2</code></td>
<td></td>
<td></td>
<td>^2</td>
<td></td>
</tr>
<tr>
<td><code>plefted</code></td>
<td>5981</td>
<td>26.4</td>
<td>^12 0.1</td>
<td>^347 2.1</td>
</tr>
</tbody>
</table>

**Derived Age Left Full-Time Education Variables**

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ageftedu</code></td>
<td>109</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>agelfted</code></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>ageledu</code></td>
<td>109</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>plefted1</code></td>
<td>6340</td>
<td>28.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **`actagel2`** details age CM left full-time education
- **`agelfte2`** captures CMs who were in full-time education at time of interview
- **`furthed2`** details CMs who returned to full-time education less than 3 years after initially leaving full-time education
- **`lftmore2`** details age CM left second period of full-time education
- **`plefted`** details age CM partner left full-time education

- **`ageftedu`** 6 category variables combining information from `actagel2` and `agelfte2`. Values: 1'before 16' 2'at 16' 3'post 16' 4'post 18' 5'post 21' 6'still in ft edu'.
- **`agelfted`** continuous variable combining information from `actagel2, agelfte2, furthed2` and `lftmore2`. Value range: 14 to 42, 99=still in education
- **`ageledu`** 6 category variable collapsing information in `agelfted`. Values: 1'before 16' 2'at 16' 3'post 16' 4'post 18' 5'post 21' 6'still in ft edu'
- **`plefted1`** 5 category variable collapsing information in `plefted`. Values: 1'before 16' 2'at 16' 3'post 16' 4'post 18' 5'post 21'
SPSS SYNTAX

**age CM left full-time education**

frequencies

  variables=actagel2 agelfte2 furthed2 lftmore2.

missing values actagel2 lftmore2 (99).
missing values agelfte2 (8,9).

compute ageftedu = -1.
if (actagel2 < 16) ageftedu = 1.
if (actagel2 = 16) ageftedu = 2.
if (actagel2 = 17 | actagel2 = 18) ageftedu = 3.
if (actagel2 = 19 | actagel2 = 20 | actagel2 = 21) ageftedu = 4.
if (actagel2 > 21 and agelfte2 = 1) ageftedu = 5.
if (missing(actagel2) and agelfte2 = 2) ageftedu = 6.
missing values ageftedu (-1).

variable labels ageftedu 'age CM left ft continuous education'.
value labels ageftedu 1'before 16' 2'at 16' 3'post 16' 4'post 18' 5'post 21' 6'still in ft edu'.

frequencies

  variables=ageftedu.

**age CM left full time education accounting for a \textit{gap} of no more than 3 years**

**two cases said had an additional period of education but did not say when finished, although they were not still in ft education - for these two cases I used the age of leaving ft education in ACTAGEL2 variable.**

compute agelfted = actagel2.
if (furthed2 = 1) agelfted = lftmore2.
if (agelfte2 = 2) agelfted = 99.
if (serial = 109993 | serial = 217003) agelfted = actagel2.

variable labels agelfted 'age CM finally left ft education'.
value labels agelfted 99'still in ed'.

frequencies

  variables=agelfted.

compute ageledu = -1.
if (agelfted < 16) ageledu = 1.
if (agelfted = 16) ageledu = 2.
if (agelfted = 17 | agelfted = 18) ageledu = 3.
if (agelfted = 19 | agelfted = 20 | agelfted = 21) ageledu = 4.
if (agelfted > 21) ageledu = 5.
if (agelfted = 99) ageledu = 6.
missing values ageledu (-1).

variable labels ageledu 'age CM finally left ft education'.
value labels ageledu 1'before 16' 2'at 16' 3'post 16' 4'post 18' 5'post 21' 6'still in ft edu'.

frequencies

  variables=ageledu.

**age CM partner left full-time education**

frequencies
variables = plefted.

missing values plefted (98,99).

recode plefted (14,15 = 1) (16 = 2) (17,18 = 3) (19 thru 21 = 4) (22 thru 46 = 5) (sysmis, 98, 99 = -1)
into plefted1.
missing values plefted1 (-1).

variable labels plefted1 'age CM partner finally left education'.
value labels plefted1 1 'before 16' 2 'at 16' 3 'post 16' 4 'post 18' 5 'post 21'.

frequencies
  variables = plefted1.
### MATHS QUESTIONS

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>mathsprb</td>
<td>66</td>
<td>0.3</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>549 (2.4%) had difficulty/were not able to work out change from £10. However, only 426 (78% of 549) asked additional 5 questions on type of maths difficulties CM had:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mprbtype</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>addup</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>subtract</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>multiply</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>subtract</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mathcors</td>
<td>66</td>
<td>0.3</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>429 (1.9%) had done a course to improve their maths. 429 asked if doing course now or previously</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mathsnow</td>
<td>22251</td>
<td>98.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mathimp</td>
<td>139</td>
<td>0.6</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>6234 (27.7%) ever wanted to improve their maths. 6234 asked multi-coded questions i) why they wanted to improve their maths and ii) where/how they would improve them</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mthlike1 – mthlike5</td>
<td>16446</td>
<td>72.5</td>
<td>2</td>
<td>6232</td>
</tr>
<tr>
<td>mthplac1- mthplac9</td>
<td>16446</td>
<td>72.5</td>
<td>^4</td>
<td>6230</td>
</tr>
<tr>
<td>datesprb</td>
<td>1377</td>
<td>6.1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>696 (3.3%) had difficulty/were not able to work out dates/use a calendar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mathconf</td>
<td>11421</td>
<td>50.4</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>1536 (13.7%) not confident helping their child(ren) with maths</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mathskid</td>
<td>11421</td>
<td>50.4</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>1093 (9.7%) did not help their child(ren) with maths</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>partmath</td>
<td>12733</td>
<td>56.1</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>1439 (14.5%) of CM partner did not help their child(ren) with maths</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Derived MATHS variables

<table>
<thead>
<tr>
<th>variable</th>
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<th>user-missing: 8 (^indicates 98)</th>
<th>user-missing: 9 (^indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>bsamd</td>
<td>1394</td>
<td>6.1%</td>
<td></td>
<td>21284</td>
</tr>
</tbody>
</table>
|          | 4 category variable combining information given in `mathsprb` and `datesprb`. Only for CMs who answered both questions. CM reporting ‘difficulties’ or ‘no, can’t do’ treated as one category. Values: 1 ‘no difficulties’ 2 ‘maths difficulties’ 3 ‘date/calendar difficulties’ 4 ‘maths and 3’ date/calendar difficulties’.
| bsamp1   | 22254          | 98.1%                         |                               | 426     |
|          | 6 category variable counting the specific maths problems of CMs who had reported maths difficulties in `mathsprb`. Included `mprbtype` (recognising numbers), `addup`, `subtract`, `multiply`, and `divide`. Values: 0 ‘not these problems’ 1 ‘one problem’ 2 ‘two problems’ 3 ‘three problems’ 4 ‘four problems’ 5 ‘all five problems’.
| bsamp2   | 22254          | 98.1%                         |                               | 426     |
|          | 4 category variable counting the specific maths problems of CMs who had reported maths difficulties in `mathsprb`. Included `addup`, `subtract`, `multiply`, and `divide`. Values: 0 ‘not these problems’ 1 ‘one problem’ 2 ‘two problems’ 3 ‘three problems’ 4 ‘all four problems’.
| Derived variables from multi-coded `mthlike1-mthlike5`: reasons why CM wants to improve their maths: for their children, to get a job, to get a promotion, get a better job, for self satisfaction. |
| impmkid  | 16448          | 72.5%                         |                               | 6232    |
| impmgjob |                                  |                               |                               |         |
| impmprom |                                  |                               |                               |         |
| impmbjob |                                  |                               |                               |         |
| impmself |                                  |                               |                               |         |
| Derived variables from multi-coded `mthplac1-mthplac9`: means by which CM would improve their maths: on a day college course, on an evening college course, on a weekend college course, on ANY college course, at a community centre, by using local library resources, by using PC packages, by using programmes on TV, by using programmes on the radio, by using books at home. |
| domcolld | 16450          | 72.5%                         |                               | 6230    |
| domcolle |                                  |                               |                               |         |
| domcollw |                                  |                               |                               |         |
| domcoll  |                                  |                               |                               |         |
| domcomc  |                                  |                               |                               |         |
| domlib   |                                  |                               |                               |         |
| dompc    |                                  |                               |                               |         |
| domtv    |                                  |                               |                               |         |
| domradio |                                  |                               |                               |         |
| dombook  |                                  |                               |                               |         |
SPSS SYNTAX

missing values mathsprb mprbtype mathcors mthimp addup subtract multiply divide datesprb mathconf mathskid mathsnow partmath (8,9).

Maths and Date problems

compute bsamd = -1.
if (mathsprb = 1 and datesprb = 1) bsamd = 0.
if (mathsprb >= 2 and datesprb = 1) bsamd = 1.
if (mathsprb = 1 and datesprb >= 2) bsamd = 2.
if (mathsprb >= 2 and datesprb >= 2) bsamd = 3.
missing values bsamd (-1).

variable labels bsamd '2000: CM has maths and calendar problems'.
value labels bsamd 0'no probs' 1'maths diffs' 2'date diffs' 3'maths and date diffs'.

frequencies variables=bsamd.

Number of math problems.

do if (mprbtype >= 1).
count bsamp1 = mprbtype addup subtract multiply divide (1).
end if.
variable labels bsamp1 '2000: CM has probs with math calculations'.
value labels bsamp1 0'no problems' 1'one problem' 2'two problems' 3'three problems' 4'four problems' 5'all five problems'.

do if (mprbtype >= 1).
count bsamp2 = addup subtract multiply divide (1).
end if.
variable labels bsamp2 '2000: CM has probs with 4 types math calculations'.
value labels bsamp2 0'no problems' 1'one problem' 2'two problems' 3'three problems' 4'all four problems'.

frequencies variables= bsamp1 bsamp2.

Reasons why want to improve math skills

missing values mthlike1 mthlike2 mthlike3 mthlike4 mthlike5 (8,9).

do if (mthlike1 > 0).
calculate impmkid = 0.
calculate impmgjob = 0.
calculate impmprom = 0.
calculate impmbjob = 0.
calculate impmself = 0.
do repeat x = mthlike1 mthlike2 mthlike3 mthlike4 mthlike5 .
if (x = 1) impmkid = 1.
if (x = 2) impmgjob = 1.
if (x = 3) impmprom = 1.
if (x = 4) impmbjob = 1.
if (x = 5) impmself = 1.
end repeat.
end if.
variable labels impmkid 'CM wants to improve maths to help their children'.
variable labels impmgjob 'CM wants to improve maths to help get a job'.

variable labels impmprom 'CM wants to improve maths to help get a promotion at work'.
variable labels impmbjob 'CM wants to improve maths to help get a better job'.
variable labels impmsefl 'CM wants to improve maths to study for own satisfaction'.

value labels impmkid impmgjob impmprom impmbjob impmsefl 0 'not this reason' 1 'yes, for this reason'.

frequencies
variables=impmkid impmgjob impmprom impmbjob impmsefl .

*Place where CM would go to improve math skills*

missing values mthplac1 (99).

do if (mthplac1 > 0).
compute domcolld = 0.
compute domcolle = 0.
compute domcollw = 0.
compute domcoll = 0.
compute domcomc = 0.
compute domllib = 0.
compute dompc = 0.
compute domtv = 0.
compute domradio = 0.
compute dombook = 0.
do repeat x = mthplac1 mthplac2 mthplac3 mthplac4 mthplac5 mthplac6 mthplac7 mthplac8 mthplac9.
if (x = 1) domcolld = 1.
if (x = 2) domcolle = 1.
if (x = 3) domcollw = 1.
if (x <= 3) domcoll = 1.
if (x = 4) domcomc = 1.
if (x = 5) domllib = 1.
if (x = 6) dompc = 1.
if (x = 7) domtv = 1.
if (x = 8) domradio = 1.
if (x = 9) dombook = 1.
end repeat.
end if.

variable labels domcolld 'CM would improve their maths on a DAY college course'.
variable labels domcolle 'CM would improve their maths on an EVENING college course'.
variable labels domcollw 'CM would improve their maths on a WEEKEND college course'.
variable labels domcoll 'CM would improve their maths on ANY college course'.
variable labels domcomc 'CM would improve their maths at a community centre'.
variable labels domllib 'CM would improve their maths by using local library resources'.
variable labels dompc 'CM would improve their maths by using PC packages'.
variable labels domtv 'CM would improve their maths by using programmes on TV'.
variable labels domradio 'CM would improve their maths by using programmes on the RADIO'.
variable labels dombook 'CM would improve their maths by using books at home'.

value labels domcolld domcolle domcollw domcoll domcomc domllib dompc domtv domradio dombook 0 'not using this method' 1 'this method'.

frequencies
variables=domcolld domcolle domcollw domcoll domcomc domllib dompc domtv domradio dombook.

(see COURSE section for derived reading course variable)
### READING QUESTIONS

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>readprb1</td>
<td>1377 6.1</td>
<td>1 0 21302</td>
<td>0</td>
<td>21302</td>
</tr>
<tr>
<td>readprb2</td>
<td>22000 97.0</td>
<td>680</td>
<td></td>
<td></td>
</tr>
<tr>
<td>readprb3</td>
<td>22003 97.0</td>
<td>677</td>
<td></td>
<td></td>
</tr>
<tr>
<td>readprb4</td>
<td>1377 6.1</td>
<td>21300</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

679 (3.2%) had difficulty/were not able read/understand magazine/newspaper text. 680 asked additional 2 questions on other reading difficulties (includes CM with value of 9 in readprb1)

| readprb2   | 22000 97.0     | 680                                |                                   |         |
| readprb3   | 22003 97.0     | 677                                |                                   |         |
| readprb4   | 1377 6.1       | 21300                              |                                   |         |

Asks if CM feels ability to read paperwork has improved over the last decade. 789 (3.7%) feel it has got worse.

| readcors   | 66 0.3         | 197                                | 197                               |         |
| readnow    | 22483 99.1     | 197                                |                                   |         |
| readimp    | 128 0.6        | 22550                              |                                   |         |

197 (0.9%) had done a course to improve their reading. 197 asked if doing course now or previously

| readcors   | 66 0.3         | 197                                | 197                               |         |
| readnow    | 22483 99.1     | 197                                |                                   |         |
| readimp    | 128 0.6        | 22550                              |                                   |         |

1856 (8.2%) ever wanted to improve their reading. 1856 asked multi-coded questions i) why they wanted to improve their reading and ii) where/how they would improve them

| redlike1   | 20824 91.8     | 1856                               |                                   |         |
| redlike5   | 20824 91.8     | 1854                               |                                   |         |
| redplac1   | 20824 91.8     | ^2 1854                            |                                   |         |
| redplac9   | 20824 91.8     |                                   |                                   |         |

(kidplac8 and kidplac9 hold no information)

| kidplac1   | 20824 91.8     | 1856                               |                                   |         |
| kidplac5   | 20824 91.8     | 1854                               |                                   |         |
| kidplac9   | 20824 91.8     | ^2 1854                            |                                   |         |

561 (5.0%) not confident helping their child(ren) with reading

| kidplac1   | 20824 91.8     | 1856                               |                                   |         |
| kidplac5   | 20824 91.8     | 1854                               |                                   |         |
| kidplac9   | 20824 91.8     | ^2 1854                            |                                   |         |

822 (7.3%) did not read to their child(ren)

| partread   | 12733 56.1     | 9922                               |                                   |         |

1271 (12.8%) of CM partner did not read to their child(ren)
### Derived READING variables

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>bsaread1</td>
<td>1378 6.1</td>
<td></td>
<td></td>
<td>21302</td>
</tr>
</tbody>
</table>

4 category variable combining information given in `readprb1`, `readprb2` and `readprb3`. CM reporting ‘difficulties’ or ‘no, can’t do’ treated as one category. Values: 1 ‘no reading difficulties’ 2 ‘1 type of reading difficulty’ 3 ‘2 types of reading difficulties’ 4 ‘3 types of reading difficulties’.

| bsaread2 | 22003 97.0     |                                  |                                  | 677     |

3 category variable combining information given in `readprb1`, `readprb2` and `readprb3` for CMs who reported ‘difficulties’ or ‘no, can’t do’ in `readprb1` and answered `readprb1`, `readprb2` and `readprb3`. CM reporting ‘difficulties’ or ‘no, can’t do’ treated as one category. Values: 1 ‘no reading difficulties’ 2 ‘1 type of reading difficulty’ 3 ‘2 types of reading difficulties’ 4 ‘3 types of reading difficulties’.

#### Derived variables from multi-coded redlike1-redlike5: reasons why CM wants to improve their reading

- `imprkid` for their children, to get a job, to get a promotion, get a better job, for self satisfaction.
- `imprgjob` 20824 91.8
- `imprprom` 20824 91.8
- `imprbjob` 20824 91.8
- `imprself` 20824 91.8

<table>
<thead>
<tr>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>1856</td>
</tr>
</tbody>
</table>

#### Derived variables from multi-coded redplac1-redplac9: means by which CM would improve their reading

- `dorcolld` on a day college course, on an evening college course, on a weekend college course, on ANY college course, at a community centre, by using local library resources, by using PC packages, by using programmes on TV, by using programmes on the radio, by using books at home.
- `dorcolle` 20826 91.8
- `dorcollw` 20826 91.8
- `dorcocm dorllib` 20826 91.8
- `dorpc` 20826 91.8
- `dortv` 20826 91.8
- `dorradio` 20826 91.8
- `dorbook` 20826 91.8

<table>
<thead>
<tr>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>1854</td>
</tr>
</tbody>
</table>
SPSS SYNTAX

missing values readprb1 readprb2 readprb3 readprb4 readcors readimp partread readkid readnow kidrdcnf (8,9).

Number of reading problems CM has

do if (readprb1 > 0).
count bsaread1 = readprb1 readprb2 readprb3 (2,3) /
end if.

do if (readprb1 > 1).
count bsaread2 = readprb1 readprb2 readprb3 (2,3) /
end if.

variable labels bsaread1 'CM not able to do or has difficulties with reading tasks'.
variable labels bsaread2 'CM not able to do or has difficulties with reading tasks'.

frequencies
  variables=bsaread1 bsaread2 .

Reasons CM wants to improve reading skills

missing values redlike1 redlike2 redlike3 redlike4 redlike5 (8,9).

do if (redlike1 > 0).
  compute imprkid = 0.
  compute imprgjob = 0.
  compute improm = 0.
  compute imprbjob = 0.
  compute imprself = 0.
  do repeat x = redlike1 redlike2 redlike3 redlike4 redlike5 .
    if (x = 1) imprkid = 1.
    if (x = 2) imprgjob = 1.
    if (x = 3) improm = 1.
    if (x = 4) imprbjob = 1.
    if (x = 5) imprself = 1.
  end repeat.
end if.

variable labels imprkid 'CM wants to improve reading to help their children'.
variable labels imprgjob 'CM wants to improve reading to help get a job'.
variable labels improm 'CM wants to improve reading to help get a promotion at work'.
variable labels imprbjob 'CM wants to improve reading to help get a better job'.
variable labels imprself 'CM wants to improve reading to study for own satisfaction'.

value labels imprkid imprgjob improm imprbjob imprself 0 'not this reason' 1 'yes, for this reason'.

frequencies
  variables=imprkid imprgjob improm imprbjob imprself .
Place where CM would go to improve reading skills

missing values redplac1 (99).

do if (redplac1 > 0).
compute dorcolld = 0.
compute dorcolle = 0.
compute dorcollw = 0.
compute dorcoll = 0.
compute dorcomc = 0.
compute dorlib = 0.
compute dorpc = 0.
compute dortv = 0.
compute dorradio = 0.
compute dorbook = 0.
do repeat x = redplac1 redplac2 redplac3 redplac4 redplac5 redplac6 redplac7 redplac8 redplac9.
if (x = 1) dorcolld = 1.
if (x = 2) dorcolle = 1.
if (x = 3) dorcollw = 1.
if (x <= 3) dorcoll = 1.
if (x = 4) dorcomc = 1.
if (x = 5) dorlib = 1.
if (x = 6) dorpc = 1.
if (x = 7) dortv = 1.
if (x = 8) dorradio = 1.
if (x = 9) dorbook = 1.
end repeat.
end if.

variable labels dorcolld 'CM would improve their reading on a DAY college course'.
variable labels dorcolle 'CM would improve their reading on an EVENING college course'.
variable labels dorcollw 'CM would improve their reading on a WEEKEND college course'.
variable labels dorcoll 'CM would improve their reading on ANY college course'.
variable labels dorcomc 'CM would improve their reading at a community centre'.
variable labels dorlib 'CM would improve their reading by using local library resources'.
variable labels dorpc 'CM would improve their reading by using PC packages'.
variable labels dortv 'CM would improve their reading by using programmes on TV'.
variable labels dorradio 'CM would improve their reading by using programmes on the RADIO'.
variable labels dorbook 'CM would improve their reading by using books at home'.

value labels dorcolld dorcolle dorcollw dorcoll dorcomc dorlib dorpc dortv dorradio dorbook 0'not using this method' 1'this method'.

frequencies
variables=dorcolld dorcolle dorcollw dorcoll dorcomc dorlib dorpc dortv dorradio dorbook.

(see COURSE section for derived reading course variable)
## Writing Questions

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing n</th>
<th>%</th>
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<th>user-missing: 9 ([ indicates 99) n</th>
<th>valid n</th>
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<tbody>
<tr>
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<td>6.1</td>
<td>1</td>
<td>0</td>
<td>21302</td>
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<tr>
<td></td>
<td>1087 (3.2%) had difficulty/were not able to write a thank-you letter to a friend. 1087 asked additional question on spelling difficulties (includes CM with value of 9 in writeprb)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>wprbtype</td>
<td>21593</td>
<td>95.2</td>
<td>1</td>
<td>0.1</td>
<td>1086</td>
</tr>
<tr>
<td></td>
<td>70 (6.4%) never tried to write a thank-you letter to a friend. 1017 asked additional questions on handwriting legibility and difficulties putting down in words what want to say</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>hwritprb</td>
<td>21663</td>
<td>95.5</td>
<td>1</td>
<td>0.1</td>
<td>1016</td>
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<tr>
<td>wordsprb</td>
<td>21663</td>
<td>95.5</td>
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<td></td>
<td>1017</td>
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<tr>
<td>writcors</td>
<td>22365</td>
<td>98.6</td>
<td></td>
<td></td>
<td>315</td>
</tr>
<tr>
<td></td>
<td>315 (1.4%) had done a course to improve their writing. 315 asked if doing course now or previously</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>writenow</td>
<td>22365</td>
<td>98.6</td>
<td></td>
<td></td>
<td>315</td>
</tr>
<tr>
<td>writimp</td>
<td>138</td>
<td>0.6</td>
<td>3</td>
<td>0</td>
<td>22539</td>
</tr>
<tr>
<td></td>
<td>2636 (11.7%) ever wanted to improve their writing. 2636 asked multi-coded questions i) why they wanted to improve their reading and ii) where/how they would improve them</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>wrilike1 – wrilike5</td>
<td>20044</td>
<td>88.4</td>
<td>1</td>
<td>0</td>
<td>2635</td>
</tr>
<tr>
<td>wriplac1– wriplac9</td>
<td>20044</td>
<td>88.4</td>
<td>^5</td>
<td></td>
<td>2631</td>
</tr>
<tr>
<td>writconf</td>
<td>11421</td>
<td>50.4</td>
<td>4</td>
<td>0</td>
<td>11229</td>
</tr>
<tr>
<td></td>
<td>806 (7.2%) not confident helping their child(ren) with writing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>writekid</td>
<td>11421</td>
<td>50.4</td>
<td>3</td>
<td>0</td>
<td>11242</td>
</tr>
<tr>
<td></td>
<td>1440 (12.8%) did not help their child(ren) with writing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>partwrit</td>
<td>12733</td>
<td>56.1</td>
<td>4</td>
<td>0</td>
<td>9922</td>
</tr>
<tr>
<td></td>
<td>1687 (17.0%) of CM partner did help their child(ren) with writing</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
### Derived WRITING variables

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<th>user-missing: 9 ((^) indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>bsawrit1</td>
<td>1379</td>
<td>6.1</td>
<td></td>
<td>21301</td>
</tr>
</tbody>
</table>

8 category variable combining information given in writeprb, hwritprb, wprbtype and wordsprb. CM reporting ‘difficulties’ or ‘no, can’t do’ treated as one category. Values: 0’no probs’ 1’writing spelling handwriting articulating’ 2’writing spelling handwriting’ 3’writing spelling articulating’ 4’writing handwriting articulating’ 5’writing spelling’ 6’writing articulating’ 7’writing handwriting’ 8’writing only’.

| bsawrit2   | 21594          | 95.2                                 |                                      | 1086    |

4 category variable counting the specific writing problems of CMs who had reported ‘difficulties’ or ‘no, can’t do’ in writeprb. Included writeprb, wprbtype (spelling), hwritprb (handwriting), and wordsprb (articulating). CM reporting ‘difficulties’ or ‘no, can’t do’ in writeprb treated as one category. Values: 1’1 difficulty’ 2’2 types of writing difficulties’ 3’3 types of writing difficulties’ 4’4 types of writing difficulties’.

### Derived variables from multi-coded redlike1-redlike5: reasons why CM wants to improve their reading

| impwkid    | 20045          | 88.4                                 |                                      | 2635    |
| impwgjob   |                |                                      |                                      |         |
| impwprom   |                |                                      |                                      |         |
| impwbjob   |                |                                      |                                      |         |
| impwself   |                |                                      |                                      |         |

### Derived variables from multi-coded redplac1-redplac9: means by which CM would improve their reading

| dowcold    | 20049          | 88.4                                 |                                      | 2631    |
| dowcolle   |                |                                      |                                      |         |
| dowcollw   |                |                                      |                                      |         |
| dowcoll    |                |                                      |                                      |         |
| dowcomc    |                |                                      |                                      |         |
| dowlib     |                |                                      |                                      |         |
| dowpc      |                |                                      |                                      |         |
| dowtv      |                |                                      |                                      |         |
| dowradio   |                |                                      |                                      |         |
| dowbook    |                |                                      |                                      |         |
SPSS SYNTAX

Type of writing difficulties Cm has

missing values writeprb hwritprb wprbtype wordsprb writimp writcors writconf writekid writenow partwrit (8,9).

compute bsawrit1 = -1.
if (writeprb = 1) bsawrit1 = 0.
if (writeprb >= 2 and (wprbtype = 1 | wprbtype = 3) and (missing(hwritprb) | hwritprb = 1) and (missing(wordsprb) | wordsprb = 1)) bsawrit1 = 1.
if (writeprb >= 2 and (wprbtype = 1 | wprbtype = 3) and (missing(hwritprb) | hwritprb = 1) and wordsprb = 2) bsawrit1 = 2.
if (writeprb >= 2 and (wprbtype = 1 | wprbtype = 3) and hwritprb = 2 and (missing(wordsprb) | wordsprb = 1)) bsawrit1 = 3.
if (writeprb >= 2 and wprbtype = 2 and (missing(hwritprb) | hwritprb = 1) and (missing(wordsprb) | wordsprb = 1)) bsawrit1 = 4.
if (writeprb >= 2 and (wprbtype = 1 | wprbtype = 3) and hwritprb = 2 and wordsprb = 2) bsawrit1 = 5.
if (writeprb >= 2 and wprbtype = 2 and hwritprb = 2 and (missing(wordsprb) | wordsprb = 1)) bsawrit1 = 6.
if (writeprb >= 2 and wprbtype = 2 and (missing(hwritprb) | hwritprb = 1) and wordsprb = 2) bsawrit1 = 7.
if (writeprb >= 2 and wprbtype = 2 and hwritprb = 2 and wordsprb = 2) bsawrit1 = 8.
missing values bsawrit1 (-1).

variable labels bsawrit1 'type of writing problems CM has'.
value labels bsawrit1 0'no probs' 1'writing spelling handwriting articulating' 2'writing spelling handwriting' 3'writing spelling articulating'
4'writing handwriting articulating' 5'writing spelling' 6'writing articulating' 7'writing handwriting' 8'writing only'.

