

BRITISH HOUSEHOLD PANEL SURVEY

USER MANUAL

VOLUME A

***INTRODUCTION, TECHNICAL REPORT AND
APPENDICES***

edited by

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This *User Manual* has been produced by Marcia Freed Taylor, John Brice, Nick Buck and Elaine Prentice-Lane.

Nick Buck designed the User Database in consultation with Randy Banks who designed the Survey Database and its associated data processing system with the support of Frances Williams. The development of aspects of the database, including derived variables, weighting and imputation, involved the active participation of many present and former members of the Research Centre, including Alan Taylor, Mark Taylor, Jonathan Gershuny, David Rose, Andrew Clark, Shirley Dex, Tony Shorrocks, Jackie Scott, Heather Laurie, Kim Perren, Louise Corti, John Brice and Sarah Jarvis.

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I. Introduction to the Documentation

This format of this documentation has been designed to make the analysis of the British Household Panel Study easier and more straightforward. We have attempted to make its up-dating, always a rather complex undertaking, as simple as possible. Details of the organisation of the documentation are given below.

This documentation takes the form of an explanatory *Volume A* and a separate *Volume B* codebook for each wave of the BHPS. The organisation of these volumes is described below. There are several key aspects of the information in this *User Manual*, which it is important to make clear from the beginning.

I.1. Important Features of the Documentation

Wave Indicators

Individual waves of the BHPS are identified by an initial letter in all Record/File and Variable Names; thus, "A" is attached to all Wave One Records or Variables, "B" to Wave Two, "C" to Wave Three and so on. Throughout this documentation, wherever possible, this wave-specific letter has been replaced by a generic "w". When this appears, the implication is that the information being supplied applies to all waves unless otherwise stated.

Refreshing the data

A new "edition" of BHPS data will occur every year, with the release of the latest wave. All existing users should obtain the latest release of the entire BHPS dataset, rather than merely requesting the latest wave. Data which are mounted for remote analysis will be automatically withdrawn and replaced with the latest version. It is therefore essential that up-dates to this *User Manual* are also obtained. As noted elsewhere, it is particularly important that the latest version of the three cross-wave records/files, XWLSTEN, XWAVEID and XWAVEDAT are used in all cross-wave analysis. These will always occur at the end of the database and codebook for the latest release.

Dates

Dates are clearly critical in a large number of **BHPS** variables. Because of the nature of a panel survey, the relevant dates are often not totally obvious. Throughout the documentation, we have attempted to generalise the representation of these dates to make the relevant dates clearer. Throughout the wave-specific Volume B codebook entries, the actual dates are included. Within Volume A, we have used conventions to generalise our notes and descriptions. These conventions are described below. As background, it is important to remember that the fieldwork period runs from 1 September one year through the end of April of the following year; the bulk of the interviews have usually taken place by the end of December, although some of them do extend well into the following year. The end of April is the cut-off point.

Relevant conventions employed in treatment of dates within variable descriptions are:

w = initial letter of all Record and Variable Names, which replaces the wave-specific initial letter (e.g. A = Wave One, B = Wave Two, and so on)

Derived variables sometimes use data taken from earlier, and in some case, later waves. This is indicated by:

- w-1 = indicates the year prior to the wave under investigation:
- w+1 = indicates the year following the wave under investigation
- LY = indicates the 12 months prior to the start of fieldwork (e.g. 1 September 1990 - 31 August 1991 for Wave One)
- TY = indicates the present period, beginning at the 1 September on which fieldwork begins for a specific wave (e.g. 1 September 1991 for Wave One, 1 September 1992 for Wave Two, etc.)

Variable Names

Variable names are preceded, as are Record or File names, by a wave-specific letter - A for Wave One, B for Wave Two and so on. In many descriptions, this is replaced by a generic w, indicating the generality of the information being provided. Variable names are, in part, mnemonic. See *Section III* in this Volume for a table listing some of the conventions employed.

I.2. Volume A

This initial introductory volume, essential for all users, will be supplemented in future through the issue of up-date sheets. *Volume A* contains vital information required for the analysis of the data, including details of fieldwork, sampling, weighting and imputation procedures employed within the Centre, and information to assist users in the linking and aggregating data across waves. Usage notes on specific variables or sections of the database are also included, plus sections presenting background information required for specific types of analysis. References to the contents of the sections are given below.

There are also a number of appendices:

Appendix One (*Using BHPS Data*) presents worked examples of analyses of **BHPS** data, using both SIR and SPSS, illustrating some of the basic manipulations which researchers may wish to perform during their own analysis.

Appendix Two (*Notes on Derived Variables*) presents generalised notes on the derived variables which form part of each wave of the data.

Appendix Three (*Coding Frames*) contains full coding frames for main categorical variable types which appear in all waves of the data.

Appendix Four (*Help for Old Friends*) is a summary of information on changes which have occurred in the data from previous waves since the last release. Since all users of the **BHPS** should receive the entire **BHPS** dataset at each new release, this information will be essential for all existing users. Information will relate to such things as re-coding of previous wave variables to conform to the latest release, additional variables, new imputations based on information from the later waves, correction of errors, and so on.

Appendix Five (*Related Publications and Documentation*) contains references to other volumes produced by the ESRC Research Centre on Micro-Social Change and of publications based on **BHPS** data.

Appendix Six (*Indexes*) contains four indexes to aid users in locating the information they require quickly. These are described in more detail below.

I.3. Volume B

Each wave will be released in a separate wave-specific volume, *Volume B1* containing a codebook for Wave One data and its related questionnaires and show cards, for example, *Volume B2* containing Wave Two information and so on.

With each new release, those acquiring the latest wave will also receive up-date sheets for both *Volume A* and earlier *Volume Bs*, along with a new Volume containing the codebook for the latest wave. We hope that this will make life both easier, and less expensive, for our users.

Codebooks contain essential information for each variable for each wave included in the **British Household Panel Study** database. Tables are presented in the order in which they appear within the Record Types in the SIR database. Cross-Wave Identification Variables appear at the end of the volume containing the latest Wave.

Within each wave-specific volume, each Record Type is allotted a separate section, which begins with a short overview of the contents of that Record Type. These sections reflect the Record and Variable order and structure of the User Database. (For more information on the database structure, see the main text of this *Volume* and *Appendix 1*.)

Within each Record Type section, there is a Table for every variable within that Record Type. This Table contains relevant information needed for interpretation and use. A short description of elements of each Table is presented below.

I.3.1. Reading The Variable Tables

Figure 1 presents a sample Variable Table with an indication of the contents of each element within the table. The elements in the Tables are:

1. **Record Type** at the top of every page. The header shows the Record Type in which the variables below can be found.
2. **Variable Name** as a heading for each Table, followed by **Variable Label**
3. **Questionnaire Section** followed by **page number within Questionnaire** (Questionnaires and Showcards appear at the end of Wave-specific *Volume Bs*)
4. **Question Number and Text**. The specific Wave identifier has been added to the question number as found in the questionnaire. Where there is no relevant question text, an indication to the source of the information is included, e.g. Interviewer Check, Office Code, and so on.
5. **A Frequency Table** is included wherever relevant or possible, giving value labels, values, frequencies, percentages, valid cases and missing values. For categorical variables, with more than 20 categories, only valid and missing cases are given; for continuous variables, a Mean, usually non-zero, Standard Deviation, Minimum and Maximum are indicated, and a frequency table distinguishing those who stated an amount and those who did not. (Relevant coding frames for the extended categorical variables are presented in *Appendix 3*.)
6. **Question Route** For *Base Variables*, this indicates the question routing which defined the respondent sample asked a particular question and includes a prose description; for *Derived Variables*, a listing of the variables used to construct the variables is given; for *Key* or *Key Linking Variables*, either ALL or ALL RESPONDENTS is entered here. *Derived Variables* information can also be found in *Appendix 2*.

Record label

Volume B: Codebook - Record Type GINDRESP

Variable name
Initial letter indicates Wave

Variable label

Questionnaire with page number

GFTEXAV

Amount maintenance paid to 1st non-resid

Individual (95)

Question from which variable created with full text

Question Number and Text

GF30C1 : (IF `Maintenance/alimony/child support') About how much in total do you give for (maintenance/alimony/child support)?

SPSS Frequency Table (unweighted data)
Descriptives for categorical variables

Value Label

Non Zero
Mean Std Dev Minimum Maximum

196.08 437.86 1 5270

Value Label	Value	Frequency	%	Valid %
Amount stated	1	185	2.0	100.0
Missing or wild	-9	9	.1	Missing
Inapplicable	-8	8918	95.1	Missing
Proxy respondent	-7	255	2.7	Missing
Refused	-2	5	.1	Missing
Don't know	-1	1	.1	Missing

Value Frequency % Valid %

Valid cases 185 Missing cases 9188

Terms describing information content to allow identification of relevant and related data

Question Route

IF (GFTEXHH=1 AND GFTEXA1=1) Asked if transfers money to any person not co-resident for maintenance, alimony or child support

Index Terms

Financial Management: External Transfers

Variable Occurrence

W2 W3 W4 W5 W6 W7 W8

Note

After Wave 1, the restructuring of Finance section allowed investigation into amount and periodicity of external transfers for maintenance/alimony/child support.

Cross-wave occurrence

Indication of routing through questionnaire, allowing identification of relevant population surveyed

Note field containing key information related to variable interpretation and analysis

7. **Index Terms** One or more index terms have been attached to each variable. A full index using these terms is included at the end of this volume in *Appendix 6*. Terms are included on the Variable Table to allow users to easily identify other variables on the same subject or, in the case of Interview Characteristics, Sampling Factors or Key Linking Variables, variables of the same type.
8. **Variable Occurrence** An indication of the inclusion of the individual variable in individual waves and of planned inclusion in future waves. See below for more details. Cross-wave occurrence is also presented in the Cross-Wave Subject Index in *Appendix 6* to this volume.
9. **Note** Included here are notes of special importance for users of a particular variable or variable type. There may also be a pointer, where applicable, to variables which are similar but not sufficiently so to warrant being considered directly comparable (and therefore have an entry in the Variable Occurrence field). These may, nevertheless, be sufficiently closely related to serve as a proxy and satisfy the requirements of the researcher. In many cases, reference is made to other sections of this *User Manual* where fuller information is provided.

Tables contain marginals for each variable. For continuous variables, the marginals show the number of respondents/households for whom the included descriptives are valid. The missing cases and those who have zero amounts are excluded for the descriptive statistics. This enables the researcher to get a more accurate picture from the few descriptive statistics presented.

For variables with more than 20 value labels, coding frames are provided in *Appendix 3*.

Users should also note that the results displayed in the tables in Volume B are obtained from *unweighted* data. See *Section V* for a discussion on weighting.

At the end of each wave-specific *Volume B*, the Questionnaires and Showcards for the relevant wave are reproduced. It is planned that all Questionnaires will be annotated with Variable Names attached to the question which gave rise to the Variable. There is also a *Variable Location Index* at the end of each wave-specific volume. An alphabetical list of variable names is linked to the page number within the volume on which the variable description appears.

I.4. Indexes

Indexes to the Variables are included at the end of this volume.

To assist you in planning your analysis, a number of indexes are presented in the final *Appendix*. Clearly, given the nature of such a panel dataset, many variables are repeated in each wave, while others are repeated intermittently and still others appear in only one wave. A Cross-Wave Continuity Index details this in schematic form. Another Index is based on the subjects covered by the data, allowing initial identification of variables on particular topics. This is augmented by a subject thesaurus, to guide you to the correct topics.

These indexes are intended to aid the user in navigating the wide range of information presented and to allow the tracing of the links between questions, variables, record types and subject coverage or variable type. The indexes included are:

- o **Cross-Wave Continuity Index**, a list of cross-wave occurrence of variables.
- o **Cross-Wave Subject Category Index**, a sorted list of subject headings and the variables categorized under them, with an indication of their occurrence in specific waves and the page number of the relevant variable table.
- o **Subject Category Thesaurus**, a full list of all subject category index terms together with more detailed subject references and cross-references. This index should be used

to augment the information presented in the **Cross-Wave Subject Category Index**.

- o **Question Number to Variable Name Index**, a sorted list of question numbers and the database variables based on them;

One or more index terms are attached to each variable, and included on the variable entry in the codebook in the wave-specific *Volume B*. These indicate the major subjects covered by the variable (or the type of variable) and allow linkage with other variables on the same or related topics. Reference to either the **Cross-Wave Subject Category Index** (or first to the **Subject Category Thesaurus Index**) will lead to the identification of others. In some cases, these refer specifically to the content of the information - e.g. "Health: Medical Consultations" or "Incomes". In other cases, an additional index term indicates that the variable contains "Personal Opinions" or "Subjective Well-Being". "Key Linking Variables" are also identifiable through these indexes, as are "Interview Characteristics and Conditions".

I.5. A Note about Question Numbers

Users may notice differences between the question numbers as they appear in the Questionnaire and as they appear in the variable tables and Question Number to Variable Name Index. Some of the less obvious of these differences are explained below.

