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# British Cohort Study (1970)

Activity Histories (1986-2013)

Maggie Hancock

A guide to the datasets (third edition)

March 2017



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## Table of Contents

|   |           |
|---|-----------|
| <b>BCS70 Activity Histories (1986-2013)</b> .....   | <b>1</b>  |
| Amendments to the BCS70 Activity Histories since version one .....                        | 1         |
| <b>BCS70 Activity Histories SPSS Dataset</b> .....  | <b>4</b>  |
| Data variables included in the activity histories .....                                   | 5         |
| Types of activity included in the activity histories .....                                | 6         |
| Socioeconomic variables .....   | 7         |
| <b>Construction of the BCS70 Activity Histories</b> .....                                 | <b>9</b>  |
| Cleaning of the BCS70 activity data .....   | 9         |
| Editing of the BCS70 activity data due to issues with the data .....                      | 9         |
| Activities current at the time of a sweep interview .....                                 | 9         |
| Duplicate activities .....  | 9         |
| Activity start and end dates and durations .....  | 10        |
| Date century months .....   | 10        |
| Missing data .....  | 10        |
| Zero duration activities .....  | 11        |
| Age 38 Sweep continuing work activities from previous sweep .....                         | 11        |
| Age 42 Sweep activities addition to the BCS70 activity histories .....                    | 12        |
| <b>Completeness of the BCS70 Activity Histories</b> .....                                 | <b>14</b> |
| <b>Appendix 1: Variables in BCS70 Activity Histories Dataset</b> .....                    | <b>15</b> |
| <b>Appendix 2: Cleaning undertaken during construction of activity histories:</b> .....   | <b>18</b> |
| <b>Appendix 3: Age 38 Sweep continuing work activities from previous sweep</b> .....      | <b>20</b> |
| <b>Appendix 4: Age 42 Sweep activities addition to the BCS70 activity histories</b> ..... | <b>21</b> |
| <b>Appendix 5: BCS70 Activity Histories SPSS Dataset Filenames</b> .....                  | <b>27</b> |

## **Preface**

This document has been prepared to accompany the deposit, with the UK Data Archive at the University of Essex, of the derived dataset of activity histories from the Age 26, Age 30, Age 34, Age 38 and Age 42 follow-ups of the 1970 British Cohort Study (BCS70), a continuing, multidisciplinary, national, longitudinal study.

The 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.

The Centre for Longitudinal Studies (CLS) request that any work which is based wholly or in part on analysis of British Cohort Study data includes the following acknowledgement:

“The analyses in this work are based wholly or in part on analysis of data from the 1970 British Cohort Study (BCS70). The data was deposited at the UK Data Archive by the Centre for Longitudinal Studies at the UCL Institute of Education, University of London. BCS70 is funded by the Economic and Social Research Council (ESRC).”

CLS also request that the term ‘BCS70’ be included when compiling keywords to accompany any publications based on analysis of the study’s data.

## **Acknowledgements**

We would like to thank Jane Elliott, Jon Johnson and Erzsebet Bukodi for their contributions to the construction of the British Cohort Study Activity Histories.

We would also like to thank all the cohort members, who generously give their time to participate in this project and without whom this dataset would not have been possible.

## **BCS70 Activity Histories (1986-2013)**

Data on work and non-work activities lasting one month or more have been collected in all BCS70 sweeps from Age 26 Sweep onwards. The purpose of the BCS70 activity histories dataset is to merge all data on work and non-work activities, in the successive sweeps, into one longitudinal dataset.

The focus of the questions asked at each sweep vary from: current work activity (Age 26 Sweep); work and non-work activities engaged in since the age of 16 (Age 30 Sweep); work and non-work activities engaged in since the last sweep or aged 16 (Age 34 Sweep); work and non-work activities engaged in since 2000, or 2004 if included in Age 34 Sweep (Age 38 Sweep); work and non-work activities engaged in since 2000, 2004 if included in Age 34 Sweep or 2008 if included in Age 38 Sweep (Age 42 Sweep). Therefore the activity histories will start from the age of 16 and continue until the interview date of the latest data sweep that each cohort member participated in.

The length of the activity histories vary depending on the latest sweep that a cohort member was present at. The minimum activity history length recorded is 1 month and the maximum is 326 months (27 years). Gaps in the activity histories occur where a cohort member has not been present at all sweeps and/or where full activity data were not reported.

### **Amendments to the BCS70 Activity Histories since version one**

The first version of the BCS70 activity histories, deposited at the UK Data Archive in May 2011 included activities reported by cohort members up to and including the Age 38 Sweep. The second version of the activity histories data reflected changes to the data following the realignment of BCS70 identifiers. These changes to the data also included BCS70 death data updates, individual case data cleaning and an edit to the BCS70 activity histories program. The first version of the BCS70 activity histories excluded Age 34 Sweep and Age 38 Sweep activities with unknown start dates, and imputed end dates (using the start dates of following activities) where possible. In version 2 of the BCS70 activity histories, any unknown start or end dates for activities current at a sweep are computed to be that sweep's interview date. For activities not still current at a sweep; unknown start dates are set to that activity's known end date if available and vice versa.

This third version of the activity histories data includes data on activities reported up to and including the Age 42 Sweep. There are also some edits to the pre Age 42 Sweep activity history data as follows:

Where the cohort member reported at Age 38 Sweep doing the same activity as the previous data sweep that they participated in (Age30 Sweep or Age 34 Sweep), the previous version of the BCS70 activity histories updated the Age30 Sweep/Age 34 Sweep current activity to indicate also current activity at Age 38 Sweep. However further examination of the data revealed that cohort members may report doing the same activity when in fact their employment status or the type of organisation that they worked for had changed between

sweeps. Where this is the case, version 3 of the BCS70 activity histories includes a new activity with a start date of the Age 38 Sweep interview date (N=1311 for cohort members with last sweep=Age 34 Sweep and N=71 for cohort members with last sweep=Age 30 Sweep). The end date of the previous sweeps current activity is also set as the Age 42 Sweep interview date.

Details of the data collected at each sweep are as follows:

| Sweep  | Activity data collected at sweep and used in activity histories  |
|--|--|
| <p>Age 26 Sweep</p> <p>N.B. Age 26 Sweep activity data are included only if CM not interviewed in Age 30 Sweep or Age 34 Sweep (655 cases)</p> | <p>Data on current work activity.</p> <ul style="list-style-type: none"> <li>• Start and end dates of activity</li> <li>• Whether f/t or p/t</li> <li>• Reason left</li> <li>• Socio-economic codes (work activities)</li> </ul>   |
| <p>Age 30 Sweep</p>  | <p>Data on current and previous activities (work and non-work) since CM's latest previous sweep.</p> <ul style="list-style-type: none"> <li>• Start and end dates of activity</li> <li>• Whether f/t or p/t (work activities)</li> <li>• Reason left (work activities)</li> <li>• Socio-economic codes (work activities)</li> </ul>  |
| <p>Age 34 Sweep</p>  | <p>Data on current and previous activities (work and non-work) since CM's latest previous sweep or aged 16:</p> <ul style="list-style-type: none"> <li>• Start and end dates of activity</li> <li>• Whether f/t or p/t (work activities)</li> <li>• Reason left (work activities)</li> <li>• Socio-economic codes (work activities)</li> </ul>                                       |
| <p>Age 38 Sweep</p>  | <p>Data on current and previous activities (work and non-work) since age 30 or age 34 if included at Age 34 Sweep</p> <ul style="list-style-type: none"> <li>• Start and end dates of activity</li> <li>• Whether f/t or p/t (work activities)</li> <li>• Reason left (work activities)</li> <li>• Socio-economic codes (work activities)</li> </ul>                                 |
| <p>Age 42 Sweep</p>  | <p>Data on current and previous activities (work and non-work) since age 30, 34 or 38 if last included at sweeps 6, 7 or 8 or January 2000 if not</p> <ul style="list-style-type: none"> <li>• Start and end dates of activity</li> <li>• Whether f/t or p/t (work activities)</li> <li>• Reason left (work activities)</li> <li>• Socio-economic codes (work activities)</li> </ul> |

## BCS70 Activity Histories SPSS Dataset

The BCS70 activity histories dataset contains 1 record for each work or non work activity. In the dataset there are 98,007 records for 19,006 cohort members. 637 cohort members were known to have died before the age of 16 (one dummy record with variable ACTNUM=-1) and of the rest, 4,961 cohort members, including those not present at sweeps 5-8, have no activities reported (one dummy record with variable ACTNUM=0). All activity variables are set to -1 (n/a) on these dummy records. 13,408 cohort members have at least 1 activity reported (variable ACTNUM=1). There is an average of 6.89 activities for cohort members with at least one activity.