Number of writing difficulties CM has

recode writeprb (1=0) (2,3=1) into write.
recode wprbtype (2=0) (1,3=1) into wprb.

do if (write = 1).
count bsawrit2 = write wprb hwritprb wordsprb (1).
end if.

variable labels bsawrit2 'Number of writing difficulties CM has'.
value labels bsawrit2 0'no probs' 1'one difficulty' 2'two difficulties' 3'three difficulties' 4'all four difficulties'.

frequencies
variables=bsawrit1 bsawrit2.
Reasons why CM wants to improve writing skills

frequencies
    variables=writimp wrilike1 wrilike2 wrilike3 wrilike4 wrilike5 wriplac1 wriplac2 wriplac3 wriplac4 wriplac5 wriplac6 wriplac7 wriplac8 wriplac9 .

missing values wrilike1 wrilike2 wrilike3 wrilike4 wrilike5 (8,9).

do if (wrilike1 > 0).
compute impwkid = 0.
compute impwgjob = 0.
compute impwprom = 0.
compute impwbjob = 0.
compute impwself = 0.
do repeat x = wrilike1 wrilike2 wrilike3 wrilike4 wrilike5 .
    if (x = 1) impwkid = 1.
    if (x = 2) impwgjob = 1.
    if (x = 3) impwprom = 1.
    if (x = 4) impwbjob = 1.
    if (x = 5) impwself = 1.
end repeat.
end if.

variable labels impwkid 'CM wants to improve writing to help their children'.
variable labels impwgjob 'CM wants to improve writing to help get a job'.
variable labels impwprom 'CM wants to improve writing to help get a promotion at work'.
variable labels impwbjob 'CM wants to improve writing to help get a better job'.
variable labels impwself 'CM wants to improve writing to study for own satisfaction'.

value labels impwkid impwgjob impwprom impwbjob impwself 0'not this reason' 1'yes, for this reason'.

frequencies
    variables=impwkid impwgjob impwprom impwbjob impwself .

Place where CM would go to improve writing skills

missing values wriplac1 (99).

do if (wriplac1 > 0).
compute dowcolld = 0.
compute dowcolle = 0.
compute dowcollw = 0.
compute dowcoll = 0.
compute dowcomc = 0.
compute dowllib = 0.
compute dowpc = 0.
compute dowtv = 0.
compute dowradio = 0.
compute dowbook = 0.
do repeat x = wriplac1 wriplac2 wriplac3 wriplac4 wriplac5 wriplac6 wriplac7 wriplac8 wriplac9.
    if (x = 1) dowcolld = 1.
    if (x = 2) dowcolle = 1.
    if (x = 3) dowcollw = 1.
    if (x <= 3) dowcoll = 1.
    if (x = 4) dowcomc = 1.
    if (x = 5) dowllib = 1.
    if (x = 6) dowpc = 1.
    if (x = 7) dowtv = 1.
    if (x = 8) dowradio = 1.
if (x = 9) dowbook = 1.
end repeat.
end if.

variable labels dowcolld 'CM would improve their writing on a DAY college course'.
variable labels dowcolle 'CM would improve their writing on an EVENING college course'.
variable labels dowcollw 'CM would improve their writing on a WEEKEND college course'.
variable labels dowcoll 'CM would improve their writing on ANY college course'.
variable labels dowcomc 'CM would improve their writing at a community centre'.
variable labels dowllib 'CM would improve their writing by using local library resources'.
variable labels dowpc 'CM would improve their writing by using PC packages'.
variable labels dowtv 'CM would improve their writing by using programmes on TV'.
variable labels dowradio 'CM would improve their writing by using programmes on the RADIO'.
variable labels dowbook 'CM would improve their writing by using books at home'.

value labels dowcolld dowcolle dowcollw dowcoll dowcomc dowllib dowpc dowtv dowradio dowbook
0 'not using this method' 1 'this method'.

frequencies
  variables=dowcolld dowcolle dowcollw dowcoll dowcomc dowllib dowpc dowtv dowradio dowbook
  writenow.

(see COURSE section for derived writing course variable)
## DIFFICULTIES OF HAVING BASIC SKILLS PROBLEMS

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<thead>
<tr>
<th>variable</th>
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<th>user-missing: 8 (^ indicates 98)</th>
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<tbody>
<tr>
<td>getjob</td>
<td>21047 92.8</td>
<td></td>
<td>21 0.1</td>
<td>1612</td>
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<tr>
<td>620 (38.5%) CMs with 3R problem felt affected them getting new job</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>copejob</td>
<td>21047 92.8</td>
<td></td>
<td>15 0.1</td>
<td>1618</td>
</tr>
<tr>
<td>391 (24.2%) CMs with 3R problem felt affected them coping in current job</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>gtpromot</td>
<td>21047 92.8</td>
<td></td>
<td>38 0.2</td>
<td>1595</td>
</tr>
<tr>
<td>570 (35.7%) CMs with 3R problem felt affected them getting a promotion</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>copehmbs</td>
<td>21047 92.8</td>
<td></td>
<td>6 0</td>
<td>1627</td>
</tr>
<tr>
<td>253 (15.6%) CMs with 3R problem felt affected them in managing household business</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>helpkids</td>
<td>21047 92.8</td>
<td></td>
<td>3 0</td>
<td>1630</td>
</tr>
<tr>
<td>419 (25.7%) CMs with 3R problem felt affected them being able to help their children learn. In addition, 409 (25.1%) never helped their children to read or learn</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>copeleis</td>
<td>21047 92.8</td>
<td></td>
<td>4 0</td>
<td>1629</td>
</tr>
<tr>
<td>341 (20.9%) CMs with 3R problem felt affected them pursuing other interests</td>
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</table>
### SKILLS (self-completed)

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<td>SKILL1A</td>
<td>283</td>
<td>1.2</td>
<td>3</td>
<td>22344</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(96%)</td>
</tr>
<tr>
<td></td>
<td>22344 CM reported ‘good’ ‘okay’ or ‘poor’ communicating skills. 21544 (96%) reported if they used this skill at work.</td>
<td></td>
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</tr>
<tr>
<td>SKILL1B</td>
<td>1136</td>
<td>5.0</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SKILL2A</td>
<td>283</td>
<td>1.2</td>
<td>3</td>
<td>22268</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(96%)</td>
</tr>
<tr>
<td></td>
<td>22268 CM reported ‘good’ ‘okay’ or ‘poor’ number/calculation skills. 21477 (96%) reported if they used this skill at work.</td>
<td></td>
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<tr>
<td>SKILL2B</td>
<td>2103</td>
<td>5.3</td>
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<td>21476</td>
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<td></td>
</tr>
<tr>
<td>SKILL3A</td>
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<td>1.2</td>
<td>3</td>
<td>19726</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(86%)</td>
</tr>
<tr>
<td></td>
<td>19726 CM reported ‘good’ ‘okay’ or ‘poor’ computer/IT skills. 19173 (86%) reported if they used this skill at work.</td>
<td></td>
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<tr>
<td>SKILL3B</td>
<td>3507</td>
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<td>1.2</td>
<td>3</td>
<td>22219</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(96%)</td>
</tr>
<tr>
<td></td>
<td>22219 CM reported ‘good’ ‘okay’ or ‘poor’ team working skills. 21469 (96%) reported if they used this skill at work.</td>
<td></td>
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</tr>
<tr>
<td>SKILL4B</td>
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<td>5.3</td>
<td>3</td>
<td>21466</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>(96%)</td>
</tr>
<tr>
<td></td>
<td>22297 CM reported if they were ‘good’ ‘okay’ or ‘poor’ at learning new skills. 21517 (96%) reported if they used this skill at work.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>SKILL5B</td>
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<td>3</td>
<td>22308</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>(96%)</td>
</tr>
<tr>
<td></td>
<td>22308 CM reported ‘good’ ‘okay’ or ‘poor’ problem solving skills. 21515 (96%) reported if they used this skill at work.</td>
<td></td>
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<td>SKILL7A</td>
<td>283</td>
<td>1.2</td>
<td>3</td>
<td>21909</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(94%)</td>
</tr>
<tr>
<td></td>
<td>21909 CM reported ‘good’ ‘okay’ or ‘poor’ tool use skills. 21149 (94%) reported if they used this skill at work.</td>
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<td>1.2</td>
<td>3</td>
<td>20975</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(90%)</td>
</tr>
<tr>
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<td>20975 CM reported ‘good’ ‘okay’ or ‘poor’ caring skills. 20217 (90%) reported if they used this skill at work.</td>
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<td>SKILL8B</td>
<td>2463</td>
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<td>3</td>
<td>21228</td>
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<td></td>
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<td></td>
<td></td>
<td>(92%)</td>
</tr>
<tr>
<td></td>
<td>21228 CM reported ‘good’ ‘okay’ or ‘poor’ finance/accounting skills. 20523 (92%) reported if they used this skill at work.</td>
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### COURSES

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<td>failqual</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
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<td>3404 (8.8%) failed/cot completed course. 3404 asked how many courses they had failed/not completed.</td>
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<td>84.9</td>
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<td>3401</td>
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<td>yts (bcs70 only)</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
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<td>3303 (29.5%) CMs had done a yts course. 3303 asked how many they had done, and if they were on a course now.</td>
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<td>50.5</td>
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<td>numyts</td>
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<td>85.4</td>
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<td>ytsnow</td>
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<td>1</td>
<td>3302</td>
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<tr>
<td>othgov</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
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<tr>
<td>550 (2.4%) CMs had done an ‘other’ type of Government course. 550 asked how many they had done, and if they were on a course now.</td>
<td>66</td>
<td>0.3</td>
<td>4</td>
<td>22588</td>
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<tr>
<td>numothgov</td>
<td>22130</td>
<td>97.6</td>
<td>^3</td>
<td>547</td>
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<tr>
<td>govnnow</td>
<td>22130</td>
<td>97.6</td>
<td>0.5</td>
<td>550</td>
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<tr>
<td>aptrain</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
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<tr>
<td>329 (1.5 %) CMs had done a modern apprenticeship course. 329 asked how many they had done, and if they were on a course now.</td>
<td>66</td>
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<td>4</td>
<td>22586</td>
</tr>
<tr>
<td>numap</td>
<td>22351</td>
<td>98.5</td>
<td>^3</td>
<td>329</td>
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<tr>
<td>apnow</td>
<td>22351</td>
<td>98.5</td>
<td>329</td>
<td></td>
</tr>
<tr>
<td>actrain</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
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<tr>
<td>352 (1.6%) CMs had done an access course. 3303 asked how many they had done, and if they were on a course now.</td>
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<td>0.3</td>
<td>4</td>
<td>22587</td>
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<tr>
<td>numac</td>
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<td>98.4</td>
<td>^4</td>
<td>352</td>
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<td>acnow</td>
<td>22328</td>
<td>98.4</td>
<td>352</td>
<td></td>
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<tr>
<td>wrktrain</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
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<td>7871 (34.7%) CMs had done a work-related training course. 7871 asked how many they had done, and if they were on a course now.</td>
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<td>leiscors</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
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<td>5528 (24.4%) CMs had done a course for interest or leisure. 5528 asked how many they had done, and if they were on a course now.</td>
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### Derived COURSE variables

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<td>49.4</td>
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<td>gov1</td>
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<td>22588</td>
<td>0.9</td>
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<td>apt1</td>
<td>92</td>
<td>0.4</td>
<td>22586</td>
<td>0.9</td>
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<td>access1</td>
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<td>0.4</td>
<td>22587</td>
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<td>wrt1</td>
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<tr>
<td>writ1</td>
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<td>math1</td>
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<td>22590</td>
<td>0.9</td>
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3 category variable combining information from yts and ytsnow. Values: 0'no' 1'yes, previously' 2'yes, now'.

3 category variable combining information from othgov and govnow. Values: 0'no' 1'yes, previously' 2'yes, now'.

3 category variable combining information from aptrain and apnow. Values: 0'no' 1'yes, previously' 2'yes, now'.

3 category variable combining information from actrain and acnow. Values: 0'no' 1'yes, previously' 2'yes, now'.

3 category variable combining information from wrktrain and wrktnow. Values: 0'no' 1'yes, previously' 2'yes, now'.

3 category variable combining information from leiscors and leisnow. Values: 0'no' 1'yes, previously' 2'yes, now'.

3 category variable combining information from readcors and readnow. Values: 0'no' 1'yes, previously' 2'yes, now'.

3 category variable combining information from writcors and writenow. Values: 0'no' 1'yes, previously' 2'yes, now'.

3 category variable combining information from mathcors and mathsnow. Values: 0'no' 1'yes, previously' 2'yes, now'.
SPSS SYNTAX

missing values failqual yts ytsnow othgov govnow aptrain apnow actrain acnow wrktrain wrktrnow leiscors leisnow readdcors readnow writcors writenow mathcors mathsnow (8,9).

missing values numfqual numyts numgov numap numac numwrktr numleis numread numwrite nummaths (98,99).

compute yts1 = -1.
if (yts = 2) yts1 = 0.
if (ytsnow = 2) yts1 = 1.
if (ytsnow = 1) yts1 = 2.
missing values yts1 (-1).
variable labels yts1 'CM been on YTS?'.
value labels yts1 0'no' 1'yes, previously' 2'yes, now'.

compute gov1 = -1.
if (othgov = 2) gov1 = 0.
if (govnow = 2) gov1 = 1.
if (govnow = 1) gov1 = 2.
missing values gov1 (-1).
variable labels gov1 'CM been on other government course?'.
value labels gov1 0'no' 1'yes, previously' 2'yes, now'.

compute apt1 = -1.
if (aptrain = 2) apt1 = 0.
if (apnow = 2) apt1 = 1.
if (apnow = 1) apt1 = 2.
missing values apt1 (-1).
variable labels apt1 'CM been on modern apprenticeship?'.
value labels apt1 0'no' 1'yes, previously' 2'yes, now'.

compute access1 = -1.
if (actrain = 2) access1 = 0.
if (acnow = 2) access1 = 1.
if (acnow = 1) access1 = 2.
missing values access1 (-1).
variable labels access1 'CM been on access course'.
value labels access1 0'no' 1'yes, previously' 2'yes, now'.

compute wrt1 = -1.
if (wrktrain = 2) wrt1 = 0.
if (wrktrnow = 2) wrt1 = 1.
if (wrktrnow = 1) wrt1 = 2.
missing values wrt1 (-1).
variable labels wrt1 'CM been on work-related training course'.
value labels wrt1 0'no' 1'yes, previously' 2'yes, now'.

compute leis1 = -1.
if (leiscors = 2) leis1 = 0.
if (leisnow = 2) leis1 = 1.
if (leisnow = 1) leis1 = 2.
missing values leis1 (-1).
variable labels leis1 'CM been on leisure course'.
value labels leis1 0'no' 1'yes, previously' 2'yes, now'.
compute readc1 = -1.
if (readcors = 2) readc1 = 0.
if (readnow = 2) readc1 = 1.
if (readnow = 1) readc1 = 2.
missing values readc1 (-1).
variable label readc1 'CM been on reading improvement course'.
value labels readc1  0'no' 1'yes, previously' 2'yes, now'.

compute writ1 = -1.
if (writcors = 2) writ1 = 0.
if (writenow = 2) writ1 = 1.
if (writenow = 1) writ1 = 2.
missing values writ1 (-1).
variable labels writ1 'CM been on writing improvement course'.
value labels writ1  0'no' 1'yes, previously' 2'yes, now'.

compute math1 = -1.
if (mathcors = 2) math1 = 0.
if (mathsnow = 2) math1 = 1.
if (mathsnow = 1) math1 = 2.
missing values math1 (-1).
variable labels math1 'CM been on basic maths improvement course'.
value labels math1  0'no' 1'yes, previously' 2'yes, now'.

frequencies
  variables=yts1 apt1 gov1 wrt1 access1 leis1 read1 writ1 math1.
### COMPUTER USE AT HOME and WORK

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<td>13379 (59.0%)</td>
<td>CM had a PC at home. 13379 asked how often they used the</td>
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<td>howuse01- howuse33</td>
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<td>CMs used the PC at home. 11289 asked about the ways they use a PC</td>
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<td>howuse18- howuse33 hold no information</td>
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<td>12025</td>
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<td>47.0</td>
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<td>CM use a PC at work. 12026 asked how often use a PC and the ways they use a PC</td>
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#### Derived HOME COMPUTER variables

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#### Derived WORK COMPUTER variables

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<td>CM uses home computer. Ways CM uses home computer: for word processing, WWW, e-mail, data analysis, data base work, design packages, playing games, sending/receiving faxes, using CD ROM or Encyclopedia, composing music, listening to music, photography, programming, managing home finances, spreadsheets, web design, scanning, other things, unspecified things. Values: 0'not use home PC this way' 1'yes, uses home PC this way'.</td>
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</table>
Derived variables from multi-coded howuse34-howuse46. For 12025 (64.1%) CMs who use a PC at work. Ways CM uses work computer: for word processing, WWW, e-mail, data analysis, data base work, design packages, playing games, sending/receiving faxes, using CD ROM or Encyclopedia, composing music, listening to music, photography, programming, spreadsheets, webb design, scanning, other things, unspecified things. Values: 0 'not use work PC this way' 1 'yes, uses work PC this way'.

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SPSS SYNTAX

Computer use at home

compute pchome1 = -1.
if (pchome = 2) pchome1 = 0.
if (pchome = 1 and hpcuse = 1) pchome1 = 1.
if (pchome = 1 and hpcuse = 5) pchome1 = 2.
if (pchome = 1 and hpcuse = 4) pchome1 = 3.
if (pchome = 1 and hpcuse = 3) pchome1 = 4.
if (pchome = 1 and hpcuse = 2) pchome1 = 5.
missing values pchome1 (-1).
variable labels pchome1 'Does CM have and use a PC at home?'.
value labels pchome1 0'no' 1'yes, but do not use it' 2'yes, use it less than once a week' 3'yes, use it once a week' 4'yes, use it 2-4 times a week' 5'yes, use it daily'.
frequencies
variables=pchome1.

do if (pchome1 >= 0).
compute hwp = 0.
compute hwww = 0.
compute hemail = 0.
compute hdatan = 0.
compute hdatab = 0.
compute hdesign = 0.
compute hgames = 0.
compute hfax = 0.
compute hencyrom = 0.
compute hmusiccc = 0.
compute hmusiccl = 0.
compute hphoto = 0.
compute hprog = 0.
compute hhomemefin = 0.
compute hspread = 0.
compute hwebdes = 0.
compute hscan = 0.
compute hother = 0.
compute hunspec = 0.
do repeat x = howuse01 howuse02 howuse03 howuse04 howuse05 howuse06 howuse07 howuse08 howuse09 howuse10 howuse11 howuse12 howuse13 howuse14 howuse15 howuse16 howuse17 .
if (x = 1) hwp = 1.
if (x = 2) hwww = 1.
if (x = 3) hemail = 1.
if (x = 4) hdatan = 1.
if (x = 5) hdatab = 1.
if (x = 6) hdesign = 1.
if (x = 7) hgames = 1.
if (x = 8) hfax = 1.
if (x = 9) hencyrom = 1.
if (x = 10) hmusiccc = 1.
if (x = 11) hmusiccl = 1.
if (x = 12) hphoto = 1.
if (x = 13) hprog = 1.
if (x = 14) hhomemefin = 1.
if (x = 15) hspread = 1.
if (x = 16) hwebdes = 1.
if (x = 17) hscan = 1.
if (x = 18) hother = 1.
if (x = 19) hunspec = 1.
end repeat.
end if.

variable labels hwp 'CM uses home PC for word processing'.
variable labels hwww 'CM uses home PC for WWW'.
variable labels hemail 'CM uses home PC for e-mail'.
variable labels hdatan 'CM uses home PC for data analysis'.
variable labels hdatab 'CM uses home PC for data base work'.
variable labels hdesign 'CM uses home PC for design packages'.
variable labels hgames 'CM uses home PC for playing games'.
variable labels hfax 'CM uses home PC for sending/receiving faxes'.
variable labels hencyrom 'CM uses home PC for using CD ROM or Encyclopedia'.
variable labels hmusicc 'CM uses home PC for composing music'.
variable labels hmusicl 'CM uses home PC for listening to music'.
variable labels hphoto 'CM uses home PC for photography'.
variable labels hprog 'CM uses home PC for programming'.
variable labels hhomefin 'CM uses home PC for managing home finances'.
variable labels hspread 'CM uses home PC for using spreadsheets'.
variable labels hwebdes 'CM uses home PC for webb design'.
variable labels hscan 'CM uses home PC for scanning'.
variable labels hother 'CM uses home PC for other things'.
variable labels hunspec 'CM uses home PC for unspecified things'.
value labels hwp hwww hemail hdatan hdatab hdesign hgames hfax hencyrom hmusicc hmusicl hphoto hprog hhomefin hspread hwebdes hscan hother hunspec 0'not use home PC this way' 1'yes, uses home PC this way'.

frequencies
  variables=pchome1 hwp hwww hemail hdatan hdatab hdesign hgames hfax hencyrom hmusicc hmusicl hphoto hprog hhomefin hspread hwebdes hscan hother hunspec .

**Computer use at work**

compute pcwork1 = -1.
if (pcwork = 2) pcwork1 = 0.
if (pcwork = 1 and wpcuse = 4) pcwork1 = 1.
if (pcwork = 1 and wpcuse = 3) pcwork1 = 2.
if (pcwork = 1 and wpcuse = 2) pcwork1 = 3.
if (pcwork = 1 and wpcuse = 1) pcwork1 = 4.
missing values pcwork1 (-1).
variable labels pcwork1 'Does CM use a PC at work?'.
value labels pcwork1 0'no' 1'yes, use it less than once a week' 2'yes, use it once a week' 3'yes, use it 2-4 times a week' 4'yes, use it daily'.

frequencies
  variables=pcwork1.

do if (pcwork1 >= 0).
compute wwp = 0.
compute wwwww = 0.
compute wemail = 0.
compute wdatan = 0.
compute wdatab = 0.
compute wdesign = 0.
compute wgames = 0.
compute wfax = 0.
compute wencyrom = 0.
compute wmusicc = 0.
compute wmusicl = 0.
compute wphoto = 0.
compute wprog = 0.
compute wother = 0.
do repeat x = howuse34 howuse35 howuse36 howuse37 howuse38 howuse39 howuse40 howuse41
   howuse42 howuse43 howuse44 howuse45 howuse46 .
   if (x = 1) wwp = 1.
   if (x = 2) wwww = 1.
   if (x = 3) wemail = 1.
   if (x = 4) wdatan = 1.
   if (x = 5) wdatab = 1.
   if (x = 6) wdesign = 1.
   if (x = 7) wg1ames = 1.
   if (x = 8) wfax = 1.
   if (x = 9) wencyrom = 1.
   if (x = 10) wmusicc = 1.
   if (x = 11) wmusicl = 1.
   if (x = 12) wphoto = 1.
   if (x = 13) wprog = 1.
   if (x = 14) wother = 1.
end repeat.
end if.

variable labels wwp 'CM uses work PC for word processing'.
variable labels wwww 'CM uses work PC for WWW'.
variable labels wemail 'CM uses work PC for e-mail'.
variable labels wdatan 'CM uses work PC for data analysis'.
variable labels wdatab 'CM uses work PC for database work'.
variable labels wdesign 'CM uses work PC for design packages'.
variable labels wg1ames 'CM uses work PC for playing games'.
variable labels wfax 'CM uses work PC for sending/receiving faxes'.
variable labels wencyrom 'CM uses work PC for using CD ROM or Encyclopedia'.
variable labels wmusicc 'CM uses work PC for composing music'.
variable labels wmusicl 'CM uses work PC for listening to music'.
variable labels wphoto 'CM uses work PC for photography'.
variable labels wprog 'CM uses work PC for programming'.
variable labels wother 'CM uses work PC for other things'.

value labels wwp wwww wemail wdatan wdatab wdesign wg1ames wfax wencyrom wmusicc wmusicl
   wphoto wprog wother
0 'not use' 1 'uses'.

frequencies
   variables=wwp wwww wemail wdatan wdatab wdesign wg1ames wfax wencyrom wmusicc wmusicl
   wphoto wprog wother.
**DRUG QUESTIONS**

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>CANNABIS</td>
<td>283</td>
<td>1.2</td>
<td>13</td>
<td>0.1</td>
</tr>
<tr>
<td>ECSTASY</td>
<td>283</td>
<td>1.2</td>
<td>12</td>
<td>0.1</td>
</tr>
<tr>
<td>AMPHET</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>LSD</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>POPPER</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>MAGMUSH</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>COCAINE</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>TEMAZ</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>SEMERON</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>KETAMINE</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>CRACK</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>HEROIN</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>METHAD</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>OTHDRUG</td>
<td>283</td>
<td>1.2</td>
<td>11</td>
<td>0</td>
</tr>
</tbody>
</table>

**DRUG-DRUG6**: multi-coded string variables for the 614 CMs who answered 'yes' to othdrug. 22378 are 'numeric missing' leaving just 302 individual answers in drug, 37 in drug2, 13 in drug3, 8 in drug4, 4 in drug5, 2 in drug6. Each answer needs to be converted from string to numeric.