1. All question numbers carry a numerical prefix to indicate the Wave to which they refer; that is, "A" for Wave One questionnaire, "B" to indicate Wave Two, and so on. The second letter indicates the Questionnaire Section in which the question appears (e.g. H for Household Questionnaire, P for Proxy Questionnaire, F for Finance, V for Values, M for Health, D for Demographics, J for Job History, S for Self-completion and so on).
2. Suffixes to question numbers have been added to specify the exact part of the question being answered, or to designate an "Office Coding" of a respondent-specified time period to a standardised time period.

Key to the Suffixes		Example
OC	Office Code	Question AH20C became AH20COC
NA	Not Applicable Question	AD10A became AD10A and AD10NA
Y	Year	Question BE81 has three variable components BE81Y, BE81M and BE81D
M	Month	
D	Day	
CTY and DST	Country District	AD5 with two possible, variable responses became AD5CTY, AD5DST
DK	Don't Know	BE64 gave rise to BE64DK (negative response to BE64)
BM BY	Began Month Began Year	BE73D gives BE73BM, and BE73BY
EM EY	Ended Month Ended Year	BE73 gives BE73EM, and BE73EY
P1,P2	Person One,Two	AM32P1, AM32P2 and AM32P3
AL	All	BF3BAL from question BF3B
M1,M2	Mention One, Two	BH3 gives BH3M1 and BH3M2
SC	Status Code	AJ6A gave rise to AJ6ASC

SEQ	Sequence	AF3SEQ records the number of finance grids completed
PN	Person number	AF3FPN records PNO of joint recipient

I.6. Technical References

References made in the text of this **User Manual** to which you might like to refer are:

Cox, B *et al*, (1987) **The Health and Lifestyle Survey**. London: Health Promotion Trust.

Elias, P, K Halstead and K Prandy (1993) **Computer Assisted Standard Occupational Coding (CASOC)** (1993) London: HMSO

Goldthorpe, J H and K Hope (1974) **The Social Grading of Occupations: A New Approach and Scale** Oxford: Clarendon Press

International Labour Office (1990) **International Standard Classification of Occupations: ISCO 88** Geneva: International Labour Office

Marsh, C & A Teague (1992) 'Samples of anonymised records from the 1991 Census', **Population Trends**, 69, 17-26,

Prandy K (1990) "The Revised Cambridge Scale of Occupations", **Sociology** 24, 629-655

Standard Occupational Classification, Volume 3: Social Classifications and Coding Methodology.(London OPCS/HMSO 1991).

I.7. Getting More Information

For more information on the study, contact:

Scientific Documentation and Liaison Officer
Institute for Social and Economic Research
University of Essex
Colchester
Essex
CO4 3SQ
United Kingdom

Telephone: +44 (0)1206 873543
Fax: +44 (0)1206 873151
E-mail: bhpsug@essex.ac.uk
World Wide Web <http://www.iser.essex.ac.uk/>

For more information on access to BHPS data, contact:

User Services
The Data Archive
University of Essex
Colchester, Essex
CO4 3SQ

Telephone: +44 (0)1206 872001
Fax: +44 (0)1206 872003
E-mail: archive@essex.ac.uk
World Wide Web <http://dawwww.essex.ac.uk/>

II. Introduction to the British Household Panel Survey

The British Household Panel Survey (BHPS) is being carried out by the ESRC UK Longitudinal Studies Centre with the Institute for Social and Economic Research at the University of Essex. The main objective of the survey is to further our understanding of social and economic change at the individual and household level in Britain, to identify, model and forecast such changes, their causes and consequences in relation to a range of socio-economic variables. The BHPS is designed as a research resource for a wide range of social science disciplines and to support interdisciplinary research in many areas.

The ULSC, established in 1999, is a continuation of the research resource component of the ESRC Research Centre on Micro-Social Change which was established with a grant from the ESRC in 1989. In addition to conducting the panel survey and disseminating it to the research community, the ISER undertakes a programme of research based on panel data, funded in part by a continuation of the ESRC Research Centre on Micro-Social Change, using the **BHPS** and other national panels to monitor and measure social change. The results of this research feed back into the later waves of the survey and increase its research potential for the wider user community.

The **BHPS** was designed as an annual survey of each adult (16+) member of a nationally representative sample of more than 5,000 households, making a total of approximately 10,000 individual interviews. The same individuals will be re-interviewed in successive waves and, if they split-off from original households, all adult members of their new households will also be interviewed. Children are interviewed once they reach the age of 16; there is also a special survey of 11-15 year old household members from Wave Four onwards. Thus the sample should remain broadly representative of the population of Britain as it changes through the 1990s. Additional sub-samples were added to the BHPS in 1997 and 1999 – see section II.2 below.

Research priorities and research design for the **BHPS** were established after extensive consultation within the British academic and policy research community. Major topics in the first three waves of the panel survey are household organisation, the labour market, income and wealth, housing, health and socio-economic values. The panel survey thus permits research into a wide range of topics such as the relationship between health changes and unemployment, the effects of life events on changing socio-economic values, life cycle variations in income, the returns in the labour market to training and education, the causes and consequences of residential mobility, and so on.

Panel data have many advantages:

- they allow analysis of how individuals and households experience change in their socio-economic environment and how they respond to such changes;

- they allow an analysis of how conditions, life events, behaviour and values are linked with each other dynamically over time;

- they allow analysts to control for unobserved heterogeneity in cross-sectional models through difference analysis;

- because all household members are interviewed, the effects of the interaction of changes at the individual level can be analysed for the whole household or for other individuals;

- because sample members are followed as they leave their original household, panel data will provide unique information on the processes of household formation and dissolution.

It is the aim of the design of the **BHPS** to maximise these advantages. For further discussion of the research and design rationales of the **BHPS**, users are referred to the publications listed in *Appendix 5*.

The **BHPS** data are deposited in the Data Archive within 12 months of the completion of field work. Between the end of fieldwork and the deposit date, the Centre carries out a very full programme of data cleaning, missing value imputation and weighting. But despite this, some remaining inconsistencies in the data will undoubtedly be revealed as the data and documentation are widely used. Users are requested to alert the Centre to any such inconsistencies they find, so that appropriate corrections can

be made in future releases. Comments on the presentation of both data and documentation would also be welcomed. This can, perhaps, best be done through the BHPS User Group which is described below. Participation in this Group is recommended for all users.

II.1. The BHPS Sample and Following Rules

The initial sample for Wave One of the **BHPS** (described in detail in the Section on Sampling and Survey Methods) is not unlike that for any cross-sectional household study, for example OPCS's General Household Survey. The sample consisted of 8167 issued addresses drawn from the Postcode Address File. Interviews were attempted at all private households found at these addresses (subject to selection where multiple households were found). All individuals enumerated in respondent households became part of the longitudinal sample. All these sample members are known as Original Sample Members (*OSMs*).

The sample for the subsequent waves consists of all adults in all households containing at least one member who was resident in a household interviewed at Wave One, regardless of whether that individual had been interviewed in Wave One. Thus, with a few exceptions, an attempt was made to interview all those individuals in responding households who had refused to participate at Wave One, or for any reason had been unable to take part. In addition, a number of households where no contact had been made in Wave One were approached for interview in Wave Two after confirmation that no household moves between waves had taken place.

The *following rules* applied in subsequent waves differed from the sampling rules in Wave One in only one respect. In both sets of rules, eligibility depended on domestic residence in England, Wales, or Scotland south of the Caledonian Canal. In waves after Wave One, however, OSMs were followed into institutions (unless in prison or in circumstances where the respondent was not available for interview e.g. too frail, mentally impaired etc.) or into Scotland north of the Caledonian Canal.

New eligibility for sample inclusion could occur between waves in the following ways:

1. A baby born to an OSM.
2. An OSM move into a household with one or more new people.
3. One or more new people move in with an OSM.

Children born to OSMs after the start of the study automatically count as OSMs. New Entrants to the sample (categories two and three) become eligible for interview on the standard OPCS household definition, (i.e. as long as they were living with an OSM and 'either share living accommodation OR share one meal a day and have the address as their only or main residence'). The main requirement for marginal cases of household membership was six months continuous residence during the year. This excluded students who might have been at a parental home during vacation (students were treated as members of their term-time household). The household non-contacts from Wave One referred to above count technically as OSMs but for all practical purposes (in particular the need to obtain 'initial conditions' data) were treated as new entrants. The sample for each Wave thus consists of all OSMs plus their natural descendants plus any other adult members of their households, known as Temporary Sample Members (*TSMs*).

Once household membership is determined, interviews are sought with all resident household members aged 16 or over on 1 December of the sample year, thus including OSMs previously coded as children. Proxy interviews with another household member, or telephone interviews, are carried out for eligible members who are either too ill or too busy to be interviewed.

Where OSMs are not found at the expected address, interviewers attempt to trace them using a variety of methods. These are described in the Section on Sampling and Survey Methods. Interviewees who do not qualify as OSMs are only re-interviewed in subsequent years if they are still co-resident in households with OSMs. However, a subset of TSMs become permanent sample members and are followed even if they no longer reside with an OSM. The criterion for this status is that the TSM is the parent, with an OSM, of a new OSM birth.

II.2. Additional sub-samples

Since the start of BHPS in 1991, a number of additional sub-samples have been added to the survey.

II.2.1 The ECHP sub-sample

From Wave Seven the BHPS began providing data for the United Kingdom European Community Household Panel (ECHP). As part of this, it incorporated a sub-sample of the original UKECHP, including all households still responding in Northern Ireland, and a 'low-income' sample of the Great Britain panel. The low-income sample was selected on the basis of characteristics associated with low income in the ECHP. At Wave Seven ECHP households in which all adult members responded at the previous wave and which fell into the following categories were issued:

- Household reference person unemployed at interview or within the last year,
- Household reference person in receipt of lone parent benefit,
- Household reference person in receipt of means tested benefit,
- Household in rented accommodation.

Respondent households who agreed to have their data passed to the University of Essex were incorporated in the BHPS.

From the point of view of the BHPS this constitutes a new sample whose first wave is wave seven. However, their sample membership status depends in part on their membership status within the ECHP. Thus, members of the original 1994 ECHP sample are defined for our purposes as OSMs, while joiners to ECHP households after the first wave of ECHP, including joiners at Wave Seven and Wave Eight of BHPS are defined as TSMs or PSMs according to standard BHPS rules. There are also a small number of ECHP original sample members who rejoin selected households after Wave Seven. These are also classified as OSMs.

The ECHP came to an end in 2001, equivalent to Wave 11 of BHPS. No alternative funding for the ECHP sub-sample was available, and it has therefore not been continued beyond Wave 11.

Further information on identifying the ECHP sub-sample is included in sections III.3.2 and III.18. Weights for incorporating this sample are discussed in section V.2.4.

II.2.2 Scotland and Wales Extension Samples

A major development at Wave 9 was the recruitment of two additional samples to the BHPS in Scotland and Wales. There were two main aims of the extensions. First, to increase the relatively small Scottish and Welsh sample sizes (around 400-500 households in each country in the initial BHPS sample) in order to permit independent analysis of the two countries. Second, to facilitate analysis of the two countries compared to England in order to assess the impacts of the substantial public policy changes which may be expected to follow from devolution. The first wave of the extension samples were fully funded by the ESRC. A consultation period in the early part of 1999 established the requirements of the Scottish and Welsh user-communities. Provision of comparable data between the different parts of Great Britain required identical questionnaires and fieldwork arrangements for the additional samples to those used for the main BHPS sample. The target sample size in each country was 1500 households. The Scottish sample includes the population living north and west of the Caledonian Canal. Aspects of fieldwork for the extension samples are discussed section IV.17.

All members of households recruited at the first wave of the extension samples will be treated as OSMs, and standard BHPS following rules will apply. Members of these samples who move to England will be followed. At the second wave of the surveys for these samples non-contact and some refusal households will be approached again, for recruitment to the sample. Such second wave recruits will also be treated as OSMs.

Further information on identifying the Scottish and Welsh sub-samples is included in sections III.3.2 and III.19. Weights for incorporating this sample are discussed in section V.2.5.

II.2.3. Northern Ireland Household Panel Survey

At wave 11 a substantial new sample in Northern Ireland, the Northern Ireland Household Panel Survey (NIHPS) was added. This sample is jointly funded by the ESRC and government departments

in Northern Ireland. Since the start of the BHPS it has been recognised that a sample was needed in Northern Ireland so that the coverage of the panel was UK wide rather than Great Britain only. Until now, funding has not been available to run a panel that was large enough to enable comparative analysis between Northern Ireland and the rest of the UK. More recently, having longitudinal data that is comparable with Great Britain has become something of a priority for the Northern Ireland policy makers as well as for the wider academic community. There are three years of funding in the first instance.

Provision of data for Northern Ireland which was comparable with data from other parts of the United Kingdom required largely identical questionnaires and fieldwork arrangements for the NIHPS to those used for the other BHPS samples. The target sample size in was 2000 households. Aspects of fieldwork for the extension samples are discussed in section IV.17.

Support for users of the NIHPS in Northern Ireland is provided by ARK, the Northern Ireland Social and Political Archive, a collaboration between Queen's University Belfast and University of Ulster. See <http://www.ark.ac.uk/nihps/>

All members of households recruited at the first wave of the NIHPS will be treated as OSMs, and standard BHPS following rules will apply. Members of these samples who move to other parts of the UK will remain in sample, and we attempt to interview them.