A sample of 4 cases with a subset of the variables is shown below:

### Example of activity history dataset records illustrating various types of activity histories

| BCSID   | ..... | NUMACTS | ACTNUM | LSTSWCMC | JSTCMC | JENDCMC | JDUR | JACTIV | ..... |
|---------|-------|---------|--------|----------|--------|---------|------|--------|-------|
| B10014T | ..... | 0       | -1     | -1       | -1     | -1      | -1   | -1     | ..... |
| .....   |       |         |        |          |        |         |      |        |       |
| B12345N | ..... | 6       | 1      | 1311     | 1036   | 1066    | 30   | 1      | ..... |
| B12345N | ..... | 6       | 2      | 1311     | 1066   | 1131    | 65   | 1      | ..... |
| B12345N | ..... | 6       | 3      | 1311     | 1131   | 1182    | 51   | 1      | ..... |
| B12345N | ..... | 6       | 4      | 1311     | 1182   | 1245    | 63   | 18     | ..... |
| B12345N | ..... | 6       | 5      | 1311     | 1245   | 1266    | 21   | 12     | ..... |
| B12345N | ..... | 6       | 6      | 1311     | 1266   | -6      | 45   | 18     | ..... |
| .....   |       |         |        |          |        |         |      |        |       |
| B23456P | ..... | 0       | 0      | -1       | -1     | -1      | -1   | -1     | ..... |
| .....   |       |         |        |          |        |         |      |        |       |
| B34567S | ..... | 4       | 1      | 1309     | 1036   | 1039    | 3    | 12     | ..... |
| B34567S | ..... | 4       | 2      | 1309     | 1039   | 1063    | 24   | 14     | ..... |
| B34567S | ..... | 4       | 3      | 1309     | 1063   | 1126    | 63   | 1      | ..... |
| B34567S | ..... | 4       | 4      | 1309     | 1126   | -6      | 183  | 1      | ..... |

Case B10014T is known to have died before age 16. Case B12345N has 6 activities reported. Case B23456P was not included in Age26 to Age 34 Sweeps or did not have any activities reported and therefore has 1 dummy activity included in the dataset. Case B34567S has 4 activities reported.



The description of the variables included in the above sample is as follows:

| <b>Variable name</b> | <b>Variable description</b>  |
|----------------------|--|
| NUMACTS              | Total number of activities recorded for the cohort member (constant across all activities for a cohort member) |
| ACTNUM               | Activity sequence number (within cohort member)  |
| LSTSWCMC             | Century month <sup>1</sup> of cohort member's latest interview   |
| JSTCMC               | Century month <sup>1</sup> of the start date of the activity   |
| JENDCMC              | Century month <sup>1</sup> of the end date of the activity   |
| JDUR                 | Duration of the activity in months   |
| JACTIV               | Activity code for the activity (see table below for activity codes)  |

### **Data variables included in the activity histories**

A summary of the data variables included in the activity histories is as follows:

|  |
|--|
| Participation in each sweep and if so whether any activity data at that sweep    |
| CM's sex   |
| Activity number and total number of activities for CM                            |
| Century months <sup>1</sup> of latest interview and activity start and end dates |
| Activity duration in months (truncated at latest sweep)                          |
| Activity type  |
| Activity full-time or part-time (work activities only)                           |
| Activity start and end dates (month and year)                                    |
| Data on length of known activity history / overlaps and gaps (months)            |
| Case and activity errors   |
| Reason left job  |
| Activity employment status and activity socio-economic codes                     |
| Latest sweep activity mentioned at, and date of CM's interview at each sweep     |
| Sweep and slot number that activity was reported in                              |

A detailed list of the variables included in the activity histories is found in appendix 1.

---

<sup>1</sup> Century month is calculated as the number of months since 1900

## Types of activity included in the activity histories

Variable JACTIV holds the activity type (work and non-work), the activity categories included are:

|    |                                       |
|----|---------------------------------------|
| 1  | F/t paid employee 30+ hrs             |
| 2  | P/t paid employee lt 30 hrs           |
| 3  | F/t self-employed                     |
| 4  | P/t self-employed                     |
| 5  | Employed work but not known if ft/pt  |
| 6  | Self-emp work but not know if ft/pt   |
| 7  | Employed, but unpaid                  |
| 8  | F/t work not know if emp or s/e       |
| 9  | P/t work not know if emp or s/e       |
| 10 | Work but not known if ft/pt or emp/se |
| 11 | Unemployed seeking work               |
| 12 | F/t education                         |
| 13 | Part-time education                   |
| 14 | Government training scheme            |
| 15 | Temporarily sick/disabled             |
| 16 | Permanently sick/disabled             |
| 17 | Sick/ disabled not known if perm/temp |
| 18 | Looking after home/family             |
| 19 | Wholly retired                        |
| 20 | Voluntary work                        |
| 21 | Maternity leave                       |
| 22 | Travelling/ extended holiday          |
| 97 | Other                                 |

## Socioeconomic variables

For work activities, socioeconomic status is coded at each sweep (e.g. NSSEC, RGSC). The coding used differs at each sweep. For completeness all socioeconomic variables coded are included in the BCS70 activity history dataset. Where a socioeconomic variable has not been coded at a sweep, the value is set to -8 (don't know/not enough info) for all work activities.

Details of these socioeconomic variables and the sweeps in which they are included are as below:

| variable | variable label                                     | Whether included for work activities in sweep<br>(current implies current job only): |         |         |        |        |
|----------|--|--|---------|---------|--------|--------|
|          |  | Age 26   | Age 30  | Age 34  | Age 38 | Age 42 |
| JYLEFT   | Reason left job                                    |  | yes     | yes     | yes    | yes    |
| JYLEFTX  | Reason left job (detailed)                         |  | yes     | yes     | yes    | yes    |
| JYLEFTO  | Reason left job (detailed) other                   |  | yes     | yes     | yes    | yes    |
| JEMPST   | Activity employment status                         | current  | yes     | yes     | yes    | yes    |
| J91SEG   | Activity SEG '91                                   | current  | yes     | yes     | yes    | yes    |
| J90SOC   | Activity soc90                                     | current  | yes     | yes     | yes    |        |
| J91SC    | Activity social class '91                          | current  | yes     | yes     | yes    | yes    |
| J2KSOC   | Activity soc2000                                   |  |         | yes     | yes    | yes    |
| J10SOC   | Activity soc2010                                   |  |         |         |        |        |
| JNSSEC   | Activity NS-SEC (long version)                     |  |         | yes     | yes    | yes    |
| J8NSSEC  | Activity NS-SEC8 (analytic version)                |  |         | yes     | yes    | yes    |
| J07SIC   | Activity S.I.C. 2003                               |  |         |         |        |        |
| J03SIC   | Activity S.I.C. 2003                               |  |         |         | yes    |        |
| J92SIC   | Activity S.I.C. 1992                               |  |         | current |        |        |
| JSIC     | Activity S.I.C.                                    |  | current |         |        |        |
| JTORG    | Activity Type of organisation CM works for (s6&s7) |  | current | current |        |        |
| JCAMGP   | Activity Cambridge Sub-Group & Title Ident.        | current  |         |         |        |        |
| JCAMSM   | Activity Cambridge Scale Score - Males             | current  |         |         |        |        |
| JCAMSF   | Activity Cambridge Scale Score - Females           | current  |         |         |        |        |
| J88ISC   | Activity ISCO '88-Int Stan Class of Occupns        | current  |         |         |        |        |
| JKOS     | Activity KOS - Key Occupns for Stats               | current  |         |         |        |        |
| JCODOT   | Activity CODOT - 3 digit classification            | current  |         |         |        |        |
| JOP80C   | Activity OPCS 1980 - Operational Code              | current  |         |         |        |        |
| JOP80G   | Activity OPCS 1980 - Occupation Unit Group         | current  |         |         |        |        |
| J81SEG   | Activity Socio-Economic Group 1981                 | current  |         |         |        |        |
| J81RGS   | Activity Social Class RG's 1981                    | current  |         |         |        |        |
| JOP70G   | Activity OPCS 1970 - Occupation Unit Group         | current  |         |         |        |        |