**DERIVED DRUG VARIABLES**

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>anydrug1</td>
<td>347</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Takes information from the 12 individual illegal drug questions (information in othdrug not coded yet). Counts the number of illegal drugs CM has taken in the last 12 months. 13.5% of CMs have taken at least 1 illegal drug in last 12 months.</td>
<td></td>
</tr>
<tr>
<td>drugs1</td>
<td>347</td>
<td>1.5</td>
<td>347</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Collapses anydrug1 variable into 0'not taken any drug’ 1'yes, taken at least 1 illegal drug in last 12 months’.</td>
<td></td>
</tr>
<tr>
<td>anydrug2</td>
<td>347</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Takes information from the 12 individual illegal drug questions (information in othdrug not coded yet). Counts the number of illegal drugs CM has ever taken. 43.5% of CMs have taken at least 1 illegal drug in their lifetime.</td>
<td></td>
</tr>
<tr>
<td>drugs2</td>
<td>347</td>
<td>1.5</td>
<td>347</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Collapses anydrug2 variable into 0'never taken an illegal drug’ 1'yes, taken at least 1 illegal drug in lifetime’.</td>
<td></td>
</tr>
</tbody>
</table>
SPSS SYNTAX

missing values cannabis ecsacy amphet lsd popper magmush cocaine temaz semeron ketamine crack heroin methad othdrug (8,9).

do if (semeron = 1).
count anydrug1 = cannabis ecsacy amphet lsd popper magmush cocaine temaz ketamine crack heroin methad (3) /
   anydrug2 = cannabis ecsacy amphet lsd popper magmush cocaine temaz ketamine crack heroin methad (2, 3).
end if.

variable labels anydrug1 'CM taken any illegal drug in last 12 months'.
variable labels anydrug2 'CM ever taken any illegal drug'.

frequencies variables=anydrug1 anydrug2.

recode anydrug1 (0=0) (1 thru 12=1) into drugs1 .
recode anydrug2 (0=0) (1 thru 12=1) into drugs2.
variable labels drugs1 'CM taken any illegal drug in last 12 months'.
variable labels drugs2 'CM ever taken any illegal drug'.
value labels drugs1 drugs2 0'no' 1'yes'.

frequencies variables=drugs1 drugs2.
## DIET FOOD EXERCISE

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 ((^\ddagger) indicates 98)</th>
<th>user-missing: 9 ((^\ddagger) indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>fruit</td>
<td>66</td>
<td>0.3</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>eggs</td>
<td>66</td>
<td>0.3</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>salads</td>
<td>66</td>
<td>0.3</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>cookedveg</td>
<td>66</td>
<td>0.3</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>oilfried</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>chops</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>sweets</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>cakes</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>whlbread</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>othbread</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>redmeat</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>poultry</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>fish</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>pulses</td>
<td>66</td>
<td>0.3</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>veggy</td>
<td>66</td>
<td>0.3</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

808 (3.6%) CMs vegetarian. 808 asked the type of vegetarian they were vegtype

spshdiet

1061 (4.7%) CMs followed a special diet. 1061 asked the type of special diet they followed. Only 1009 (95% of 1061) asked if the diet had been recommended by a doctor diettype

dietdoc

17263 (76.3%) CMs do regular exercise. 17263 asked how often they take regular exercise and if they become breathless/sweaty during exercis breathe

sweat

---

NCDS/BCS70 1999-2000 Follow-ups: Guide to the Combined Dataset (June 2001) APPENDICES – A87
### EATING PROBLEMS

<table>
<thead>
<tr>
<th>variable</th>
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<tr>
<td>eatprob</td>
<td>66</td>
<td>0.3</td>
<td>6</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td></td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22587</td>
<td></td>
<td>22587</td>
</tr>
</tbody>
</table>

729 (3.2%) CMs reported an eating disorder. 729 asked name of eating problem(s) they have had in multi-coded variables

- eating1-
eating4
  (eating4 holds no information)

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>el1age</td>
<td>21951</td>
<td>96.8</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>%</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>728</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

349 (47.9%) CMs had an eating disorder in last 12 months. 349 asked if they had seen a doctor re: eating disorder

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98)</th>
<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>el1doc</td>
<td>22331</td>
<td></td>
<td></td>
<td>349</td>
</tr>
<tr>
<td></td>
<td></td>
<td>%</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>349</td>
<td></td>
<td></td>
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</tbody>
</table>

### Derived EATING PROBLEMS variables

<table>
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<tr>
<th>variable</th>
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<th>user-missing: 9 (^ indicates 99)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>eatprnow</td>
<td>95</td>
<td>0.4</td>
<td></td>
<td>22585</td>
</tr>
<tr>
<td></td>
<td></td>
<td>%</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>22585</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 category variable combining information given in eatprob and el112m. Values: 0'no eating problems’ 1'previous eating problem’ 2'current eating problem’

- bulimia
- anorexia
- swallow
- otheatpr

2 category variables. If CM gave valid answer to eatprob, used information in multi-coded eating1-
eating4 variables. Values: 0'not this eating problem’ 1'yes, this eating problem
SPSS SYNTAX

missing values eatprob eating1 eating2 eating3 eating4 el112m el1doc (8,9).
missing values el1age (98,99).

compute eatprnow = -1.
if (eatprob = 2) eatprnow = 0.
if (eatprob = 1 and el112m = 2) eatprnow = 1.
if (eatprob = 1 and el112m = 1) eatprnow = 2.
missing values eatprnow (-1).
variable labels eatprnow 'CM suffers from eating disorders?'.
value labels eatprnow 0'no eating problems' 1'previous eating problem' 2'current eating problem'.

frequencies
  variables=eatprnow.

do if (eatprob <= 2).
  compute bulemia = 0.
  compute anorexia = 0.
  compute swallow = 0.
  compute otheatpr = 0.
  do repeat x = eating1 eating2 eating3 eating4.
  if (x = 1) bulemia = 1.
  if (x = 2) anorexia = 1.
  if (x = 3) swallow = 1.
  if (x = 4) otheatpr = 1.
  end repeat.
end if.
variable labels bulemia 'cm has suffered from bulemia'.
variable labels anorexia 'cm has suffered from anorexia'.
variable labels swallow 'cm has suffered from swallowing difficulties'.
variable labels otheatpr 'cm has suffered from otheatpr'.
value labels bulemia anorexia swallow otheatpr 0'not this eating problem' 1'yes, this eating problem'.

frequencies
  variables=bulemia anorexia swallow otheatpr .
### SMOKING QUESTIONS

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 ((^) indicates 98; (^^)indicates 998)</th>
<th>user-missing: 9 ((^) indicates 99; (^^)indicates 999)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>smoking</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>nofcigs</td>
<td>6222 (27.4%) CMs smoke every day. 6222 asked how many they smoke a day</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>exsmoker</td>
<td>6347 (28%) CMs ex-smokers or occasional smokers. 6347 asked if ever smoked cigarettes regularly</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>agequit</td>
<td>4532 (71.4%) CMs had smoked regularly. 4532 asked age last smoked regularly</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>othsmoke</td>
<td>5864 (25.9%) live with someone who smokes in CM home. 5864 asked whether this was spouse/partner or someone else</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>whosmoke</td>
<td>4521 (77.1%) CMs said partner smoked. 4521 asked how many spouse/partner smoked a day</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Derived SMOKING variable</th>
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<th>user-missing: 8 ((^) indicates 98; (^^)indicates 998)</th>
<th>user-missing: 9 ((^) indicates 99; (^^)indicates 999)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>smoke</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
</tbody>
</table>

6 category variables combining information from smoking and nofcigs. Values: 0 ‘never smoked’, 1 ‘ex-smoker’, 2 ‘occasional smoker’, 3 ‘up to 10 a day’, 4 ‘11 to 20 a day’, 5 ‘more than 20 a day’.
**SPSS SYNTAX**

missing values smoking othsmoke partcigs (8,9).
missing values nofcigs (999).
missing values agequit (99).

calculate smoke = -1.
if (smoking = 1) smoke = 0.
if (smoking = 2) smoke = 1.
if (smoking = 3) smoke = 2.
if (smoking = 4 and nofcigs <= 10) smoke = 3.
if (smoking = 4 and (nofcigs > 10 and nofcigs <=20)) smoke = 4.
if (smoking = 4 and nofcigs > 20) smoke = 5.
missing values smoke (-1).
variable labels smoke 'CM smoking habits'.
value labels smoke 0'never smoked' 1'ex smoker' 2'occassional smoker' 3'up to 10 a day' 4'11 to 20 a day' 5'more than 20 a day'.
frequencies
  variables=smoke.
### DRINKING QUESTIONS

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98; ^^indicates 998)</th>
<th>user-missing: 9 (^ indicates 99; ^^indicates 999)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>drinks</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>66</td>
<td>0.3</td>
<td>7</td>
<td>0.1</td>
</tr>
</tbody>
</table>

18260 (80.7%) CMs drank alcohol regularly (daily, weekly or monthly). 18260 asked how many of each type of alcoholic drink they had in last 7 days prior to interview.

- **beer**
  - n: 18244
  - %: 99.9

- **spirits**
  - n: 18243
  - %: 99.9

- **wine**
  - n: 18256
  - %: 99.9

- **sherry**
  - n: 18258
  - %: 99.9

- **pops**
  - n: 18258
  - %: 99.9

- **othdrink**
  - n: 18259
  - %: 99.9

#### Derived DRINKING variables

<table>
<thead>
<tr>
<th>variable</th>
<th>system-missing</th>
<th>user-missing: 8 (^ indicates 98; ^^indicates 998)</th>
<th>user-missing: 9 (^ indicates 99; ^^indicates 999)</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
<tr>
<td>drkunits</td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>44250</td>
<td></td>
<td>18220</td>
<td></td>
</tr>
</tbody>
</table>

Continuous variable giving total number of alcohol units CM had in 7 days prior to interview. Combines information given in beer, spirits, wine, sherry and pops.

Range from 0-427. Mean: 19.26, Median: 11.00, sd: 25.77

- **drkcut**
  - n: 22181
  - %: 99.9

- **drkcrit**
  - n: 22187
  - %: 99.9

- **drkbad**
  - n: 22187
  - %: 99.9

- **drkhand**
  - n: 22187
  - %: 99.9

- **drkwork**
  - n: 18466
  - %: 99.9

3 category variable combining cage1 and cage2. Values: 0'no' 1'yes, previously' 2'yes, last 12 months'.

3 category variable combining cage3 and cage4. Values: 0'no' 1'yes, previously' 2'yes, last 12 months'.

3 category variable combining cage5 and cage6. Values: 0'no' 1'yes, previously' 2'yes, last 12 months'.

3 category variable combining cage7 and cage8. Values: 0'no' 1'yes, previously' 2'yes, last 12 months'.

3 category variable combining cage9 and cage10. Values: 1'yes, special occasions' 2'yes, 2 or 3 times a month' 3'yes, 2 or 3 times a week' 4'yes, most days'.
**SPSS SYNTAX**

missing values drinks (8,9).
missing values beer spirits wine sherry pops (998,999).
missing values othdrink (8).

compute drkunits =((beer * 2) + spirits + wine + sherry + pops).
variable labels drkunits 'CM alcohol units in a week'.

frequencies
variables=drkunits.

missing values cage1 cage2 cage3 cage4 cage5 cage6 cage7 cage8 cage9 cage10 (9).

compute drkcut = -1.
if (cage1 = 2) drkcut = 0.
if (cage1 = 1 and cage2 = 2) drkcut = 1.
if (cage1 = 1 and cage2 = 1) drkcut = 2.
missing values drkcut (-1).
variable labels drkcut 'CM felt should cut down on drinking?'.

compute drkcrit = -1.
if (cage3 = 2) drkcrit = 0.
if (cage3 = 1 and cage4 = 2) drkcrit = 1.
if (cage3 = 1 and cage4 = 1) drkcrit = 2.
missing values drkcrit (-1).
variable labels drkcrit 'CM felt criticised about drinking?'.

compute drkbad = -1.
if (cage5 = 2) drkbad = 0.
if (cage5 = 1 and cage6 = 2) drkbad = 1.
if (cage5 = 1 and cage6 = 1) drkbad = 2.
missing values drkbad (-1).
variable labels drkbad 'CM felt bad/guilty about drinking?'.

compute drkhand = -1.
if (cage7 = 2) drkhand = 0.
if (cage7 = 1 and cage8 = 2) drkhand = 1.
if (cage7 = 1 and cage8 = 1) drkhand = 2.
missing values drkhand (-1).
variable labels drkhand 'CM had drink to steady hands?'.

compute drkwork = -1.
if (cage9 = 2) drkwork = 0.
if (cage9 = 1 and cage10 = 4) drkwork = 1.
if (cage9 = 1 and cage10 = 3) drkwork = 2.
if (cage9 = 1 and cage10 = 2) drkwork = 3.
if (cage9 = 1 and cage10 = 1) drkwork = 4.
missing values drkwork (-1).
variable labels drkwork 'CM had drink at work?'.

value labels drkcut drkcrit drkbad drkhand 0'no' 1'yes, previously' 2'yes, last 12 months'.
value labels drkwork 0'no' 1'yes, special occasions' 2'yes, 2 or 3 times a month' 3'yes, 2 or 3 times a week' 4'yes, most days'.

frequencies
variables=drkcut drkcrit drkbad drkhand drkwork.
## ACCIDENT QUESTIONS

| variable  | system-missing | user-missing: 98 (^
|           | n       | %     | indicates 998) | n   | %     | user-missing: 99 (^
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>indicates 999)</th>
<th>n</th>
<th>%</th>
<th>valid n</th>
</tr>
</thead>
<tbody>
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<td>accidan1</td>
<td>66</td>
<td>0.3</td>
<td>8</td>
<td>0</td>
<td>24</td>
<td>0.1</td>
</tr>
</tbody>
</table>

Multi-coded questions ask if CM had an accident, and if yes, what type of accident.

12458 (55%) reported no accidents with 10124 (45%) reporting they had some kind of accident. These CMs asked how many accidents they had had in total, the age and type of their most recent accident.

| accidno   | 12524   | 55.2  | ^10            | 0.1 | ^42   | 0.4     | 10104 |
| accage    | 12576   | 55.4  | ^1             | 0   | ^18   | 0.2     | 10085 |
| accwhy    | 12576   | 55.4  | 1              | 0   | 2     | 0       | 10101 |

### Derived ACCIDENT variables

| variable  | system-missing | user-missing: 98 (^
|           | n       | %     | indicates 998) | n | %     | user-missing: 99 (^
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>indicates 999)</th>
<th>n</th>
<th>%</th>
<th>valid n</th>
</tr>
</thead>
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<td>0.4</td>
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<td>accroadd</td>
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<td>accwork</td>
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<td>accschcl</td>
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<tr>
<td>accother</td>
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<tr>
<td>vassault</td>
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</tr>
<tr>
<td>asssex</td>
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</tr>
</tbody>
</table>

2-category derived variables from multi-coded accidan1-accidan9. Each variable gives % experiencing type of accident: road accident (pedestrian), road accident (driver/passenger), at work, at home, at school/college, playing sport, other type, violent assault, sexual assault. Values: 0 'not experienced' 1 'yes, experienced'.
SPSS SYNTAX

missing values accidan1 (98,99).

frequencies
   variables=accidan1 accidan2 accidan3 accidan4 accidan5 accidan6 accidan7 accidan8 accidan9 accidno accage accwhy.

do if (accidan1 >= 0).
   compute accroadp = 0.
   compute accroadd = 0.
   compute accwork = 0.
   compute acchome = 0.
   compute accschcl = 0.
   compute accsport = 0.
   compute accother = 0.
   compute vassault = 0.
   compute asssex = 0.
   do repeat x = accidan1 accidan2 accidan3 accidan4 accidan5 accidan6 accidan7 accidan8 accidan9.
      if (x = 1) accroadp = 1.
      if (x = 2) accroadd = 1.
      if (x = 3) accwork = 1.
      if (x = 4) acchome = 1.
      if (x = 5) accschcl = 1.
      if (x = 6) accsport = 1.
      if (x = 7) accother = 1.
      if (x = 8) vassault = 1.
      if (x = 9) asssex = 1.
   end repeat.
end if.

variable labels accroadp 'CM experienced road accident as pedestrian'.
variable labels accroadd 'CM experienced road accident as driver/passenger'.
variable labels accwork 'CM experienced accident at work'.
variable labels acchome 'CM experienced accident at home'.
variable labels accschcl 'CM experienced accident at school/college'.
variable labels accsport 'CM experienced accident when doing sport'.
variable labels accother 'CM experienced other sort of accident'.
variable labels vassault 'CM experienced violent assault or mugging'.
variable labels asssex 'CM experienced sexual assault'.

value labels accroadp accroadd accwork acchome accschcl accsport accother vassault asssex 0'not experienced' 1 'yes, experienced'.

frequencies
   variables=accroadp accroadd accwork acchome accschcl accsport accother vassault asssex .
APPENDIX 6: Problems with reporting of GCSEs

Documentation produced by Andrew enkins of the Institute of Education relating to the reporting of GCSEs is reproduced below.

Queries about the contents of this appendix should be directed to the User Support Group (cohort@cls.ioe.ac.uk)

Report on GCSE date errors in NCDS/BCS 2000 (Andrew Jenkins)

This report summarises the findings of a check on the dates at which cohort members in NCDS/BCS 2000 claim to have obtained their GCSEs.

1. The Extent of the Problem

The earliest date at which it appears to be possible to have obtained a GCSE is 1988, as indicated by the following quotations:

‘GCSE was introduced in September 1986, with the first exams taking place in Summer 1988. It replaced GCE ‘O’ level and CSE’ (British Qualifications, 25 ed, 1994, Kogan Page).

‘Pupils leaving school in Summer 1988 sat either GCSEs or a mixture of ‘O’ levels and CSEs (and some sat all three types of exam)’. Dept of Education and Science, Statistics of School Examinations, 1990.

‘GCSE examinations were introduced in 1988. The final GCE ‘O’ levels examinations for home students were held in the winter session 1987, with summer 1987 being the final session for CSE exams’. Dept for Education, Statistics of School Examinations, 1991.

Some 94 NCDS cohort members and over 1,000 BCS cohort members (CMs) are reporting having obtained one or more GCSEs before 1988 in the 2000 sweep of the data. All of the 94 NCDS CMs and the first 200 BCS CMs have been checked against earlier sweeps of the NCDS/BCS surveys.

2. GCSE Date Errors for the NCDS

In the 2000 sweep of the data, those NCDS CMs who had participated in the previous sweep in 1991 were asked to supply information on all qualifications which they had obtained since 1991; those who were absent from the previous sweep were asked about all qualifications which they had obtained since 1974, or school leaving age. Asking for information over such a long spell of time is very likely to introduce inaccuracies due to imperfect recall. However, for NCDS, the 2000 sweep represents the sixth follow-up on the lives of cohort members which means that there is potentially a lot of information in earlier sweeps which we can use for checking. Back in 1978, schools and colleges attended by cohort members were contacted and asked to supply details of the qualifications which NCDS CMs had obtained. This is a valuable resource, since it represents an objective source of information on qualifications obtained. The main drawback is that, obviously, it only covers the period up to 1978. In what follows it is referred to as the EXAMs file. It contains data on the number of qualifications obtained, and also some data on the subjects of qualifications. NCDS IV (1981) appears to contain little or nothing on qualifications obtained, but NCDS V (1991) is more informative. In NCDS V CMs were asked (a) about qualifications ever obtained and (b) about qualifications obtained since 1981. Note that the NCDS questionnaire did ask for GCSEs, as well as O levels and CSEs. The main drawback of NCDS V is that it does not tell us about the number of qualifications.
For example, CMs were asked if they had CSEs at grades 2-5, but were not asked to report how many they had obtained. It also, of course, has problems of recall errors. The EXAMS file, supplemented by NCDS V, then, are the main sources which we can use to check the accuracy of the data in NCDS VI (2000).

A detailed case-by-case listing for each of the 94 NCDS records in question is contained in Appendix 1, and this should be referred to when considering the summary given here.

Fortunately, most of the 94 cases were present in the EXAMS file, and since the majority of erroneous cases were reporting that they got their GCSEs in the 1973 to 1976 period, the data contained in the EXAMS file is relevant. In more detail, all but ten of the 94 cases were present in the EXAMS file. The cases which were not in EXAMS were cases 2, 16, 26, 45, 62, 74, 80, 83, 91, 93. Out of these, five (16, 26, 45, 62, 83) were present in NCDS 5. There is no data for the remaining five.

For some of the remaining cases, EXAMS file data was found to be not relevant because they were reporting GCSE qualifications after 1978 but fortunately, this applied to only a small number of cases. These cases were (3, 11, 18, 30, 77, 81, 82). Some of these (3, 30, 82) were covered by NCDS V, but the remaining 4 were not.

In sum, then, there were only 9 cases where data could not be obtained from earlier sweeps to check the GCSE errors in NCDS VI.

The majority of those for whom data is available would appear to have CSEs rather than the GCSEs reported in NCDS VI. However, some have O levels, and some a mixture of O levels and CSEs. To give some specific examples, cases 13 and 15 are just two examples of a straightforward mix-up between GCSEs and CSEs (for case 13 there is also a small difference in number of GCSE/CSEs reported – 7 in the EXAMS file and 6 in 2000 sweep). In cases 9 and 37, however, GCSEs and O levels would appear to have been muddled up by the CMs concerned. Although a good many cases appear to show confusion between GCSEs and either O levels or CSEs, some cases are less simple. For instance, in case 94, there is a huge discrepancy between the number of O levels in the EXAMS file and the number of GCSEs listed in NCDS VI. Cases 19 and 52 are other cases where there is little evidence in the EXAMS file that the qualifications reported in NCDS VI were actually obtained. On the other hand, some cases can be easily sorted out even in the absence of data. Case 2 shows duplication and the GCSE data can be deleted.

It is good that we have some data to check NCDS VI against for most of the 94 problem cases. Most of the GCSEs would appear to be CSEs, in fact, but some cases they are O levels or a mixture of O levels and CSEs, and in some cases it is not simple to decide what the best answer is. Nonetheless, it is probably best to deal with them on a case by case basis rather than adopting a simple but inaccurate solution such as simply recoding all GCSEs to O levels or all GCSEs to CSEs.

3. GCSE date errors among a sample of BCS 2000 CMs.

Because there are such a large number of GCSE errors among the BCS cohort, it has only been possible to look at the first 200 of these (rather less than a fifth of the total).

The BCS CMs were one of the last cohorts to sit O levels and CSEs as their school-leaving exams before they were replaced by GCSEs. BCS CMs should only have GCSEs if they stayed in education to at least age 18, or subsequently returned to study for a qualification.

The only source of data for checking the responses in BCS 2000 is the earlier BCS survey conducted in 1996. Questions about qualifications in the BCS 1996 survey were asked in the order: CSE, O level, GCSE, rather than the order GCSE, O level, CSE in BCS 2000. Thus checking BCS 2000 against BCS 1996 should help to root out errors which may have arisen from the order in which the questions were asked in BCS 2000. However, BCS 1996 had a relatively small sample size (n = 9,003), so many of those in BCS 2000 may not be present in BCS 1996.

Of the 200 BCS CMs checked, some 134 were also present in BCS 96. Out of these 134, 42 were also reporting GCSEs in BCS 96 (although not necessarily the same number as in BCS 2000); 17 provided no information about qualifications in BCS 96, and 75 did not report any GCSEs in BCS 96. Detailed information on each case is presented in Appendix 2.
Among the 134 for whom 1996 data are available it is usually possible to make some reasonable guess as to what should be done about the erroneous GCSE data in BCS 2000. For example, it is clear that in cases 8 and 11 the GCSE data should be recoded to O levels, while in case 41 the GCSEs should be recoded as CSEs. Other cases are not quite so obvious, and some, where there are large discrepancies between 1996 and 2000 (e.g. cases 23, 30) or conversely where errors have been repeated (e.g. 31) are fairly puzzling. The real difficulty is, however, that we have a substantial number of cases not present in 1996, and so there is no data to check the BCS 2000 results against.

4. O levels and CSEs after 1988 reported by CMs in NCDS/BCS 2000

I have also had a quick look at whether any NCDS cohort members are reporting having obtained O levels after they were (presumably) phased out in 1988. Among all the NCDS CMs, some 59 had reported one or more O levels with a date post 1988. The dates for the reported O levels were all in the 1990s. The source of the error is likely to be either that (a) they have actually got GCSEs rather than O levels or (b) a mistake was made inputting the data, so that the O level was actually obtained in, say, 1974 but this was coded as 1994.

Now 47 of the 59 were also present in NCDS V, which means that they were (or should have been) only asked questions about qualifications obtained since 1991. This would make it unlikely that error (b) occurred. The data do indeed show that most of these 47 were only reporting O levels obtained in the 1990s: 28 reported a single O level obtained in the 1990s and no earlier O levels; a further 13 reported two O levels obtained in the 1990s and no O levels. However, the remaining six of the 47, despite being present in NCDS V in 1991, also reported O levels obtained in both the 1970s and the 1990s.

For the 12 not present in 1991, it is difficult to discriminate between the (a) and (b) errors listed above.

So it is not possible to resolve all the cases, but for many recoding to GCSE would be a sensible solution.

Only two NCDS CMs reported CSEs after 1988.

For BCS, there appear to be 133 cases in which CMs are reporting O levels after 1988, and 32 cases of CSEs after 1988 but these have not been studied in any detail.
Problems in Using the NCDS/BCS 2000 Data (Andrew Jenkins 27/3/2001)

1) The fact that there are three different sub-groups in the data, namely, the BCS whose qualifications are recorded from 1986; some NCDS who also participated in 1991 and so data on them is from 1991 onwards, and other NCDS who missed out last time and so have data in current sweep back to 1974 caused us some confusion. I think this will not be clear to other potential users and needs to be flagged very clearly in the documentation.

2) As you know, merging data with earlier sweeps is far from straightforward because of confusion about chrtid, and serial variables in the different sweeps. This has been a major headache for the QCA project where we needed to merge different sweeps.

3) Many of the qualification variables have 98 or 99 (or in some cases 8,9 or 9998, 9999) as value labels, but these are not defined. Presumably these are missing values/could not say/would not say, but they need to be defined. This problem is fairly minor for some variables e.g the year people got their CSEs (if they got them in a single year) = cseyrq and this has 6 people coded as having got their CSEs in either 9998 or 9999; but much more serious for other variables e.g 'how many CSEs did you get at grade 1' (edcse1) has 120 people coded as 99 and one coded as 98. Some cases (2,164 for this variable) are also coded as zero but this obviously doesn't cover all the people who have not got a CSE. Why are some coded zero and not others?

4) Problem 3 also contributes to making it very difficult to get consistent answers to relatively simple questions such as how many people in the sample have got a CSE.

One way to answer this is to use the derived variable numcse. This reports that 4,621 have a value for this answer and we can deduct the number reporting zero CSEs (251) to work out the number with one or more CSEs (4621-251= 4370).

Another approach to the same question is to look at the variables edqtyp14 to edqtyp26 which report whether individual has got particular qualifications. If we use these variables to create a dummy variable, ncse, taking value 1 if individual has got CSE and zero if not, as follows

```
compute ncse=0.
if any(3,edqtyp14,edqtyp15,edqtyp16,edqtyp17,edqtyp18, edqtyp19,edqtyp20,edqtyp21,edqtyp22,edqtyp23,edqtyp24,edqtyp25, edqtyp26) ncse=1.
execute .
```

(note that 3 is the code for CSE for these variables).

Doing this and running frequencies yields the answer that 4,621 have got (at least one) CSE. Thus we have two answers to the question how many have got one or more CSEs – is it 4,621 or 4,370?

On closer inspection, it looks as if some of those reporting a qualification in the edqtyp group of variables have not in fact got it, so we have tended to use variables such as numcse, knocking out the zeros and 98s etc. But it would be good if we could get consistent answers to the question whichever way it was looked at.

Note that this issue arises with the academic educational qualifications (edqtyp14 to edqtyp26) and with a similar set of vocational qualifications voctyp12 to voctyp22.

5) If the variable Dmpart=1 this implies that NCDS CM was included in 1991 sweep and therefore should not have pre 91 qualifications included on current sweep. However, there are individuals with Dmpart=1 and qualifications recorded with pre 91 dates. For example, with A levels, if we take edyear56, the year in which people got their first A level, then 105 of the 179 individuals with an A
level in NCDS and with Dmpart=1 are recorded as having got their A level before 1991 (mostly in 1976). This problem also arises with other qualifications. Is this because some individuals who did participate in 1991 have nonetheless had their qualifications recorded again in 2000 or is the Dmpart variable faulty in that it is misallocating significant numbers of people (my money’s on the former, I think).

6) As already mentioned, large nos of the BCS people are claiming to have obtained GCSEs in 1986 when they were 16. My impression is that GCSE was not introduced until about 1988 and that many respondents have just got mixed up with O levels and CSEs. Conversely, some people are reported as having got CSEs and O levels after the late 1980s when presumably they had been abolished.

7) Proxy individuals have also caused a little confusion since the variables in which they report qualifications have very similar names to the variable names for the rest of the sample. Again this is probably just be a case of flagging very clearly that they are there in the documentation.

8) There are a couple of typos, as well:

Labelling of the variable eddiped incorrect. Should be ‘Does CM know the year s/he got their Dip H Ed’ not ‘Year obtained Dip H Ed’.

The variable edgcse2 is labelled as ‘number of GCSEs obtained at grades D-E’; should be ‘number of GCSEs obtained at grades D-G’, (?) as with other qualifications such as AS levels.
Summary of Results of Checking Dates at which CM's obtained GCSEs in NCDS/BCS 2000.

Earliest Dates at which a GCSE could have been obtained:

The earliest date at which it appears to be possible to have obtained a GCSE is 1988 (see the quotations below). Some 94 NCDS cohort members and over 1,000 BCS cohort members are reporting having obtained one or more GCSEs before 1988 in the 2000 sweep of the data.

‘GCSE was introduced in September 1986, with the first exams taking place in Summer 1988. It replaced GCE ‘O’ level and CSE’ (British Qualifications, 25 ed, 1994, Kogan Page).

‘Pupils leaving school in Summer 1988 sat either GCSEs or a mixture of ‘O’ levels and CSEs (and some sat all three types of exam)’. Dept of Education and Science, Statistics of School Examinations, 1990.

‘GCSE examinations were introduced in 1988. The final GCE ‘O’ levels examinations for home students were held in the winter session 1987, with summer 1987 being the final session for CSE exams’. Dept for Education, Statistics of School Examinations, 1991.

NCDS

For the 94 NCDS cohort members examining NCDS 5 and the EXAMS file from 1978 provided information on the qualifications obtained by all but nine of the 94.

The following were not in the EXAMS file: cases 2,16,26,45,62,74,80,83,91,93. Some of these (16,26,74,80,83) were present in NCDS 5. There is no data for the remaining five. For some of the remaining cases, EXAMS file data was found to be not relevant because they were reporting GCSE qualifications after 1978. These cases were (3,11,18,30,77,81,82). Some of these (3,30,82) were covered by NCDS 5, but the remaining 4 were not. In total, then, there were only 9 cases where data could not be obtained from earlier sweeps to check the GCSE errors in NCDS 6.

The majority of those for whom data is available would appear to have CSEs rather than the GCSEs reported in NCDS 6. However, some have O levels, and some a mixture of O levels and CSEs.

BCS

I have looked at the first 200 cases for BCS. Of these, some 134 were present in BCS 96. Out of these 134, 42 were also reporting GCSEs in BCS 96 (although not necessarily the same number as in BCS 2000); 17 provided no information about qualifications in BCS 96, and 75 did not report any GCSEs in BCS 96.
NCDS VI – Results of Checking those with Erroneous Dates for GCSEs against Earlier NCDS Sweeps

There are 94 cases in NCDS VI in which NCDS cohort members have recorded a date for their GCSEs prior to the introduction of the first GCSE exams (1988). These 94 cases are as follows.

Case: 1
Chrtid: 581058E
NCDS VI GCSE/CSE/GCE Qualifications: one GCSE in 1974, also 3 O levels in 1974.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 3 CSEs at grades 2-5.

Case: 2
Chrtid: 330031E
NCDS VI GCSE/CSE/GCE Qualifications: GCSEs from 1975 in homecrafts, English literature and English language. Also CSEs from 1976 in English Language, English Literature, Geography, Drama and Homecraft. Also O levels from 1977 in English Language, English Literature, Geography, Drama and Religious Knowledge.
Present in NCDS V: No
Present in EXAMS file: No
EXAMS file GCE/CSE Qualifications: N/A.

Case: 3
Chrtid: 750128Q
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1982, 2 at A-C grades, 1 at lower grade. No O levels or CSEs.
Present in NCDS V: Yes
NCDS V Qualifications: Recorded as having ‘other’ qualification(s), but not GCSE, CSE or O level.
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No qualifications.

Case: 4
Chrtid: 845002U
NCDS VI GCSE/CSE/GCE Qualifications: 8 GCSEs in 1973, 4 at A-C grades and 4 at lower grades.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 O level/CSE grade 1, 2 CSEs at grade 4, 2 CSEs at grade 5.