Further information on identifying the NIHPS members is included in sections III.3.2 and III.19. Weights for incorporating this sample are discussed in section V.2.5.

II.3. Survey Instruments

The questionnaire package consists of:

- a. A **household coversheet**, which contains an interviewer call record, observations on the type of accommodation and the final household outcomes. At Wave One, it contained a Kish selection grid for the selection of households at multi-household addresses. Cover sheets are produced containing the last known address of sample members. Moves discovered by interviewers during fieldwork are dealt with by interviewers, either by discovering a forwarding address or by creating a **movers form** for return to the Research Centre. Techniques for following movers are described in *Section IV on Sampling and Survey Methods*.
- b. A **household composition form** which is administered, in most cases, at the interviewer's first contact with an adult member of the household. The interviewer gathers a complete listing of all household members together with some brief summary data of their sex, date of birth, marital and employment status and their relationship to the household reference person (HRP) - defined as the person legally or financially responsible for the accommodation, or the elder of two people equally responsible. Additional checks are required on presence in the household of natural parents or spouse or partners, in order to unambiguously establish all relationships (for instance, secondary or 'hidden' couples).
- c. A short **household questionnaire** administered with the household reference person and taking on average 10 minutes to complete. This contains questions about the accommodation and tenure and some household level measures of consumption.
- d. The **individual schedule** takes approximately 40 minutes to complete and is administered with every adult member of the household (aged 16 or over). The individual questionnaire covers the following topics:
 - neighbourhood
 - individual demographics
 - residential mobility
 - health and caring
 - current employment and earnings
 - employment changes over the past year
 - lifetime childbirth, marital and relationship history (Wave Two only)

employment status history (Wave Two only)
values and opinions
household finances and organization

- e. A **self-completion questionnaire**, which takes about five minutes to complete. Questions included are subjective or attitudinal questions particularly vulnerable to the influence of other people's presence during completion, or potentially sensitive questions requiring additional privacy. The self-completion questionnaire contains a reduced version of the General Health Questionnaire (GHQ) which was originally developed as a screening instrument for psychiatric illness, but is often used as an indicator of subjective well-being. It also contains attitudinal items and questions on social support.
- f. A **proxy schedule** is used to collect information about household members absent throughout the field period or too old or infirm to complete the interview themselves. It is administered to another member of the household, with preference shown for the spouse or adult child. The questionnaire is a much shortened version of the individual questionnaire, collecting some demographic, health, and employment details, as well as a summary income measure.
- g. A **telephone questionnaire**, developed from the proxy schedule, for use by an experienced interviewer employed by the Centre. This is used when all other efforts to achieve a face-to-face interview have failed.

The questionnaires went through a series of major revisions from the initial pre-testing through the two pilots to produce the final versions used in Waves One and Two. A full set of questionnaires, together with the full text of the show cards employed, is included in the wave-specific *Volume B*.

In Wave Nine the conversion to Computer Assisted Personal Interviewing (CAPI) began. Details of the conversion are discussed in section IV.16. The structure of instruments outlined above remains the same. At Wave Nine only the household questionnaire and the individual questionnaire were converted to CAPI.

II.4. Longitudinal Aspects of the Survey

Many of the questions asked in Wave One have been repeated in subsequent waves. Some are repeated in all waves; these are the "Core" questions. Some variables appear in alternating waves or on a cyclical basis; these are known as the "Rotating Core" questions. Some groups of questions will be asked only once in the life of the panel study; these are known as the "Variable Components". The subjects of these questions are outlined in *Table 1*.

As a further guide to users who wish to plan their present analyses of **BHPS** on the basis of potential longitudinal analysis, there is an indication of wave occurrence of each variable in each table in the wave-specific *Volume B*: this information is provided in schematic form in the *Cross-Wave Continuity Index* together with page references, at the end of this *Volume*.

There are some slight modifications in question wording and, in a few cases, in the level of specificity in the response categories between waves. These alterations are fully documented in the entries for each individual variable; between-wave modifications of data previously released are indicated in *Appendix 4: Help for Old Friends* in this volume. It is intended that the majority of derived variables will be repeated in all waves. Exact comparability between the waves will obviously always be dependant on the exact comparability of the data from which they are derived. More information on plans for repeated questions will be available through the **BHPS User Group**, which is described in *Section VI* in this volume of the *Manual*.

II.5. Links to Other Surveys

The BHPS is intended to be a reference dataset. Links to other major surveys are therefore of great importance. For this reason, many of the questions in the **BHPS** are replications of those which have previously occurred in other studies, or are similar questions with variant wording. The Centre has therefore begun, as a first step in assisting users in making links between the **BHPS** and these studies,

to compile a listing of surveys in which questions which are related or identical to **BHPS** questions were asked. Substantive questions only are included, and not derived variables or standard demographic background variables. There are often minor differences, either in the body of the question itself, or in the response categories. This linking is intended as a first and rough guide only, as the documentation of these links is not yet complete.

For information on this listing, please contact the Scientific Documentation Officer at the Centre. In most cases, copies of the relevant questionnaires can be ordered from the Data Archive at the University of Essex. It is intended that this cross-referencing information will be extended and published in a separate document in the future. **We ask therefore that all users inform the Institute for Social and Economic Research of any links of this type to other surveys of which they are, or become, aware.**

The major studies to which **BHPS** questions are currently linked are the following:

- British General Election Study
- British Social Attitudes Surveys
- Cohort Study of the Unemployed
- European Values Survey
- General Health Questionnaire
- General Household Surveys
- Family Economics Survey
- Family Expenditure Surveys
- The Health and Lifestyle Survey
- International Project on Class Structure and Class
- International Social Survey Project
- International Social Justice Project
- Life Events in Everyday Experiences (US)
- Labour Force Surveys
- National Child Development Study
- Panel Study of Income Dynamics (US)
- Social Change and Economic Life Initiative
- Surveys of Income and Program Participation (US)
- Survey of Life-style and Usage of Social Services (Ireland)
- Socio-Economic Panel Study (Germany)
- Study of Attitudes to Public and Private Welfare
- Working Class in the Labour Market
- Women and Employment

In addition, the Centre is involved in a number of cross-national comparative projects with researchers from a number of other national and regional household panel studies from Germany, the United States, France, Ireland, Spain, Belgium, Sweden, Luxembourg, Hungary, Poland, the Czech Republic, Italy and so on. Among these are the Panel Comparability (PACO) project, designed to create a set of comparable variables across a number of domains and countries to enable cross-national research and a research programme based on the European Community Household Panel Study. For more information on these and other comparative projects, contact the Centre.

Table 1

Overview of Topics Covered in BHPS

Themes which are covered at every wave are known as **Core Components**; these are the heart of the survey and allow us to study the net change in which we are interested. This category includes topics which are asked, after the First Wave, simply to verify the status of the household and individual members, or are only asked of new entrants.

Topics covered periodically (i.e. every two or three years) are known as **Rotating Core Components**. These topics are addressed only in situations in which we don't expect large changes over time and there is therefore no need to ask questions on them every year. This also allows us to balance competing demands for limited space within the questionnaire.

Last, but very important, are the **Non-Core** or **Variable Components**. These are 'one-offs', usually asked only once. These include many questions that need to be asked only once such as the *initial conditions*. If we asked the same respondents every year 'What age did you leave school?' and "Where were you born?", for example, they would soon tire of it. The **BHPS** has taken the opportunity (over the first three waves) to get a very good picture of our respondents' lives asking for life-time retrospective work-histories, and marital and fertility histories, using the space set aside for the **Variable Component** to investigate these illuminating and vital areas of the lives of those who make up a representative sample of the households of Britain.

Below is a representation of the pattern that is emerging in the underlying structure of the BHPS dataset; this must not, of course, be taken as a fixed structure for the **BHPS**. We reserve the right to drop questions that may appear to be **core** and, in the event, prove to yield little data of interest. We may well consolidate, into the core, questions that have recently appeared in the questionnaire, or even include other new ones. The **BHPS** must also, of course, reserve the right to vary the period of rotation of those components which at present appear to be regularly included. The variable component has attracted the covetous eyes of many a researcher and is the source of much high level debate here in the Research Centre where we have not only competing research agendas but also external pressures with which to contend.

The Questionnaire is divided into 5 sections :

The **Cover sheet**, the **Household Questionnaire**, the **Individual Questionnaire** which is the main part of the interview and finally respondents are asked to complete a short **Self Completion Questionnaire**. For various reasons, some people have a **Proxy Questionnaire** (a reduced form of the Individual schedule) filled in for them by another member of the household. New from Wave Four, the **Young Persons Questionnaire** which 11 to 16 year olds have been asked to complete.

Table 1 (cont'd): HOUSEHOLD QUESTIONNAIRE

CORE	Size and Condition of Dwelling Ownership Status, Length of Tenure, Previous Ownership Interview Characteristics	Household Finances Rent and Mortgage, Loan and HP Details Local Authority Service Charges Allowances/ Rebates Difficulties with Rent/Mortgage Payments Household Composition Consumer Durables, Cars, Telephones, Food Heating/Fuel Types, Costs, Payment Methods Non-monetary poverty indicators Crime
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Table 1 (cont'd): INDIVIDUAL QUESTIONNAIRE

CORE	Neighbourhood and individual Demographics Birthplace, Residence Satisfaction with Home/Neighbourhood Reasons for Moving Ethnicity Educational background and attainments Recent Education/Training Partisan support Changes in marital status Citizenship	Current Employment Employment status Not Working/Seeking Work Self Employed Sector Private/Public SIC/SOC/ISCO Nature of Business/Duties Workplace/Size of Firm Travelling time/ Means of travel Length of Tenure Hours worked/Overtime Union membership Prospects/Training/Ambitions Superannuation/Pension schemes Attitudes to work/Incentives Wages/Salary/ Deductions Childcare provisions Job search activity Career opportunities Bonuses Performance related pay	Finances Incomes from Benefits/Allowances/ Pensions Rents/Savings/Interest/ Dividends Pension Plans Savings and Investments Material well-being Consumer Confidence Internal Transfers External Transfers Personal Spending Roles of Partners/Spouses Domestic work Childcare Bills/Everyday spending Car Ownership/Use Value of Car Interview Characteristics Windfalls
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Table 1 (cont'd): INDIVIDUAL QUESTIONNAIRE

CORE	Health and Caring Personal health condition Employment constraints Visits to doctor Hospital/Clinic use Use of Health and Welfare services Social Services	Specialists Checkups, Tests and Screening Smoking Caring for Relatives, Others in hhold/Outside hhold Time spent caring for others Private medical insurance Activities in daily living	Employment History Past year Labour Force Status Spells Size/Sector/Nature of Business/ Duties Wages/Salary/ Deductions Reasons for leaving/taking jobs	Values and Opinions Partisanship/Interest in Politics Religious involvement Parental Questionnaire
ROTATING CORE	Health and Caring Attitude towards costs/payments for health care	Values and Opinions Distribution of Wealth Social Justice Government's Roles and Responsibilities Environment Management of Household expenditures Newspaper readership	Religion Trade Unions Social Class Membership social/interest activities Leisure activities National Identity UK governance and devolution	
VARIABLE COMPONENTS	Lifetime Marital Status History (Wave 2) Number of marriages Marriage dates Divorce/widowhood/separation dates Cohabitation before marriage Lifetime Employment History (Wave 3) Start and finish dates Labour force status Sector/nature of business duties Health and Caring Childrens health Other health scales: SF36 (Waves 9 and 14) Computers and Computing (Waves 6, 7, 12 and 17) Ownership and usage	Lifetime Fertility and Adoption History (Wave 2) and Wave 8 catchup Birth dates, leaving or mortality dates Adoption dates Lifetime Cohabitation History (Wave 2) and Wave 8 catchup Start and finish dates Number of partners Neighbourhood Characteristics (Waves 8, 13 and 18) Community and Neighbourhood Quality of local services Employment (Wave 9) National minimum wage Work strain (Waves 9 and 14) Work orientation Lifetime Employment Status History (Wave 2) Start and finish dates Employment status	Values and Opinions Aspirations for children Important Events Quality of life Wealth and Debt (Waves 5, 10 and 15) Investments and Savings Commitments Crime (Waves 7, 12 and 17) Criminal activity in local area Perceptions of crime Ageing and Retirement (Waves 11 and 16) Retirement decisions Quality of life Family Networks Children and Parenting (Waves 12 and 17) School choice and educational aspirations Parenting styles	

Table 1 (cont'd)

COVER SHEET	SELF-COMPLETION QUESTIONNAIRE		YOUNG PERSONS QUESTIONNAIRE (corresponding questions also asked of parents (Wave 4))
<p>Core Socio-demographic characteristics of individual household members Relationship between household members Marital Status Household Changes during past year Geographic Location Interview Outcomes</p>	<p>Core</p>	<p>Subjective Well-being Stress/Worry/Strain Capability/Strength/Confidence Happiness/Unhappiness</p>	<p>Use of Spare time TV watching Going Out Relationships with family and friends Attitudes to issues facing young people Smoking, Drugs and Alcohol, Crime Attitudes to Health and Family Life Diet Sport Subjective well-being Self Image Reading and Comprehension Pastimes Pocket money, earnings Social and Political Awareness Employment aspirations and life after school</p>
	<p>Rotating Core</p>	<p>Attitudes To Family To Mens/Womens Roles Morality Religion Social Support Networks Life Satisfaction</p>	

II.6. File linkages: matching, aggregating and distributing data

The BHPS is "complex" -- in the special sense that it consists of a number of different data structures or "files", with differing focuses (some referring to the particular households studied at particular waves, some referring to individuals, some referring to particular incidents or events that the surveyed individuals have experienced) and often repeated files, with the same structures but applying to different points in historical time (that is, files describing respondents' circumstances in successive years). This does not mean that the BHPS is particularly difficult to use; on the contrary, the same core of data management skills used in the analysis of simple "symmetrical" cross-sectional datasets is also used in panel analysis. It does, however, imply that analysts must apply some additional concepts to those involved in the analysis of more straightforward survey datasets.