| variable | variable label                           | Whether included for work activities in sweep<br>(current implies current job only): |        |        |        |        |
|----------|--|--|--------|--------|--------|--------|
|          |  | Age 26   | Age 30 | Age 34 | Age 38 | Age 42 |
| J71SEG   | Activity Socio-Economic Group 1971       | current  |        |        |        |        |
| J71RGS   | Activity Social Class RG's 1971          | current  |        |        |        |        |
| J66SEG   | Activity Socio-Economic Group 1966       | current  |        |        |        |        |
| J66RGS   | Activity Social Class RG's 1966          | current  |        |        |        |        |
| J61SEG   | Activity Socio-Economic Group 1961       | current  |        |        |        |        |
| J90GSC   | Activity Goldthorpe Social Class 1990    | current  |        |        |        |        |
| J80GSC   | Activity Goldthorpe Social Class 1980    | current  |        |        |        |        |
| J70GSC   | Activity Goldthorpe Social Class 1970    | current  |        |        |        |        |
| JHGCG    | Activity Hope-Goldthorpe Collapsed Group | current  |        |        |        |        |
| JHGSS    | Activity Hope-Goldthorpe Scale Score     | current  |        |        |        |        |

## Construction of the BCS70 Activity Histories

The BCS70 activity histories dataset is constructed using the SIR programming language. Activity data is accessed from Age 26, Age 30, Age 34, Age 38 and Age 42 Sweeps and stored in arrays. These arrays are then examined for data issues that require editing; duplication (where activities are reported again in a later sweep); activity overlap and missing end dates (see below).

### Cleaning of the BCS70 activity data

Cleaning that came to light during the construction of the activity histories has been included in the BCS70 activity history construction program (see appendix 2 for details).

### Editing of the BCS70 activity data due to issues with the data

Where an activity in a sweep is reported to have start dates earlier than activity dates in a previous sweep:

- If the activities in both sweeps are the same, it is assumed that they are duplicated and the start date of the activity in the later sweep is edited to match that of the previous sweep
- Else if the activities are different and if an end date is reported for the activity in the previous sweep the start date of the activity reported in the later sweep is set to this end date.
- Else if the activities are different and the activity in the previous sweep has no end date reported, the end of the activity reported in the previous sweep and the start of the activity reported in the later sweep are set to be the interview date of the previous sweep.

### Activities current at the time of a sweep interview

Activities current at the time of a sweep interview should be included in the next sweep as either the current activity or a previous activity since the last sweep. In these cases the activities reported in the different sweeps are treated as duplicates (see below).

### Duplicate activities

All activities in a sweep are compared with all activities in previous sweeps to identify duplicates. Activities are considered to be duplicates if:

They are reported in different sweeps, appear to be the same activity<sup>2</sup> and:

---

<sup>2</sup> Activities are considered to be the same if the same non-work activity or the same work activity with matching (or very similar) SOC codes

- activity start and end dates match or both end dates missing or end date missing in the earlier sweep (duplicate type 1) or
- activity start dates are within 6 months of each other and dates overlap, both end dates are missing or end date missing in the earlier sweep (duplicate type2) or
- activities start within 14 months<sup>3</sup> of each other, both end dates are missing or end date missing in the earlier sweep (duplicate type 3)

In the case of duplicates, any dates reported in the earlier sweep are assumed to be the more reliable. Non-date data is taken from duplicated activities where missing in the latest version. Data is only taken from the earlier duplicated activities if this is consistent with the later data. Duplicated activities are not included in the BCS70 activity history dataset.

## **Activity start and end dates and durations**

Activities that start and end before the age of 16 are omitted from the activity history dataset. For activities that start before the age of 16 and end after the age of 16, the start date is edited to be April 1986 when the cohort members were 16.

Where an activity is reported to overlap with a subsequent activity, and both are full time activities or either activity is one that cannot be combined with any other full time or part time activity, the activity duration is truncated to end before the subsequent activity starts. In order that such truncation does not result in a substantial gap in the activity history; it only occurs if the activity end date is less than 6 months after the end date of the subsequent activity or another subsequent activity starts before the end date of the activity. Activity overlaps are allowed where a valid overlap of activities occurs, for example full time education and part time work.

Where an activity has no end date reported, and is not current at the latest sweep, the end date is computed as the start date of the next chronological activity or, if there is no following activity, the end date is computed as the interview date of the latest sweep that the activity was reported at. Activity end dates are set to -6 where an activity is still current at the cohort member's most recent sweep.

## **Date century months**

In order to facilitate date computations, century months, the number of months since 1900, are calculated for all dates. Where the date year is missing, the century month variable is set to -8 (don't know/not enough info). Where the date month is missing, a value of 6 (June) is used in the century month calculations.

## **Missing data**

Variables are set to missing value -1 (not applicable) where no data is expected as in the case of dummy activity records (added where a cohort member was reported to have died by age 16 or has had no activity data reported) or where a variable is not applicable for a particular activity, for example socio-economic variables for a non-work activity.

---

<sup>3</sup> Examination of the data showed that a common discrepancy in start dates of duplicate activities was differing by 1 year and up to 2 months

Variables are set to -8 (don't know/ not enough info) where data is expected but has not been collected.

## **Zero duration activities**

Activities have duration of zero where:

- An activity is reported to be still current at the cohort members' most recent interview and starts in the same month as the month of the cohort members most recent interview
- The cohort member has reported an activity to start and end in the same month
- The start date reported for a succeeding activity causes the end date of an activity to be forced to be the same as the start date for that activity.
- Editing of the data due to date overlap as described above has caused the start date of an activity to be forced to be the same as the end date of that activity.

For completeness these zero duration activities are included in the dataset.

## **Age 38 Sweep continuing work activities from previous sweep**

If, at Age 38 Sweep, a cohort member reports doing the same activity as the previous sweep, their Age 38 Sweep current activity is deemed to be a continuation of the previous sweep's current activity only if this is a non-work activity or their employment status and work sector and organisation type match that of the previous sweep. If there is a change in employment status, work sector or organisation type then a new activity is triggered for Age 38 Sweep, with end date of the last sweep's current activity and start date of the Age 38 Sweep current activity set to the Age 38 Sweep interview date.

SOC2000 code differences was not used to trigger a new activity for Age 38 Sweep, as it was felt that soc coding is a subjective exercise, this means that for those cohort members reporting doing the same activity as the previous sweep, the SOC2000 code for the activity history activity over the Age 38 Sweep interview period may not match that in the deposited Age 38 Sweep data.

See appendix 3 for details of the processing of Age 38 Sweep cases where cohort members report continuing the same work activity as the previous sweep.