Case: 5
Chrtid: 516081F
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974, 4 at A-C grades, 1 at lower grade. No O levels or CSEs.
Present in NCDS V:
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 4, 2 CSE grade 5.

Case: 6
Chrtid: Y30263X
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974, 3 at A-C grades, 2 at lower grades. 2 O levels in 1974, no CSEs.
Present in NCDS V:
Case: 7
Chrtid: Y30072Q
NCDS VI GCSE/CSE/GCE Qualifications: 6 GCSEs all at A-C grades in 1974. No O levels or CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 2 CSEs at grade 3; 2 CSEs at grade 4, 2 CSEs at grade 5.

Case: 8
Chrtid: X66014T
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1974, no O levels or CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 O level at grade A-C.

Case: 9
Chrtid: X83029D
NCDS VI GCSE/CSE/GCE Qualifications: 7 GCSEs in 1974, all at A-C grades, no O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 7 O levels at A-C, no CSEs.

Case: 10
Chrtid: 048054V
NCDS VI GCSE/CSE/GCE Qualifications: 6 GCSEs in 1974, no O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 5.

Case: 11
Chrtid: 044015N
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs – 1 obtained in 1980, 1 in 1994, 2 in 1995
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No O levels or CSEs.

Case: 12
Chrtid: 620094X
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs in 1974, both at A-C grades, no O levels and no CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 2 CSEs, 1 at grade 2; 1 at grade 4.

Case: 13
Chrtid: 100052D
NCDS VI GCSE/CSE/GCE Qualifications: 6 GCSEs in 1974, all at A-C grades
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 3 CSE grade 2; 3 CSE grade 3; 1 CSE grade 5.
Case: 14
Chrtid: 517088B
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1974, 2 at A-C grades and 1 at D-G. Also 1 CSE grade 1 in 1973.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: Took 3 exams in total; passed two: 1 CSE grade 3, 1 CSE grade 4.

Case: 15
Chrtid: 081020Q
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1974 at A-C grade, no O levels and no CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE at grade 2.

Case: 16
Chrtid: 835005U
NCDS VI GCSE/CSE/GCE Qualifications: 10 GCSEs in 1974, all at grades A-C.
Present in NCDS V: Yes
Qualifications in NCDS V: CSEs at grade 1, and CSEs at grades 2-5.
Present in EXAMS file: No
EXAMS file GCE/CSE Qualifications: N/A.

Case: 17
Chrtid: 093052W
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1973, 2 of them at A-C grade, and 1 at a lower grade; 1 O level in 1973 at A-C grade; 3 CSEs in 1973, 2 at grade 1, and 1 at a lower grade.
Present in NCDS V: Yes
Qualifications in NCDS V: CSEs at grade 1, and O levels at A-C grades.
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 1, 1 CSE grade 4, 2 CSE grade 5.

Case: 18
Chrtid: 093070Y
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1986; 5 O levels in 1974
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 6 CSEs at grades 2-5: 1 at grade 2, 2 at grade 3, 1 at grade 4, 2 at grade 5.

Case: 19
Chrtid: 0930175P
NCDS VI GCSE/CSE/GCE Qualifications: 6 GCSEs in 1974, all at below grade C.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No exams taken or passed.

Case: 20
Chrtid: 222005A
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1974 at A-C; 4 CSEs in 1974 at grade 1.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE at grade 4.

Case: 21
Chrtid: 054006T
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1974, 3 at A-C grades, 1 at a lower grade. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE at grade 2, 3 CSEs at grade 5.

Case: 22
Chrtid: 055031X
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1974, all at A-C grades; no O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 4 exams taken, 3 passed: 2 CSE grade 3, 1 CSE grade 4

Case: 23
Chrtid: 093071A
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs in 1974, 1 at grade A-C; no O levels, no CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 1; 1 CSE grade 4.

Case: 24
Chrtid: 083047X
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1976 at A-C grade; 6 CSEs in 1974, 3 at grade 1, 3 at grades 2-5.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 6 CSEs: 3 at grade 1, 1 at grade 2, 1 at grade 3, 1 at grade 5.

Case: 25
Chrtid: 099010M
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974, 4 at A-C grades, 1 at lower grades. No O levels and no CSEs.
Present in NCDS V: Yes
Qualifications in NCDS V: City & Guilds qualifications only.
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No O levels or CSEs obtained.

Case: 26
Chrtid: 094022S
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974 (3 at A-C grades, 2 at lower grades). No O levels, 3 CSEs in 1974, all at grades 2-5.
Present in NCDS V: Yes
Qualifications in NCDS V: CSEs at grades 2-5 only.
Case: 27
Chrtid: 055110T
NCDS VI GCSE/CSE/GCE Qualifications: 8 GCSEs in 1976, 5 at A-C grades, 3 at lower grades. No O levels or CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 4 O level/CSE grade 1 passes. 1 CSE grade 2, 1 CSE grade 3.

Case: 28
Chrtid: 092153X
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1974 at D-G grade. Also 5 CSEs all at grade 1.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 4 CSEs at grade 1; 1 CSE grade 3.

Case: 29
Chrtid: 984038V
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1974, 2 at A-C grades, 2 at D-G grades. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 2, 1 CSE grade 4, 1 CSE grade 5.

Case: 30
Chrtid: Y30042E
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs at D-G in 1985. No O levels or CSEs.
Present in NCDS V: Yes
Qualifications in NCDS V: CSEs at grades 2-5; O levels at A-C grades; also RSA and City & Guilds qualifications.
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 5.

Case: 31
Chrtid: 282068R
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs in 1974, 3 more in 1985: 3 at A-C grades, 2 at D-G grades. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 1, 1 CSE grade 3, 1 CSE grade 4.

Case: 32
Chrtid: 110315S
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs at A-C grades, 1 in 1974, the other in 1977; no O levels or CSEs.
Present in NCDS V: Yes
Case: 33
Chrtid: 330002X
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1977 at A-C grade; also 5 CSEs in 1974, 1 at grade 1, and the other 4 at grades 2-5.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 1, 3 CSEs at grade 3, 1 CSE grade 5.

Case: 34
Chrtid: 330092B
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974 all at A-C grades; no O levels or CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No O levels recorded; 1 CSE grade 3, 1 CSE grade 4, 2 CSEs at grade 5.

Case: 35
Chrtid: 330009N
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1974, 2 of these at A-C grades, 2 at D-G. 1 O level in 1974 at grades D-E, no CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No O levels recorded; 1 CSE grade 3, 1 CSE grade 4, 2 CSEs at grade 5.

Case: 36
Chrtid: 330074Z
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974, all at grades D-G; also 2 O levels in 1974 at A-C grades; no CSEs.
Present in NCDS V: Yes
Qualifications in NCDS V: O levels at A-C grades.
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 3, 1 CSE grade 5.

Case: 37
Chrtid: 382013W
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs in 1974, both at A-C grades; also 5 CSEs in 1974, all at grades 2-5.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 2 O levels at grades A-C; 1 CSE grade 3, 1 CSE grade 4, 2 CSE grade 5.
Case: 38
Chrtid: 238018Z
NCDS VI GCSE/CSE/GCE Qualifications: 6 GCSEs in 1974; 4 at A-C grades, 2 at D-G grades. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 2 CSE grade 2, 3 CSE grade 3, 2 CSE grade 4.

Case: 39
Chrtid: Y20012P
NCDS VI GCSE/CSE/GCE Qualifications: 7 GCSEs in 1976, 5 at A-C grades, 2 at D-G. No O levels and no CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 2, 3 CSE grade 3, 3 CSE grade 4.

Case: 40
Chrtid: 110106H
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974, all at A-C grades. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 3, 1 CSE grade 4, 1 CSE grade 5.

Case: 41
Chrtid: 120011B
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1974, all at A-C. No O levels or CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 2, 1 CSE grade 3, 2 CSE grade 4, 1 CSE grade 5.

Case: 42
Chrtid: 052018Q
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1975, 1 in 1996, both at A-C grades. No O levels and no CSEs.
Present in NCDS V: Yes
Qualifications in NCDS V: O levels at A-C grades.
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No exams taken or passed.

Case: 43
Chrtid: 184008Z
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1974, 2 at A-C grades, 1 at D-G.
Present in NCDS V: Yes
Qualifications in NCDS V: CSEs at grades 2-5.
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No exams taken or passed.
Case: 44  
Chrtid: 937018X  
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974, all at A-C grades. No O levels and no CSEs. 
Present in NCDS V: Yes  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 2 O level/CSE grade 1, 1 CSE grade 3, 2 CSE grade 5.

Case: 45  
Chrtid: 935018M  
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1974 at A-C grade; no O levels and no CSEs. 
Present in NCDS V: No  
Present in EXAMS file: No  
EXAMS file GCE/CSE Qualifications: N/A.

Case: 46  
Chrtid: Y30070L  
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1974, all at A-C grades. No O levels or CSEs. 
Present in NCDS V: Yes  
Qualifications in NCDS V: CSEs at grades 2-5. 
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: No exams taken or passed.

Case: 47  
Chrtid: 937014P  
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1974, all at A-C grades. No O levels and no CSEs. 
Present in NCDS V: Yes  
Qualifications in NCDS V: Recorded as having no qualifications. 
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: No exams taken or passed.

Case: 48  
Chrtid: 381033X  
NCDS VI GCSE/CSE/GCE Qualifications: 6 GCSEs in 1974, 1 at A-C grade, 5 at D-G grades. No O levels or CSEs. 
Present in NCDS V: Yes  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 1 CSE grade 3, 2 CSE grade 4, 3 CSE grade 5.

Case: 49  
Chrtid: 381064K  
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1976, all at A-C grades. No O levels, 3 CSE grade 1 also in 1976. 
Present in NCDS V: Yes  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 4 CSEs at grades 2-5; 1 at grade 2, 1 at grade 3, 1 at grade 4, 1 at grade 5.
Case: 50
Chrtid: 282113T
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1973, 1 at an unspecified date, all at A-C grades. No O levels, no CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 O level/CSE grade 1, 2 CSE grade 2, 1 CSE grade 3.

Case: 51
Chrtid: 385059P
NCDS VI GCSE/CSE/GCE Qualifications: 13 GCSEs, 10 in 1974, 2 in 1975, 1 in 1995; 12 at A-C grades, 1 at D-G. No O levels, and no CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 8 O levels at A-C grades; no CSEs.

Case: 52
Chrtid: 092346K
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs in 1974, both at A-C grades. No O levels and no CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No Exams taken or passed.

Case: 53
Chrtid: 527049X
NCDS VI GCSE/CSE/GCE Qualifications: 7 GCSEs in 1974, all at A-C grades. No O levels and no CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 7 exams taken, 6 passes. 5 CSEs at grade 3; 1 CSE at grade 4.

Case: 54
Chrtid: 825099A
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs in 1974, 2 in 1985. 2 of these were at A-C grades, 2 at lower grades. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 3 O level/CSE 1. 2 at CSE grade 2.

Case: 55
Chrtid: 982023V
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1974, all at A-C grades. No O levels or CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 2 CSE grade 4, 1 CSE grade 5.

Case: 56
Chrtid: 982081L
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1974, A-C grade. 3 CSEs at grade 1, 2 CSEs at grades 2-5.
Present in NCDS V: No
Case: 57
Chrtid: 960080K
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1974, all at A-C grades; 1 O level in 1974, no CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 1, 2 CSE grade 3, 3 CSE grade 4.

Case: 58
Chrtid: Y30017F
NCDS VI GCSE/CSE/GCE Qualifications: 8 GCSEs in 1974, all at A-C grades; no O levels and no CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 8 O levels, no CSEs listed.

Case: 59
Chrtid: 509226R
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1976, all at A-C grades; no O levels; 7 CSEs in 1974, all at grades 2-5.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 3 O level/CSE grade 1, 2 CSEs at grade 2, 4 CSEs at grade 3, 1 CSE at grade 4.

Case: 60
Chrtid: 511141V
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs in 1973, both at A-C grades. No O levels reported, 6 CSEs in 1974 at grades 2-5.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 O level/CSE grade 1, 1 CSE grade 2, 2 CSE grade 3, 4 CSE grade 5.

Case: 61
Chrtid: Y30098K
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974, all at D-G grades; no O levels, 3 CSEs in 1974, all at grades 2-5.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE at grade 3, 2 CSEs at grade 5.

Case: 62
Chrtid: 520034V
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1974, 1 at A-C grades, 2 at lower grades. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: No
EXAMS file GCE/CSE Qualifications: N/A
Case: 63  
Chrtid: 815061S  
NCDS VI GCSE/CSE/GCE Qualifications: 12 GCSEs, 11 obtained in 1974 and 1 in 1975, 6 at A-C grades and 6 at lower grades. No O levels or CSEs.  
Present in NCDS V: No  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 12 exams taken; 9 passes at O level/CSE grade 1.

Case: 64  
Chrtid: 500421Q  
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1973, all at A-C grades; 2 O levels, 1 at A-C grades, 1 at a lower grade; no CSEs.  
Present in NCDS V: No  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 1 CSE at grade 3, 1 CSE at grade 4, 1 CSE at grade 5.

Case: 65  
Chrtid: 684015K  
NCDS VI GCSE/CSE/GCE Qualifications: 6 GCSEs in 1974, 1 at A-C grade, the rest at lower grades; no O levels or CSEs.  
Present in NCDS V: No  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: No exams taken, none passed.

Case: 66  
Chrtid: 180025C  
NCDS VI GCSE/CSE/GCE Qualifications: 8 GCSEs in 1974, 4 at A-C grades, 4 lower. No O levels and no CSEs.  
Present in NCDS V: No  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 3 O level/CSE grade 1.

Case: 67  
Chrtid: 528005F  
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974, 4 at A-C, 1 at a lower grade. No O levels and no CSEs.  
Present in NCDS V: No  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 2 O level/CSE 1.

Case: 68  
Chrtid: Y30061K  
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs in 1974, both at A-C grades. No O levels and no CSEs.  
Present in NCDS V: No  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 1 CSE grade 4, 1 CSE grade 5.

Case: 69  
Chrtid: 610020K  
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1976, 2 in 1974, all at A-C grades. 1 CSE grade 1, 2 CSEs at grades 2-5.  
Present in NCDS V: Yes
Case: 70
Chrtid: 583014U
NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1977, all at A-C grades. No O levels, 4 CSEs at below grade 1.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 O level/CSE grade 1, 2 CSEs at grade 2, 2 CSEs at grade 3, 1 CSE grade 4.

Case: 71
Chrtid: 682037K
NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs in 1974, both at A-C grades. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 3, 1 CSE grade 5.

Case: 72
Chrtid: 782118S
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1975, all at A-C grades. No O levels or CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 2 O level/CSE grade 1, 4 CSEs at grade 3, 1 CSE grade 5.

Case: 73
Chrtid: 782170U
NCDS VI GCSE/CSE/GCE Qualifications: 8 GCSEs in 1974, 5 at A-C grades, 3 at lower grades. Also 2 O levels at A-C grades, no CSEs.
Present in NCDS V: Yes
Qualifications in NCDS V: CSE at grades 2-5, O levels at A-C.
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE grade 3, 1 CSE grade 4.

Case: 74
Chrtid: 823501Q
NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1974, all at A-C grades. No O levels or CSEs.
Present in NCDS V: Yes
Qualifications in NCDS V: CSEs at grade 1 and CSEs at grades 2-5.
Present in EXAMS file: No
EXAMS file GCE/CSE Qualifications: N/A

Case: 75
Chrtid: 840002S
NCDS VI GCSE/CSE/GCE Qualifications: 13 GCSEs in 1975, all at A-C grades. No O levels or CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 13 exams taken, 8 passes at O level/CSE grade 1.

Case: 76
Chrtid: 840017F
NCDS VI GCSE/CSE/GCE Qualifications: 13 GCSEs in 1974, 10 at A-C grades, 3 at lower grades. No O levels or CSEs. Present in NCDS V: Yes Present in EXAMS file: Yes EXAMS file GCE/CSE Qualifications: 9 O levels/CSE grade 1.

Case: 77  Chrtid: 560023R  NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs, 2 in 1986, 2 in 1987, all at A-C grades. No O levels or CSEs. Present in NCDS V: No Present in EXAMS file: Yes EXAMS file GCE/CSE Qualifications: 3 CSEs at grade 3.


Case: 79  Chrtid: 824514E  NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1975, all at lower grades. No O levels or CSEs. Present in NCDS V: Yes Present in EXAMS file: Yes EXAMS file GCE/CSE Qualifications: 1 CSE at grade 2, 1 CSE at grade 3, 1 CSE at grade 4, 2 CSEs at grade 5.

Case: 80  Chrtid: 882031M  NCDS VI GCSE/CSE/GCE Qualifications: 5 GCSEs in 1974, all at A-C grades. No O levels. 1 CSE grade 1 in 1974. Present in NCDS V: Yes Qualifications in NCDS V: CSEs at grades 2-5; O levels at grades A-C; GCSEs at grades A-C. Present in EXAMS file: No EXAMS file GCE/CSE Qualifications: N/A.

Case: 81  Chrtid: 365003W  NCDS VI GCSE/CSE/GCE Qualifications: 2 GCSEs, 1 in 1986, 1 in 1996, both at A-C grades. 8 O levels, all at A-C grades, no CSEs. Present in NCDS V: No Present in EXAMS file: Yes EXAMS file GCE/CSE Qualifications: 7 O levels/CSE grade 1.

Case: 82  Chrtid: 610012L  NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1985, at A-C grade. No O levels or CSEs. Present in NCDS V: Yes Qualifications in NCDS V: CSEs at grade 1; O levels at grades A-C. Present in EXAMS file: Yes EXAMS file GCE/CSE Qualifications: 1 CSE grade 3, 1 CSE grade 4, 1 CSE grade 5.

Case: 83  Chrtid: 550237E  NCDS VI GCSE/CSE/GCE Qualifications: 3 GCSEs in 1974, all at A-C grades. No O levels or CSEs.
Present in NCDS V: Yes  
Qualifications in NCDS V: CSEs at grades 2-5.  
Present in EXAMS file: No  
EXAMS file GCE/CSE Qualifications: N/A

Case: 84  
Chrtid: 933007V  
NCDS VI GCSE/CSE/GCE Qualifications: 7 GCSEs in 1974, all at A-C grades. No O levels or CSEs.  
Present in NCDS V: Yes  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 3 O level/CSE grade 1, 2 CSE grade 3, 1 CSE grade 4.

Case: 85  
Chrtid: Y01195T  
NCDS VI GCSE/CSE/GCE Qualifications: 6 GCSEs in 1974, 1 at A-C grades, 5 at lower grades. No O levels or CSEs.  
Present in NCDS V: Yes  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 1 CSE at grade 2, 2 CSEs at grade 3, 1 CSE at grade 4, 2 CSEs at grade 5.

Case: 86  
Chrtid: 517102S  
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1974, 3 in 1986 and 1 in 1975, 1 at A-C grade, others at lower grade. No O levels, 6 CSEs in 1975, 1 at grade 1, 5 at grades 2-5.  
Present in NCDS V: No  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 1 CSE grade 4, 1 CSE grade 5.

Case: 87  
Chrtid: 500073T  
NCDS VI GCSE/CSE/GCE Qualifications: 8 GCSEs in 1974, all at A-C grades. No O levels or CSEs.  
Present in NCDS V: No  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 3 CSE at grade 3, 3 CSE at grade 4.

Case: 88  
Chrtid: 825035X  
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs, 3 in 1986 and 1 in 1975, 1 is at A-C grade, others at lower grade. No O levels, 6 CSEs in 1975, 1 at grade 1, 5 at grades 2-5.  
Present in NCDS V: Yes  
Qualifications in NCDS V: CSEs at grades 2-5; CSEs at grade 1, O levels at A-C grade.  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: 1 O level/CSE grade 1, 1 CSE grade 2, 3 CSE grade 3, 1 CSE grade 4, 1 CSE grade 5.

Case: 89  
Chrtid: 180007A  
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1973, at below grade C. No O levels, 5 CSEs in 1974 at grades 2-5.  
Present in NCDS V: No  
Present in EXAMS file: Yes  
EXAMS file GCE/CSE Qualifications: No exams taken, no qualifications.
Case: 90
Chrtid: 465013H
NCDS VI GCSE/CSE/GCE Qualifications: 1 GCSE in 1974, at A-C grade. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: No exams taken, no qualifications.

Case: 91
Chrtid: 592014V
NCDS VI GCSE/CSE/GCE Qualifications: 7 GCSEs in 1974, 5 at A-C grades, 2 at lower grades. No O levels or CSEs.
Present in NCDS V: No
Present in EXAMS file: No
EXAMS file GCE/CSE Qualifications: N/A.

Case: 92
Chrtid: 514058A
NCDS VI GCSE/CSE/GCE Qualifications: 4 GCSEs in 1974, all at A-C grades. No O levels or CSEs.
Present in NCDS V: Yes
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 CSE at grade 2, 2 CSEs at grade 3, 3 CSEs at grade 4.

Case: 93
Chrtid: 514071S
NCDS VI GCSE/CSE/GCE Qualifications: 6 GCSEs in 1974, all at A-C grades. 1 O level in 1974, no CSEs.
Present in NCDS V: No
Present in EXAMS file: No
EXAMS file GCE/CSE Qualifications: N/A

Case: 94
Chrtid: 503018A
NCDS VI GCSE/CSE/GCE Qualifications: 12 GCSEs in 1973, 6 at A-C grades, 6 at lower grades. No O levels and no CSEs.
Present in NCDS V: Yes
Qualifications in NCDS V: O levels at A-C grades.
Present in EXAMS file: Yes
EXAMS file GCE/CSE Qualifications: 1 O level/CSE grade 1.
BCS70

1. CHRTID/SERIAL: 17347090
   BCS 2000 Qualifications: 6 GCSEs, all in 1986. No O levels or CSEs.
   Present in BCS 1996: No

2. CHRTID/SERIAL: 17345113
   BCS 2000 Qualifications: 5 GCSEs, all in 1986, 4 at grades A-C, 1 at a lower grade. No O levels or CSEs.
   Present in BCS 1996: Yes
   BCS 1996 Qualifications: 1 O level at grade A-C; 7 GCSEs all at A-C grades.

3. CHRTID/SERIAL: 10482048
   BCS 2000 Qualifications: 1 GCSE in 1987, grade A-C; 6 (or 8 as suggested by summary data) O levels in 1986; no CSEs.
   Present in BCS 1996: Yes
   BCS 1996 Qualifications: 8 O levels at grade A-C; also 1 O level at a lower grade. 1 GCSE.

4. CHRTID/SERIAL: 7246058
   BCS 2000 Qualifications: 3 GCSEs in 1986, all at A-C grade. No O levels or CSEs.
   Present in BCS 1996: No

5. CHRTID/SERIAL: 5078026
   BCS 2000 Qualifications: 2 GCSEs in 1986, both at A-C grades; no O levels; 7 CSEs in 1986.
   Present in BCS 1996: Yes.
   BCS 1996 Qualifications: 1 O level at A-C grade; 2 other O levels at lower grades; 1 CSE grade 1; 4 CSEs at below grade 1. No GCSEs.

6. CHRTID/SERIAL: 3535025
   BCS 2000 Qualifications: 6 GCSEs in 1986, 4 at A-C grade, 2 at lower grades. No O levels or CSEs.
   Present in BCS 1996: No

7. CHRTID/SERIAL: 5110044
   BCS 2000 Qualifications: 5 GCSEs in 1986, 3 at A-C grades, 2 at lower grades.
   Present in BCS 1996: No

8. CHRTID/SERIAL: 5840013
   Present in BCS 1996: Yes
   BCS 1996 Qualifications: 10 O levels, all at A-C grades, and 5 GCSEs at A-C grades.

9. CHRTID/SERIAL: 5045072
   BCS 2000 Qualifications: 5 GCSEs in 1986. No O levels or CSEs.
   Present in BCS 1996: No

10. CHRTID/SERIAL: 12072019
    Present in BCS 1996: No

11. CHRTID/SERIAL: 6266032
    BCS 2000 Qualifications: 6 GCSEs in 1986, 5 at A-C grades, 1 at lower grade. No O levels or CSEs.
    Present in BCS 1996: Yes.
    BCS 1996 Qualifications: 5 O levels at A-C grades; no GCSEs and no CSEs.
12. CHRTID/SERIAL: 6287060
BCS 2000 Qualifications: 4 GCSEs in 1986, all at A-C grades; no O levels or CSEs.
Present in BCS 1996: No

13. CHRTID/SERIAL: 21453000
BCS 2000 Qualifications: 5 GCSEs in 1987, 3 at A-C grades, 2 at lower grades. No O levels or CSEs.
Present in BCS 1996: No

14. CHRTID/SERIAL: 3159070
Present in BCS 1996: Yes
BCS 1996 Qualifications: 10 O levels at A-C grades; no GCSEs.

15. CHRTID/SERIAL: 4539004
BCS 2000 Qualifications: 1 GCSE in 1986, at A-C grade. 3 O levels in 1986, at A-C grades. 3 CSEs in 1986, 2 at grade 1, and 1 at lower grade.
Present in BCS 1996: No

16. CHRTID/SERIAL: 17549095
BCS 2000 Qualifications: 8 GCSEs in 1986, 7 at A-C grades and 1 at lower grade. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 7 O levels at grades A-C. No GCSEs.

17. CHRTID/SERIAL: 10418066
BCS 2000 Qualifications: 9 GCSEs, all at A-C grades, 8 obtained in 1986 and 1 in 1987. No O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 9 O levels, all at A-C grades, no CSEs or GCSEs.

18. CHRTID/SERIAL: 15428033
BCS 2000 Qualifications: 2 GCSEs, both at below grade C, in 1986. No O levels. 3 CSEs in 1986, 2 at grade 1, 1 at lower grade.
Present in BCS 1996: No

19. CHRTID/SERIAL: 4169024
BCS 2000 Qualifications: 3 GCSEs in 1987, all at A-C grades; 2 O levels in 1987, at A-C grades, no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 4 O levels, all at below grade C.

20. CHRTID/SERIAL: 4251023
BCS 2000 Qualifications: 1 GCSE in 1987, at A-C grade; 3 O levels in 1986, 2 at A-C grades, 1 at lower grade; 6 CSEs in 1986, 2 at grade 1, 4 at lower grades.
Present in BCS 1996: No

21. CHRTID/SERIAL: 16306031
BCS 2000 Qualifications: 2 GCSEs in 1986, 1 at A-C grades, 1 at a lower grade. 9 O levels in 1986, 7 at A-C grades, 2 at lower grades. No CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 O levels at A-C; coded as –3 for both O levels below grade C and GCSEs.
22. CHRTID/serial: 921022
BCS 2000 qualifications: 3 GCSEs in 1986, 2 at A-C grades, 1 at lower grade; no O levels; 2 CSEs in 1986, both at below grade 1.
Present in BCS 1996: No

23. CHRTID/serial: 16442012
BCS 2000 qualifications: 7 GCSEs in 1987, 3 at A-C grades, 4 lower grades; 8 O levels in 1987, 3 at A-C grades, 5 at lower grades; 7 CSEs in 1986, 3 at grade 1, 4 at lower grades.
Present in BCS 1996: Yes
BCS 1996 qualifications: No CSEs or GCSEs, 2 O levels at A-C grades.

24. CHRTID/serial: 11496003
BCS 2000 qualifications: 2 GCSEs, 1 in 1986, 1 in 1987, 1 of these is at A-C grade, other at lower grade. No O levels; 4 CSEs in 1986, all at grade 1.
Present in BCS 1996: Yes
BCS 1996 qualifications: 3 CSEs at grade 1; 2 CSEs at lower grades; also 1 GCSE at grades A-C.

25. CHRTID/serial: 12954012
BCS 2000 qualifications: 2 GCSEs in 1986, both at A-C grades. 7 O levels, 2 in 1985, 5 in 1986. 5 of them at A-C grades, 2 at lower grades. No CSEs.
Present in BCS 1996: Yes
BCS 1996 qualifications: 7 O levels at A-C grades, 2 O levels at lower grades; no CSEs.

26. CHRTID/serial: 6649014
BCS 2000 qualifications: 11 GCSEs, all at A-C grade, 9 in 1986, 2 in 1987. No O levels, no CSEs.
Present in BCS 1996: No

27. CHRTID/serial: 10911025
BCS 2000 qualifications: 10 GCSEs in 1986, all at A-C grades. No O level, no CSE.
Present in BCS 1996: Yes
BCS 1996 qualifications: 9 O levels at A-C grade. 1 GCSE at A-C.

28. CHRTID/serial: 13100091
BCS 2000 qualifications: 5 GCSEs in 1986. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 qualifications: 5 O levels at A-C grades; no CSEs; no GCSEs.