The real value from this sort of dataset comes from the analyst's ability to link the various files together, so as to connect information in a number of straightforward ways; attaching household-level information to the individual respondents, for example, or connecting individual respondents' information over time. The crucial concept is that of a "key variable" which serves to identify particular records within files as belonging to particular households or individuals. It is these key variables that tell us which parts of which files can validly be joined together.

There are, in principle, just three different sorts of linking or joining operations that can be made between data files. Evidence organised at a particular level may be **matched** with other evidence organised at a similar level; for example information about someone in 1992 could be matched with information about the same person in 1993. Evidence organised at a particular level may be **aggregated** to a higher level of organisation; for example, a file organised to provide information about every separate employment spell experienced by each respondent during the last year, might be reorganised to provide information at the level of the respondent, perhaps about the number of changes of employment status during the year. And evidence from records organised at a higher level, may be **distributed** across records in files organised at a lower level -- as where household-level information (for example, concerning type of housing) is attached to all of the individual-level records of the members of each household. All the data operations necessary to draw the full scientific value from the BHPS can be defined in terms of these three operations.

There are many different sorts of computer software that will carry out these three sorts of linking (or "database") operations. In addition to special-purpose "database management software", this set of operations can also be carried out in some integrated statistical packages. **BHPS** data files are maintained both in one of the standard database structures (SIR), and as system files for a standard statistical package (SPSS), or as data sets in the statistical package SAS. *Appendix 1* includes examples of programs which carry out these sorts of operations for various purposes (both in SIR and in SPSS code).

The following chapters provide more detail on the use of these linkage techniques in the analysis of the **BHPS**, followed by basic information on the methodologies employed in the collection of the **BHPS** data, and the information essential for its analysis.

III. The BHPS Data

III.1. Using Complex Data

The **BHPS** is a household survey in which all adult members of each household are available to be interviewed. It is also a panel study, so data may be expected from each individual each year. It is also quite likely that individuals may move out of one household, and join with new people. Data are therefore collected at different levels (individual and household), and over time these levels will not fall into neat hierarchies. All these factors mean that the data from the **BHPS** will have a relatively complex structure.

Moreover, individual researchers may want to restructure the data into different types of unit of analysis. Even with one wave of data, it is possible to identify at least the following: households, enumerated household members, respondents, job spells, receipts from a particular income source, pairs of individuals linked by various relationships. With multiple waves of data, the possible range of units of analysis becomes very much wider, and the potential complexities of organising the data into these units becomes correspondingly greater. The data must be structured in a way which facilitates this variety of types of analysis, while recognizing that the same data may be used in different ways. For example, some users may want to use the data from the finance grids in order to identify the months in which a particular income source, e.g. unemployment benefit, was received, while others may be concerned with total income from all sources in a particular month or year.

A note on linking data files.

The Centre uses SIR in its extensive preparatory work on the survey materials prior to their release to users. The data is distributed (via the Data Archive) as a SIR database, or alternatively as a set of SPSS system files or a set of SAS datasets or a set of STATA data files with a one-to-one correspondence of SIR Record Types to SPSS, SAS or STATA files. In the rest of the documentation therefore, "Record Type" and "File" will be used interchangeably. (As *Appendix 1* discusses, the SIR database has a 'caseless' structure. Enquiries about the **BHPS** itself, and about the availability of other formats for release of BHPS data, should be addressed to the Data Archive)

Irrespective of the particular software used for data storage and management, however, the principles of the three basic database operations are perfectly straightforward. *Figure 2* illustrates the first and simplest of these procedures: "**matching**" parallel files. Suppose that we have different pieces of information on the same group of individuals, contained in two different data files, variables "VAR1" and "VAR2" on one file, "VAR3" and "VAR4" on another. We wish to carry out some analysis that explores the relationship between VAR1 and VAR2 on one hand, and VAR3 and VAR4 on the other (it might be the case that the two files relate to similar questions in two successive waves of the panel, and we wish to estimate the change over the period.) The individuals are identified by the variable "KEYVAR". In *Figure 2*, the boxes represent data files, and each line within the boxes represent a particular record, each of which refers to a single individual. We simply give an instruction (in the case of SPSS, a single line of code) that says "match the records of the first file to the records of the second using keyvar as the matching variable". The result is a file in which individuals maintain their identification variables, and the content of the original input files are merged.

There can be more than one key variable used in the matching procedure. Often (to choose the most frequently occurring case of multiple keys in the **BHPS**) the records are uniquely identified by a

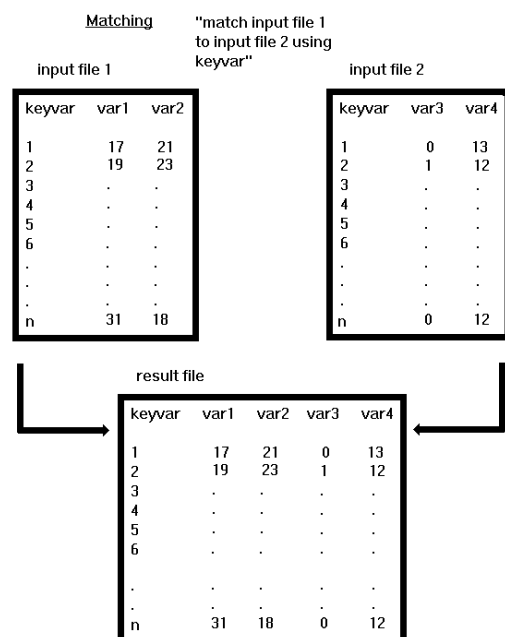


Figure 2 Matching Data Files

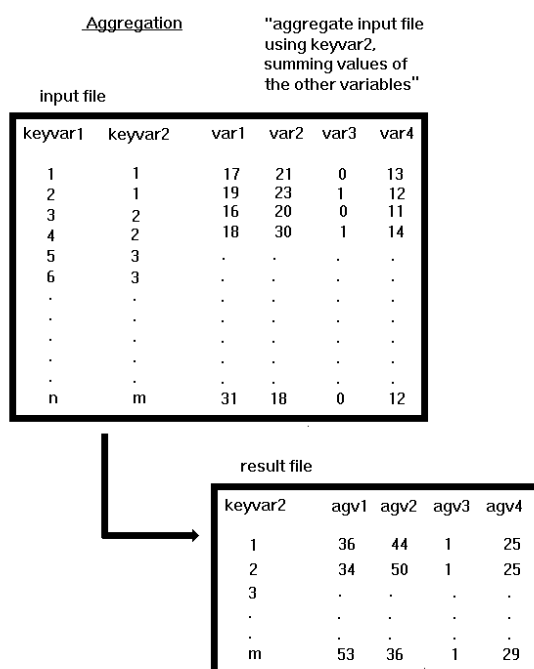


Figure 3 Aggregating Data Files

combination of a household number with a within-household person-number. The matching principle still holds: we simply specify a hierarchical match, first by the household, then by the person identifier.

Figure 3 illustrates the second class of operation: "aggregating" information from one level to a higher or more inclusive level. For example some characteristics of a household can only be calculated from the characteristics of some or all of its current members (e.g. its size, its total income or its age range). The essence of aggregation is computing a set of new records or cases at the "higher" level with unique key variables replacing the multiple repeated keys which indicate the "lower" level groups which are to

be aggregated, and with higher level derived variables which are functionally derived from other variables in the lower level records. In the *Figure 3* example, the lower-level input file is aggregated by values of KEYVAR2; AGV1 is simply the sum of all the values of VAR1 across each group which shares a particular value of KEYVAR2. Alternative sorts of aggregate variables include maxima and minima (e.g. oldest and youngest members of households) and counts of cases, or of cases with particular characteristics, within groups (e.g. numbers of persons, or of adults, within households). KEYVAR1, which served to identify the lower-level cases (e.g. individual household members) is of course inappropriate in the new higher-level aggregated result file.

The third general class of database operation is of "**distributing**" information from a higher to a lower or less-inclusive level. In the example illustrated in *Figure 4*, the household-level information derived in *Figure 3* is simply redistributed to the respective household members. The household information is now repeated for each household member; this allows the analyst to relate the individual's characteristics to her/his own household characteristics (e.g. "respondent's proportional contribution to total household income"); it also facilitates individual-level tabulations of household characteristics (e.g. "proportions of young people living in households of particular sizes").

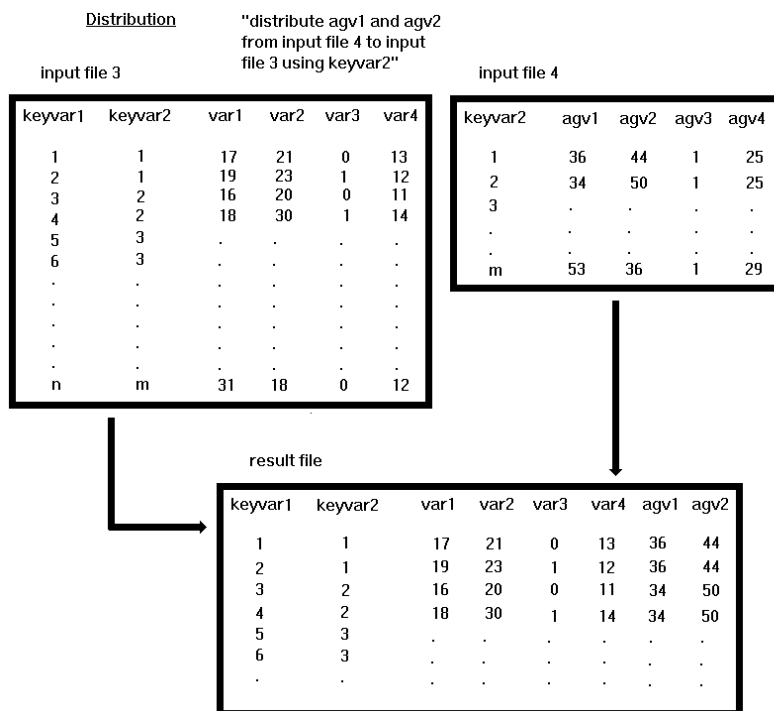


Figure 4 Distribution of Data

III.2. Record Types or Files

The User Database consists of two types of record or files: the majority, which contain the data collected at each wave for different subsets of questions and respondents (e.g. AINDRESP, BHHRESP) and a small number which contain no substantive data, but whose purpose is to facilitate linkage of data relating to the same individual at separate waves.

Record Types (*we use this term from here onwards, but remind users that it should be treated as equivalent to data files etc in other statistical software*) are normally defined to separate different levels of unit of analysis (e.g. individuals and households) or major subsets at a single level (e.g. respondents and non-respondents to the questionnaire instruments). Thus, Record Types generally correspond to the different questionnaire instruments, or to major distinguishable elements within those instruments.

There is, therefore, one Record (wHHSAMP¹) which corresponds to the household level cover sheet for all issued households. Another, (wINDSAMP) corresponds to the individual level information on the cover sheet. For responding households, there will be a household level Record corresponding to the household questionnaire (wHHRESP), and an individual level Record for all members of the household, corresponding to the household grid (wINDALL). Responding individuals (whether to the full interview, by proxy, or from Wave Three onwards by telephone) will have a Record containing the most of the data collected in that interview (wINDRESP). Two distinct sets of information from the full individual questionnaire, which are structured as sets of information repeated an indefinite number of times, are included as separate Record Types: employment status spells over the previous year (wJOBHIST), and income receipt Records (wINCOME). Generally, data from wave-specific questions (the variable component) will be carried on the main Records as described above, but where, as in Wave Two and Wave Three, these data have a natural repeating Record structure, it is carried on separate Record Types - these are described in *Sections III.10, III.11 and III.12* below. In addition to the above, there is one derived Record (wEGOALT) containing cells from a household relationship matrix.

Table 2 outlines the longitudinal Record structure as described above. In principle, the same eight cross-sectional Records available at Wave Two (i.e. excluding Records which relate to the Wave Two variable component) are replicated for each future wave. More detail, including the units of analysis and content is given in Table 3 for this standard set of single wave Record Types and in Table 8 for wave-specific Record Types introduced in Wave Two and after. The relationship among the basic Record Types is illustrated in Figure 5. The content of these records is discussed in more detail in the sections at the end of this chapter containing wave-specific information. Table 9, later in this chapter, shows the number of Records of each type at each wave. The cross-wave Record Types, XWAVEID and XWLSTEN, are discussed in more detail in *Section III.3 - Matching Individuals Across Waves*.