## Age 42 Sweep activities addition to the BCS70 activity histories

As with the Age 38 Sweep, the Age 42 Sweep used dependent interviewing for the cohort members activity data, allowing for more accurate linking of activity data than in previous sweeps . The cohort members can be grouped according to the responses that they made to the economic activity section of the Age 42 Sweep questionnaire as detailed below. The Age 42 Sweep data is added to the BCS70 activity histories with variable JSLOT in the range 80-96.

| Group | Age 42 Sweep response to economic activity questions  | Number of cases |
|-------|---|-----------------|
| 1     | Main stage CM last interviewed in Age 30, Age 34 or Age 38 Sweeps, and reports doing same activity as last sweep continuously B9ECLAST=1 AND B9CJCONT=<>2 OR Dress rehearsal CM Doing same activity as lastswp and same employer if employed B9ECLTDR=2 and B9CJSMDR<>2   | 5470            |
| 2     | CM last interviewed In Age 30, Age 34 or Age 38 Sweeps. Main stage CM not doing same activity as last sweep or not continuously ECONLAST/B9ECLAST=2 OR jCONT/B9CJCONT=2 OR DR CM not Doing same activity as last sweep or different employer if employed B9ECLTDR=1 or B9CJSMDR<>2  | 3444            |
| 3     | CM reports that activity at last sweep incorrectly recorded ECONLAST/B9ECLAST=3 OR CM not interviewed in last 3 sweeps FFSWEEP2=2 OR CM interviewed in the last 3 sweeps but no economic activity feedforward FFSWEEP and FFRECON<>response AND reports still doing activity from last sweep/January 2000 and continuously (B9CURACT=1 and B9CURACS=1)  | 291             |
| 4     | CM reports that activity at last sweep incorrectly recorded B9ECLAST=3 OR CM not interviewed in last 3 sweeps FFSWEEP2=2 OR OR CM interviewed in the last 3 sweeps but no economic activity feedforward FFSWEEP and FFRECON<>response AND reports not still doing activity from last sweep/January 2000 or not continuously (B9CURACT=2 or B9CURACS=2 ) | 581             |
| 5     | Proxy interview cohort member B9INTWHO=3  | 25              |
| 6     | CM refuses to respond/DK at: B9ECLAST , B9CJCONT, B9ACTIV, B9IWOFF=1 or (B9PRTIAL=1 and B9EMPINO=-1)  | 30              |

See appendix4 for details of the processing of the Age 42 Sweep activity data for each of these groups.

Some general points about the inclusion of the Age 42 Sweep activity data are as follows:

Where an activity starts at the same time as a previous sweep's current activity, and is not a duplicate, the previous activity end date is computed as the same as its start (0 duration) in order to retain that activity data for completeness.

At Age 42 Sweep, where the cohort member reports still doing the same job as the previous sweep, if the Age 42 Sweep activity soc2000 code does not match the previous sweeps soc2000 code, a new activity is triggered for the Age 42 Sweep current activity, with the end of the last sweep's current activity and the start of the Age 42 Sweep current activity set to the Age 42 Sweep interview date in order to preserve the soc2000 codes as coded at both the previous sweep and Age 42 Sweep



Where socio-economic codes are repeated in the Age 42 Sweep data (i.e. where the activity at 2004/last sweep or latest activity history activity is still current), the socio economic data, including employment status used in the BCS70 activity histories are taken from the flatfile B9C variables even if these differ from the flatfile B9J /activity history B9A variables.

## Completeness of the BCS70 Activity Histories

In order to judge how complete a cohort members activity history is the following variables are computed: variable HISTLEN reports the total number of months in the cohort member's activity history; variable OVERLAP reports the number of months where two or more full time activities overlap, that is where the truncation procedure described above was not operated; variable GAP reports the number of months where no activity is recorded for a cohort member. Variables POVERLAP and PGAP report the number of months with overlapping full time activities or no activity reported, as a percentage of the total activity history.

A summary of these variables for the 13408 cases with activity history data is found below<sup>4</sup>:

| Variable | Statistic reported by variable                                       | Number of cases with valid values | % of valid cases with variable value of zero | Statistics of non-zero values for valid cases |     |     |        |        |
|----------|--|-----------------------------------|--|---|-----|-----|--------|--------|
|          |  |                                   |  | N   | Min | Max | Mean   | StdDev |
| HISTLEN  | Number of months in CM's activity history                            | 13408                             | 0  | 13408   | 1   | 326 | 275.28 | 71.36  |
| OVERLAP  | Number of months where two or more full time activities overlap      | 13408                             | 100  | 0   | n/a | n/a | n/a    | n/a    |
| POVERLAP | % of activity history where two or more full time activities overlap | 13408                             | 100  | 0   | n/a | n/a | n/a    | n/a    |
| GAP      | Number of months where no activity is recorded                       | 13408                             | 97.9   | 277   | 1   | 233 | 57.48  | 46.9   |
| PGAP     | % of activity history where no activity is recorded                  | 13408                             | 97.9   | 277   | 1   | 100 | 23.48  | 24.35  |

<sup>4</sup> As the table shows, the activity history for BCS70 has no activities with activity overlap but these rows are included for comparison with NCDS.

## Appendix 1: Variables in BCS70 Activity Histories Dataset

| Variable | Variable label   |
|----------|--|
| BCSID    | BCS70 identifier   |
| WSWEEP05 | Age 26 Sweep: Wh participated and wh activity data included              |
| WSWEEP06 | Age 30 Sweep: Wh participated and wh any activity data                   |
| WSWEEP07 | Age 34 Sweep: Wh participated and wh any activity data                   |
| WSWEEP08 | Age 38 Sweep: Wh participated and wh any activity data                   |
| WSWEEP09 | Age 42 Sweep: Wh participated and wh any activity data                   |
| CMSEX    | CM's sex   |
| NUMACTS  | Total number of activities   |
| ACTNUM   | Activity number  |
| LSTSWCMC | Century month <sup>5</sup> of latest interview                           |
| JSTCMC   | Activity start century month <sup>5</sup>                                |
| JENDCMC  | Activity end century month <sup>5</sup>                                  |
| JDUR     | Activity duration in months (truncated at latest sweep)                  |
| JACTIV   | Activity activity type   |
| JFTPT    | Activity full-time or part-time (work activities only)                   |
| JSTMTH   | Activity start month   |
| JSTYR    | Activity start year  |
| JENDMTH  | Activity end month   |
| JENDYR   | Activity end year  |
| HISTLEN  | Length of known activity history incl. gaps (months)                     |
| OVERLAP  | Total overlap in activities (months)                                     |
| POVERLAP | Percentage overlap in activities (of total history)                      |
| GAP      | Total gap in activities (months)   |
| PGAP     | Percentage gap in activities (of total history)                          |
| CERRORS  | Case has activity history errors   |
| AERRORS  | Activity has activity history errors                                     |
| AERROR1  | Act.err: End date overlaps next activity, truncated                      |
| AERROR2  | Act.err: Start date missing  |
| AERROR3  | Act.err: End date missing  |
| AERROR4  | Act.err: End date before start date, set to start date, dur set to -8 dk |
| AERROR5  | Act err: Non f/t ed activity<age16, start set to 4 1986                  |
| AERROR6  | Act err: Act. curr. at latest swp but start<sweep date, dur set to 0     |
| AERROR7  | Act err: Forced start of activity  |
| AERROR8  | Act err: Forced end of activity  |
| JYLEFT   | Activity Reason left job (s6,s7,s8 work activities)                      |
| JYLEFTX  | Activity Reason left job (detailed s6,s7,s8)                             |
| JYLEFTO  | Activity Reason left job (detailed s6,s7,s8) other specified             |
| JEMPST   | Activity employment status (s5,s6,s7,s8 work activities)                 |
| J91SEG   | Activity SEG '91(s5,s6,s7,s8 work activities)                            |
| J91SC    | Activity social class '91 (s5,s6,s7,s8 work activities)                  |