29. CHRTID/serial: 14836090
Present in BCS 1996: No

30. CHRTID/serial: 3845033
BCS 2000 qualifications: 8 GCSEs in 1986, all at below grade C. No O levels. 3 CSEs in 1986, at below grade 1.
Present in BCS 1996: Yes
BCS 1996 qualifications: Has ticked the no qualifications box.

31. CHRTID/serial: 16997056
BCS 2000 qualifications: 11 GCSEs in 1986, 10 at A-C grades, 1 at a lower grade. No O levels, no CSEs.
Present in BCS 1996: Yes
BCS 1996 qualifications: Also 10 GCSEs at A-C, and 1 at a lower grade. No O levels or CSEs.

32. CHRTID/serial: 12429074
BCS 2000 qualifications: 7 GCSEs in 1986, 6 at A-C grades, 1 at a lower grade. No O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 2 CSEs at grade 1; 6 CSEs at other grades, 1 O level at A-C. No GCSEs.

33. CHRTID/SERIAL: 15685019
BCS 2000 Qualifications: 3 GCSEs in 1986, all at A-C grades. No O levels or CSEs.
Present in BCS 1996: No

34. CHRTID/SERIAL: 14449083
BCS 2000 Qualifications: 1 GCSE at A-C grade in 1986. No O levels or CSEs.
Present in BCS 1996: No

35. CHRTID/SERIAL: 16441037
BCS 2000 Qualifications: 8 GCSEs in 1986, 6 at A-C grades, 2 at lower grades. No O levels or CSEs.
Present in BCS 1996: No

36. CHRTID/SERIAL: 6990050
Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 CSEs all below grade 1; 5 O levels at A-C grades; no GCSEs.

37. CHRTID/SERIAL: 10291095
BCS 2000 Qualifications: 8 GCSEs, 7 of them obtained in 1986 and 1 in 1987, all of them were at A-C grades. 8 O levels, 7 in 1986 and 1 in 1987, all at A-C grades. No CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 O levels at A-C grades.

38. CHRTID/SERIAL: 12162020
BCS 2000 Qualifications: 7 GCSEs, 6 in 1986, and 1 in 1988, 4 of them at A-C grades and 3 at lower grades. No O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 O levels at A-C grades, 1 further O level at a lower grade; 5 CSEs all below grade 1. No GCSEs.

39. CHRTID/SERIAL: 20344000
BCS 2000 Qualifications: 6 GCSEs in 1986, 4 at A-C grades, 2 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 1 CSE grade 1, and 4 CSEs at lower grades; 1 O level at below grade C. No GCSEs.

40. CHRTID/SERIAL: 2796034
BCS 2000 Qualifications: 5 GCSEs, 3 in 1986 and 2 in 1988, all at A-C grades. 1 O level in 1987, at A-C grade. 6 CSEs in 1986, 1 at grade 1 and 5 at lower grades.
Present in BCS 1996: No

41. CHRTID/SERIAL: 11994039
BCS 2000 Qualifications: 8 GCSEs in 1986, 4 at A-C grades, and 4 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 CSEs, all at below grade 1; No O levels and no GCSEs.

42. CHRTID/SERIAL: 12873012
BCS 2000 Qualifications: 4 GCSEs in 1987, 3 at A-C and 1 at a lower grade. 2 O levels in 1988 both at A-C grades, no CSEs.
Present in BCS 1996: No
43. CHRTID/SERIAL: 14521254
BCS 2000 Qualifications: 5 GCSEs in 1986, all at below grade C; 1 O level in 1986 at A-C grade, no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 CSEs at grade 1; no O levels or GCSEs.

44. CHRTID/SERIAL: 5627033
BCS 2000 Qualifications: 3 GCSEs, in 1986, 2 at A-C grades and 1 at a lower grade. 5 O levels in 1986, all at A-C grades; 2 CSEs in 1986, 1 of them at grade 1 and 1 at a lower grade.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 5 O levels at A-C; 3 GCSEs at A-C 1 of them at A-C and 1 at a lower grade; 2 CSEs – 1 at grade 1, 1 at a lower grade.

45. CHRTID/SERIAL: 17770000
BCS 2000 Qualifications: 6 GCSEs in 1986, 5 at A-C grades and 1 at a lower grade. 1 O level in 1986 at below C grade; no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 5 CSEs at below grade 1, 1 O level below grade C; no GCSEs.

46. CHRTID/SERIAL: 6897000
BCS 2000 Qualifications: 8 GCSEs in 1986, 7 at A-C grades, 1 at a lower grade. No O levels, 1 CSE at grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 1 CSE grade 1, 4 O levels at A-C, 2 GCSEs at A-C grade.

47. CHRTID/SERIAL: 120029
BCS 2000 Qualifications: 2 GCSEs in 1986, both at A-C grades; 8 O levels, 6 in 1986, 2 in 1987, all at A-C grades. No CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 11 O levels at A-C grades; 1 GCSE at A-C grade.

48. CHRTID/SERIAL: 2036036
BCS 2000 Qualifications: 8 GCSEs in 1986, 7 at A-C grades, 1 at a lower grade. No O levels, 1 CSE at grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 1 CSE grade 1, 4 O levels at A-C, 2 GCSEs at A-C grade.

49. CHRTID/SERIAL: 5043021
BCS 2000 Qualifications: 9 GCSEs, with 8 in 1986 and 1 in 1991, all at A-C grades. 1 O level in 1990 at A-C grade; no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 9 O levels at A-C grades, no GCSEs or CSEs.

50. CHRTID/SERIAL: 12989017
BCS 2000 Qualifications: 1 GCSE in 1987, at A-C grade; 8 O levels in 1986, 7 at A-C grades, 1 at a lower grade; 1 CSE in 1986 at grade 2 or lower.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 1 CSE at grade 2 or below; 7 O levels at A-C grades, 1 O level at a lower grade; 1 GCSE at A-C grade.

51. CHRTID/SERIAL: 11458049
BCS 2000 Qualifications: 4 GCSEs, all at A-C grades, 2 obtained in 1986 and 2 in 1987. No O levels. 4 CSEs in 1986, all at below grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 4 GCSEs at A-C grades; 5 GCSEs at other grades. Note left school and full time education at 17, so unlikely to have GCSEs.
52. CHRTID/SERIAL: 14811061
BCS 2000 Qualifications: 1 GCSE in 1987, at A-C grade. 10 O levels in 1985, 9 at A-C grades, 1 at a lower grade. No CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 9 O levels all at A-C grades, no GCSEs.

53. CHRTID/SERIAL: 15304002
BCS 2000 Qualifications: 3 GCSEs in 1987, all at A-C grades; 7 O levels in 1986, all at A-C grades; 4 CSEs in 1986, all at grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 2 CSEs at grade 1; 8 O levels at A-C grades; 2 GCSEs at A-C grades.

54. CHRTID/SERIAL: 13760011
BCS 2000 Qualifications: 5 GCSEs, all at A-C grades, 2 obtained in 1987 and 3 in 1986. No O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 7 CSEs – all at below grade 1; 5 O levels at A-C grades; no GCSEs.

55. CHRTID/SERIAL: 13970042
BCS 2000 Qualifications: 4 GCSEs in 1986, all at A-C grades; no O levels or CSEs.
Present in BCS 1996: No

56. CHRTID/SERIAL: 13624030
BCS 2000 Qualifications: 7 GCSEs in 1987, 2 at A-C grades and 5 at lower grades.
Present in BCS 1996: No

57. CHRTID/SERIAL: 11025086
BCS 2000 Qualifications: 3 GCSEs, 2 in 1987 and 1 in 1986, 2 at A-C grades, 1 at a lower grade.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 1 CSE at below grade 1; 4 O levels at A-C grades; 2 GCSEs at A-C grades.

58. CHRTID/SERIAL: 10086040
BCS 2000 Qualifications: 8 GCSEs, all at A-C grades, 1 in 1985 and 7 in 1986. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 O levels at A-C grades; no CSEs or GCSEs.

59. CHRTID/SERIAL: 5048098
BCS 2000 Qualifications: 9 GCSEs in 1986, all at A-C grades. No CSEs or O levels.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 9 O levels at A-C grades, no GCSEs.

60. CHRTID/SERIAL: 12324020
BCS 2000 Qualifications: 8 GCSEs (5 at A-C grade, 3 at lower grades), 5 of them in 1986, 2 in 1988 and 1 in 1993. No O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 4 CSE: 1 at grade 1, 3 at lower grades; 1 O level at A-C grade; 3 GCSEs at A-C grades.

61. CHRTID/SERIAL: 16488069
BCS 2000 Qualifications: 7 GCSEs in 1986, 4 at A-C grades, 3 at lower grades. No O levels and no CSEs.
Present in BCS 1996: No

62. CHRTID/SERIAL: 1270066
BCS 2000 Qualifications: 5 GCSEs in 1985, all at A-C grades; 2 CSEs in 1986, both below grade 1; no O levels.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 5 O levels at A-C grades; no GCSEs or CSEs.

63. CHRTID/SERIAL: 10165090
BCS 2000 Qualifications: 10 GCSEs in 1986, all at A-C grades; no O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 10 O levels at A-C grades, no CSEs or GCSEs.

64. CHRTID/SERIAL: 10263265
BCS 2000 Qualifications: 9 GCSEs (6 at A-C grades, 3 at lower grades), 8 obtained in 1986 and 1 in 1990.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 2 CSEs: 1 at grade 1, 1 at a lower grade; 4 O levels at A-C grades, 3 O levels at lower grades; 1 GCSE at A-C grade.

65. CHRTID/SERIAL: 2619073
Present in BCS 1996: No

66. CHRTID/SERIAL: 11731001
BCS 2000 Qualifications: 9 GCSEs in 1986, 3 at A-C grades, 6 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 GCSEs at A-C grades and 6 at lower grades. Note age of leaving school and full-time education is recorded as 16.

67. CHRTID/SERIAL: 1552096
BCS 2000 Qualifications: 9 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications.

68. CHRTID/SERIAL: 3678033
Present in BCS 1996: Yes
BCS 1996 Qualifications: 10 O levels, all at below grade C; 1 GCSE at A-C grade.

69. CHRTID/SERIAL: 11878010
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications.

70. CHRTID/SERIAL: 6807013
BCS 2000 Qualifications: 4 GCSEs in 1986, 3 at A-C grades, 1 at a lower grade. No O levels or CSEs.
Present in BCS 1996: No

71. CHRTID/SERIAL: 8027004
BCS 2000 Qualifications: 4 GCSEs (3 at A-C grades, 1 lower grade), 1 in 1986, 1 in 1987, 2 in 1989; 6 O levels in 1986, 1 at A-C grade and 5 at lower grades; no CSEs.
Present in BCS 1996: No

72. CHRTID/SERIAL: 2137089
BCS 2000 Qualifications: 2 GCSEs, both at A-C grades, 1 in 1987 and 1 in 1988. 3 O levels (2 at A-C grades and 1 at lower grade), 2 in 1986 and 1 in 1987; 6 CSEs in 1986, all below grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 6 CSEs, all below grade 1; 1 O level at A-C grade; 3 GCSEs at A-C grade.

73. CHRTID/SERIAL: 4197002
BCS 2000 Qualifications: 1 GCSE in 1986 at A-C grade; 6 O levels in 1986, 5 at A-C grades, and 1 at a lower grade; no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 7 O levels: 6 at A-C grades and 1 at a lower grade; 1 CSE at below grade 1.

74. CHRTID/SERIAL: 2772081
BCS 2000 Qualifications: 1 GCSE in 1986, at A-C grade. No O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at 16; -3 for CSEs at below grade 1 ??.
No other qualifications recorded.

75. CHRTID/SERIAL: 12690085
BCS 2000 Qualifications: 1 GCSE in 1986, at A-C grades; 4 O levels in 1996, 3 at A-C grades and 1 at a lower grade; 3 CSEs in 1986, 1 at grade 1, 2 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 2 CSEs: 1 at grade 1, 1 at a lower grade. 5 O levels: 4 of them at A-C grades, 1 at a lower grade. No GCSEs.

76. CHRTID/SERIAL: 15338032
Present in BCS 1996: Yes
BCS 1996 Qualifications: 7 O levels at A-C grades; 1 CSE grade 1, no GCSEs.

77. CHRTID/SERIAL: 1714096
BCS 2000 Qualifications: 9 GCSEs, 8 in 1986, 1 in 1987; no O levels and no CSEs. Summary data says 10 GCSEs, all at A-C grades.
Present in BCS 1996: No

78. CHRTID/SERIAL: 9419066
BCS 2000 Qualifications: 6 GCSEs in 1986, 5 at A-C grades, 1 at lower grade. No O levels and no CSEs.
Present in BCS 1996: No

79. CHRTID/SERIAL: 14358006
BCS 2000 Qualifications: 8 GCSEs (6 at A-C grades, 2 at lower grades), 7 in 1986, 1 in 1987. No O levels and no CSEs.
Present in BCS 1996: Yes

80. CHRTID/SERIAL: 5585063
BCS 2000 Qualifications: 3 GCSEs in 1986, all at A-C grades; no O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: (Left school and full-time education at 16, making it very unlikely that any GCSEs). 1 CSE at below grade 1.

81. CHRTID/SERIAL: 9222061
BCS 2000 Qualifications: 2 GCSEs in 1986, both at A-C grades. 2 O levels in 1986 at A-C grades; 1 CSE in 1986 at grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: (left school and full-time education in 1986). 3 O levels at A-C grades; 3 GCSEs at A-C grades.
82. CHRTID/SERIAL: 14487037
BCS 2000 Qualifications: 2 GCSEs in 1986, both at A-C grades; no O levels or CSEs.
Present in BCS 1996: No

83. CHRTID/SERIAL: 1504065
BCS 2000 Qualifications: 9 GCSEs in 1986, all at A-C grades. No O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications

84. CHRTID/SERIAL: 5348029
BCS 2000 Qualifications: 9 GCSEs, 8 in 1986 and 1 in 1994. Summary says 7 GCSEs, 7 at A-C and 2 at lower grades. No O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 1 CSE at below grade 1, left school and full-time education at 16.

85. CHRTID/SERIAL: 5793043
BCS 2000 Qualifications: 3 GCSEs in 1985, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: No

86. CHRTID/SERIAL: 9219011
BCS 2000 Qualifications: 9 GCSEs, (7 at A-C grades, 2 at lower grades), 7 in 1986, 2 in 1987; no O levels or CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications.

87. CHRTID/SERIAL: 1367094
BCS 2000 Qualifications: 5 GCSEs in 1986, 4 at A-C and 1 at lower grade. No O levels and no CSEs.
Present in BCS 1996: No

88. CHRTID/SERIAL: 12163096
BCS 2000 Qualifications: 10 GCSEs, all at A-C grades, 8 in 1986, 1 in 1987, 1 in 1988. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications

89. CHRTID/SERIAL: 14486062
BCS 2000 Qualifications: 6 GCSEs in 1986, 3 at A-C grades, and 3 at lower grades. 2 O levels in 1986, both at A-C grades; no CSEs.
Present in BCS 1996: No

90. CHRTID/SERIAL: 15934095
BCS 2000 Qualifications: 2 GCSEs in 1986, 1 at A-C grades and 1 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 2 O levels at A-C; no GCSEs.

91. CHRTID/SERIAL: 3935034
BCS 2000 Qualifications: 5 GCSEs, all at A-C grades, 4 in 1987 and 1 in 1989. 7 O levels in 1986, all at A-C grades; no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications

92. CHRTID/SERIAL: 15648040
BCS 2000 Qualifications: 7 GCSEs, all at A-C grades; 6 in 1986 and 1 in 1991. No O levels and no CSEs.
Present in BCS 1996: No
93. CHRTID/SECRETIAL: 10366019
BCS 2000 Qualifications: 6 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications.

94. CHRTID/SECRETIAL: 9232037
Present in BCS 1996: No

95. CHRTID/SECRETIAL: 11337044
BCS 2000 Qualifications: 5 GCSEs in 1986, all at A-C grades. No O levels and no CSEs
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications. (Left school and full-time education at 17, before introduction of GCSEs).

96. CHRTID/SECRETIAL: 1412013
BCS 2000 Qualifications: 7 GCSEs: 5 in 1986 and 2 in 1987. Summary data states 8 GCSEs, 6 at A-C grades and 2 lower grades. No O levels and no CSEs
Present in BCS 1996: No

97. CHRTID/SECRETIAL: 9519043
BCS 2000 Qualifications: 1 GCSE in 1986, at A-C grade. No O levels and no CSEs
Present in BCS 1996: Yes
BCS 1996 Qualifications: 4 GCSEs at below grade C.

98. CHRTID/SECRETIAL: 13705030
BCS 2000 Qualifications: 4 GCSEs in 1984, 1 at A-C grade, 3 at lower grades. No O levels and no CSEs
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications. Left school and full-time education at 16.

99. CHRTID/SECRETIAL: 9064062
BCS 2000 Qualifications: 7 GCSEs (6 at A-C grades, 1 at lower grade), 6 in 1986 and 1 in 1987. No O levels and no CSEs
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications.

100. CHRTID/SECRETIAL: 1701094
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications.

101. CHRTID/SECRETIAL: 12625027
BCS 2000 Qualifications: 1 GCSE in 1986, at A-C grade. 3 O levels in 1986, all at A-C grades; no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications.

102. CHRTID/SECRETIAL: 10168015
Present in BCS 1996: Yes
BCS 1996 Qualifications: 4 CSEs at grade 1; 4 CSEs at other grades; 3 O levels at A-C grades; 3 GCSEs, 2 at A-C grades, 1 at a lower grade.

103. CHRTID/SECRETIAL: 1674076
BCS 2000 Qualifications: 7 GCSEs in 1986, 4 at A-C grades, 3 at lower grades. No O levels and no CSEs. Present in BCS 1996: No

104. CHRTID/SERIAL: 14718010
BCS 2000 Qualifications: 6 GCSEs in 1986, all at A-C grades. No O levels and no CSEs. Present in BCS 1996: No

105. CHRTID/SERIAL: 13305021
BCS 1996 Qualifications: 5 CSEs, 2 at grade 1, 3 at other grades; 7 O levels, 5 at A-C grades, 2 at other grades. 1 GCSE at A-C grade.

106. CHRTID/SERIAL: 13764012
BCS 2000 Qualifications: 4 GCSEs in 1986, all at A-C grades. No O levels and no CSEs. Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 CSEs, 1 at grade 1, 2 at other grades; 5 O levels, 2 at A-C and 3 at other grades. No GCSEs.

107. CHRTID/SERIAL: 16291064
BCS 2000 Qualifications: 2 GCSEs in 1987, both at A-C grades. No O levels and no CSEs. Present in BCS 1996: Yes
BCS 1996 Qualifications: 2 GCSEs at A-C grades, no other qualifications.

108. CHRTID/SERIAL: 17341038
BCS 2000 Qualifications: 7 GCSEs in 1986, 3 at A-C grades; 4 at lower grades. No O levels and no CSEs. Present in BCS 1996: No

109. CHRTID/SERIAL: 17437091
BCS 2000 Qualifications: 4 GCSEs in 9186, all at A-C grades. No O levels and no CSEs. Present in BCS 1996: Yes
BCS 1996 Qualifications: 4 CSEs: 1 at grade 1, 3 at other grades. No GCSEs or O levels.

110. CHRTID/SERIAL: 12605075
BCS 1996 Qualifications: Left school and full-time education at 16; 5 CSEs all below grade 1; 3 O levels, 2 at A-C grades, 1 at lower grade. No GCSEs.

111. CHRTID/SERIAL: 5905062
BCS 2000 Qualifications: 2 GCSEs in 1986, both at A-C grades. No O levels, 4 CSEs in 1986, all at grade 1. Present in BCS 1996: No

112. CHRTID/SERIAL: 11919005
BCS 2000 Qualifications: 10 GCSEs in 1986, 9 at A-C grades, 1 at a lower grade. 10 O levels in 1986, 9 at A-C and 1 at lower grade. No CSEs. Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 O levels at A-C grade, 1 CSE grade 1. No GCSEs.

113. CHRTID/SERIAL: 13335050
BCS 2000 Qualifications: 6 GCSEs in 1986, 4 at A-C and 2 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: Left school and full-time education at age 16; 5 GCSEs, 2 at A-C grade; 3 at lower grades; no O levels or CSEs.

114. CHRTID/SERIAL: 11676005
BCS 2000 Qualifications: 2 GCSEs in 1986, 1 at A-C and 1 at lower grade. 2 O levels in 1986, 1 at A-C and 1 at lower grade; 1 CSE in 1986 at grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 1 CSE grade 1; 3 O levels at A-C grades. No GCSEs.

115. CHRTID/SERIAL: 8604090
BCS 2000 Qualifications: 7 GCSEs in 1986, 5 at A-C grades, and 2 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at 16, 3 CSEs at grade 1, 4 O levels, all below grade C.

116. CHRTID/SERIAL: 16639266
BCS 2000 Qualifications: 8 GCSEs in 1986, 2 at A-C grades, and 6 at lower grades. No O levels and no CSEs.
Present in BCS 1996: No

117. CHRTID/SERIAL: 14676040
BCS 2000 Qualifications: 1 GCSE in 1987, at A-C grade. 7 O levels in 1986, all at A-C grade; no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 O levels at A-C grades; 1 CSE at below grade 1.

118. CHRTID/SERIAL: 15215077
BCS 2000 Qualifications: 6 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: (left school and full-time education at age 16), 6 O levels at A-C grades, no GCSEs.

119. CHRTID/SERIAL: 262062
Present in BCS 1996: Yes
BCS 1996 Qualifications: claims to have left school and full-time education at age 15, and has ticked the box for ‘no qualifications’.

120. CHRTID/SERIAL: 12693010
Present in BCS 1996: Yes
BCS 1996 Qualifications: 6 O levels at A-C grades, 1 GCSE at A-C grade.

121. CHRTID/SERIAL: 10441068
BCS 2000 Qualifications: 4 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16, 5 CSEs all at below grade 1, no GCSEs.

122. CHRTID/SERIAL: 15814065
BCS 2000 Qualifications: 6 GCSEs in 1986, 3 at A-C grades and 3 at lower grades. No O levels and no CSEs.
Present in BCS 1996: No

123. CHRTID/SERIAL: 16007075
Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 CSEs at below grade 1, no GCSEs.

124. CHRTID/Serial: 5773091
BCS 2000 Qualifications: 3 GCSEs in 1986, all at A-C grades. No O levels; 4 CSEs in 1986, 1 at grade 1, 3 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 7 GCSEs at below grade C; no O levels or CSEs.

125. CHRTID/Serial: 10481073
BCS 2000 Qualifications: 6 GCSEs in 1986; summary data suggests 9 GCSEs, 8 at A-C grades, 1 at a lower grade. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 O levels at A-C grades; no GCSEs.

126. CHRTID/Serial: 2832053
BCS 2000 Qualifications: 6 GCSEs in 1986; summary data suggests 9 GCSEs all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 9 O levels at A-C grades; no GCSEs.

127. CHRTID/Serial: 14225075
BCS 2000 Qualifications: 1 GCSE in 1987, at below grade C. No O levels. 4 CSEs in 1986, all at grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 CSEs, 2 at grade 1, and 1 at a lower grade; 1 O level at A-C grade; 1 GCSE at below grade C.

128. CHRTID/Serial: 2816001
BCS 2000 Qualifications: 3 GCSEs in 1987, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: No

129. CHRTID/Serial: 7103050
BCS 2000 Qualifications: 8 GCSEs in 1986, 4 at A-C grades and 4 at lower grades. No O levels and no CSEs.
Present in BCS 1996: No

130. CHRTID/Serial: 3522023
BCS 2000 Qualifications: 1 GCSE in 1986 at below grade C; 6 O levels in 1986, 2 at A-C grades and 4 at lower grades. 7 CSEs in 1986, 2 at grade 1 and 5 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 7 CSEs, 2 at grade 1 and 5 at lower grades; 6 O levels, 2 at A-C grades and 4 at lower grades. No GCSEs.

131. CHRTID/Serial: 3524074
BCS 2000 Qualifications: 4 GCSEs in 1986, 3 at A-C grades and 1 at a lower grade. No O levels and no CSEs.
Present in BCS 1996: No

132. CHRTID/Serial: 3323044
BCS 2000 Qualifications: 8 GCSEs in 1986, 1 at A-C grades and 7 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16; 7 CSEs all below grade 1; no O levels or GCSEs.
133. CHRTID/SERIAL: 160034
BCS 2000 Qualifications: 5 GCSEs in 1986, 5 at A-C grades and 1 at a lower grade. 2 O levels in 1986, both at A-C grades; no CSEs.
Present in BCS 1996: No

134. CHRTID/SERIAL: 2740001
Present in BCS 1996: No

135. CHRTID/SERIAL: 15240029
BCS 2000 Qualifications: 8 GCSEs, 4 in 1986 and 4 in 1987, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 10 O levels, 8 at A-C grades and 2 at lower grades; 4 CSEs, 3 at grade 1 and 1 at a lower grade; no GCSEs.

136. CHRTID/SERIAL: 3463026
BCS 2000 Qualifications: 3 GCSEs in 1986, 2 at A-C grades and 1 at a lower grade. 5 O levels in 1986, all at A-C grades; 4 CSEs in 1986, 3 at grade 1 and 1 at a lower grade.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 5 O levels at A-C grade; 4 CSEs, 3 at grade 1 and 1 at a lower grade; 3 GCSEs, 2 at A-C grades and 1 at a lower grade.

137. CHRTID/SERIAL: 8722069
BCS 2000 Qualifications: 8 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: No

138. CHRTID/SERIAL: 59058
Present in BCS 1996: Yes
BCS 1996 Qualifications: 7 CSEs, 2 at grade 1 and 5 at other grades; 6 O levels, 3 at A-C grades and 3 at other grades; 1 GCSE at A-C grade.

139. CHRTID/SERIAL: 6565089
BCS 2000 Qualifications: 9 GCSEs in 1986, both at A-C grades; no O levels; 3 CSEs in 1986, 1 at grade 1 and 2 at other grades.
Present in BCS 1996: No

140. CHRTID/SERIAL: 83035
BCS 2000 Qualifications: 6 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at 16; 6 CSEs, with 2 at grade 1 and 4 at other grades; no O levels and no GCSEs.

141. CHRTID/SERIAL: 6912091
BCS 2000 Qualifications: 9 GCSEs in 1986; 4 at A-C grades and 5 at other grades; No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 CSEs, 1 at grade 1 and 2 at lower grades; 4 O levels at A-C grades; 1 GCSE at A-C grade.

142. CHRTID/SERIAL: 10235038
BCS 2000 Qualifications: 6 GCSEs in 1986, 5 at A-C grades and 1 at a lower grade. No O levels; 5 CSEs, all at grade 1, 2 in 1991 and 3 in 1992.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 CSEs, 1 at grade 1; 7 at lower grades; 5 GCSEs, 3 at A-C grades and 2 at lower grades.

143. CHRTID/SERIAL: 11719051
BCS 2000 Qualifications: 6 GCSEs, 3 in 1986, 1 in 1992, 2 in 1993; summary data suggests 9 GCSEs, 2 at A-C grades and 7 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 6 CSEs, all below grade 1; 2 O levels at A-C grades; 4 GCSEs, 2 at A-C grades and 2 at lower grades.

144. CHRTID/SERIAL: 9515042
Present in BCS 1996: Yes
BCS 1996 Qualifications: 1 CSE at grade 1; 5 O levels at A-C grades; 4 GCSEs at below grade C.

145. CHRTID/SERIAL: 10695004
BCS 2000 Qualifications: 1 GCSE in 1986, at below grade C; 6 O levels in 1986, 4 at A-C grades, 2 at lower grades; 2 CSEs in 1986, 1 at grade 1, and 1 at other grade.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16; 2 CSEs, 1 at grade 1 and 1 at lower grade; 5 O levels, 4 at A-C grade, 1 at other grade; 1 GCSE at below grade C.

146. CHRTID/SERIAL: 8599075
BCS 2000 Qualifications: 4 GCSEs in 1987, all at A-C grades; 2 O levels in 1986, 1 at A-C grades, and 1 at lower grade; 5 CSEs in 1986, 2 at grade 1 and 3 at lower grades.
Present in BCS 1996: No

147. CHRTID/SERIAL: 9560047
BCS 2000 Qualifications: 9 GCSEs, 7 in 1986 and 2 in 1987; 6 at A-C grades and 3 at lower grades. No O levels and no CSEs.
Present in BCS 1996: No

148. CHRTID/SERIAL: 2988063
BCS 2000 Qualifications: 7 GCSEs in 1986, all at below grade C. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 7 CSEs, all at below grade 1. No O levels and no GCSEs.