There are four types of variable on each Record (or its equivalent SPSS file):

- *Key variables* variables which uniquely identify each Record, and can be used for matching and linking purposes.²
- *Base variables* variables which relate directly back to some question in the **BHPS** questionnaire.
- *Copied variables* variables originating on another Record, and copied to reduce the need for linkage.
- *Derived variables* variables computed from base variables³.

The different variable types are generally held in the order listed above on each Record.

1. Throughout this document, the lower case "w" corresponds to some wave specific single letter prefix, e.g. "A" for Wave 1.

2. The primary key variable for all cross-sectional Record Types in the database will always be wHID ("Household database Identifier"), where w is some wave-specific prefix, "A", "B", "C", etc ... (see *Section xx on Naming Conventions*). wHID values are assigned after receipt of the questionnaires. AHID values in Wave One match one-to-one with the values of wFID ("Fieldwork household Identifier"), comprised in Wave One of the concatenation of the wave identifier ("1"), the area code (PSU identifier), the address number, the household number, and a modula 11-based checksum calculated over these four components. The structure of the Fieldwork Identifier after Wave One consists of a wave identifier, the issued household number, a one-digit split-off household indicator and a checksum digit.

3. SIR users may examine the set of procedures used to generate the derived variables contained in the Procedure Families M1DV, M2DV, MIDV and MXDV. There is, in general, one Procedure for each variable, named M1DV.varname (M2DV.varname, MXDV.varname, and so on, where varname is the name of the derived variable. A printout of the SIR code can be made available to users on request.

Table 2 BHPS User Database: Longitudinal Structure

Wave	Cross sectional records available each wave	Cross sectional records only at specific waves	Linkage and panel profile records: cross wave
1	AHHSAMP AHHRESP AINDALL AINDRESP AINCOME AJOBHIST AEGOALT	None in Wave One	Two records: XWAVEID 1) Response status and identifiers for all known sample members at each wave XWLSTEN 2) Last known positive response status for all known sample members.
2	BHHSAMP BINDSAMP BHHRESP BINDALL BINDRESP BINCOME BJOBHIST BEGOALT	BMARRIAG BCOHABIT BCHILDAD BCHILDNT BLIFEMST	
3	CHHSAMP CINDSAMP CHHRESP CINDALL CINDRESP CINCOME CJOBHIST CEGOALT	CLIFEJOB	

Table 3

BHPS USER DATABASE STRUCTURE: STANDARD SINGLE WAVE RECORDS			
RECORD NAME	UNIT OF ANALYSIS	KEY VARIABLES	CONTENT
wHHSAMP	All sampled addresses	wHID	Sampling information, response status, non-respondent household characteristics
wINDSAMP	All potential sample members issued to field or enumerated	wHID wPNO	Response and sample status, information on movers into and out of households. (This record is not included at Wave One.)
wINDALL	All enumerated persons at respondent households	wHID wPNO	Demographic enumeration grid information.
wHHRESP	Respondent households	wHID	All information from the household questionnaire (mainly housing and consumption variables). Household level derived variables.
wINDRESP	All individual respondents to full or proxy interview.	sHID wPNO	All information from the individual questionnaires (including the self-completion), except that contained in AJOBHIST and AINCOME: Demographic, education, health, labour market, values and opinions, finance and internal household organisation information. Individual level derived variables, including those related to income and the employment history.
wJOBHIST	Employment history spells for individual respondents who started their current spell since 1 September of the previous year.	wHID wPNO wJSNOP	Spell employment status, dates of start and finish, and job characteristics if spell was a job.
wINCOME	Income receipt from a single payment type, for individual respondents who claimed receipt of that payment type.	wHID wPNO wFICODE wFISEQ	Details of amount of payment, and months in which received.
wEGOALT	Each pair of enumerated individuals within each household	wHID wPNO wOPNO	Kin and other relationships between pairs of individuals.

Figure 5 BHPS User Database Structure

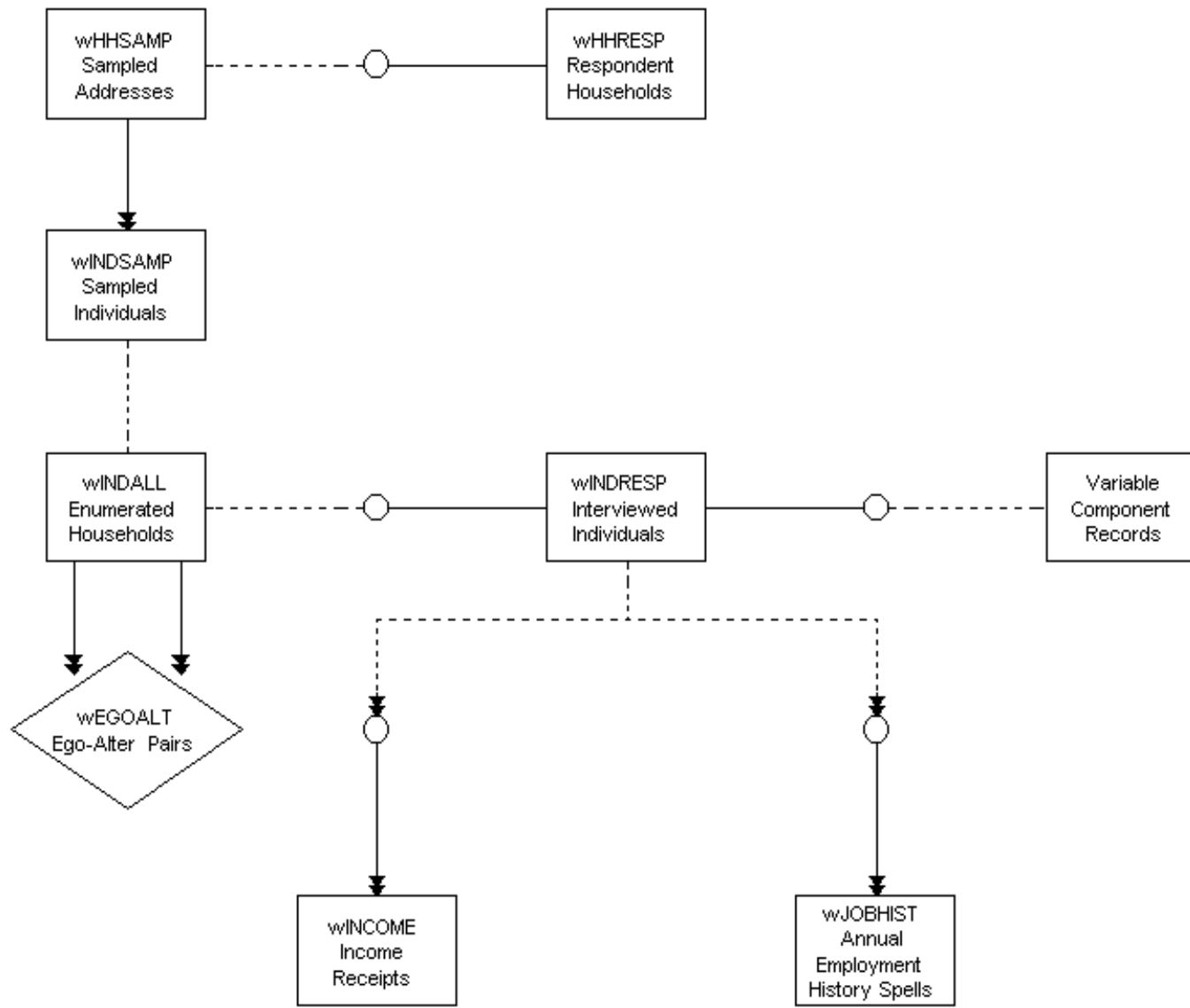


Table 4

BHPS USER DATABASE STRUCTURE : CROSS-WAVE RECORD TYPES			
RECORD NAME	UNIT OF ANALYSIS	KEY VARIABLES	CONTENT
XWAVEID	Each individual who has ever been a member of a respondent household.	PID	Information for matching individuals between waves. The household identifier and person number within household and individual and household response status of each individual at each wave.
XWLSTEN	Each individual who has ever been a member of a respondent household.	PID	Latest known sample status of individuals and information to locate most recent contact with each sample member, and if applicable reasons why there has been no contact since that wave.
XWAVEDAT	Each individual who has ever been a member of a respondent household.	PID	Substantive data about individuals which is generally fixed and measured only once in the life of the panel, e.g. ethnicity, school leaving age.

III.3. Matching Individuals Across Waves

A number of features facilitate the matching of data about individuals between the separate waves, but a number of factors also need to be borne in mind. Matching individuals is likely to make use of the two cross-wave records, XWAVEID and XWLSTEN, and they are described at the end of this section.

III.3.1. Identifiers: Key Variables in the BHPS

In the **BHPS**, there are two sorts of primary key variables: first, **wave specific** key variables which uniquely identify:

- 1) the household which is surveyed at the particular wave; wHID (throughout the survey, we use the convention that the first letter in the variable name refers to the wave of data collection, while the subsequent letters of each variable name remain unchanged in so far as they describe the same item of information through successive waves). So AHID, BHID and CHID are respectively the household identity key variables for the 1991, 1992/3 and 1993/4 waves.
- 2) the individual's number within the household at a given wave, wPNO; so APNO, BPNO and CPNO are the individual within-household numbers for successive waves. The "reference person" in the household, usually the oldest person within it, normally has wPNO =1, and her/his spouse often has wPNO=2. Information about relationships between people within households (e.g. parental, filial, spousal) is given in terms of these wPNO variables.

These wave-specific identifiers are used to link together information from different levels within one wave. **They cannot be used to connect information across waves.** The reason for this is quite simple as goes to the heart of the BHPS methodology. A household consists of a group of people living together within one postal address; this group either may or may not persist over time. About one in six British households change their composition each year. So each year we issue a new number for each household which has no connection with the previous year's household number. Furthermore, since people may enter or leave the household during the course of the year between successive interviews, we also issue new within-household person numbers each year.

To make the connection between information for the same person in successive waves, we use:

- 3) the cross-wave personal identity number PID.

These wHID, wPNO and PID variables are included in most of the files that could have valid "primary" matches (that is, matches of a record of an individual to his/her own household within a wave, or to records of events that are associated with that respondent, or records for the same individual in successive waves). In other cases it is necessary to match wHID and wPNO to those in a special cross-wave identity file (XWAVEID, which contains a PID for each individual present in any household containing a BHPS member at any wave, together with that individual's wHID and wPNO for each year that these are available). However, in addition to these primary matches, there are sometimes cases in which it is necessary to make matches using other variables as "secondary" keys. For example: to check that an individual is still married to the *same* spouse in successive years, it is necessary to use the spouse's PID keys for each year. But the spouse's identity for each year is stored as a person number within the household. To solve this problem, we must again use the XWAVEID file as a source for a "secondary" match (using the respondent's spouse's identity variable wHGSPN as a key to match with the relevant wPNO in the XWAVEID file, from which the spouse's PID could be identified from successive years).

III.3.2. Sample Membership Status

Because the BHPS is a household panel study which tracks household formation and dissolution, individuals may join and leave the sample. The **BHPS** has a number of following rules determining who is eligible to be interviewed at each wave. There are three categories:

Original Sample Members	These consist of members of Wave One households, and their natural children born after the start of the study. This group is always eligible to be interviewed.
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Temporary Sample Members	These consist of individuals who form households with OSMs after the start of the study. TSMs are eligible to be interviewed for as long as they are resident with an OSM, but cease to be eligible if they leave.
Permanent Sample Members	TSMs may become Permanent Sample Members if they are deemed to have a sufficiently strong continuing bond to an OSM to justify following them even if they cease to live with that person. At present, the Centre defines this criteria as being that the TSM is the natural parent of an OSM child born since the start of the study.

Thus, from Wave Three onwards, some individuals in the issued sample will not be eligible for interview because they are no longer living with an OSM. In addition a number of OSMs have died. These cases may be identified from the individual level response status. All new entrants at Wave Two will have a PID greater than 20000000; correspondingly, new entrants at Wave Three have a PID greater than 30000000, and so on. However, the different sample statuses of these new entrants may be identified from the variables MSTAT, YOSM and YPSM on Record XWLSTEN, as well as wSAMPST on Records WINDSAMP and WINDALL.

Original sample members are issued for re-interview at each wave, regardless of their previous wave response status, unless the household in which they are expected to be found is deemed to have refused beyond possibility of subsequent reconversion. In practice, this judgement is based on both the number of refusals and the form of the refusal. The reissue of all but the most adamant refusals means that some individuals will have an intermittent pattern of response. These patterns can be identified from the Record XWAVEID.