<sup>5</sup> Century month is calculated as the number of months since 1900

| <b>Variable</b> | <b>Variable label</b>  |
|-----------------|--|
| J90SOC          | Activity soc90 (s5,s6,s7,s8 work activities)                           |
| J2KSOC          | Activity soc2000 (s7,s8 work activities)                               |
| J10SOC          | Activity soc2010 (s9 work activities)                                  |
| JNSSEC          | Activity NS-SEC (long version - s7,s8 work activities)                 |
| J8NSSEC         | Activity NS-SEC8 (analytic version - s7,s8 work activities)            |
| J07SIC          | Activity S.I.C. 2007 (s9 current work activity)                        |
| J03SIC          | Activity S.I.C. 2003 (s8 work activities)                              |
| J92SIC          | Activity S.I.C. 1992 (s7 current work activity)                        |
| JSIC            | Activity S.I.C. (s6 current work activity)                             |
| JTORG           | Activity Type of organisation CM works for (s6 work activities)        |
| JCAMGP          | Activity Cambridge Sub-Group & Title Ident. (s5 current work activity) |
| JCAMSM          | Activity Cambridge Scale Score - Males (s5 current work activity)      |
| JCAMSF          | Activity Cambridge Scale Score - Females (s5 current work activity)    |
| J88ISC          | Activity ISCO '88-Int Stan Class of Occupns (s5 current work activity) |
| JKOS            | Activity KOS - Key Occupns for Stats (s5 current work activity)        |
| JCODOT          | Activity CODOT - 3 digit classification (s5 current work activity)     |
| JOP80C          | Activity OPCS 1980 - Operational Code (s5 current work activity)       |
| JOP80G          | Activity OPCS 1980 - Occupation Unit Group (s5 current work activity)  |
| J81SEG          | Activity Socio-Economic Group 1981 (s5 current work activity)          |
| J81RGS          | Activity Social Class RG's 1981 (s5 current work activity)             |
| JOP70G          | Activity OPCS 1970 - Occupation Unit Group (s5 current work activity)  |
| J71SEG          | Activity Socio-Economic Group 1971 (s5 current work activity)          |
| J71RGS          | Activity Social Class RG's 1971 (s5 current work activity)             |
| J66SEG          | Activity Socio-Economic Group 1966 (s5 current work activity)          |
| J66RGS          | Activity Social Class RG's 1966 (s5 current work activity)             |
| J61SEG          | Activity Socio-Economic Group 1961 (s5 current work activity)          |
| J90GSC          | Activity Goldthorpe Social Class 1990 (s5 current work activity)       |
| J80GSC          | Activity Goldthorpe Social Class 1980 (s5 current work activity)       |
| J70GSC          | Activity Goldthorpe Social Class 1970 (s5 current work activity)       |
| JHGCG           | Activity Hope-Goldthorpe Collapsed Group (s5 current work activity)    |
| JHGSS           | Activity Hope-Goldthorpe Scale Score (s5 current work activity)        |
| SWPFLG05        | CM in Age 26 Sweep   |
| INTMON05        | Month of Age 26 Sweep interview  |
| INTYR05         | Year of Age 26 Sweep interview   |
| INTCMC05        | Century month <sup>6</sup> of Age 26 Sweep interview                   |
| SWPFLG06        | CM in Age 30 Sweep   |
| INTMON06        | Month of Age 30 Sweep interview  |
| INTYR06         | Year of Age 30 Sweep interview   |
| INTCMC06        | Century month <sup>6</sup> of Age 30 Sweep interview                   |
| SWPFLG07        | CM in Age 34 Sweep   |
| INTMON07        | Month of Age 34 Sweep interview  |
| INTYR07         | Year of Age 34 Sweep interview   |

<sup>6</sup> Century month is calculated as the number of months since 1900

| <b>Variable</b> | <b>Variable label</b>   |
|-----------------|---|
| INTCMC07        | Century month <sup>6</sup> of Age 34 Sweep interview                        |
| SWPFLG08        | CM in Age 38 Sweep  |
| INTMON08        | Month of Age 38 Sweep interview   |
| INTYR08         | Year of Age 38 Sweep interview  |
| INTCMC08        | Century month <sup>6</sup> of Age 38 Sweep interview                        |
| SWPFLG09        | CM in Age 42 Sweep  |
| INTMON09        | Month of Age 42 Sweep interview   |
| INTYR09         | Year of Age 42 Sweep interview  |
| INTCMC09        | Century month <sup>6</sup> of Age 42 Sweep interview                        |
| JLSTSWP         | Latest sweep activity mentioned at (current at latest swp)                  |
| JLSTMTH         | Month of latest sweep activity mentioned at (current at latest swp)         |
| JLSTYR          | Year of latest sweep activity mentioned at (current at latest swp)          |
| JLSTCMC         | Century month of latest sweep activity mentioned at (current at latest swp) |
| JSLOT           | Sweep and slot number that activity was reported in                         |

## Appendix 2: Cleaning undertaken during construction of activity histories:

Examination of certain cohort member's activities led to individual activity start or end dates being edited or activity slots being dropped, see list below. Note the number in brackets is the activity slot number, see activity slot number descriptions below.

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if(BCSID='B10003Q')   ajbstyr(69)=1993
if(BCSID='B10507K')   ajbstyr(58)=2000; ajbstmth(58)=7; ajbendyr(58)=2000; ajbendmth(58)=7
if(BCSID='B10616P')   ajbstmth(71)=11; ajbendmth(70)=11
if(BCSID='B10763Z')   ajbstmth(71)=5; ajbendmth(70)=5
if(BCSID='B11997V')   ajbstyr(71)=2004; ajbendyr(70)=2004
if(BCSID='B12339V')   slot53 dropped
if(BCSID='B13056R')   ajbstmth(71)=9; ajbendmth(70)=9
if(BCSID='B13540Y')   ajbstyr(80)=2008 ; ajbstmth(80)=6
if(BCSID='B13548G')   ajbstyr(58)=2000; ajbstmth(58)=1
if(BCSID='B14471G')   ajbstmth(80)=9
if(BCSID='B14497S')   ajbstyr(80)=2008 ; ajbstmth(80)=11
if(BCSID='B14721F')   ajbstyr(71)=2004; ajbendyr(70)=2004
if(BCSID='B14918S')   ajbstyr(83)=2010 ; ajbendyr(83)=2010
if(BCSID='B15083C')   slots 58 and 68 dropped
if(BCSID='B15467Q')   ajbstyr(80)=2004; ajbstmth(80)=8
if(BCSID='B15721K')   ajbstmth(71)=7 ; ajbendmth(70)=7
if(BCSID='B17425N')   slot 57 dropped
if(BCSID='B19230M')   slots 58 and 68 dropped
if(BCSID='B19737K')   ajbstyr(67)=2000
if(BCSID='B20405K')   ajbstyr(80)=2008; ajbstmth(80)=1
if(BCSID='B20750Z')   slot68 dropped
if(BCSID='B20827D')   ajbstmth(70)=2
if(BCSID='B21862L')   ajbstyr(58)=1999 ;ajbendyr(57)=1999
if(BCSID='B22486L')   ajbstyr(80)=2000; ajbstmth(80)=2
if(BCSID='B22560D')   ajbstmth(58)=8 ;ajbendmth(57)=8
if(BCSID='B22605Z')   ajbendmth(72)=2; ajbendyr(72)=2005; ajbstmth(73)=2; ajbstyr(73)=2005
if(BCSID='B22855R')   ajbstmth(71)=7; ajbendmth(70)=7
if(BCSID='B23458L')   ajbstmth(71)=1; ajbstyr(71)=2003; ajbendmth(70)=1;
ajbendyr(70)=2003
if(BCSID='B24031R')   ajbstmth(71)=1; ajbendmth(70)=1
if(BCSID='B24163C')   ajbstmth(71)=9; ajbendmth(70)=9
if(BCSID='B24808S')   ajbstmth(71)=9; ajbendmth(70)=9
if(BCSID='B25873F')   ajbstyr(81)=2009 ; ajbstmth(81)=1; ajbendyr(81)=2009 ;
ajbendmth(81)=1
if(BCSID='B25873F')   ajbstyr(80)=2009 ; ajbstmth(80)=1
if(BCSID='B26075M')   ajbstmth(67)=11 ; ajbstyr(67)=1999
if(BCSID='B26533S')   ajbstmth(71)=9; ajbendmth(70)=9
if(BCSID='B27227P')   ajbstmth(71)=7; ajbstyr(71)=2004; ajbendmth(70)=7 ; ajbendyr(70)=2004
if(BCSID='B27961N')   ajbstyr(68)=1999
if(BCSID='B28125N')   ajbstyr(71)=2005; ajbendyr(70)=2005