149. CHRTID/SERIAL: 11925081
BCS 2000 Qualifications: 8 GCSEs in 1986, 6 at A-C grades and 2 at other grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 5 O levels at A-C grades, and 2 CSEs at grade 1. No GCSEs.

150. CHRTID/SERIAL: 189064
BCS 2000 Qualifications: 9 GCSEs in 1986, 4 at A-C grades and 5 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 6 CSEs, 3 at grade 1 and 3 at lower grades; 1 O level at A-C grade; no GCSEs.

151. CHRTID/SERIAL: 11862083
BCS 2000 Qualifications: 8 GCSEs in 1986, 4 at A-C grades and 4 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16, 5 CSEs, 1 at grade 1 and 4 at lower grades; 5 O levels, 1 at A-C and 4 at lower grades; no GCSEs.

152. CHRTID/SERIAL: 16526038
BCS 2000 Qualifications: 2 GCSEs in 1986, both at A-C grades. No O levels and no CSEs.
<table>
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<tbody>
<tr>
<td>6135051</td>
<td>9 GCSEs in 1986, 5 at A-C grades and 4 at other grades.</td>
<td>Yes</td>
<td>9 O levels, 5 at A-C grades, and 4 at other grades. No GCSEs.</td>
</tr>
<tr>
<td>12418022</td>
<td>9 GCSEs in 1986, 8 at A-C grades and 1 at other grade.</td>
<td>Yes</td>
<td>left school and full-time education at age 16; 7 CSEs, 1 at grade 1 and 6 at lower grades; 1 GCSE at A-C grade.</td>
</tr>
<tr>
<td>2961084</td>
<td>5 GCSEs in 1986, all at A-C grades; 7 O levels in 1985, 2 at A-C grades and 5 at lower grades. No CSEs.</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3563003</td>
<td>5 GCSEs in 1986, all at A-C grades; No O levels and no CSEs.</td>
<td>Yes</td>
<td>left school and full-time education at age 16; 8 O levels all at A-C grades; No GCSEs or CSEs.</td>
</tr>
<tr>
<td>11633075</td>
<td>7 GCSEs (5 at A-C grades and 2 at lower grades), 5 in 1986 and 2 in 1989. No O levels and no CSEs.</td>
<td>Yes</td>
<td>left school and full-time education at age 16; 2 CSEs at below grade 1; 7 O levels, 2 at A-C grades and 5 at lower grades. No GCSEs.</td>
</tr>
<tr>
<td>12218068</td>
<td>9 GCSEs in 1986, 8 at A-C grade and 1 at lower grade. No O levels and no CSEs.</td>
<td>Yes</td>
<td>8 O levels at A-C grades; no GCSEs or CSEs.</td>
</tr>
<tr>
<td>2985037</td>
<td>5 GCSEs in 1986, 1 at A-C grade and 4 at lower grades. 2 O levels in 1986, both at A-C grades, 1 CSE in 1986 at grade 1.</td>
<td>Yes</td>
<td>left school and full-time education at 17; 1 CSE grade 1; 6 O levels, 3 at A-C, 3 at other grades.</td>
</tr>
<tr>
<td>2986012</td>
<td>5 GCSEs in 1986, all at below C grade; 1 O level in 1987, at A-C grade; 8 CSEs all at below grade 1, 5 in 1986 and 3 in 1987.</td>
<td>Yes</td>
<td>7 CSEs at below grade 1; 4 O levels, 1 at grade A-C, 3 at below C grade; no GCSEs.</td>
</tr>
<tr>
<td>3406095</td>
<td>3 GCSEs in 1986, all at A-C grades; 4 CSEs in 1986, all below grade 1; No O levels.</td>
<td>Yes</td>
<td>left school and full-time education at age 16; 5 CSEs at below grade 1, no GCSEs.</td>
</tr>
</tbody>
</table>
162. CHRTID/SERIAL: 4233021
BCS 2000 Qualifications: 6 GCSEs in 1986, 3 at A-C and 3 at other grades. No O levels and no CSEs.
Present in BCS 1996: No

163. CHRTID/SERIAL: 8911072
BCS 2000 Qualifications: 5 GCSEs in 1986, 4 at A-C grades and 1 at other grade; no O levels; 1 CSE in 1986, at below grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 CSEs at below grade 1; 4 GCSEs at A-C grades.

164. CHRTID/SERIAL: 7465090
BCS 2000 Qualifications: 5 GCSEs in 1986, 1 at A-C grade and 4 at other grades. 5 O levels in 1986, 1 at A-C grade and 4 at lower grades; 3 CSEs in 1986, 1 at grade 1 and 2 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16; no information on qualifications.

165. CHRTID/SERIAL: 8935025
BCS 2000 Qualifications: 4 GCSEs in 1986, 2 at A-C grades and 2 at lower grades; No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 CSEs all at below grade 1; 4 O levels, 1 at A-C grade, 3 at lower grades; no GCSEs.

166. CHRTID/SERIAL: 4482082
BCS 2000 Qualifications: 2 GCSEs, both at A-C grade, 1 in 1987 and 1 in 1989. 3 O levels in 1986, all at A-C grades; 5 CSEs in 1986, 2 at grade 1 and 3 at lower grades.
Present in BCS 1996: No

167. CHRTID/SERIAL: 9735049
BCS 2000 Qualifications: 2 GCSEs in 1986, both at A-C grades; No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16; No O levels and no CSEs; 2 GCSEs at A-C grades.

168. CHRTID/SERIAL: 15607060
BCS 2000 Qualifications: 5 GCSEs in 1987, 3 at A-C grades and 2 at lower grades; 2 O levels in 1986, both at A-C grades; 1 CSE in 1986 at grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 4 CSEs at below grade 1; 4 O levels, 1 at A-C grade and 3 at other grades; 1 GCSE at A-C grade.

169. CHRTID/SERIAL: 10367095
BCS 2000 Qualifications: 3 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and f/t education at age 16; no information on qualifications.

170. CHRTID/SERIAL: 13324099
BCS 2000 Qualifications: 7 GCSEs in 1986, 4 at A-C grades and 3 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16; 2 CSEs at below grade 1; 4 O levels at A-C grades; 1 GCSE at below grade C.

171. CHRTID/SERIAL: 10214010
BCS 2000 Qualifications: 8 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
172. CHRTID/SERIAL: 6443008
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16; 7 CSEs, 1 at grade 1, and 6 at lower grades; 2 O levels at A-C; 1 GCSE at A-C grade.

173. CHRTID/SERIAL: 10583000
BCS 2000 Qualifications: 7 GCSEs in 1986, 4 at A-C grades and 3 at lower grades; no O levels; 3 CSEs in 1986, all at below grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 3 CSEs, 1 at grade 1, 2 at lower grades; 3 O levels at A-C grades. No GCSEs.

174. CHRTID/SERIAL: 10287070
BCS 2000 Qualifications: 10 GCSEs in 1986, all at A-C grades; no O levels; 5 CSEs in 1986, 2 at grade 1 and 3 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: claims to have left school and full-time education at 15; no information on qualifications.

175. CHRTID/SERIAL: 9721072
BCS 2000 Qualifications: 6 GCSEs in 1986, 4 at A-C grades and 2 at lower grades. No O levels and no CSEs.
Present in BCS 1996: No

176. CHRTID/SERIAL: 9459071
BCS 2000 Qualifications: 3 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: (left school and f/t education at 16), 4 CSEs at below grade 1; no O levels or GCSEs.

177. CHRTID/SERIAL: 170011
BCS 2000 Qualifications: 5 GCSEs in 1986, 3 at A-C grades and 2 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16; 3 CSEs at below grade 1; no O levels or GCSEs.

178. CHRTID/SERIAL: 5701006
BCS 2000 Qualifications: 2 GCSEs in 1986, both at A-C grades; no O levels; 4 CSEs in 1986, 1 at grade 1 and 3 at lower grades.
Present in BCS 1996: No

179. CHRTID/SERIAL: 174011
BCS 2000 Qualifications: 5 GCSEs in 1986, 3 at A-C grades and 2 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16; 3 CSEs at below grade 1; no O levels or GCSEs.

180. CHRTID/SERIAL: 10778055
BCS 2000 Qualifications: 2 GCSEs in 1987, both at A-C grades. No O levels, 6 CSEs in 1986, all at below grade 1.
Present in BCS 1996: No
181. CHRTID/SERIAL: 8561044
BCS 2000 Qualifications: 5 GCSEs in 1986, 2 at A-C grades and 3 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16. 5 CSEs at below grade 1; 2 O levels at below grade C. No GCSEs.

182. CHRTID/SERIAL: 8471043
BCS 2000 Qualifications: 5 GCSEs in 1986, 4 at A-C grades, 1 at a lower grade. No O levels and no CSEs.
Present in BCS 1996: No

183. CHRTID/SERIAL: 5533031
BCS 2000 Qualifications: 5 GCSEs in 1986, 1 at A-C grade, 4 at lower grades; 1 O level in 1986 at A-C grade; 1 CSE in 1986 at grade 1.
Present in BCS 1996: No

184. CHRTID/SERIAL: 6072053
BCS 2000 Qualifications: 2 GCSEs, both below grade C, 1 in 1986, 1 in 1987. 5 O levels in 1986, 3 at A-C grades, 2 at lower grades; no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 4 CSEs at below grade 1; 6 O levels, 4 at A-C, 2 at other grades; no GCSEs.

185. CHRTID/SERIAL: 12158096
BCS 2000 Qualifications: 1 GCSE in 1986, at A-C grades; 5 O levels in 1986, 2 at A-C grades and 3 at lower grades; no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: No information on qualifications.

186. CHRTID/SERIAL: 8701041
BCS 2000 Qualifications: 10 GCSEs in 1986, 6 at A-C grades and 4 at lower grades.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 5 CSEs, 1 at grade 1 and 4 at other grades; 3 O levels at A-C grades; no GCSEs.

187. CHRTID/SERIAL: 4493033
BCS 2000 Qualifications: 5 GCSEs, all at A-C grades, 2 in 1987 and 3 in 1988. 2 O levels in 1986, both at A-C grades; no CSEs.
Present in BCS 1996: No

188. CHRTID/SERIAL: 4529028
BCS 2000 Qualifications: 8 GCSEs in 1986, 5 at A-C grades and 3 at lower grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at 16; no information on qualifications.

189. CHRTID/SERIAL: 4532078
BCS 2000 Qualifications: 8 GCSEs in 1986, 3 at A-C and 5 at other grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 4 CSEs, 1 at grade 1 and 3 at other grades; 1 O level at A-C grade; no GCSEs.

190. CHRTID/SERIAL: 13050095
BCS 2000 Qualifications: 4 GCSEs in 1986, all at below C grade; No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 5 O levels at below grade C; GCSE below grade C coded as –3.

191. CHRTID/SERIAL: 1443017
BCS 2000 Qualifications: 3 GCSEs in 1986, all at A-C grades; 4 O levels in 1986, 2 at A-C grades and 2 at other grades.
Present in BCS 1996: No

192. CHRTID/SERIAL: 12326071
BCS 2000 Qualifications: 9 GCSEs in 1986, 7 at A-C grades, 2 at other grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 10 O levels, 7 at A-C grades, 3 at lower grades; no GCSEs.

193. CHRTID/SERIAL: 1437042
BCS 2000 Qualifications: 6 GCSEs in 1986, all at A-C grades. No O levels and no CSEs.
Present in BCS 1996: No

194. CHRTID/SERIAL: 1639047
BCS 2000 Qualifications: 7 GCSEs in 1986, 1 at A-C, 6 at other grades; No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 8 GCSEs at A-C grades; No O levels and no CSEs.

195. CHRTID/SERIAL: 10678078
BCS 2000 Qualifications: 7 GCSEs in 1986, 5 at A-C and 2 at other grades. No O levels. 2 CSEs in 1986, both at grade 1.
Present in BCS 1996: No

196. CHRTID/SERIAL: 2567026
BCS 2000 Qualifications: 6 GCSEs in 1986, 4 at A-C grades and 2 at other grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 6 GCSEs at below grade C, No O levels and no CSEs.

197. CHRTID/SERIAL: 13648084
BCS 2000 Qualifications: 2 GCSEs in 1985, both at A-C grades. No O levels and no CSEs.
Present in BCS 1996: No

198. CHRTID/SERIAL: 5609031
BCS 2000 Qualifications: 5 GCSEs in 1986, 3 at A-C and 2 at other grades. No O levels; 3 CSEs in 1986, all at below grade 1.
Present in BCS 1996: Yes
BCS 1996 Qualifications: left school and full-time education at age 16; 4 CSEs, all below grade 1. No GCSEs.

199. CHRTID/SERIAL: 12041190
BCS 2000 Qualifications: 6 GCSEs in 1986, 4 at A-C grades and 2 at other grades. No O levels and no CSEs.
Present in BCS 1996: Yes
BCS 1996 Qualifications: 5 CSEs, 2 at grade 1 and 3 at other grades; 3 O levels, 2 at A-C grades and 1 at other grade; 1 GCSE at A-C grade.

200. CHRTID/SERIAL: 509063
BCS 2000 Qualifications: 4 GCSEs in 1986, all at A-C grades; No O levels and no CSEs.
Present in BCS 1996: No
Report on GCSE date errors, Appendix 1. (Andrew Jenkins)

From: Andrew Jenkins [mailto:A.Jenkins@sta02.ioe.ac.uk]
Sent: Thursday, May 24, 2001 5:15 PM
To: Peter Shepherd (E-mail)
Subject: cleaning up ncds

Peter,

Here is a word file containing the actions which I've taken to produce an NCDS 6 dataset which is clean of erroneous dates for GCSEs. All those reporting pre-1988 GCSEs have been altered in the light of the information contained un NCDS 5 and the Exams file. I've tried to adopt a sensible solution for each case.

In the few cases where there is literally no data, we have simply recoded to CSEs.

I've done this by going into the dataset and changing the variables that need to be changed.

I can e-mail you the altered version of NCDS 6 education data in an spss file, or just the 94 cases which have been changed if that would be useful.

regards

Andrew

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APPENDIX 7: Highest Qualification

Documentation relating to highest qualification produced by the following is reproduced below:

1. Andrew Jenkins (Institute of Education) and Gerald Makepeace (University of Cardiff)
2. Samantha Parsons, Centre for Longitudinal Studies

Queries about the contents of this appendix should be directed to the User Support Group (cohort@cls.ioe.ac.uk)

1. Andrew Jenkins and Gerald Makepeace

The table below shows how educational qualifications obtained by NCDS cohort members have been mapped into the national qualifications framework.

<table>
<thead>
<tr>
<th>Level of Qualification</th>
<th>General (Academic)</th>
<th>Vocational-relate (Applied)</th>
<th>Occupational (Vocational)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Higher Degree</td>
<td>NVQ level 5</td>
<td>PGCE</td>
</tr>
<tr>
<td>4</td>
<td>Degree HE Diploma</td>
<td>BTEC Higher Certificate/Diploma HNC/HND</td>
<td>NVQ level 4 Professional degree level qualifications Nursing/paramedic Other teacher training qualification City &amp; Guilds Part 4/Career Ext/Full Tech RSA Higher Diploma</td>
</tr>
<tr>
<td>3</td>
<td>A level AS levels Scottish Highers Scottish Cert of 6th Year Studies</td>
<td>Advanced GNVQ BTEC National Diploma ONC/OND</td>
<td>NVQ level 3 City &amp; Guilds Part 3/Final/Advanced Craft RSA Advanced Diploma Pitmans level 3</td>
</tr>
<tr>
<td>2</td>
<td>GCSE grade A*-C O levels grade A-C O levels grade D-E CSE grade 1 Scottish standard grades 1-3 Scottish lower or ordinary grades</td>
<td>Intermediate GNVQ BTEC First Certificate BTEC First Diploma</td>
<td>NVQ level 2 Apprenticeships City &amp; Guilds Part 2/Craft/Intermediate City &amp; Guilds Part 1/Other RSA First Diploma Pitmans level 2</td>
</tr>
<tr>
<td>1</td>
<td>GCSE grade D-G CSEs grades 2-5 Scottish standard grades 4-5 Other Scottish school qualification</td>
<td>Foundation GNVQ Other GNVQ</td>
<td>NVQ level 1 Other NVQ Units towards NVQ RSA Cert/Other Pitmans level 1 Other vocational qualifications HGV</td>
</tr>
</tbody>
</table>
SPSS syntax

************************** DESCRIPTION OF PROGRAM **************************.

* This program derives academic and qualifications using the 2000 data only.
* It defines a set of binary variables showing whether an individual has a particular qualification.
* These variables could then be used to devise various typologies for training.
* We also derive the highest qualification below.
* All variables based on data from the 2000 surveys end in 00.
* The interpretation of the results differs across observations.

************************** DEFINITION OF VARIABLES **************************.

* There are 2 relevant questions.
* The first asks 'Have you obtained any of the qualifications on this card since xx'.
  * If the respondent has the qualification, the second question asks 'How many did you get?'
    eg 'How many GCE O-levels did you get ..?' 'How many City and Guilds quals have you obtained ..'.
* Where possible, we have defined the variables using the responses to the questions asking
  how many qualifications of a particular type the respondent has.
* Often the respondent says none. We could interpret this as follows. The respondent said
  'I have the qualification' when asked the first question but on reflection realised that they did
  not have it. This interpretation is strengthened by the fact that the information on all types of
  qualification is collected first.
* Suppose the Cohort Member (CM) says I have a GCSE, a GCE and a CSE.
* When the interviewer goes through the number of qualifications (one qualification at a time) the
  CM realises that the GCSE was GCE and one of the CCEs was a GCE.
* The CM may know that he/she has a qualification but does not know how many O-levels, CSEs etc
  he/she has. The CM may respond 98, 99 but 0 seems unlikely if they have the qualification.
* 0 is a genuine response. The feed question for certain qualifications refers to all grades while the
  'how many questions' refer to different ranges of grades. Consider somebody who has 8 GCSEs all at grade A.
  They will
  say they have a gcse in response to the feeder question, but then answer 8 for the number of grade
  A-Cs
  (edgcse1) and 0 to for the number of grade D-Es (edgcse2).
* The code below is easily amended to reflect the programmer's preferences.
* Typically the response 'I have none of those qualification' (number equals 0) and the missing values
  for
  number of qualifications (8,9,98,99) have to be changed.
* We have intepreted 8 and 98 as 'Do not know' and 9 and 99 as 'Not Applicable'.
* We have set 8 and 98 equal to 1 (ie denoting possession of the qualification) suggesting that these values
  reflect an inability to remember the exact number of qualifications obtained.
* We have set 9 and 99 equal to 0 suggesting that the respondent has considered the case further and
  decided that he/she does not have the qualification.
* The missing value dummies set 9 for eqquals2 and vocqual equal to 0.
* Not Applicable is an odd response but it seems very close to saying 'No' I do not have any of the
  quals.

******************** INTERPRETATION OF VARIABLES ********************.

* The BCS70 qualifications are collected at ages 26 and 30. The age 16 questions refer to
  future examinations (ie the survey took place before the exams were taken).
* This program uses the age 30 data (from the 2000 survey). The routing questions ask 'Have you obtained any of the qualifications on this card since April 1986'. Since most school exams were taken in the summer, it is therefore a summary of 'have you ever had this qualification'. It could perhaps be improved by comparing it to the age 26 data but there are differences in the form of the question and the method of collecting the data.
* The age 26 survey was a postal survey with a smaller sample than the age 30 sample and there is less detail in the questions asked at 26.

* NCDS has regularly collected information on qualifications. The questions in 2000 asked 'whether the qualification has been obtained since the age of 33' for individuals in NCDS V and 'whether the qualification has been obtained since the age of 23' for individuals not in NCDS V.
* It is therefore a good summary of 'have you got this qualification since you were x years old'.

*************** EXAMPLE AND AN IMPLICATION OF OUR APPROACH  ********************

* Consider the following code for the variable odeg00=1 if he/she has any other degree level qualifications.
* We generate this from the answer to 'how many other degree level qualifications do you have?' (numothdg)
  using the following code.

* recode numothdg (missing=0) (0=0) (98=1)(99=0) (1 thru hi=1) into odeg00.
* variable labels odeg00 "Other degree level quals such as graduate membership of professional institutes".

* A crosstabs of numothdg by odeg00 shows that there 99 zeros for numothdeg that give odeg00=0 and
  1 value of 98 that gives odeg00=1.

* We could have defined the alternative measure, ALTodeg, based on the question 'Do you have any of
  the following qualifications?' If the individual has 'other degree level qualifications', these are
  recorded as the value 9 in one of the variables edqtyp14 to edqtyp26. The code for this variable is below.

* compute ALTodeg=0 .
* if (any(9,edqtyp14,edqtyp15,edqtyp16,edqtyp17,edqtyp18,edqtyp19,edqtyp20,edqtyp21,
  edqtyp22,edqtyp23,edqtyp24,edqtyp25,edqtyp26) ) ALTodeg=1 .

* A crosstabs of ALTodeg by odeg00 shows that there are 99 respondents with ALTodeg not equal
  odeg00 corresponding to the 99 zeros for numothdeg. This is a large number since there are 963
  observations with odeg00=1.

* Many people have used the definition similar to ALTodeg rather than the present one.

*************** MISSING VALUES ***********************

* We begin by giving missing values the value 0. We later adjust the data for missing values.
* Some analysis below shows that there are few genuinely missing values. The feed questions are
  'Have you obtained any of the qualifications on this card? with separate cards for educational and
  vocational questions. The answers to these questions are contained in edquals2 and vocqual.
* (Be careful as there are variables with similar names for the proxy returns.) .
* The possible answers to the feed questions are Yes, No, 8, 9, missing.
* We treat an answer of Yes or No as saying that we have information on whether the interviewee has
  one or more of the qualifications.
* The same 66 observations have missing values for both the educational and vocational questions.
* A further 50 of the educational and 44 of the vocational answers are 8 or 9.
* There are 28 values of 8 or 9 for both the educational and vocational questions.
* The variables allmiss, acamiss and vocmiss capture the missing answers.

* No respondents have 8 or 9 for the feeder question but subsequently report a qualification.
* (Based on edqtyp14 and voctyp12 only).

**********************************  PROXY INTERVIEWS  **********************************
* We have not picked up the observations (perhaps 26) given for proxy interviews.
* Proxy returns occur when someone completed the form on behalf of the CM.
* The variable identifying a proxy interview is IntWho in the Household Grid and Housing
  but we did not extract that information and it is not used below.

* A measure (proxy=1) of whether the form is completed by a proxy is computed below .
* From the data available to us at present, there are 26 interviews completed by proxy.

* Be careful because many of the variables only refer to proxy interview
  eg agelfte2, edquals and vocquals are for proxies,
  edqtyp01 to edqtyp13, voctyp01 to voctyp11 are completed by proxies.
* edqtyp14 to edqtyp26, voctyp12 to voctyp22 are completed by CMs .

***********************************  GCSE  ********************************************
* An apparently large proportion of the BCS70 cohort claim to have done GCSEs. They
  were one of the last cohorts to do GCE/CSE at school. This program does not resolve
  the issues raised by this although it seems clear that some respondents have not
  identified the exams that they took properly.

********************* ADAPTING THE CODE  **********************************************
* The code be could be simplified by merging the recode and other commands. For example,
  the opening code below could be written as .
* recode edgcse1 edgcse2  (missing=0) (0=0) (98=1) (99=0) (1 thru hi =1) into gcsehi00 gcselo00 .
* variable labels  csehi00  "Has CM obtained one or more CSEs at grade 1?"
*  /                  cselo00  "Has CM obtained one or more CSEs at grades 2 to 5?".
* (Be careful. Some variables use 9 as a missing value but 9 is a legitimate value for other
  variables.) .

* The program is divided into sections because the PC on which it was developed could not
  handle the whole lot in one go.
* Make sure 98, 99 are before (1 thru hi) if you want them to be 0 or else they will be coded 1.
* In these cases, hi is 13 and 9 respectively.

variable labels gcsehi00 "Has CM obtained one or more GCSEs at grades A to C ?".
variable labels gcselo00 "Has CM obtained one or more GCSEs at grades D to E ?".

recode edolev1 (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into olevhi00 .
recode edolev2 (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into olevlo00 .
* Hi is 15 and 11.

variable labels olevhi00 "Has CM obtained one or more O levels at grades A to C?".
variable labels olevlo00 "Has CM obtained one or more O levels at grades D to E?".

recode edcse1 (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into csehi00 .
recode edcse2 (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into cselo00 .
* Hi is 12 and 11.

variable labels csehi00 "Has CM obtained one or more CSEs at grade 1?".
variable labels cselo00 "Has CM obtained one or more CSEs at grades 2 to 5?".

************** AS AND A-LEVELS **********************

recode edasl1 (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into aslhi00 .
recode edasl2 (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into asllo00 .
* Hi is 9 and 7.

variable labels aslhi00 "Has CM obtained one or more AS levels at grades A to C?".
variable labels asllo00 "Has CM obtained one or more AS levels at grades D to G?".

compute Naslev00=edasl1 .
recode Naslev00 (missing=0) (98=1) (99=0) .

variable labels Naslev00 "Number of AS level passes at grade A-C".

recode edgcasl1 (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into alevhi00 .
recode edgcasl2 (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into alevlo00 .

compute alev00=alevhi00 + alevlo00 .
recode alev00 (0=0) (1,2=1) .

variable labels alevhi00 "Has CM obtained one or more A levels at grades A to C?".
variable labels alevlo00 "Has CM obtained one or more A levels at grades D to E?".
variable labels alev00 "Has CM obtained any A level passes at any grade?".

compute t1=edgcasl1 .
compute t2=edgcasl2 .
recode t1 (missing=0) (98=1) (99=0) .
recode t2 (missing=0) (98=1) (99=0) .

* Someone with a 98 or 99 only gets 1 A-level.
compute Nalev00 = t1+t2 .

variable labels Nalev00 "Number of A level passes at any grade".

*************** SCOTTISH SCHOOL QUALIFICATIONS ***************
*freq edscot1 edscot2 edscot3 edscot4 edscot5 edscot6 .
* The Scottish qualifications are in edscot1 to edscot6 although edscot5 and edscot6 only have missing values.

* This is not obvious from documentation.

compute scotlo00=0.
compute scot200=0.
compute scot300=0.
compute scot400=0.
compute scot500=0.
compute scot600=0.

variable labels scotlo00 "Has CM obtained Scottish SCE standard grades 4-5 or equivalent?".
variable labels scot200 "Has CM obtained Scottish SCE standard grades 1-3 or equivalent?".
variable labels scot300 "Has CM obtained Scottish SUPE-SLC lower or ordinary grade?".
variable labels scot400 "Has CM obtained Scottish SCE-SUPE-SLC higher grade or equivalent?".
variable labels scot500 "Has CM obtained Scottish Certificate of 6th Year Studies?".
variable labels scot600 "Has CM obtained other Scottish school qualification?".

* Scottish higher equivalent to A level in IFS definitions.

if ( any(1,edscot1,edscot2,edscot3,edscot4,edscot5,edscot6) ) scotlo00=1.
if ( any(2,edscot1,edscot2,edscot3,edscot4,edscot5,edscot6) ) scot200=1.
if ( any(3,edscot1,edscot2,edscot3,edscot4,edscot5,edscot6) ) scot300=1.
if ( any(4,edscot1,edscot2,edscot3,edscot4,edscot5,edscot6) ) scot400=1.
if ( any(5,edscot1,edscot2,edscot3,edscot4,edscot5,edscot6) ) scot500=1.
if ( any(6,edscot1,edscot2,edscot3,edscot4,edscot5,edscot6) ) scot600=1.

*************** DEGREES  ******************.

* Is 9 the missing value for numdeg.

recode numdeg (missing=0) (0=0) (9=0) (1 thru hi=1) into deg00.

* Hi is 4.

variable labels deg00 "Has CM obtained a degree?".

recode numothdg (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into odeg00.

* hi = 6.

variable labels odeg00 "Other degree level quals such as graduate membership of professional institutes".

compute ALTodeg=0.
if ( any(9,edqtyp14,edqtyp15,edqtyp16,edqtyp17,edqtyp18,edqtyp19,edqtyp20,edqtyp21, edqtyp22,edqtyp23,edqtyp24,edqtyp25,edqtyp26) ) ALTodeg=1.

*crosstabs ALTodeg by odeg00.
*crosstabs numothdg by odeg00.

recode numhghdg (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into hdeg00.

* hi = 3, no 98 or 99.

variable labels hdeg00 "Has CM obtained a higher degree?".