There are five special cases which may cause difficulties:

- a) there were a small number of households at Wave One where interviews were carried out, but no usable data reached the Centre. Members of these households have Wave One PIDs, but there will be no Wave One individual level data. These cases may be identified from their household interview outcome of 19 at Wave One (AIVFHO), on Record XWAVEID. Their individual interview outcome (AIVFIO) is set to 8.
- b) At Wave Two, households which were not contacted at Wave One were reissued. Those where interviews were achieved are included in the database. Members are classified as OSMs, but have Wave Two PIDs. They may be identified from the variable YOSM on XWLSTEN, and from the household interview outcome at Wave One on XWAVEID. In addition, these households have a value of -3 in the variable BHHMOVE on BHHSAMP.
- c) A small number of individuals were enumerated at Wave Two, and reported as having been present at the time of the Wave One enumeration, but were not recorded there. These are classified as OSMs, have a Wave Two PID, and may be identified from the variable YOSM.
- d) There are a small number of individuals at each wave who had left a previous wave household, mostly to educational institutions, who were proxied at the previous wave households. These are treated as separate households with a household interview outcome of 15.
- e) From Wave Three onwards, a small number of individuals who were out of scope or ineligible or not issued because of adamant refusal at a previous wave return to an in-scope household.

From Wave Seven the BHPS began providing data for the United Kingdom European Community Household Panel (ECHP). As part of this, it incorporated a sub-sample of the original UKECHP, including all households still responding in Northern Ireland, and a low-income sample of the Great Britain panel. For the purposes of BHPS data and following rules, UKECHP original sample members are treated as BHPS OSMs, while UKECHP new entrants are treated as BHPS TSMs.

From Wave Nine the BHPS includes substantial new samples in Scotland and Wales. For the purposes of BHPS data and following rules, members of respondents households in these new samples are treated as BHPS OSMs.

Members of these various new sub-samples can be identified from the variable MEMORIG on XWAVEID, and wMEMORIG on WINDSAMP, WINDALL, and WINDRESP. Their status is also defined by the variables, MSTAT, YOSM and YPSM on XWLSTEN, and by wSAMPST on WINDSAMP,

WINDALL, and WINDRESP. A number of previous members of the selected ECHP households rejoin after Wave Seven. These are also defined as OSMs. Members of the new sub-samples clearly have no BHPS root wave one household.

III.3.3. Cross-Wave Records

The latest version of these cross-wave records should always be used in analysis.

Record Type XWAVEID

Record Type XWAVEID contains information for matching individuals between waves. It contains one record for each individual who has ever been a member of a respondent household. It is keyed on PID, the Cross-wave person identifier, and contains the household identifier and person number within household, as well as the response status, for that individual at each wave. Members of the ECHP sample can be identified from the variable MEMORIG. See *Table 4*.

For each wave, the indexed household reference is to the last (expected) household of enumeration at last wave. See the document relating to BINDSAMP below for a discussion of multiple enumerations. This Record Type provides the simplest method of matching data pertaining to an individual at more than one wave.

If the individual had not entered the sample by the time of a particular wave, they will have "not applicable" (-8) values for the wave-specific information; the same is the case if they had finally left the sample, e.g. through death or as an ineligible TSM, by the time of a wave.

Record Type XWLSTEN

XWLSTEN contains information on the latest known sample status of individuals. It contains one record for each individual who has ever been a member of a respondent household. It is keyed on the cross-wave person identifier, PID, and contains information on the most recent contact with each member of the sample, and, if applicable, reasons why there has been no contact since that wave. See *Table 4*.

It also indicates the wave of entry to the sample, the reasons why sample membership may have changed, and whether the sample member has ever been interviewed. Members of the ECHP sample can be identified from the variable MEMORIG.

Record Type XWAVEDAT

Record Type XWAVEDAT contains substantive data about individuals which is fixed and only measured once in the panel. This includes information asked at the initial wave of entry and information collected later for new entrants. These data tend to be located in different files depending on the individual wave of entry. The aim of this record type is to provide users with a single place to find such information.

The record type contains information on the following main topics: race, place of birth, school leaving age, type of school attended, father's and mother's job characteristics when aged 14, year of first marriage and first cohabitation, year in which first child born, first job characteristics, birth weight for children in the panel.

There is one record for each individual who has ever been a member of a respondent household. It is keyed on PID, the Cross-wave person identifier.

Variables relating to questions never asked of a respondent are coded (-8). If they were missing when asked, they are coded (-9).

Record Type XIVDATA

Record Type XIVDATA contains basic information about interviewers who have worked on the BHPS over the 18 waves of the survey. These data are intended to contribute to research on interviewer effects. The data are somewhat limited in scope and there is missing data. The variables included are:

IVSEX Interviewer sex
IVYEND Year finished with NOP
IVNO Interviewer number
IVYSTRT Year started with NOP
IVID Interviewer id
IVYOB Interviewer year of birth

Most of these are self evident but two important ones are IVID and IVNO. IVNO is IVID with the first two characters removed and then converted to a number, this is the real interview number. IVID is the variable needed to enable merging.

The file is a cross-wave file and can be merged with any wave. To use it the data must first be matched/merged with a WHHSAMP file which are the only files to contain wIVID 'Interviewer ID number' which now becomes a Key Linking Variable. IVID and wIVID are alphanumeric variables, but both SPSS and Stata allow one to merge data using an alphanumeric key variable, if the files are correctly sorted.

Once this step has been achieved the resultant file can be merged with any other file. The merged file can be sorted by Interviewer Number to see all the interviews done by each particular interviewer.

There are certain values of wIVID in the main dataset that are not matched in XIVDATA. These values include PHONEI, PHONE0, PHOENI, PHONE1 etc., these are phone interviews and there is no interviewer data available. Another frequently found code is 000000, which signifies no interview took place.

A certain amount of cleaning of the data in wIVID has taken place to enable these merges but we have not attempted to impute missing interviewer numbers, as might for example be done on the basis that most instances a single interview worked in each interviewer area, identified by wIVIA.

III.4. Naming Conventions

Record Types/Files All Record Type names begin with a single character wave identifier; A = Wave 1, B = Wave 2, and so on. (Throughout this Manual, this wave-specific character has been replaced by a generic "w".) The rest of the name attempts to provide a meaningful mnemonic given the data content (e.g. HH = household, IND = individual, RESP = respondent). Two records (XWAVEID and XWLSTEN) contain cross-wave matching information.

Variables All variable names begin with a single character wave identifier, replaced by a generic "w". The rest of the name is mnemonic which attempts to give some information as to the content of the variable. In general, the second and third characters give some indication of the general subject area of the variable. The conventions used are described in *Table 5*.

Table 5 Some Variable Naming Conventions

ADLT	Adults	JU	Unemployed
BU	Benefit Unit	LOC	Location
CD	Consumer Durables	MG	Mortgage
CH	Child/ren	MOI	Month of interview
CK	Check-ups	MN	Month
COH	Cohabitation	ML	Marital/Marriage
CSSM	Cambridge Scale	MOV/E	Moves/Moving
	Classification (Male)	NC	Number of Calls (by Interviewer)
CSSF	Cambridge Scale	NEW	Bought in Last Year
	Classification (Female)	NO/N	Number
DC	Document Check	OP	Values and Opinions
DOI	Day of interview	ORG	Organisations
DOB	Date of Birth	OSM	Original Sample Member
ED	Education	OWN	Owned by Respondent
FAM	Family	PAY/PY	Wages, salaries
FED	Further Education	PY	Parental
FI	Financial	PEN	Pension/s
FID	Fieldwork Identifier	PID	Person Identification Number
FIO	Final Interview Outcome	PL	Place
FR	Final Receipts	PNO	Person number
FT	Financial Transfers	PSM	Permanent Sample Member
GHQ	General Health Questionnaire	QF	Qualifications
GOLD	Goldthorpe Social Scale	R/RSP	Respondent(s)
HG	Household Enumeration Grid	RENT	Rent
HGS	Hope-Goldthorpe Scale	RGSC	Registrar General's Social
HH	Household		Classification
HID	Household Identification Number	SEG	Socio-Economic Group
HL	Health	SIC	Standard Industrial Classification
HOH	Conventional Head of Household	SOC	Standard Occupational
HS	Housing		Classification
HU	Who	SP	Spouse/Partner
IMPS	Imputation Variable	STAT	Status
IPS	Inter-penetrating Sample	TSM	Temporary Sample Member
ISCO	International Standard	USE	Has the use of named item in
	Classification of Occupations		household
IV	Interview/interviewer	WGHT	Weight
IVA	Interviewer Area	XP	Expenditure
JB	Job	XW	Cross-Wave
JH	Job History	YP	Young Person
JL	Last Job	YR	Year
JS	Self-employed		

III.5. Missing Value Conventions

As far as possible, identical conventions have been used to represent the variety of situations where respondents did not provide data in response to questions, or where a variable could not be computed.

- 0 represents 'Not Mentioned' or 'None' (unless it has some other meaning in the coding frame). Thus, where respondents are asked which of a list of items apply to them (for example, educational qualifications), those not selected will be coded 0.
- 1 represents a respondent response of 'Don't Know'. In the questionnaire, these are defined as '8', '98', '998' etc. (questions without such codes may have this response as a result of interviewer write-in)
- 2 represents a respondent refusal. In the questionnaire, these are defined as '9', '99', '999' etc. (questions without such codes may have this response as a result of interviewer write-in)
- 3/ -4 are reserved for situations arising for particular questions where invalid data are given for other reasons, or data that do not fit into the frame of the main variable (e.g. self-employed person made a loss, last payment was a refund). The Value Label will indicate the particular situation.
- 7 is used on individual respondent records AINDRESP, BINDRESP etc; it indicates that the respondent was interviewed by proxy (or from Wave Three, by telephone) and therefore the relevant question was not asked, or the derived variable could not be computed. From Wave Three this code is also used on the wHHRESP record to indicate that the only household contact was a telephone interview, so that the household schedule was not completed.
- 8 represents data missing because not applicable to that respondent, or because of routing from some previous question.
- 9 represents data missing in error, with no other explanation, or derived variables which could not be computed.

None of these 'missing values' are pre-defined as such in the SIR database, or in derived SPSS files (i.e. by assigning MISSING VALUES to the variables). There are no valid non-missing negative values within the dataset. (Note, however, that "-3" and "-4" codes may under some circumstances be treatable as non-missing.) The complete set of numerical variables may, therefore, have missing value codes set by a single "missing value" statement in SPSS. (Note, however, that string variables' missing values are coded as "-9", "-8" and so on.)

III.6. Other Variable Transformations

The following general procedures were adopted in creating the User Database, which will affect the apparent relationship between individual questions and variables:

- a) As noted above, 'Don't Know' and 'Refuse' values were re-coded to a consistent basis, with -1 representing 'Don't Know' and -2 representing 'Refused'
- b) Separate 'Don't Know' and 'Refuse' variables associated with amount variables were combined with this variable.
- c) Separate pre-coded and office-coded variables for period of receipt or payment of amounts were combined into a single variable, measuring weeks of receipt. By convention, a month was treated as containing 4.33 weeks.
- d) Where identical information was collected for different subsets of respondents at different points in the questionnaire, this is merged into a single variable. Particular attention is drawn to the treatment of proxy data in this respect. This is described below in the discussion of Record

wINDRESP.

- e) Record Type wINDRESP combines both full respondent and proxy data. The code -7 is used to indicate a value missing because the response was by proxy and the question was therefore not asked.
- f) Multiple response and equivalent lists of questions are generally re-coded so that a positive response is coded 1 and a 'Not mentioned' or an equivalent negative response is coded to 0.
- g) In a number of instances, minor questionnaire modifications led to inconsistencies in response categories between waves. Rather than leaving these, the Wave One data have been re-coded so that the categories are consistent with the Wave Two questionnaire and data, rather than the Wave One questionnaire. The following variables are affected: AMASTAT, AQFEDA -AQFEDJ, and ANQFEDA - ANQFEDJ, ACJSBLY, AF131 and AF133, AJBED1 - AJBED5, AEDNEW1 - AEDNEW4. Other such re-coding exercises in subsequent waves will be described in up-date sheets provided with later releases.
- h) From Wave Two onwards, an open ended question was placed as the final question on the individual questionnaire asking people to state in their own words what "has happened to you (or your family) which has stood out as important". Answers were recorded verbatim. Verbatim responses can not be made available for public release, because of confidentiality concerns. However, a numeric code was developed to capture the full range of events mentioned. Up to four events are coded for each response. For this question, coding was done at the Essex Centre, using specially trained coders.

III.7. Missing and Potentially Erroneous Data

Survey processes generate errors. These can emerge at many stages and for many reasons: the respondents' understanding of the original question, whether they in fact know the answer, their preparedness to answer, the interviewer's understanding of the response, her/his accuracy in transcribing the response, the accuracy of any processing by editors and coders, and of data entry operations, and then the soundness of any subsequent checking and editing processes. We have sought to minimise all these sources of error through efforts in questionnaire design, in interviewer training and monitoring, in motivation of respondents, in the monitoring of initial stages of data processing, and in our own data processing procedures, as explained elsewhere in this documentation. However, there are certainly missing data, and no data set is error free.

Our approach to potentially erroneous data has been, on the one hand, to ensure that data processing stages are as foolproof as possible, but, on the other hand, to respect the responses given in the field, unless there was a very clear basis for making any change. The rationale employed was that the final researcher should be able to make the judgement of how to deal with cases at the margins of plausibility. Because different researchers may want to take different approaches to these situations, we have sought to retain on the data set as much information from the interview as possible. As an example, a number of respondents reporting category 'e' at question D20 ("O" levels obtained before 1975) were not themselves born, or were implausibly young in 1975. Some researchers may be content to re-code these cases to category f, while others may regard this information as so suspect that they would prefer to exclude it. Interviewer checks, on the other hand, are enforced so as to be consistent with other data. We have also checked extreme values on continuous variables (e.g. money amounts), and amended these when there is some clear evidence of error.