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### Activity slot numbers

|      |                   |   |
|------|-------------------|---|
| (13) | "Swp 5: In work 1 | " |
| (14) | "Swp 5: In work 2 | " |
| (15) | "Swp 5: In work 3 | " |
| (16) | "Swp 5: In work 4 | " |
| (17) | "Swp 5: In work 5 | " |
| (18) | "Swp 5: In work 6 | " |
| (19) | "Swp 5: In work 7 | " |
| (20) | "Swp 5: In work 8 | " |
| (21) | "Swp 5: In work 9 | " |

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(22) "Swp 5: In work 10        "  
 (23) "Swp 5: In work 11        "  
 (24) "Swp 5: In work 12        "  
 (25) "Swp 5: Not in work 1      "  
 (26) "Swp 5: Not in work 2      "  
 (27) "Swp 5: Not in work 3      "  
 (28) "Swp 5: Not in work 4      "  
 (29) "Swp 5: Not in work 5      "  
 (30) "Swp 5: Not in work 6      "  
 (31) "Swp 5: Not in work 7      "  
 (32) "Swp 5: Not in work 8      "  
 (33) "Swp 5: Not in work 9      "  
 (34) "Swp 5: Not in work 10     "  
 (35) "Swp 5: Not in work 11     "  
 (36) "Swp 5: Not in work 12     "  
 (48) "Swp 6: Prevact 10         "  
 (49) "Swp 6: Prevact 9          "  
 (50) "Swp 6: Prevact 8          "  
 (51) "Swp 6: Prevact 7          "  
 (52) "Swp 6: Prevact 6          "  
 (53) "Swp 6: Prevact 5          "  
 (54) "Swp 6: Prevact 4          "  
 (55) "Swp 6: Prevact 3          "  
 (56) "Swp 6: Prevact 2          "  
 (57) "Swp 6: Prevact 1          "  
 (58) "Swp 6: Curract "         "  
 (59) "Swp 7: Prevact 10         "  
 (60) "Swp 7: Prevact 9          "  
 (61) "Swp 7: Prevact 8          "  
 (62) "Swp 7: Prevact 7          "  
 (63) "Swp 7: Prevact 6          "  
 (64) "Swp 7: Prevact 5          "  
 (65) "Swp 7: Prevact 4          "  
 (66) "Swp 7: Prevact 3          "  
 (67) "Swp 7: Prevact 2          "  
 (68) "Swp 7: Prevact 1          "  
 (69) "Swp 7: Curract "         "  
 (70) "Swp 8: Activity 1         "  
 (71) "Swp 8: Activity 2         "  
 (72) "Swp 8: Activity 3         "  
 (73) "Swp 8: Activity 4         "  
 (74) "Swp 8: Activity 5         "  
 (75) "Swp 8: Activity 6         "  
 (76) "Swp 8: Activity 7         "  
 (77) "Swp 8: Activity 8         "  
 (78) "Swp 8: Activity 9         "  
 (79) "Swp 8: Activity 10         "  
 (80) "Swp 9: 2004 act/corrected lstswp act"  
 (81) "Swp 9: Acthist rec 1"  
 (82) "Swp 9: Acthist rec 2"  
 (83) "Swp 9: Acthist rec 3"  
 (84) "Swp 9: Acthist rec 4"  
 (85) "Swp 9: Acthist rec 5"  
 (86) "Swp 9: Acthist rec 6"  
 (87) "Swp 9: Acthist rec 7"  
 (88) "Swp 9: Acthist rec 8"  
 (89) "Swp 9: Acthist rec 9"  
 (90) "Swp 9: Acthist rec 10"  
 (91) "Swp 9: Acthist rec 11"  
 (92) "Swp 9: Acthist rec 12"  
 (93) "Swp 9: Acthist rec 13"  
 (94) "Swp 9: Acthist rec 14"  
 (95) "Swp 9: Acthist rec 15"  
 (96) "Swp 9: Asked Current activity"/

### Appendix 3: Age 38 Sweep continuing work activities from previous sweep

The table below details how the BCS70 activity history program deals with Age 38 Sweep cohort members reporting still doing the same work activity as their previous sweep.

| Age 38 Sweep group |  | Age 38 Sweep group | Group description   | Num of cases | Work history program action   |
|--------------------|--|--------------------|---|--------------|---|
| 1-4                | CM last interviewed In sweeps 6, or 7 and reports doing same activity as last sweep continuously B2ECLAST=2 and b8cjsame=1 | 1                  | CM last interviewed in Age 34 Sweep, B8ES2000 (empstat) and B8CJORG match employment status and organisation type from Age 34 Sweep N.B. soc2000 code may differ, s7 soc2000 used if so | 2677         | Age 34 Sweep current activity value for J03SIC updated with values for b8sic3 (note other socio-economic vars remain as coded at Age 34 Sweep) and jlstswp and JLSTSWP, JLSTMTH, JLSTYR, JLSTCMC(Latest sweep activity mentioned at and dates) amended to Age 38 Sweep values.  |
|                    |  | 2                  | CM last interviewed in Age 34 Sweep, B8ES2000 (empstat) and B8CJORG don't match employment status and organisation type from Age 34 Sweep   | 1311         | Age 34 Sweep current activity end date will be set to Age 38 Sweep interview date and a new Age 38 Sweep current activity is generated from the Age 38 Sweep current activity data (variables BD8ECACT, B8ES2000 to B8SIC3) with start date of Age 38 Sweep interview date.   |
|                    |  | 3                  | CM last interviewed in Age 30 Sweep, B8ES2000 (empstat) and B8CJORG match employment status and organisation type from Age 30 Sweep .   | 118          | Age 30 Sweep current activity value for J2KSOC JNSSEC J8NSSEC J03SIC updated with values for b8SOCX b8NSSEC b8NS8 b8sic3 (note other socio-economic vars remain as coded at Age 30 Sweep) and jlstswp and JLSTSWP, JLSTMTH, JLSTYR, JLSTCMC(Latest sweep activity mentioned at and dates) amended to Age 38 Sweep values. |
|                    |  | 4                  | CM last interviewed in Age 30 Sweep, B8ES2000 (empstat) and B8CJORG don't match employment status and organisation type from Age 30 Sweep .   | 71           | Age 30 Sweep current activity end date will be set to Age 38 Sweep interview date and a new Age 38 Sweep current activity is generated from the Age 38 Sweep current activity data (variables BD8ECACT, B8ES2000 to B8SIC3) with start date of Age 38 Sweep interview date.   |



## Appendix 4: Age 42 Sweep activities addition to the BCS70 activity histories

The Age 42 Sweep activity data to be added to the BCS70 activity histories was grouped according to responses to the initial questions in the economic activity section of the Age 42 Sweep data sweep questionnaire and treated as detailed below.