*************** NURSING, DIPLOMAS, PGCE  ***************.

*There are 3 values for edqtyp21, all the values for edqtyp22 to edqtyp26 are missing.

compute dip00=0.
if ( any(7,edqtyp14,edqtyp15,edqtyp16,edqtyp17,edqtyp18,edqtyp19,edqtyp20,edqtyp21, edqtyp22,edqtyp23,edqtyp24,edqtyp25,edqtyp26) or (numotht > 0 & numotht < 15)) dip00=1.
variable labels dip00 "Diploma-Certificate-Teacher Training Qual (not pgce) in Higher Ed".
* 357 have 1 teacher training qualification. 1 person has 12.

recode numparam (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into nurse00 .
* hi=15 No 98 or 99.

variable labels nurse00 "Has CM obtained any nursing or paramedic qualifications?".

compute pgce00=0 .
If (any(12,edqtyp14,edqtyp15,edqtyp16,edqtyp17,edqtyp18,edqtyp19,
edqtyp20,edqtyp21,edqtyp22,edqtyp23,edqtyp24,edqtyp25,edqtyp26)) pgce00=1

variable labels pgce00 "Has CM obtained a PGCE or other postgraduate certificate in HE?".

execute .

**********  ONC or OND AND HNC or HND **************.
recode voconc (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into oncond00 .
* hi=7 .

variable labels oncond00 "Does CM have ONC or OND?".

recode vochnc (missing=0) (0=0) (9=0) (98=1) (99=0) (1 thru hi=1) into hnchnd00 .
* hi=4. One value of 9.

variable labels hnchnd00 "Does CM have HNC or HND?".

*****   BTECS *****.
compute btec100=0 .
compute btec200=0 .

variable labels btec100 "Does CM have a BTEC etc First-General Certificate?".
variable labels btec200 "Does CM have a BTEC etc First-General Diploma?".

compute btec300=0 .
compute btec400=0 .

variable labels btec300 "Does CM have a BTEC etc National Certificate Diploma?".
variable labels btec400 "Does CM have a BTEC etc Higher Certificate Diploma?".

compute btec500=0 .

variable labels btec500 "Does CM have other BTEC qualification?".

if (any(1,bteclev,bteclev2,bteclev3,bteclev4,bteclev5,bteclev6,bteclev7,bteclev8,bteclev9,
bteclev10,bteclev11,bteclev12,bteclev13,bteclev14,bteclev15)) btec100=1 .

if (any(2,bteclev,bteclev2,bteclev3,bteclev4,bteclev5,bteclev6,bteclev7,bteclev8,bteclev9,
bteclev10,bteclev11,bteclev12,bteclev13,bteclev14,bteclev15)) btec200=1 .

if (any(3,bteclev,bteclev2,bteclev3,bteclev4,bteclev5,bteclev6,bteclev7,bteclev8,bteclev9,
bteclev10,bteclev11,bteclev12,bteclev13,bteclev14,bteclev15)) btec300=1 .

if (any(4,bteclev,bteclev2,bteclev3,bteclev4,bteclev5,bteclev6,bteclev7,bteclev8,bteclev9,
bteclev10,bteclev11,bteclev12,bteclev13,bteclev14,bteclev15)) btec400=1 .
if (any(5,bteclev,bteclev2,bteclev3,bteclev4,bteclev5,bteclev6,bteclev7,bteclev8,bteclev9,
bteclev10,bteclev11,bteclev12,bteclev13,bteclev14,bteclev15)) btec500=1 .

* Only one observation in each of bteclev9 to bteclev15. All have first or general certificate.
* Some values equal to 9 eg 89 observations with 9 for bteclev.

***** CITY AND GUILDS *****.
compute city100=0 .
compute city200=0 .
compute city300=0 .
compute city400=0 .
compute city500=0 .
variable labels city100 "Does CM have a City and Guilds Part 1 ".
variable labels city200 "Does CM have a City and Guilds Part 2 or Craft or Intermediate".
variable labels city300 "Does CM have a City and Guilds Part 3 or Final or Advanced Craft".
variable labels city400 "Does CM have a City and Guilds Part 4 or Career Extension or Full technological".
variable labels city500 "Does CM have a City and Guilds Other C&G qualification".

If (any(1,citylev,citylev2,citylev3,citylev4,citylev5,citylev6,citylev7,citylev8,citylev9,citylev10,citylev11,
citylev12,citylev13,citylev14,citylev15)) city100=1 .
If ( any(2,citylev,citylev2,citylev3,citylev4,citylev5,citylev6,citylev7,citylev8,citylev9,citylev10,citylev11,
citylev12,citylev13,citylev14,citylev15)) city200=1 .
If any(3,citylev,citylev2,citylev3,citylev4,citylev5,citylev6,citylev7,citylev8,citylev9,citylev10,citylev11,
citylev12,citylev13,citylev14,citylev15) city300=1 .
If any(4,citylev,citylev2,citylev3,citylev4,citylev5,citylev6,citylev7,citylev8,citylev9,citylev10,citylev11,
citylev12,citylev13,citylev14,citylev15) city400=1 .
If any(5,citylev,citylev2,citylev3,citylev4,citylev5,citylev6,citylev7,citylev8,citylev9,citylev10,citylev11,
citylev12,citylev13,citylev14,citylev15) city500=1 .

**** RSA ***************.
compute rsa100=0 .
compute rsa200=0 .
compute rsa300=0 .
compute rsa400=0 .
compute rsa500=0 .
variable labels rsa100 "Does CM have RSA certificate?".
variable labels rsa200 "Does CM have RSA First Diploma?".
variable labels rsa300 "Does CM have RSA Advanced Diploma or Certificate?".
variable labels rsa400 "Does CM have RSA Higher Diploma" .
variable labels rsa500 "Does CM have other RSA qualification?".

If (any(1,rsalev,rsalev2,rsalev3,rsalev4,rsalev5,rsalev6,rsalev7,rsalev8,rsalev9,rsalev10,
rsalev11,rsalev12)) rsa100=1 .
If (any(2,rsalev,rsalev2,rsalev3,rsalev4,rsalev5,rsalev6,rsalev7,rsalev8,rsalev9,rsalev10,
rsalev11,rsalev12)) rsa200=1 .
If (any(3,rsalev,rsalev2,rsalev3,rsalev4,rsalev5,rsalev6,rsalev7,rsalev8,rsalev9,rsalev10,
rsalev11,rsalev12)) rsa300=1 .
If (any(4,rsalev,rsalev2,rsalev3,rsalev4,rsalev5,rsalev6,rsalev7,rsalev8,rsalev9,rsalev10,
rsalev11,rsalev12)) rsa400=1 .
If (any(5,rsalev,rsalev2,rsalev3,rsalev4,rsalev5,rsalev6,rsalev7,rsalev8,rsalev9,rsalev10,
rsalev11,rsalev12) rsa300=1.
If (any(4,rsalev,rsalev2,rsalev3,rsalev4,rsalev5,rsalev6,rsalev7,rsalev8,rsalev9,rsalev10, rsalev11,rsalev12)) rsa400=1.
If (any(5,rsalev,rsalev2,rsalev3,rsalev4,rsalev5,rsalev6,rsalev7,rsalev8,rsalev9,rsalev10, rsalev11,rsalev12)) rsa500=1.

* rsalev10 to rsalev12 only have 1 observation each. All values are for first diplomas (2).

**** PITMANS *******.
* Pitmans are only in the 2000 data.

compute pit100=0.
compute pit200=0.
compute pit300=0.
compute pit400=0.

variable labels pit100 "Does CM have a Pitmans level 1?".
variable labels pit200 "Does CM have a Pitmans level 2?".
variable labels pit300 "Does CM have a Pitmans level 3?".
variable labels pit400 "Does CM have other Pitmans qualification?".

If (any(1,pitlev,pitlev2,pitlev3,pitlev4,pitlev5,pitlev6,pitlev7)) pit100=1 .
If (any(2,pitlev,pitlev2,pitlev3,pitlev4,pitlev5,pitlev6,pitlev7)) pit200=1 .
If (any(3,pitlev,pitlev2,pitlev3,pitlev4,pitlev5,pitlev6,pitlev7)) pit300=1 .
If (any(4,pitlev,pitlev2,pitlev3,pitlev4,pitlev5,pitlev6,pitlev7)) pit400=1 .

* pitlev7 has one observation with a value of level 2.

******* NVQ ************.
* nvqs (current sweep only).

compute nvq100=0.
compute nvq200=0.
compute nvq300=0.
compute nvq400=0.
compute nvq500=0.
compute nvq600=0.
compute nvq700=0.
compute nvq800=0.

variable labels nvq100 "Does CM have an NVQ at Level 1?".
variable labels nvq200 "Does CM have an NVQ at Level 2?".
variable labels nvq300 "Does CM have an NVQ at Level 3?".
variable labels nvq400 "Does CM have an NVQ at Level 4?".
variable labels nvq500 "Does CM have an NVQ at Level 5?".
variable labels nvq600 "Does CM have an NVQ at Level 6?".
variable labels nvq700 "Does CM have Trusts towards NVQ-SVQ?".
variable labels nvq800 "Does CM have other NVQ?".

If (any(1,nvqlev,nvqlev2,nvqlev3,nvqlev4,nvqlev5,nvqlev6,nvqlev7,nvqlev8,nvqlev9,nvqlev10)) nvq100=1 .
If (any(2,nvqlev,nvqlev2,nvqlev3,nvqlev4,nvqlev5,nvqlev6,nvqlev7,nvqlev8,nvqlev9,nvqlev10)) nvq200=1 .
If (any(3,nvqlev,nvqlev2,nvqlev3,nvqlev4,nvqlev5,nvqlev6,nvqlev7,nvqlev8,nvqlev9,nvqlev10)) nvq300=1 .
If (any(4,nvqlev,nvqlev2,nvqlev3,nvqlev4,nvqlev5,nvqlev6,nvqlev7,nvqlev8,nvqlev9,nvqlev10)) nvq400=1 .
If (any(5,nvqlev,nvqlev2,nvqlev3,nvqlev4,nvqlev5,nvqlev6,nvqlev7,nvqlev8,nvqlev9,nvqlev10))
nvq500=1
If (any(6,nvqlev,nvqlev2,nvqlev3,nvqlev4,nvqlev5,nvqlev6,nvqlev7,nvqlev8,nvqlev9,nvqlev10))
nvq600=1
If (any(7,nvqlev,nvqlev2,nvqlev3,nvqlev4,nvqlev5,nvqlev6,nvqlev7,nvqlev8,nvqlev9,nvqlev10))
nvq700=1
If (any(8,nvqlev,nvqlev2,nvqlev3,nvqlev4,nvqlev5,nvqlev6,nvqlev7,nvqlev8,nvqlev9,nvqlev10))
nvq800=1

*nvqlev7 to nvqlev10 have no values.

****** GNVQ ***************
* gnvqs (current sweep only)
compute gnvq100=0 .
compute gnvq200=0 .
compute gnvq300=0 .
compute gnvq400=0 .

variable labels gnvq100 "Does CM have GNVQ Foundation?".
variable labels gnvq200 "Does CM have GNVQ Intermediate?".
variable labels gnvq300 "Does CM have GNVQ Advanced?".
variable labels gnvq400 "Does CM have other GNVQ qualification?".

If (any(1,gnvlev,gnvlev2,gnvlev3,gnvlev4,gnvlev5)) gnvq100=1 .
If (any(2,gnvlev,gnvlev2,gnvlev3,gnvlev4,gnvlev5)) gnvq200=1 .
If (any(3,gnvlev,gnvlev2,gnvlev3,gnvlev4,gnvlev5)) gnvq300=1 .
If (any(4,gnvlev,gnvlev2,gnvlev3,gnvlev4,gnvlev5)) gnvq400=1 .

*gnvlev4 and gnvlev5 have no values.

*** OTHER QUALIFICATIONS ***********
recode vocappr (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into appren00 .
* hi is 7.
variable labels appren00 "Has CM obtained any recognised trade apprentice qualifications?".
recode vochgv (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into hgv00 .
* hi is 3.
variable labels hgv00 "Has CM obtained at least one hgv qualification?".
recode vocoth (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into othvoc00 .
* hi is 15.
variable labels othvoc00 "Has CM obtained at least one other vocational qualification?".

******************************************************************************************
************************** MISSING VALUE ANALYSIS ****************************************
******************************************************************************************
* edquals2, vocqual 1='Yes' 2='No'.
* We argue that if initial feeder questions (edquals2, vocqual) are answered 'properly' then
  we know whether the individual has a qualification or not. If the answer is missing or
  'do not know' then we do not know. The code below sets all the educational qualifications
  to missing if edquals is not answered Yes or No or NA and all the vocational qualifications to
  missing if vocual is not answered Yes or No or 'Not Applicable'.

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recode edquals2 (2=0) (1=0) (8=1) (9=0) (missing=2) into acamiss.

variable label acamiss 'Dummy for missing value for do you have an educational qualification'.
value label acamiss 0 'not missing' 1 '8 (do not know)' 2 'missing'.

recode vocqual (1=0) (2=0) (8=1) (9=0) (missing=2) into vocmiss.
* vocmiss adjusted for nurse00 (nurse00 appears as an educational qualification) below.

variable label vocmiss 'Dummy for missing value for do you have a vocational qualification'.
value label vocmiss 0 'not missing' 1 '8 (do not know)' 2 'missing'.

do if (vocmiss eq 0 and acamiss eq 0).
compute allmiss =0.
else if (vocmiss eq 1 and acamiss eq 0).
compute allmiss =1.
else if (vocmiss eq 0 and acamiss eq 1).
compute allmiss =2.
else if (vocmiss eq 1 and acamiss eq 1).
compute allmiss =3.
else if (vocmiss eq 2 and acamiss eq 2).
compute allmiss =4.
end if.

variable label allmiss 'Missing values, Do you have any of these qualifications?'.
value label allmiss 0 'not missing' 1 '8 vocat quals, not missing for educ quals'
2 ' vocat quals not missing, 8 for educ quals' 3 '8 for both vocat and educ quals'
4 'missing for both vocational & educational quals'.

****** Set missing values ************

do if (acamiss gt 0).
compute gcsehi00 =-9.
compute gcselo00 =-9.
compute olevhi00 = -9.
compute olevlo00 = -9.
compute csehi00 = -9.
compute cselo00 = -9.
compute aslhi00 = -9.
compute asllo00 = -9.
compute naslev00 = -9.
compute alevhi00 = -9.
compute alevlo00 = -9.
compute navev00 = -9.
compute scotlo00 = -9.
compute scot200 = -9.
compute scot300 = -9.
compute scot400 = -9.
compute scot500 = -9.
compute scot600 = -9.
compute dip00 = -9.
compute deg00 = -9.
compute odeg00 = -9.
compute dip00 = -9.
compute hdeg00 = -9.
compute nurse00 = -9.
compute pgce00 = -9.
end if.
if (nurse00 eq 1) vocmiss eq 0.
* nurse is a vocational qualification under some typologies eg nvq but educational here.

do if (vocmiss gt 0).
    compute oncond00 =-9.
    compute hnchn00 =-9.
    compute btec100=-9.
    compute btec200=-9.
    compute btec300=-9.
    compute btec400=-9.
    compute btec500=-9.
    compute city100 = -9.
    compute city200 = -9.
    compute city300 = -9.
    compute city400 = -9.
    compute city500 = -9.
    compute rsa100 = -9.
    compute rsa200 = -9.
    compute rsa300 = -9.
    compute rsa400 = -9.
    compute rsa500 = -9.
    compute pit100 = -9.
    compute pit200 = -9.
    compute pit300 = -9.
    compute pit400 = -9.
    compute nvq100 =-9.
    compute nvq200 =-9.
    compute nvq300 =-9.
    compute nvq400 =-9.
    compute nvq500 =-9.
    compute nvq600 =-9.
    compute nvq700 =-9.
    compute nvq800 =-9.
    compute gnvq100 =-9.
    compute gnvq200 =-9.
    compute gnvq300 =-9.
    compute gnvq400 =-9.
    compute appren00=-9.
    compute hgv00 =-9.
    compute othvoc00 =-9.
end if.

missing value gcsehi00 to pgce00 oncond00 to othvoc00 (-9).
compute proxy = 0.
if (edquals gt 0) proxy =1.
* if (vocquals gt 0) proxy1 =1 not needed as proxy = proxy1.

variable label proxy 'Was interview completed by a proxy'.

* Acamiss=vocmiss=1 when proxy=1 so proxy 'accounts' for 26 of the missing values.

compute acamiss1=0.
compute vocmiss1=0.
if (missing(edqtyp14) eq 1 and missing(edqtyp15) eq 1 and missing(edqtyp16) eq 1 and missing(edqtyp17) eq 1 and missing(edqtyp18) eq 1 and missing(edqtyp19) eq 1 and missing(edqtyp20) eq 1 and missing(edqtyp21) eq 1 and missing(edqtyp22) eq 1 and
missing(edqtyp23) eq 1 and missing(edqtyp24) eq 1 and missing(edqtyp25) eq 1 and missing(edqtyp26) eq 1 ) acamiss1=1.

if (missing(voctyp12) eq 1 and missing(voctyp13) eq 1 and missing(voctyp14) eq 1 and missing(voctyp15) eq 1 and missing(voctyp16) eq 1 and missing(voctyp17) eq 1 and missing(voctyp18) eq 1 and missing(voctyp19) eq 1 and missing(voctyp20) eq 1 and missing(voctyp21) eq 1 and missing(voctyp22) eq 1 ) vocmiss1=1.

********** GOVERNMENT TRAINING SCHEMES **********.
recode numyts (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into yts00.
* hi is 15.
variable labels yts00 "Has CM done a YTS course?".
recode numgov (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into gov00.
* hi is 15.
variable labels gov00 "Has CM done another gov course (including New Deal)?".
recode numap (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into modapp00.
* hi is 3.
variable labels modapp00 "Has CM done a modern apprenticeship?".
execute.

******************************************************************************************************.
********************** SECOND BLOCK WHEN RUNNING PROGRAM **********************.
******************************************************************************************************.
************* OTHER COURSES ******************************.
recode numfqual (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into nfail00.
* Hi =11.
variable labels nfail00 "Number of courses started where CM did not obtain the qualification".
recode numac (missing=0) (0=0) (98=1) (99=0) (1 thru hi=1) into access00.
* hi is 10.
variable labels access00 "Has CM done an access course".
compute workc00=numwrktr.
recode workc00 (missing=0) (0=0) (98=1) (99=0) .
* max is 30.
variable labels workc00 "Number of other work related courses".

*************** NON WORK RELATED COURSES ***************.
compute leis00=numleis.
recode leis00 (missing=0) (0=0) (98=1) (99=0) .
* max is 15.
variable labels leis00 "Number of courses for interest or leisure".
**** READING, WRITING AND MATHS COURSES **********.

recode numread (missing=0) (0=0) (98=1) (99=0) (1=1) (2=2) (3 thru hi=3) into read00.
* max is 11.

variable labels read00 "Number of courses to improve reading".

recode numwrite (missing=0) (0=0) (98=1) (99=0) (1=1) (2=2) (3 thru hi=3) into write00.
* max is 11.

variable labels write00 "Number of courses to improve writing".
* creative writing ?.

recode nummaths (missing=0) (0=0) (98=1) (99=0) (1=1) (2=2) (3 thru hi=3) into maths00.
* max is 15.

variable labels maths00 "Number of courses to improve maths".
value labels read00 write00 maths00 3 "3 or more".

*** THERE IS A LOT ABOUT CURRENT COURSES THAT WE HAVE NOT USED **********.

**************************************************************************************************************.

********************* DUMMIES FOR GROUPS OF QUALIFICATIONS *********************.
**************************************************************************************************************.

************* HAS CM OBTAINED A PARTICULAR ACADEMIC QUALIFICATION? ************.

do if (acamiss gt 0).
  compute Aca000=-9.
  compute Aca100=-9.
  compute Aca200=-9.
  compute Aca300=-9.
  compute Aca400=-9.
  compute Aca500=-9.
  compute Aca600=-9.
  compute Aca700=-9.
  compute Aca800=-9.
else.
  compute Aca000=1.
  compute Aca100=0.
  compute Aca200=0.
  compute Aca300=0.
  compute Aca400=0.
  compute Aca500=0.
  compute Aca600=0.
  compute Aca700=0.
  compute Aca800=0.
end if.

missing values Aca000 to Aca800 (-9).

* AcaX00 dummy variables variables showing whether CM has one of a group of qualifications.

variable labels Aca000 "1 if CM has no academic qualifications".
variable labels Aca100 "1 if CM has bad O-levels".
variable labels Aca200 "1 if CM has CSE 2-5, Other Scots".
variable labels Aca300 "1 if CM has good O-levels".
variable labels Aca400 "1 if CM has 1 A-level or more than 1 AS at grade A-C".
variable labels Aca500 "1 if CM has 2 or more A-levels".
variable labels Aca600 "1 if CM has diploma ".
variable labels Aca700 "1 if CM has degree, PGCE, other degree level ".
variable labels Aca800 "1 if CM has higher degree".

value labels aca000 0 "At least one academic qualification" 1 "No academic qualifications".

* Bad O-levels
  GCSEs D to E, GCEs D to E, Scottish SCE standard grades 4-5'

* Good O-levels
  CSE grade 1, GCSE grades A-C, GCE grades A-C, Scots standard grades 1-3, Scots lower or ordinary.

* 2 or more A-LEVELS
  2 or more A-levels, Scottish higher grade or Certificate of 6th Year Studies.

do if (hdeg00 =1) .
  compute Aca800=1  .
  compute Aca000=0  .
end if  .

do if (any(1,deg00,odeg00,pgce00))  .
  compute Aca700=1  .
  compute Aca000=0  .
end if  .

do if (dip00 eq 1)  .
  compute Aca600=1  .
  compute Aca000=0  .
end if  .

do if (Nalev00 gt 1 or scot400 eq 1 or scot500 eq 1)  .
  compute Aca500=1  .
  compute Aca000=0  .
end if  .

do if (Nalev00 eq 1 or Naslev00 gt 1)  .
  compute Aca400=1  .
  compute Aca000=0  .
end if  .

do if (any(1,gcsehi00,olevhi00,csehi00,scot200,scot300))  .
  compute Aca300=1  .
  compute Aca000=0  .
end if  .

do if (cselo00  eq 1 or scot600 eq 1)  .
  compute Aca200=1  .
  compute Aca000=0  .
end if  .

do if (any(1,gcselo00,olevlo00,scotlo00))  .
  compute Aca100=1  .
  compute Aca000=0  .
end if  .

*************** HAS CM OBTAINED A PARTICULAR VOCATIONAL QUALIFICATION? ***************.

do if (Vocmiss gt 0)  .
  compute Voc000=-9  .
  compute Voc100=-9  .
compute Voc300=-9.
compute Voc400=-9.
compute Voc500=-9.
else.
  compute Voc000=1.
compute Voc100=0.
compute Voc200=0.
compute Voc300=0.
compute Voc400=0.
compute Voc500=0.
end if.

missing values Voc000 to Voc500 (-9).

* VocX00 dummy variables variables showing whether CM has one of a group of qualifications.

variable labels Voc000 "1 if CM has no vocational qualifications".
variable labels Voc100 "1 if CM has vocational qualification equivalent to NVQ1".
variable labels Voc200 "1 if CM has vocational qualification equivalent to NVQ2".
variable labels Voc300 "1 if CM has vocational qualification equivalent to NVQ3".
variable labels Voc400 "1 if CM has vocational qualification equivalent to NVQ4".
variable labels Voc500 "1 if CM has vocational qualification equivalent to NVQ5".

value labels voc000 0 "At least one vocational qualification" 1 "No vocational qualifications".

  100 'C&G Opo & Other, RSA 1, HGV, Other tech or bus qualification'
  200 'C&G Craft-Inter-Ord-Part1-Cant say, RSA2, Insig, JIB NJC etc'
  300 'C&G Advanced-Final-Part II or III, ONC-OND, RSA 3 '
  400 'Nursing, BTEC HNC-HND, HNC-HND, C&G Full Tech (FTC)'
  500 'NVQ awarded at level 5'.

do if (any(1,nvq500,nvq600)).
  compute Voc500=1.
  compute Voc000=0.
end if.

do if (any(1,nurse00,hnchnd00,btec400,rsa400,nvq400)).
  compute Voc400=1.
  compute Voc000=0.
end if.

do if (any(1,city200,city300,city400,oncond00,btec300,rsa300,pit300,nvq300,gnvq300)).
  compute Voc300=1.
  compute Voc000=0.
end if.

do if (any(1,city100,btec200,rsa200, pit200,appren00,nvq200,gnvq200)).
  compute Voc200=1.
  compute Voc000=0.
end if.

do if (any(1,city500,btec100,rsa100,pit100,nvq100,gnvq100,hgv00,othvoc00,rsa500,
btec500,pit400,nvq700,nvq800,gnvq400)).
  compute Voc100=1.
  compute Voc000=0.
end if.
* This code computes the highest academic qualification, the highest vocational qualification and the highest NVQ level recorded in the 2000 survey.
* Previous published work has used slightly different definitions of these variables so you may need to adapt the code below.
* Check bad O-levels, many descriptions give them NVQ level of 0.
* All vocational stuff needs checking especially pitmans btec rsa.

**HIGHEST ACADEMIC QUALIFICATION**

```
do if (acamiss gt 0).
    compute Hiaca00=-9.
else if (Aca800=1).
    compute Hiaca00=8.
else if (Aca700=1).
    compute Hiaca00=7.
else if (Aca600=1).
    compute Hiaca00=6.
else if (Aca500=1).
    compute Hiaca00=5.
else if (Aca400=1).
    compute Hiaca00=4.
else if (Aca300=1).
    compute Hiaca00=3.
else if (Aca200=1).
    compute Hiaca00=2.
else if (Aca100=1).
    compute Hiaca00=1.
else if (acamiss eq 0).
    compute Hiaca00=0.
end if.
```

Variable label Hiaca00 'Highest academic qualification recorded in 2000 survey'.

Value labels Hiaca00

-9 Missing
0 'None'
1 'Bad O-levels'
2 'CSE 2-5, other Scottish school qualification'
3 'Good O levels'
4 '1 A level or more than 1 AS level at grade A-C'
5 '2 or more A-levels'
6 'Diploma'
7 'Degree, PGCE, other degree level'
8 'Higher degree'.

*Notice diploma=degree.

recode Hiaca00 (-9=-9) (0=0) (1=1) (2=1)(3=2)(4=2)(5=3)(6=4)(7=4)(8=5) into nvqaca00.

variable label nvqaca00 'Highest NVQ level from an academic qualification in 2000 survey'.

recode Hiaca00 (-9=-9) (0=0) (1=1) (2=1)(3=2)(4=2)(5=3)(6=4)(7=5)(8=6) into ghmaca00.

variable label ghmaca00 'Highest academic qualification in 2000 survey ghm measure see also IFS'.

value labels ghmaca00 0 'None' 1 'Bad O levels, CSE 2-5' 2 'Good O-levels, 1 A-level' 3 '2 or more A-levels' 4 'Sub-degree' 5 'Degree 6 'Higher Degree'.

*********************** HIGHEST VOCATIONAL QUALIFICATION ***********************.

do if (vocmiss gt 0).
    compute HiVoc00=-9.
else if (Voc500 eq 1).
    compute HiVoc00=5.
else if (Voc400 eq 1).
    compute HiVoc00=4.
else if (Voc300 eq 1).
    compute HiVoc00=3.
else if (Voc200 eq 1).
    compute HiVoc00=2.
else if (Voc100 eq 1).
    compute HiVoc00=1.
else if (vocmiss eq 0).
    compute HiVoc00=0.
end if.

variable label HiVoc00 'Highest vocational qualification recorded in 2000 survey'.

*HiVoc00 is also the highest NVQ level from a vocational qualification in 2000 survey.

value labels HiVoc00
-9 Missing
  0 'None'
  1 'C&G Opo & Other, RSA 1, HGV, Other tech or bus qualification'
  2 'C&G Craft-Inter-Ord-Part1-Cant say, RSA2, Insig,JIB NJC etc'
  3 'C&G Advanced-Final-Part II or III, ONC-OND, RSA 3'
  4 'Nursing, BTEC HNC-HND, HNC-HND, C&G Full Tech (FTC)'
  5 'NVQ awarded at level 5'.

*********************** Highest NVQ whatever type ***********************.

compute HiNVQ00=max(nvqaca00,HiVoc00).
variable label HiNVQ00 'Highest NVQ level (whether academic or vocational)'.

missing value Hiaca00 nvqaca00 ghmaca00 HiVoc00 HiNVQ00 (-9).

*********************** OTHER VARIABLES *******************************************.

do if (sample eq 1).
    compute group = 1.
else if (sample eq 2 and dmpart eq 1).
    compute group = 2.
else if (sample eq 2 and dmpart eq 2).
    compute group = 3.
end if.

variable label group "3 categories - BCS70 and NCDS by whether present in 1991 survey".
value label group 1 "BCS70" 2 "NCDS present in 1991" 3 "NCDS not present in 1991".

recode dmsex (1=0) (2=1) into female.
value labels female 0 "male" 1 "female".