On the other hand, in situations in which we believe that some error may have arisen in a more systematic fashion as a result of respondent misunderstanding of questions, we have not sought to change the data. For example, E15b (AJBRISE) appears to have been understood by some respondents to be including (rather than excluding) annual pay rises taking account of inflation.

We have not sought to reconcile potentially conflicting data collected at the separate waves. As noted below, in a number of specific cases, apparent inconsistencies exist, (for example, in current job status as reported in Wave One and retrospective reports of job status in the Autumn of 1991, as collected at Wave Two, or other subsequent pairs of waves). Neither have we sought to reconcile information collected in the various life history components in Waves Two and Three with data collected in the main panel or with each other. It is for the individual researcher to determine how to resolve such inconsistencies as they may affect their own work. We have, however, sought to ensure that sex is

consistently reported, and major inconsistencies in age and date of birth are resolved.

III.8. Mobility and Implications of the Fieldwork Process for Data Organisation

As described elsewhere, some movement, either of individuals or of whole households is identified before the fieldwork process. Coversheets for individuals are issued at the beginning of fieldwork to households where they are expected to be found. These expected households are assigned to the same interviewer area as at Wave One, except where a move is anticipated; in which case they are assigned to area '0'. At Wave Two, this assignment is contained in the variable BIVIA. In later waves, the area '0' issues were reallocated before fieldwork, and CIVIA and so on contain the anticipated fieldwork area. Further moves are uncovered in the course of fieldwork. Where these are non-local moves - i.e. beyond the range of the current interviewer - they are reassigned, and have a code 0 in the variable wVIAM (but see the discussion of the interpenetrating sample *Section IV*, for other uses of this variable).

However, for most analytical purposes, the derived variables wHHMOVE on wHHSAMP and wHHRESP, and wMOVEST on the individual level Records are to be preferred, since these indicate whether the household or individual has moved in comparison with their location at the last wave, which the fieldwork-based variables may not. Given that sample members may return to previous addresses and rejoin other sample members, it does not follow that all members of a non-mover household (wHHMOVE=1) are themselves non-movers. The household status is defined in terms of the household reference person where this is a PSM, and the oldest PSM where the HRP is not a permanent sample member. Where there is sufficient information, new addresses are coded to the Region and Local Authority coding frames used at Wave One.

One further implication of the tracking of movers is that individuals may be expected to be found in more than one household. Thus, on the Record wINDSAMP, there will be one record for each expected occurrence of an individual, and, for example, one record may contain information about departure date and reasons for leaving one household, and another record may contain information about arrival in the new household. The variable wFINLOC identifies the final location of each sample member (although, in some cases, the final individual outcome may be 'Mover', where no further information about the destination was available). Caution should be exercised in using matching procedures with data from this Record, for example by selecting cases where wFINLOC equals 1, to avoid spurious duplicate matches.

III.9. Usage Notes

There are three types of usage notes. This section contains, first, information that is general to all waves, and secondly, information which is general to all waves after the first, since substantial modifications were made to the questionnaire at Wave Two; some basic information did not need to be collected afresh from all respondents, but did have to be collected from new entrants. Notes which are entirely wave-specific are contained in *Sections III.11, III.12, III.13* on the individual waves.

III.9.1. For All Waves

Employment Status

There are three measures of current employment status: that on the Household Composition Form; that arising from the direct status question J2 (wJBSTAT); and that arising from the sequence of questions about whether the respondent did any paid work in the last week, whether away from a job and whether seeking work. The first of these is likely to be reported by someone else, and therefore one of the others is to be preferred if available. In a minority of cases, there may be inconsistencies (e.g. where full-time students have a part-time job, but define themselves as students). Where the interest is in self-defined status, wJBSTAT should be used, but the routing of the questionnaire, and hence the availability of data at various points, depends on the paid work questions. Thus, in order to select out all those in employment, the combination of wJBHAS and wJBOFF should be used.

The Employment History: Record Types wJOBHIST and variables wCJSBLY, wNJBS

Related to the previous point, the employment history is routed in terms of current status as defined by the job-holding questions. In a limited number of cases, respondent or interviewer confusion led to erroneous ordering or overlapping periods. The majority of these have been cleaned, but a few unresolvable inconsistencies remain. Where the last employment spell given started after 1st September 199LY, or the current spell started after this date, and no information about previous spells was given, a single wJOBHIST record with missing data was created.

Occupational Coding

Occupational coding was carried out using the Computer Assisted Standard Occupational Classification (CASOC) system developed by Peter Elias. As a result of the six-figure codes attached via CASOC, matching of the 1990 SOC coding with previous occupational classifications is now possible; in addition, special algorithms within CASOC allow the re-coding of SOC codes into SEG, RGSC, Goldthorpe, Hope-Goldthorpe, Cambridge Scale and ILO-ISCO 88.

Attention should be paid to the fact that there is a degree of change found in the coding of occupations and industry between waves for respondents who have not apparently changed jobs. These cases could be the result of respondent recall error or misunderstanding, or of coding or keying errors. A blind re-coding exercise indicated a low level of absolute error, however, and if this is randomly distributed throughout the sample, this should not be problematic for analysis. Researchers will have to make their own decisions in these cases, as to whether they consider a job has changed, perhaps by looking at changes in other variables such as pay and hours.

In relation to industry coding, users should note that the information available for coding industries at Wave Two and Three was reduced if the respondent had not changed their job in the past year. The type of organisation (for example, private firm/local government and so on) was not asked in these cases. In addition, names of employers were not obtained at Waves Two and Three, as they were at Wave One.

Money receipts and payments

The base variables associated with these payments or receipts include two for each, the amount of the receipt or payment, and the period in weeks which it covered. These variables should not be used without first converting to a common time metric - e.g. dividing by the number of weeks. However, users should be aware that, for a small number of cases, the period of receipt is less than one week. They may wish to take special action in these cases.

Income payments: wINCOME Record Types and variables wF101-wF159, wNF1

As explained above, these records contain detailed information about each payment received. It is possible that more than one payment stream may be received from a single type, identified in variables wF101-wF159 (for example a pension may be received from more than one previous employer). Hence more than one wINCOME record may exist for each payment type. The variable wNF1 (on wINDRESP) is the count of the number of payment types, and not of the number of payment receipts.

Where a payment type is identified, but with no further details, then a wINCOME record is generated with missing data.

In the treatment of reported joint receipt, the Wave One practice is different to that of the subsequent waves. Question F3f (whether payment was received jointly) has been heavily edited, and also, we believe, has been treated rather inconsistently by interviewers. At Wave One, we have endeavoured to ensure that reports of joint receipt are consistent by payment type, though not necessarily by amount. The variable AFRJT is to be used to ensure that total household income is correctly calculated, and should not be regarded as an analysis variable for investigating the incidence of joint receipt. At Wave Two and subsequently, we have left the data as collected, but computed a new variable, wFRJTVF, an edited version of wFRJT,

depending on whether matching records exist, and this is used in the computation of derived variables.

Over the course of the panel, the range of payment types has changed, particularly with the introduction of new state welfare benefits. For example Job seekers allowance replaced unemployment benefit. In this case a new variable (wF142) on wINDRESP was introduced, and the variable wF130 was removed. Correspondingly a new code value of 42 on wFICODE on wINCOME was introduced. For health and disability related benefits rather more substantial changes have been made to the system. However, the same benefit will retain the same variable name and coded value across time, and where a benefit is clearly a descendant of an earlier benefit phased out, it will retain the same name. This will mean that code values in the data set may not correspond to those shown on the questionnaire documents.

Income and Imputation

It should be noted that income information for all waves includes imputed data. Imputation methods and the system of imputation flags are discussed in *Section V* below. It is important to note that imputation flags do not distinguish at the individual level how substantial the imputation was, and variables which are computed from other variables with imputations may contain widely varying proportions imputed. For example, for some individuals the only imputation may relate to a small amount of Community Charge Benefit, while for another the whole of current pay may be imputed.

In general, annual and latest-month income derived variables are computed in the same way, though it should be noted that they have a non-overlapping reference period, so that it is theoretically possible for monthly income to be greater than annual income. The only difference in computation methods is that, while monthly income includes pay from any second or occasional job held by the respondent, this is not included in annual income since we have no information on the period for which the job has been held.

At each wave after Wave One, the calculation of the variables for pay at September of the previous year, and hence all annual labour income measures, makes use of the pay variables from the previous wave where the respondent claims still to be in the same job. This means that some elements of these data may contain imputations, though this is not separately flagged. The variables will be independently imputed where the report of employment status given at the previous wave is inconsistent. Non-labour income variables rely solely on data collected at the current wave.

III.9.2. For Wave Two and Beyond

The notes below relate to questionnaire modifications introduced at Wave Two.

III.9.2.1. Housing Data

There are substantial changes in the design of the section of the household questionnaire dealing with owner-occupation from Wave Two onwards, as compared with Wave One; the aim was to deal with large number of possible changes in ownership conditions, and to avoid unnecessary repetition of questions where conditions had not changed since the previous wave. The structure has been somewhat simplified in the database, but the main effect is that certain apparently comparable questions are only asked of very small subsets of respondents. For example, the respondent's assessment of the current selling price of the house (wHSVAL) which was asked of all owner-occupiers at Wave One, is only asked of outright owners at a new address at Wave Two - although, from Wave Three, it is again asked of all owners. The questions on additional mortgages now apply only to the period since September 1st of the previous year, except where the interview took place at a new address, where the reference period is the period since the respondent first started paying a mortgage on the property, identified by wMGYR0. This value, and the value of wHSYR0 may be below 91 where the house-owner is a new entrant.

By contrast the renter section is unmodified, except that those on 100% rent rebate/housing benefit are now routed through the housing payment difficulties questions, and routed out if they were on 100% rent rebate throughout the previous year.

III.9.2.2. The Employment Section

Users should be particularly aware of the structure of the employment section, and note that the routing on the questionnaire from Wave Two onwards means that respondents interviewed at the previous wave do not answer all questions; whether they do depends on whether they have changed their job since September 1 of the previous year. Differences in questions asked of respondents interviewed in earlier waves and those asked of new entrants should be particularly noted; although the variable names are the same as at Wave One, the population totals may differ.

This applies particularly to the following variables:

wJBSECT	wJBTIME	wJBONUS	wJRISE	wTUJBPL	wTUIN1
wTUIN2	wJBOPPS	wJBPEN	wJBPENM	wPAYLY	wPAYLYG
wPAYLY	wPAYLYW				

As questions on union membership are not asked of employees in the same job as at Wave One, for example, users will need to carry over the Wave One value for employees at later waves who have not changed their job in the previous year, in order to use the variable on union membership for all respondents.

As currently structured, the employment section uses the date the respondent started their current job/position (either with the same or a different employer) to route respondents in the same job past several questions regarding the type of workplace, union membership and employer's pensions. (The key variables on Start Date of Current job are wJBBGD, wJBBGM and wJBBGY.) This date is, additionally, the critical arbiter of whether people are in the same job as last year or not. This applies to both the employment section and to the annual job history, as this date is transferred forward to the Job History for routing at the beginning of the section. There is some indication that some respondents may not be interpreting this question correctly and are failing to give the date they were promoted or changed their job within employer. It is also possible that they are assuming that the date needed is the date the respondent started working for their current employer. Where respondents have given a different job title and description allied with a change in managerial status and a change in hours or earnings, it is possible they are, in fact, describing a different job.

III.9.2.3. Educational Qualifications

All waves produce all qualifications obtained and, in addition, numbers of school qualifications. The relevant variables here are:

wQFHAS	wQFA-N	wQFED	wQFEDA-S	wNQFEDA-S
wQFEDHI	wQFX	wQFEDX	wQFXA-N	wQFEDXA-K
wNQFEXA-K				

Wave One respondents in Wave Two were only asked for qualifications obtained since Wave One, taken to be since 1.9.91. The routing variables BQFX and BQFEDX should be used to elicit these additional qualifications. However, as some people would have obtained qualifications reported in Wave One after 1.9.91, there could be some double-counting in Wave Two. This may be accentuated through a tendency to report qualifications more than once. It is quite possible to obtain the same level of qualifications two years running, and therefore no attempt has been made to eliminate this. However, care should be taken when combining qualifications from both waves.

If only highest qualification is required, then the derived variable wQFEDHI has been calculated to update the Wave One variable with newly received higher qualifications. wQFVOC and wQFACHI have been treated in the same way.

The variables for all new respondents, which contain all qualifications obtained and are therefore the same as the Wave One variables, are respectively wQFA-N, wQFEDA-S, and wNQFEDA-S. There may not always be a match between reported qualifications and reported numbers (for example, where a respondent failed to provide a number).