| Age 42 Sweep group |  | Number of cases | Age 42 Sweep subgroup |  | Number of cases | Work history programming   |
|--------------------|--|-----------------|-----------------------|--|-----------------|--|
| 1                  | Mainstage CM last interviewed In sweeps 6, 7 or 8. And reports doing same activity as last sweep continuously<br>ECONLAST/B9ECLAST =1 AND<br>CJCONT/B9CJCONT=<><br>>2<br>OR<br>Dress rehearsal CM<br>Doing same activity as lastswp and same employer if employed<br>ECONLAST /B9ECLTDR=2<br>AND<br>CJSAME/B9CJSMDR<><br>2 | 5470            | 1.1                   | CM last interviewed in Age 38 Sweep, jobtitle has not changed (B9CJTIT=2), B9CEMPST and B9CJORG match employment status and organisation type from Age 38 Sweep, and B9S2000 = Age 38 Sweep current activity soc2000 code        | 2646            | Age 38 Sweep current activity values for socio-economic vars remain as coded at Age 38 Sweep and JLSTSWP, JLSTMTH, JLSTYR, JLSTCMC(Latest sweep activity mentioned at and dates) amended to Age 42 Sweep values  |
|                    |  |                 | 1.2                   | CM last interviewed in Age 38 Sweep, job title reported changed at B9CJTIT or B9CEMPST and B9CJORG don't match employment status and organisation type from Age 38 Sweep or B9S2000<> Age 38 Sweep current activity soc2000 code | 2413            | Age 38 Sweep current activity end date will be set to Age 42 Sweep interview date and a new Age 42 Sweep current activity (jslot=81) is generated from the Age 42 Sweep current activity data (variables BD9ECACT, B9CEMPST to B9CSIC) with start date of Age 42 Sweep interview date. |
|                    |  |                 | 1.3                   | CM last interviewed in Age 34 Sweep, jobtitle has not changed (B9CJTIT=2) , B9CEMPST and B9CJORG match employment status and organisation type from Age 34 Sweep and B9S2000 =Age 34 Sweep current activity soc2000 code         | 112             | Age 34 Sweep current activity values for socio-economic vars remain as coded at Age 34 Sweep and jlstswp and JLSTSWP, JLSTMTH, JLSTYR, JLSTCMC(Latest sweep activity mentioned at and dates) amended to Age 42 Sweep values  |
|                    |  |                 | 1.4                   | CM last interviewed in Age 34 Sweep, job title reported changed at B9CJTIT or B9CEMPST and B9CJORG don't match employment status and organisation type from Age 38 Sweep or B9S2000 Age 34 Sweep current activity soc2000 code   | 210             | Age 34 Sweep current activity end date will be set to Age 42 Sweep interview date and a new Age 42 Sweep current activity (jslot=81) is generated from the Age 42 Sweep current activity data (variables BD9ECACT, B9CEMPST to B9CSIC) with start date of Age 42 Sweep interview date. |
|                    |  |                 | 1.5                   | CM last interviewed in Age 30 Sweep, jobtitle has not changed (B9CJTIT=2) , B9CEMPST and B9CJORG match employment status and organisation type from Age 30 Sweep   | 71              | Age 30 Sweep current activity values for socio-economic vars remain as coded at Age 30 Sweep) and jlstswp and JLSTSWP, JLSTMTH, JLSTYR, JLSTCMC(Latest sweep activity mentioned at and dates) amended to Age 42 Sweep values   |

| Age 42 Sweep group |  | Number of cases | Age 42 Sweep subgroup |  | Number of cases | Work history programming   |
|--------------------|--|-----------------|-----------------------|--|-----------------|--|
|                    |  |                 | 1.6                   | CM last interviewed in Age 30 Sweep, job title reported changed at B9CJTIT or B9CEMPST and B9CJORG don't match employment status and organisation type from Age 30 Sweep | 18              | Age 30 Sweep current activity end date will be set to Age 42 Sweep interview date and a new Age 42 Sweep current activity (jslot=81) is generated from the Age 42 Sweep current activity data (variables ND9ECACT, B9CEMPST to B9CSIC) with start date of Age 42 Sweep interview date  |
| 2                  | CM last interviewed In sweeps 6, 7 or 8. Mainstage CM not doing same activity as last swp or not continuously<br>ECONLAST/B9ECLAST =2 OR<br>CjCONT/B9CJCONT=2<br>Or<br>DR CM not Doing same activity as lastswp or different employer if employed<br>ECONLAST /B9ECLTDR=1<br>OR<br>CJSAME/B9CJSMDR<> 2 | 3444            | 2                     | Start of first activity history activity is after the interview date of the last sweep   | 3424            | <p>The end of the previous sweeps current activity is set as reported in variables B9AENDY B9AENDM in first activity history record (or set to that sweeps interview date if B9AENDY in first activity history record is missing, if just B9AENDM missing, endmonth set to June) .</p> <p>Activities added as reported in activity history records with jslot=80+b9actid, start dates set to the end of the previous activity as reported in variables B9AENDY B9AENDM (or Age 42 Sweep interview date if variable B9AENDY missing and activity current at Age 42 Sweep or activities own end date if variable B9AENDY and activity not current at Age 42 Sweep) .</p> <p>The end of each activity in the activity histories is set as reported in variables B9AENDY B9AENDM in the following activity, if exists (or set to the start of that activity's own end date, if variable B9AENDY in the following activity is missing).</p> <p>Age 42 Sweep current activity is the last activity history record which CM reports as still doing and continuously (B9ACURAC=1 and B9ACURAS=1). Data for this activity is taken from Age 42 Sweep current activity data (variables ND9ECACT, B9CEMPST to B9CSIC)</p> |
|                    |  |                 | 2.1                   | Start of first activity history activity is before the interview date of the last sweep  | 20              | AS for Age 42 Sweep subgrp 2 above but enddate of the current activity at the last sweep and the start date of the first activity history activity are set to the interview date of the last active sweep.   |

| Age 42 Sweep group |   | Number of cases | Age 42 Sweep subgroup |  | Number of cases | Work history programming  |
|--------------------|---|-----------------|-----------------------|--|-----------------|---|
| 3                  | [CM reports that activity at last sweep incorrectly recorded ECONLAST/B9ECLAST =3 (N=111)<br>OR<br>CM not interviewed in last 3 sweeps FFSWEEP2=2<br>OR<br>FFSWEEP and FFRECON<>response ]<br>AND<br>reports still doing activity from last sweep/January 2000 and continuously (B9CURACT=1 and B9CURACS=1) | 291             | 3.1                   | No unfinished previous activity and Start year for corrected activity from last sweep/Jan2000 (B9styr B9stmth) NOT missing   | 164             | Age 42 Sweep current activity data (corrected activity from last sweep/Jan2000, jslot=80) is taken from Age 42 Sweep current activity data (variables ND9ECACT, B9CEMST to B9CSIC).   |
|                    |   |                 | 3.2                   | Start date for corrected activity from last sweep/Jan2000 (B9styr B9stmth) exists and > start date for most recent previous activity.  | 53              | As for Age 42 Sweep subgroup 3.1 above plus....<br>End dates for most recent previous activity set to the earliest of that sweeps interview date/ start date for corrected activity from last sweep/Jan2000 (B9styr B9stmth).   |
|                    |   |                 | 3.3                   | Start date for corrected activity from last sweep/Jan2000 (B9styr B9stmth) exists and <= start date for most recent previous activity and CM last interviewed in sweeps 6, 7 or 8. | 52              | As for Age 42 Sweep subgroup 3.1 above plus....<br>End date of most recent previous activity is set to its start date. Start date of corrected activity from last sweep/Jan2000 (jslot=80) set to start of most recent previous activity.                             |
|                    |   |                 | 3.4                   | Start date for corrected activity from last sweep/Jan2000 (B9styr B9stmth) exists and <= start date for most recent previous activity and CM not interviewed in sweeps 6, 7 or 8.  | 5               | As for Age 42 Sweep subgroup 3.1 above plus....<br>End date of most recent previous activity is set to that sweeps interview date. Start date of corrected activity from last sweep/Jan2000 (jslot=80) is set to most recent previous activity sweeps interview date. |
|                    |   |                 | 3.5                   | Start year for corrected activity from last sweep/Jan2000 (B9styr B9stmth) missing and CM last interviewed in sweeps 6, 7 or 8.  | 0               | As for Age 42 Sweep subgroup 3.1 above plus....<br>End date of most recent previous activity is set to that sweeps interview date. Start date of corrected activity from last sweep/Jan2000 (jslot=80) is set to last sweeps interview date                           |
|                    |   |                 | 3.6                   | Start year for corrected activity from last sweep/Jan2000 (B9styr B9stmth) missing and CM not interviewed in sweeps 6, 7 or 8.   | 17              | As for Age 42 Sweep subgroup 3.1 above plus....<br>End date of most recent previous activity is set to that sweeps interview date. Start date of corrected activity from last sweep/Jan2000 (jslot=80 amd Age 42 Sweep current activity) is set to January 2000       |