**********************************************************************************************.

******************************* SAVE DATA **********************************************.
**********************************************************************************************.

save outfile = 'e:\00\ncds-bcs70\qca data\all2000.sav' / drop ALTodeg t1 t2 vocmiss1 acamiss1.

**********************************************************************************************.

*************** THIRD BLOCK WHEN RUNNING PROGRAM **********************.
**********************************************************************************************.

*************** FINISH ********************.
2. Samantha Parsons

**JUNE 2000

**MERGING NCDS5 QUALIFICATION DATA WITH 2000 DATA.

**CHANGED 2000 TO MATCH NCDS33.

**simple way of recoding highest academic/vocational qualifications - to match NCDS at 33 hqual vars.

**ghmaca00 - levels of academic qualifications: ranges from 0 to 6: with 5 = degree and 6 = higher degree.

**hivoc00 - levels of vocational NVQ qualifications: ranges from 0 to 5: with 5 = NVQ level 5.

**variable HINVQ00 combines the information from the two variables above with a range of 0 to 5, BUT level 5 represents ghmaca00 level 6 and hivoc00 level 5 only. Surely it should be ghmaca00 level 5 AND 6 and hivoc00 level 5?

**made such a variable.

compute hq2ka = ghmaca00.
if (hivoc00 > ghmaca00) hq2ka = hivoc00.
recode hq2ka (5,6=5).

** Highest qualification at NCDS5 (age 33) – NB: Uses NCDS5 variables n501513 to n501541
do rep x=n501441 to n501469/y=n501513 to n501541.
if x=37 and range (y,1,36) x=y.
if x=37 and missing (y) or y=0 y=37.
end rep.
compute hqual33=-2.
do rep x=n501441 to n501469.
if any (x,37) hqual33=0.
if (any (x,10,25,1) and hqual33 < 1) hqual33=1.
if (any (x,20,19,18,17,14,12,11,7,6,4,3,2) and hqual33 < 2) hqual33=2
if (any (x,23,21,15,9,8,0,5) and hqual33 < 3) hqual33=3.
if (any (x,30,29,28,27,26,24,22,16) and hqual33 < 4) hqual33=4.
if (range (x,31,33) and hqual33 < 5) hqual33=5.
end rep.
var labels hqual33 "Highest qual gained at age 33 – based on NCDS5 variables ".
value labels hqual33 0 'No qualification' 1 'CSE 2-5/equiv NVQ1' 2 'O Level/equiv NVQ2' 3 'A Level/equiv NVQ3' 4 'Higher qual NVQ4' 5 'Degree/higher NVQ5/6' -1 'No information'.
formats hqual33 f2.0).
recode hqual33 (-2=-1) missing values hqual33 (-1).

**DIRTY highest qualification variable combining information of NCDS cohort at age 33.
compute hq332k = hq2ka.
if (hq2ka = 0 and hqual33 >=0) hq332k = hqual33.
do if (hq2ka > 0 and hqual33 >= 0).
if (hqual33 < hq2ka) hq332k = hq2ka.
if (hqual33 = hq2ka) hq332k = hq2ka.
if (hqual33 > hq2ka) hq332k = hqual33.
end if.

variable labels hq332k 'highest NVQ qualification - academic or vocational - recoding 2000 to match NCDS5'.

frequencies variables=hq332k.

**************************************************************************
* 
**some qualifications coded differently at each sweep, so made individual qualification vars at age 33 to re-create various highest qualification variables at 33 to match 2000.
**************************************************************************
* 

do if (n501441 >= 0).
compute noquals = 0.
compute cse2_5 = 0.
compute cse1 = 0.
compute oleva_c = 0.
compute gcsea_c = 0.
compute alev = 0.
compute scotoa_c = 0.
compute scots1_3 = 0.
compute scothg = 0.
compute scot6th = 0.
compute rsa1 = 0.
compute rsa2 = 0.
compute rsa3 = 0.
compute cg_op = 0.
compute cg_cio1 = 0.
compute cg_afp23 = 0.
compute cg_ft = 0.
compute cg_oth = 0.
compute cg_dk = 0.
compute cg_ia = 0.
compute jibnjcct = 0.
compute onchnd = 0.
compute hnochnd = 0.
compute bt_ngcd = 0.
compute bt_hhnmd = 0.
compute othtbq = 0.
compute fprofq = 0.
compute pprofq = 0.
compute nurse = 0.
compute cert = 0.
compute hdippgce = 0.
compute degree = 0.
compute pgraddip = 0.
compute hdegree = 0.
do repeat x = n501441 to n501469.
if (x = 37) noquals = 1.
if (x = 1) cse2_5 = 1.
if (x = 2) cse1 = 1.
if (x = 3) oleva_c = 1.
if (x = 4) gcsea_c = 1.
if (x = 5) alev = 1.
if (x = 6) scotoa_c = 1.
if (x = 7) scots1_3 = 1.
if (x = 8)  scothg = 1.
if (x = 9)  scot6th = 1.
if (x = 10) rsa1 = 1.
if (x = 11) rsa2 = 1.
if (x = 12) rsa3 = 1.
if (x = 13) cg_op = 1.
if (x = 14) cg_cio1 = 1.
if (x = 15) cg_afp23 = 1.
if (x = 16) cg_ft = 1.
if (x = 17) cg_oth = 1.
if (x = 18) cg dk = 1.
if (x = 19) cg ia = 1.
if (x = 20) jibnjcct = 1.
if (x = 21) onchnd = 1.
if (x = 22) hnchnd = 1.
if (x = 23) bt_ngcd = 1.
if (x = 24) bt_hhncd = 1.
if (x = 25) othtbq = 1.
if (x = 26) fprofq = 1.
if (x = 27) pprofq = 1.
if (x = 28) nurse = 1.
if (x = 29) cert = 1.
if (x = 30) hdippgce = 1.
if (x = 31) degree = 1.
if (x = 32) pgraddip = 1.
if (x = 33) hdegree = 1.
end repeat.
end if.
frequencies
variables=noquals cse2_5 cse1 oleva_c gcsea_c alev scotoa_c scots1_3 scothg scot6th rsa1 rsa2 rsa3 cg_op cg_cio1 cg_afp23
cg_ft cg_oth cg dk cg ia jibnjcct onchnd hnchnd bt_ngcd bt_hhncd othtbq fprofq pprofq nurse cert
hdippgce degree pgraddip hdegree.

compute hacad33b = 0.
if (any(1,cse2_5)) hacad33b = 2.
if (any(1,cse1,oleva_c,gcsea_c,alev,scotoa_c,scots1_3)) hacad33b = 3.
if (any(1,alev,scothg,scot6th)) hacad33b = 5.
if (any(1,cert,hdippgce)) hacad33b = 6.
if (any(1,degree,pgraddip)) hacad33b = 7.
if (hdegree = 1) hacad33b = 8.
if (missing(noquals)) hacad33b = -1.
missing values hacad33b (-1).
variable labels hacad33b 'ncds33: highest academic qualification to match HIACA00'.
value labels hacad33b 0 'no quals' 2 'cse2-5' 3 'good o levels' 5 'a levels' 6 'diploma' 7 'degree PGCE' 8 'higher degree'.

frequencies
variables=hacad33b.

********************************************************************************************

**highest academic qualification variable - NVQ levels - to match NVQACA00.
********************************************************************************************

recode hacad33b (0=0) (2=1) (3=2) (5=3) (6,7=4) (8=5) into hacnvq33.
variable labels hacnvq33 'ncds33: highest NVQ level qual from academic qualification to match NVQACA00'.

frequencies
variables=hacnvq33.

********************************************************************************************

**highest academic qualification variable - ghm measure to match GHMACA00.
********************************************************************************************

recode hacad33b (0=0) (2=1) (3=2) (5=3) (6=4) (7=5) (8=6) into hacghm33.
variable labels hacghm33 'ncds33: highest academic qualification - ghm measure to match GHMACA00'.
value labels hacghm33 0 'no quals' 1 'cse2-5' 2 'o levels' 3 'a levels' 4 'sub degree' 5 'degree' 6 'higher degree'.

frequencies
variables=hacghm33.

***********************************************************************************************

**highest vocational qualification at 33 - including nursing - to NVQ levels - to match HIVOC00'.
***********************************************************************************************

compute hvoc33 = 0.
if (any(1,rsa1,othtbq,cg_oth,cg_dk)) hvoc33 = 1.
if (any(1,rsa2,cg_op,cg_cio1,cg_jibnjct)) hvoc33 = 2.
if (any(1,rsa3,cg_cep23,chnnd,bt_ngcd)) hvoc33 = 3.
if (any(1,cg_ft,chnnd,bt_hnchd,profq,profsq,nurse)) hvoc33 = 4.
if (missing(noquals)) hvoc33 = -1.
missing values hvoc33 (-1).

variable labels hvoc33 'ncds33: highest vocational qualification - to match HIVOC00'.

frequencies
variables=hvoc33.

***********************************************************************************************

**highest academic or vocational qualification - to NVQ levels - to match HINVQ00.
***********************************************************************************************

compute hq33a = 0.
if (any(1,cse2_5,rsa1,othtbq,cg_oth,cg_dk)) hq33a = 1.
if (any(1,cse1,olevd_e,scotoa_c,scotsc1_3,rsa2,cg_op,cg_cio1,cg_jibnjct)) hq33a = 2.
if (any(1,alev,scothg,scot6th,rsa3,cg_cep23,chnnd,bt_ngcd)) hq33a = 3.
if (any(1,cg_ft,hnchnd, bt_hhnd,bt_hhncd,fprofq,pprofq,nurse,cert,hdippgce,degree,pgraddip)) hq33a = 4.
if (hdegree = 1) hq33a = 5.
if (missing(noquals)) hq33a = -1.
missing values hq33a (-1).

variable labels hq33a 'ncds33: highest NVQ qualification - academic or vocational - to match HINVQ00'.

frequencies
  variables=hq33a.

******************************************************************************.
**COMBINING NCDS33 AND 2000 DATA VARIABLES.
******************************************************************************.

compute hqaca00 = HIACA00.
if (HIACA00 = 0 and hacad33b >=0) hqaca00 = hacad33b.
do if (HIACA00 > 0 and hacad33b >= 0).
  if (hacad33b < HIACA00) hqaca00 = HIACA00.
  if (hacad33b = HIACA00) hqaca00 = HIACA00.
  if (hacad33b > HIACA00) hqaca00 = hacad33b.
end if.

variable labels hqaca00 'highest academic qualification - combining hacad33b and hiaca00'.
value labels hqaca00 0'no quals' 1'bad o levels' 2'cse2-5' 3'good o levels' 4'as levels or 1 a level' 5'a levels' 6'diploma' 7'degree PGCE' 8'higher degree'.

frequencies
  variables=hacad33b hiaca00 hqaca00.

******************************************************************************.
**combined highest academic qualification variables - 8 category.
******************************************************************************.

compute hqanvq00 = nvqaca00.
if (nvqaca00 = 0 and hacnvq33 >=0) hqanvq00 = hacnvq33.
do if (nvqaca00 > 0 and hacnvq33 >= 0).
  if (hacnvq33 > nvqaca00) hqanvq00 = nvqaca00.
  if (hacnvq33 = nvqaca00) hqanvq00 = nvqaca00.
  if (hacnvq33 < nvqaca00) hqanvq00 = hacnvq33.
end if.

variable labels hqanvq00 'highest NVQ level qual from academic qualification - combining hacnvq33 and nvqaca00'.

frequencies
  variables=hqanvq00 nvqaca00 hacnvq33.

******************************************************************************.
**combined highest academic qualification variables - NVQ levels.
******************************************************************************.

compute hqanvq00 = nvqaca00.
if (nvqaca00 = 0 and hacnvq33 >=0) hqanvq00 = hacnvq33.
do if (nvqaca00 > 0 and hacnvq33 >= 0).
  if (hacnvq33 > nvqaca00) hqanvq00 = nvqaca00.
  if (hacnvq33 = nvqaca00) hqanvq00 = nvqaca00.
  if (hacnvq33 < nvqaca00) hqanvq00 = hacnvq33.
end if.

variable labels hqanvq00 'highest NVQ level qual from academic qualification - combining hacnvq33 and nvqaca00'.

frequencies
  variables=hqanvq00 nvqaca00 hacnvq33.
compute hqaghm00 = ghmaca00.
if (ghmaca00 = 0 and hacghm33 >= 0) hqaghm00 = hacghm33.
do if (ghmaca00 > 0 and hacnvq33 >= 0).
if (ghmaca00 > hacghm33) hqaghm00 = ghmaca00.
if (ghmaca00 = hacghm33) hqaghm00 = ghmaca00.
if (ghmaca00 < hacghm33) hqaghm00 = hacghm33.
end if.

variable labels hqaghm00 'highest academic qualification - ghm measure - combining hacghm33 and ghmaca00'.
value labels hqaghm00 0'no quals' 1'cse2-5' 2'o levels' 3'a levels' 4'sub degree' 5'degree' 6'higher degree'.

frequencies
variables=hacghm33 ghmaca00 hqaghm00.

********************************************************************************
**highest vocational qualification.
********************************************************************************

compute hqvoc00 = hivoc00.
if (hivoc00 = 0 and hvoc33 >= 0) hqvoc00 = hvoc33.
do if (hivoc00 > 0 and hvoc33 >= 0).
if (hivoc00 > hvoc33) hqvoc00 = hivoc00.
if (hivoc00 = hvoc33) hqvoc00 = hivoc00.
if (hivoc00 < hvoc33) hqvoc00 = hvoc33.
end if.

variable labels hqvoc00 'highest vocational qualification - combining hvoc33 and hivoc00'.

frequencies
variables=hvoc33 hivoc00 hqvoc00.

********************************************************************************
**highest academic or vocational qualification - to NVQ levels.
********************************************************************************

compute hqnvq00 = hinvq00.
if (hinvq00 = 0 and hq33a >= 0) hqnvq00 = hq33a.
do if (hinvq00 > 0 and hq33a >= 0).
if (hinvq00 > hq33a) hqnvq00 = hinvq00.
if (hinvq00 = hq33a) hqnvq00 = hinvq00.
if (hinvq00 < hq33a) hqnvq00 = hq33a.
end if.

variable labels hqnvq00 'highest NVQ qualification - academic or vocational - combining hq33a and hinvq00'.

frequencies
variables=hq33a hinvq00 hqnvq00.
APPENDIX 8: Attitude Scales

Documentation relating to the development of attitude scales produced by John Preston of the Centre for Longitudinal Studies is reproduced below:

Queries about the contents of this appendix should be directed to the User Support Group (cohort@cls.ioe.ac.uk)

Attitude Scales for latest sweeps of NCDS and BCS70

Methodology

Attitude scales were constructed using the 50 items in the ‘views’ section of the self-completion questionnaire. Each survey was analysed separately, although the factors identified in each were, fortuitously, identical. Principal components analysis was employed using varimax rotation to orthogonal simple structure. The number of factors chosen was based upon those with Eigen values greater than one, followed by the ‘scree’ test to determine that point at which Eigen values leveled off. Factors were examined for interpretability and to ensure that at least three items had loadings on each of them.

Cronbach’s alpha was employed as a test of internal consistency of the factors. In all cases, alpha scores were above 0.5 which indicates that it is acceptable to consider the items as forming an identifiable factor.

Factor loadings are shown in each table, values less than +/- 0.4 have been suppressed. For each factor, a derived variable has been created which is the mean of the scores for each item within the component. The name of this derived variable is displayed in bold type. Certain items on the factor were inverted prior to the calculation and this is indicated beneath each table.

Factors identified

1. Anti-racism

<table>
<thead>
<tr>
<th>TOLERACE</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR2 Wouldn’t mind if family of different race moved next door</td>
<td>.826</td>
<td>.791</td>
</tr>
<tr>
<td>AR4 Wouldn’t mind working with people from other races</td>
<td>.774</td>
<td>.745</td>
</tr>
<tr>
<td>AR3 Wouldn’t mind kids going to school with other races</td>
<td>.755</td>
<td>.724</td>
</tr>
<tr>
<td>AR5 Would not want another race person as my boss</td>
<td>-.688</td>
<td>-.675</td>
</tr>
<tr>
<td>AR1 Mixed race marriage is OK</td>
<td>.676</td>
<td>.663</td>
</tr>
</tbody>
</table>

All scale items, with the exception of AR5 were inverted prior to construction of the scale which indicates the level of support for tolerant views related to other ethnic groups.
2. Left-Right

<table>
<thead>
<tr>
<th>LEFTR</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LR5 Ordinary people don’t get a fair share of the nations wealth.</td>
<td>.651</td>
<td>.692</td>
</tr>
<tr>
<td>LR6 Government should redistribute income.</td>
<td>.648</td>
<td>.655</td>
</tr>
<tr>
<td>LR7 One law for the rich and one for the poor?</td>
<td>.612</td>
<td>.641</td>
</tr>
<tr>
<td>LR1 Big business benefits owners at the expense of workers.</td>
<td>.572</td>
<td>.605</td>
</tr>
<tr>
<td>LR2 Private schools should be abolished</td>
<td>.562</td>
<td>.583</td>
</tr>
<tr>
<td>LR3 Management get the better of employees</td>
<td>.500</td>
<td>.567</td>
</tr>
</tbody>
</table>

The magnitude of the score on LEFTR indicates the level of sympathy with right wing views in terms of redistribution of income, privatization and support for business and management.

3. Support for Authority

<table>
<thead>
<tr>
<th>AUTHORIT</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4 Give law breakers stiffer sentences</td>
<td>.661</td>
<td>.675</td>
</tr>
<tr>
<td>A6 Schools teach children to authority</td>
<td>.613</td>
<td>.627</td>
</tr>
<tr>
<td>A2 Death penalty for some crimes</td>
<td>.566</td>
<td>.593</td>
</tr>
<tr>
<td>A5 Young people don’t have respect for traditional values</td>
<td>.564</td>
<td>.560</td>
</tr>
<tr>
<td>A3 Censorship is needed to uphold morals</td>
<td>.481</td>
<td>.463</td>
</tr>
<tr>
<td>A1 The law should be obeyed even if it is wrong</td>
<td>.442</td>
<td>.441</td>
</tr>
</tbody>
</table>

All items were inverted prior to the construction of a scale of support for authority.

4. Support for traditional marital values

<table>
<thead>
<tr>
<th>PROFAM</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOR4 Marriage is for life</td>
<td>.647</td>
<td>.718</td>
</tr>
<tr>
<td>MOR6 Alright for unmarried people to have kids</td>
<td>-.629</td>
<td>-.620</td>
</tr>
<tr>
<td>MOR3 Couples with kids should not separate</td>
<td>.592</td>
<td>.618</td>
</tr>
<tr>
<td>MOR1 Divorce is too easy to get these days</td>
<td>.533</td>
<td>.544</td>
</tr>
<tr>
<td>MOR5 Women should have the right to an abortion</td>
<td>-.479</td>
<td>-.519</td>
</tr>
<tr>
<td>MOR2 Married people happier than unmarried</td>
<td>.478</td>
<td>.430</td>
</tr>
</tbody>
</table>

Items MOR4, MOR3, MOR1 and MOR2 were inverted prior to the calculation of this scale which indicates the level of support for marriage and traditional family values.
5. Effect of children on quality of life

<table>
<thead>
<tr>
<th>NOKIDS</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>C4 People with no kids are missing out.</td>
<td>.756</td>
<td>.731</td>
</tr>
<tr>
<td>C1 Unless you have kids, you will be lonely in your old age.</td>
<td>.690</td>
<td>.688</td>
</tr>
<tr>
<td>C2 Can have fulfilling life with no kids.</td>
<td>-.661</td>
<td>-.652</td>
</tr>
</tbody>
</table>

C2 was inverted to C2inv prior to the calculation of the scale. NOKIDS indicates the level of agreement with statements opposing the value of children in life experiences. The higher the value of NOKIDS, the greater the level of agreement with these statements.

5. Support for working Mothers

<table>
<thead>
<tr>
<th>MUMWORK</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM3 Kids benefit if mum has job outside the home</td>
<td>.702</td>
<td>.716</td>
</tr>
<tr>
<td>WM4 A mother and family are happier if she goes out to work</td>
<td>.700</td>
<td>.713</td>
</tr>
<tr>
<td>WM1 Pre-school kids suffer if mum works</td>
<td>-.607</td>
<td>-.611</td>
</tr>
<tr>
<td>WM2 Family life suffers if mum is working full time</td>
<td>-.607</td>
<td>-.594</td>
</tr>
<tr>
<td>WM5 Dads job is to earn money; mums to stay home</td>
<td>-.408</td>
<td>&lt;-0.4</td>
</tr>
</tbody>
</table>

WM3 and WM4 were inverted prior to the calculation of the scale. MUMWORK indicates agreement with Mothers working. Higher scores indicate that respondents believe that women should work. Note that in the PCA for NCDS, the factor loading for WM5 was of a scalar magnitude less than 0.4.

6. Political cynicism

<table>
<thead>
<tr>
<th>POLITICAL CYNICISM (POLCYN)</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC2 No difference which political party is in power</td>
<td>.769</td>
<td>.769</td>
</tr>
<tr>
<td>PC1 No political party would benefit me</td>
<td>.703</td>
<td>.710</td>
</tr>
<tr>
<td>PC3 Politicians are in politics for their own benefit</td>
<td>.630</td>
<td>.676</td>
</tr>
</tbody>
</table>

Scores on POLCYN indicate agreement with statements regarding the futility and redundancy of the current political system. All scale items were inverted prior to construction of the scale.

7. Technophobia

<table>
<thead>
<tr>
<th>INFORMATION TECHNOLOGY (ANTITECH)</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT2 Computers enrich the lives of users</td>
<td>.717</td>
<td>.739</td>
</tr>
<tr>
<td>IT4 Every family should have a computer</td>
<td>.693</td>
<td>.670</td>
</tr>
<tr>
<td>IT1 Computers at work are destroying peoples skills</td>
<td>-.563</td>
<td>-.534</td>
</tr>
<tr>
<td>IT5 Learning to use a computer is more trouble than it is worth</td>
<td>-.477</td>
<td>-.479</td>
</tr>
</tbody>
</table>

IT1 and IT5 were inverted prior to the creation of the attitude scale. The higher the score on ANTITECH, the greater the degree of opposition to information technology.
8. Environmentalism

<table>
<thead>
<tr>
<th>ENVIRONMENTALISM (ENVIRON)</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3 The environment vs. economic growth</td>
<td>.722</td>
<td>.717</td>
</tr>
<tr>
<td>E2 Preserving the environment is most important.</td>
<td>.691</td>
<td>.705</td>
</tr>
<tr>
<td>E1 Problems in the environment are not that serious</td>
<td>-.640</td>
<td>-.589</td>
</tr>
</tbody>
</table>

E2 and E3 were inverted to E1inv prior to the construction of the attitude scale. The higher the score on ENVIRON, the greater the degree of individuals support for environmental issues.

9. Support for the work ethic

<table>
<thead>
<tr>
<th>WORK ETHIC (WORKETH)</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE3 It is important to hang on to any job even if unhappy</td>
<td>.765</td>
<td>.777</td>
</tr>
<tr>
<td>WE2 If I didn’t like a job I’d pack it in</td>
<td>-.756</td>
<td>-.758</td>
</tr>
<tr>
<td>WE1 Any job is better than being unemployed</td>
<td>.567</td>
<td>.551</td>
</tr>
</tbody>
</table>

WE1 and WE3 were inverted before construction of the scale which indicates an individuals support for the work ethic.

Alpha coefficients

<table>
<thead>
<tr>
<th>SCALE</th>
<th>BCS70</th>
<th>NCDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-Racism (TOLERACE)</td>
<td>0.8222</td>
<td>0.8000</td>
</tr>
<tr>
<td>Left-Right (LEFTR)</td>
<td>0.6792</td>
<td>0.7313</td>
</tr>
<tr>
<td>Support for authority (AUTHORIT)</td>
<td>0.6176</td>
<td>0.6470</td>
</tr>
<tr>
<td>Support for traditional marital values (PROFAM)</td>
<td>0.6345</td>
<td>0.6620</td>
</tr>
<tr>
<td>Effect of children on quality of life (NOKIDS)</td>
<td>0.6232</td>
<td>0.6141</td>
</tr>
<tr>
<td>Support for working mothers (MUMHOME)</td>
<td>0.6782</td>
<td>0.6880</td>
</tr>
<tr>
<td>Political cynicism (POLCYN)</td>
<td>0.6526</td>
<td>0.6742</td>
</tr>
<tr>
<td>Technophobia (ANTITECH)</td>
<td>0.5732</td>
<td>0.5892</td>
</tr>
<tr>
<td>Environmentalism (ENVIRON)</td>
<td>0.5070</td>
<td>0.4664</td>
</tr>
<tr>
<td>Support for the Work ethic (WORKETH)</td>
<td>0.5469</td>
<td>0.5388</td>
</tr>
</tbody>
</table>
Items not included in scales

The following items were not included in the above scales and did not appear to form any clear factors of their own:

C3 Having children interferes with parents freedom
L2 Knowing the right people helps more than qualifications in getting a job
L4 Effort of getting qualifications is more trouble than it is worth
L1 More likely to get better job if do education training
IT5 Learning to use a computer is more trouble than it is worth
LR4 Take out own health care, stop relying on the NHS

John Preston
21/04/2001
SPSS Code

MISSING VALUES lr1 lr2 lr3 lr4 lr5 lr6 lr7 ar1 ar2 ar3 ar4 ar5 e1 e2 e3 a1 a2 a3 a4 a5 a6 c1 c2 c3 c4 pc1 pc2 pc3 l1 l2 l3 l4 mor1 mor2 mor3 mor4 mor5 mor6 wm1 wm2 wm3 wm4 wm5 it1 it2 it4 it5 we1 we2 we3
("8." ",9.").

COMPUTE tolerace = MEAN((6-ar2),(6-ar4),(6-ar3),ar5,(6-ar1)) .
EXECUTE.

COMPUTE leftr = MEAN(lr5,lr6,lr7,lr1,lr2,lr3) .
EXECUTE.

COMPUTE authorit = MEAN((6-a4),(6-a6),(6-a2),(6-a5),(6-a3),(6-a1)) .
EXECUTE.

COMPUTE profam = MEAN((6-mor4),mor6,(6-mor3),(6-mor1),mor5,(6-mor2)) .
EXECUTE.

COMPUTE nokids = MEAN(c4,c1,(6-c2)) .
EXECUTE.

COMPUTE mumwork = MEAN((6-wm3),(6-wm4),wm1,wm2,wm5) .
EXECUTE.

COMPUTE polcyn = MEAN((6-pc2),(6-pc1),(6-pc3)) .
EXECUTE.

COMPUTE antitech = MEAN(it2,it4,(6-it1),(6-it5)) .
EXECUTE.

COMPUTE environ = MEAN((6-e3),(6-e2),e1) .
EXECUTE.

COMPUTE worketh = MEAN((6-we1),we2,(6-we3)) .
EXECUTE.

SUMMARIZE
/TABLES=ar2 ar4 ar3 ar5 ar1 tolerace
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE="Case Summaries"
/MISSING=VARIABLE
/CELLS=COUNT .

SUMMARIZE
/TABLES=lr5 lr6 lr7 lr1 lr2 lr3 leftr
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE="Case Summaries"
/MISSING=VARIABLE
/CELLS=COUNT .

SUMMARIZE
/TABLES=a4 a6 a2 a5 a3 a1 authorit
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE="Case Summaries"
/MISSING=VARIABLE
/CELLS=COUNT .

SUMMARIZE
/TABLES=mor4 mor6 mor3 mor1 mor5 mor2 profam
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE="Case Summaries"
/MISSING=VARIABLE
/CELLS=COUNT .

SUMMARIZE
/TABLES=c4 c1 c2 nokids
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE="Case Summaries"
/MISSING=VARIABLE
/CELLS=COUNT .

SUMMARIZE
/TABLES=wm3 wm4 wm1 wm2 wm5 mumwork
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE='Case Summaries'
/MISSING=VARIABLE
/CELLS=COUNT.
SUMMARIZE
/TABLES=pc2 pc1 pc3 polcyn
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE='Case Summaries'
/MISSING=VARIABLE
/CELLS=COUNT.
SUMMARIZE
/TABLES=it2 it4 it1 it5 antitech
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE='Case Summaries'
/MISSING=VARIABLE
/CELLS=COUNT.
SUMMARIZE
/TABLES=e3 e2 e1 environ
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE='Case Summaries'
/MISSING=VARIABLE
/CELLS=COUNT.
SUMMARIZE
/TABLES=we3 we2 we1 worketh
/FORMAT=VALIDLIST CASENUM TOTAL LIMIT=50
/TITLE='Case Summaries'
/MISSING=VARIABLE
/CELLS=COUNT.