| Age 42 Sweep group |  | Number of cases | Age 42 Sweep subgroup |  | Number of cases | Work history programming   |
|--------------------|--|-----------------|-----------------------|--|-----------------|--|
| 4                  | <p>CM reports that activity at last sweep incorrectly recorded<br/>ECONLAST/B9ECLAST =3<br/>OR<br/>CM not interviewed in last 3 sweeps<br/>FFSWEEP2=2<br/>OR<br/>FFSWEEP and FFRECON&lt;&gt;response AND reports not still doing activity from last sweep/January 2000 or not continuously (B9CURACT=2 or B9CURACS=2</p> | 581             | 4.1                   | No unfinished previous activity  | 396             | <p>The data (including start date) for corrected activity from last sweep/Jan2000 (jslot=80) is taken from Age 42 Sweep variables B9ACTIV, B9STMO, B9STYR, B9JEMPST to B9JSC. Start date is set to Jan2000 if B9STYR missing, start month set to June if B9STYR not missing and B9STMTH missing.</p> <p>The end of the corrected activity from last sweep/Jan2000 (jslot=80) is set as reported in variables B9AENDY B9AENDM in first activity history record (or set to the last active sweep's interview date if active in Age 30-38 Sweeps or Jan2000 if not where B9AENDY in first activity history record is missing, if just B9AENDM missing, end month set to June) .</p> <p>The end of each activity in the activity histories is set as reported in variables B9AENDY B9AENDM in the following activity (or set to the own start of that activity if variable B9AENDY in the following activity is missing). Activities added as reported in activity history records with start dates set to the end of the previous activity as reported in variables B9AENDY B9AENDM (or Age 42 Sweep interview date if variable B9AENDY missing and activity current at Age 42 Sweep or activities own end date if variable B9AENDY and activity not current at Age 42 Sweep) .</p> <p>Age 42 Sweep current activity is the last activity history record which CM reports as still doing and continuously (B9ACURAC=1 and B9ACURAS=1). Data for this activity is taken from Age 42 Sweep current activity data (variables ND9ECACT, B9CEMPST to B9CSIC)</p> |
|                    |  |                 | 4.2                   | Start date for corrected activity from last sweep/Jan2000 (B9styr B9stmth) > start date for most recent previous activity. | 92              | <p>As for Age 42 Sweep subgroup 4.1 above plus....<br/>End dates for most recent previous activity set to the earliest of that sweeps interview date/ start date for corrected activity from last sweep/Jan2000 (B9styr B9stmth).</p>  |
|                    |  |                 |                       |  |                 |  |

| Age 42 Sweep group |                                   | Number of cases | Age 42 Sweep subgroup |  | Number of cases | Work history programming   |
|--------------------|-----------------------------------|-----------------|-----------------------|--|-----------------|--|
|                    |                                   |                 | 4.3                   | Start date for corrected activity from lastsweep/Jan2000 (B9styr B9stmth) <= start date for most recent previous activity and CM last interviewed in sweeps 6, 7 or 8. | 23              | As for Age 42 Sweep subgroup 4.1 above plus....<br>End date of most recent previous activity is set to its start date. Start date of corrected activity from lastsweep/Jan2000 (jslot=80) set to start of most recent previous activity.   |
|                    |                                   |                 | 4.4                   | Start date for corrected activity from lastsweep/Jan2000 (B9styr B9stmth) <= start date for most recent previous activity and CM not interviewed in sweeps 6, 7 or 8.  | 18              | As for Age 42 Sweep subgroup 4.1 above plus....<br>End date of most recent previous activity is set to that sweeps interview date. Start date of corrected activity from lastsweep/Jan2000 (jslot=80) is set to most recent previous activity sweeps interview date.   |
|                    |                                   |                 | 4.5                   | Start year for corrected activity from lastsweep/Jan2000 (B9styr B9stmth) missing and CM last interviewed in sweeps 6, 7 or 8.   | 2               | As for Age 42 Sweep subgroup 4.1 above plus....<br>End date of most recent previous activity is set to that sweeps interview date. Start date of corrected activity from lastsweep/Jan2000 (jslot=80) is set to the most recent previous activity's sweep interview date   |
|                    |                                   |                 | 4.6                   | Start year for corrected activity from lastsweep/Jan2000 (B9styr B9stmth) missing and CM not interviewed in sweeps 6, 7 or 8.  | 50              | As for Age 42 Sweep subgroup 4.1 above plus....<br>End date of most recent previous activity is set to that sweeps interview date. Start date of corrected activity from lastsweep/Jan2000 (jslot=80 and Age 42 Sweep current activity) is set to January 2000.  |
| 5                  | Proxy interview CMs<br>B9INTWHO=3 | 25              |                       | Interview with proxy for cohort member   | 25              | <p>If the proxy activity at Age 42 Sweep is the same non-work activity as the activity at the last active sweep and the start date of Age 42 Sweep proxy activity &lt; interview date of last active sweep then JLSTSWP=900 for that previous slot which becomes the Age 42 Sweep current activity.</p> <p>If the proxy activity at Age 42 Sweep is a work activity or not the same non-work activity as at the last active sweep or start date of proxy activity is missing or &gt;= interview date of last active sweep, then the end of the previous slot = interview date of last active sweep and slot81 is created from the Age 42 Sweep proxy data (interview variables B9PACT to B9PXJSNP) and current activity soc codes.</p> <p>If start year is missing , start of slot81 is set to Age 42 Sweep interview date. If activities not the same and Age 42 Sweep proxy start date &lt;= interview date of last active sweep then start of slot81= interview date of last active</p> |

| Age 42 Sweep group |   | Number of cases | Age 42 Sweep subgroup |  | Number of cases | Work history programming   |
|--------------------|---|-----------------|-----------------------|--|-----------------|--|
|                    |   |                 |                       |  |                 | sweep.   |
| 6                  | CM refuses to respond/DK at:<br>B9ECLAST ,<br>B9CJCONT, B9ACTIV,<br>B9IWOFF=1,<br>(B9PRTIAL=1 and<br>B9EMPINO=-1) | 30              |                       | No subgroups for Age 42 Sweep group5 cases | 30              | No Age 42 Sweep activities added to activity history dataset. Variable WSWEEP09 set to 2 (in Age 42 Sweep but no activity data). |

## Appendix 5: BCS70 Activity Histories SPSS Dataset Filenames

| Dataset                          | SPSS dataset file name       |
|----------------------------------|------------------------------|
| BCS70 Activity histories dataset | BCS70_activity_histories.sav |

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