III.9.2.4. Interview outcome codes

At Wave Two and beyond, the distinction between whole household non-response, and non-response within an enumerated household becomes more important. A new computed individual interview outcome variable (wIVFIO) contains additional codes for individuals in non-response households giving further information on their status. These have a standard set of values for all waves after Wave One, and thus do not directly reflect the values contained on each cover sheet. It should be noted that, in some cases, household enumeration was completed for households which otherwise refused. Individuals in these households have outcome codes in the range 30 to 40. It should also be noted that, in a small number of cases at Wave Two only, individuals in respondent households have a final individual outcome code of 12 (moved). These were cases where there was insufficient information to reissue them to a new household. At later waves this value is only used where the final location code (wFINLOC) is equal to 0.

III.9.2.5. Major life events

From Wave Two onwards, an open ended question was placed as the final question on the individual questionnaire asking people to state in their own words what "has happened to you (or your family) which has stood out as important". Answers were recorded verbatim. Verbatim responses can not be made available for public release, because of confidentiality concerns. However, a numeric code was developed to capture the full range of events mentioned. Up to four events are coded for each response. Along with the events mentioned, code 97 has been retained for "nothing happened". This is sometimes a substantive response as people indicate that little of consequence occurred, although in the vast majority of cases the answer is probably the equivalent of "don't know" (code -1). Missing data is assigned -9. The full detailed coding frame appears in *Appendix 3*.

As would be expected, people's answers include not only events that happened to them personally but also events that happened to other family members or friends. Each event is therefore assigned a "subject code," with 20 being used if no subject is specified. The pertinent "subject code" where ambiguous is indicated by the event frame (e.g. code 40 pregnancy / birth indicates the subject is the parent). The subject code frame includes mentions of pets (code 18). For further details see Chapter 11 in *Changing Households: The British Household Panel Survey 1990-1992* (Buck et al (eds.) 1994).

For this question, coding was done at the Essex Centre, using specially trained coders. An inter-coder reliability check was carried out on 10% of the sample. For Wave Two, inter-coder reliability was 97% for subject mentions, over 90% for the specific category of events 90% and 95% for the 12 major categories (health, caring, education, employment, leisure/political, non-familial, family, financial, consumption, residential move, crime and religion).

III.10. Definitions

Age of respondents

The eligible age for a full individual interview in Wave One was 16 on 1st December 1991. Given that the field period ran from the beginning of September to early December, it is possible that some respondents were in fact under 16 at the time of interview. This may lead to some minor apparent inconsistencies between household composition information and individual questionnaire information. Two age variables are provided, one measuring age at the date of household interview and the other measuring age at 1st December 1991. The day of birth variable has been suppressed from the public use version. For Wave Two and subsequent waves, similar eligibility rules were applied in relation to age; all those who were 16 or above on 1 December of the fieldwork year were eligible for interview.

Days since 1st September 199LY

Questions asking how many days since September 199LY the respondent has carried out some activity (e.g. training, in hospital) do not have a standard one year basis, since they depend on the date of interview. Thus values above 365 are possible, however implausible.

Dates of Events

There are a large number of questions in the **BHPS** asking for the exact date of events, particularly employment events. Inevitably, there are many missing components to these dates, which would inhibit normal date functions from producing durations, for example. In constructing derived variables which depended on dates we have assumed that the missing day of month is the first, and, for two or more years before the year of interview only, we have assumed July for missing months.

Season Codes

In cases where respondents could not remember exact dates, a convention was applied, by which January was used when Winter was reported, April for Spring, July for Summer and October for Autumn. However, where these season codes are used in a spell which starts and finishes in the same calendar year, the length is set to -3, indicating less than 12 months but exact length indeterminate.

The Self-Completion Questionnaire

The data from the Self-Completion Questionnaire are included on Record wINDRESP. This document was refused or is missing for other reasons for a number of respondents. They may be identified from the variable wIODC.

Dependent Children

Unlike the standard definition of a child for fieldwork purposes (i.e. under 16), a **dependent child** has been defined for use in derived variable construction as one aged under 16, or aged 16-18 and in school or non-advanced further education, not married and living with parent.

Benefit Units

Benefits Units are defined, following the definition used by the Department of Social Security, as a subset of households, consisting of single individuals or couples and their dependent children, if any.

General Health Questionnaire

A question battery originally developed as a screening instrument for psychiatric illness, but often used as an indicator of subjective well-being. See Cox, B. *et al*, The Health and Lifestyle Survey. (London: Health Promotion Research Trust, 1987). See Variables wHLGHQ1-2 on wINDRESP.

PERSONALITY MEASURES FOR THE BRITISH HOUSEHOLD PANEL STUDY

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Personality traits are individual differences in relatively consistent patterns of thoughts, feelings, and behaviors. Traits have been labeled “essential psychological constructs” because they exert a substantial influence on important life outcomes such as work experiences (e.g., Barrick & Mount, 1991; Judge et al., 1999), academic success (e.g., Digman, 1989), romantic relationships (e.g., Donnellan, et al., 2004; Robins, et al., 2002), parent-child relationships (Kochanska et al., 2004), health-related behaviors (e.g., Bogg & Roberts, 2004; Friedman, et al., 1993), and the risk for psychopathology (e.g., Krueger et al., 2000; Krueger et al., 1996) and criminality (e.g., Miller & Lynam, 2001). Indeed, it is rare to find a single domain that is of interest to social scientists where evidence for the importance of personality traits has not been found.

There is general agreement among personality psychologists that five broad dimensions can adequately organize the vast range of possible personality descriptors (e.g., assertive, friendly, nervous). These five “super traits” are known as the “Big Five,” and they include the traits of

Extraversion, Agreeableness, Conscientiousness, Neuroticism, and Openness to Experience (John & Srivastava, 1999). Extraversion refers to individual differences in sociability, gregariousness, level of activity, and the experience of positive affect. Agreeableness refers to individual differences in altruistic behavior, trust, warmth, and kindness. Conscientiousness refers to individual differences in self-control, task-orientation, and rule-abiding. Neuroticism refers to individual differences in the susceptibility to distress and the experience of negative emotions such as anxiety, anger, and depression. Finally, Openness to Experience refers to individual differences in the propensity for originality, creativity, and the acceptance of new ideas. The general agreement on the Big Five provides a standardized language for describing personality differences at the broadest levels and has facilitated the accumulation of knowledge concerning how personality traits are related to a broad range of life outcomes.

Personality traits tend to be assessed using long questionnaires. However, recent scale-development studies have indicated that the Big Five traits can be reliably assessed with a small number of items (e.g., Gosling et al., 2003). For instance, pilot work from the German Socio-Economic Panel (GSOEP) Study led to a 15-item version of the well-validated Big Five Inventory (Benet-Martinez & John, 1998) that can be used in large-scale surveys like the BHPS. Accordingly, we propose adding these measures to the BHPS.

Benefit to the Research Community

Including measures of Extraversion, Neuroticism, and Conscientiousness in the BHPS will provide a great benefit to personality, social, clinical, industrial/organizational, and health psychologists. Traditionally, these kinds of researchers do not analyze data from large-scale panel studies like the BHPS because these studies rarely include variables of prime interest to these psychologists. This is unfortunate because theory in these disciplines posits that personality traits should have real-world consequences such as influencing individuals' specific life choices linked to economic well-being and physical health (e.g., career choice, engaging in health-promoting practices) as well as influencing how individuals react to major life events (e.g., unemployment, death of a spouse). Indeed, large-scale nationally represented data are crucial for establishing that personality traits are in fact essential psychological constructs. Including personality in the BHPS will make it one of the best datasets in the world for study how personality traits are linked with real-world choices and reactions over time. We are confident that this would ensure that psychologists from a variety of sub-disciplines would begin to use the BHPS.

Furthermore, the inclusion of personality variables would inform research into the causes and effects of existing variables in the study. For instance, social scientists are often interested in the effects of life events (e.g., layoffs, income changes, health shocks, changes in marital status, etc.) on important social and economic variables. Yet these events are rarely completely exogenous. For instance, recent behavioral genetic work shows that the likelihood of getting married or divorced is partly due to personality characteristics that can ultimately be tied to genetic differences between individuals (Johnson, et al., 2004). It is likely that other important life events like unemployment, job promotions, or even the onset of health problems result from similar processes. Thus, by including personality measures, researchers can better understand (and control for) the factors that predispose individuals to experience social, economic, and health-related changes over time.

Finally, the GSOEP, another large-scale panel study, recently began including personality measures in their survey. Including the same personality measures in the BHPS and the GSOEP will permit cross-national replications of personality-related research projects. This promises to increase the status of both projects for conducting psychological research. We should also note that the GSOEP has already administered a pre-test of the measures, and the first full wave of data using these measures will be available in May of 2005. Thus, the data from their study can be used to examine the psychometric properties of the scales in a similar panel study.

Including personality trait measures in the BHPS will allow researchers using future waves of the BHPS to study prospective links between personality and these outcomes. This promises to make the inclusion of trait measures invaluable for years to come. Moreover, including personality measures at just one wave will help resolve a persistent debate regarding age differences in personality traits (e.g., McCrae & Costa, 2003). The debate centers around whether or not there are age-differences in personality after age 30. To date, psychologists have not been able to resolve this controversy given the paucity of nationally-representative datasets with personality information. Thus, the BHPS is in a unique position to help resolve this important psychological issue regarding personality differences across the life span.

Big Five Personality Trait Measures

From: Benet-Martinez, V. & John, O. P. (1998). *Los Cinco Grandes* across cultures and ethnic groups: Multitrait multimethod analyses of the Big Five in Spanish and English. *Journal of Personality and Social Psychology*, 75, 729-750.

Agreeableness items are labeled with an “A”, Conscientiousness items are labeled with a “C”, Extraversion items are labeled with an “E”, Neuroticism items are labeled with an “N”, and Openness items are labeled with an “O”.

Please answer each of the following questions using a 1 to 7 scale, where 1 means “does not apply to me at all” and 7 means “applies to me perfectly”.

I see myself as someone who . . .

1. (A) Is sometimes rude to others (reverse-scored).
2. (C) Does a thorough job.
3. (E) Is talkative.
4. (N) Worries a lot.
5. (O) Is original, comes up with new ideas.
6. (A) Has a forgiving nature.
7. (C) Tends to be lazy (reverse-scored).
8. (E) Is outgoing, sociable.
9. (N) Gets nervous easily.
10. (O) Values artistic, aesthetic experiences.
11. (A) Is considerate and kind to almost everyone.
12. (C) Does things efficiently.
13. (E) Is reserved (reverse-scored).
14. (N) Is relaxed, handles stress well (reverse-scored).
15. (O) Has an active imagination.

References

- Barrick, M. R., & Mount, M. K. (1991). The Big Five personality dimensions and job performance: A meta-analysis. *Personnel Psychology*, 44, 1-26.
- Bogg, T., & Roberts, B. W. (2004). Conscientiousness and health-related behaviors: A meta-analysis of the leading behavioral contributors to mortality. *Psychological Bulletin*, 130, 887-919.
- Digman, J. M. (1989). Five robust trait dimensions: Development, stability, and utility. *Journal of Personality*, 57, 195-214.
- Donnellan, M. B., & Conger, R. D., & Bryant, C. M. (2004). The Big Five and Enduring Marriages. *Journal of Research in Personality*, 38, 481-504.
- Friedman, H. S., Tucker, J. S., Tomlinson-Keasey, C., Shwartz, J. E., Wingard, D. L., & Criqui, M. H. (1993). Does childhood personality predict longevity? *Journal of Personality and Social Psychology*, 65, 176-185.
- Gosling, S. D., Rentfrow, P. J., & Swann, W. B., (2003). A very brief measure of the Big-Five personality domains. *Journal of Research in Personality*, 37, 504-528.
- John, O. P. & Srivastava, S. (1999). The Big Five trait taxonomy: History, measurement, and theoretical perspectives. In O. P. John & L. A. Pervin (Eds.), *Handbook of Personality: Theory and Research*. New York: Guilford Press.
- Johnson, W., McGue, M., Krueger, R. F., & Bouchard, T. J. Jr. (2004). Marriage and personality: A genetic analysis. *Journal of Personality and Social Psychology*, 86, 285-294.
- Judge, T. A., Higgins, C. A., Thoresen, C. J., Barrick, M. R. (1999). The Big Five personality traits, general mental ability, and career success across the life span. *Personnel Psychology*, 52, 621-652.

Kochanska, G., Friesenborg, A. E., Lange, L. A., & Martel, M. M. (2004). Parents' personality and infants' temperament as contributors to their emerging relationship. *Journal of Personality and Social Psychology, 86*, 744-759.

Krueger, R. F., Caspi, A., & Moffitt, T. E. (2000). Epidemiological personology: The unifying role of personality in population-based research on problem behaviors. *Journal of Personality, 68*, 967-998.

Krueger, R. F., Caspi, A., Moffitt, T. E., Silva, P. A., & McGee, R. (1996). Personality traits are differentially linked to mental disorders: A multitrait-multidiagnosis study of an adolescent birth cohort. *Journal of Abnormal Psychology, 105*, 299-312.

Larsen, R. J., & Ketelaar, T. (1991). Personality and susceptibility to positive and negative emotional states. *Journal of Personality and Social Psychology, 61*, 132-140.

Lucas, R. E., Clark, A. E., Georgellis, Y., & Diener, E. (2003). Reexamining adaptation and the set point model of happiness: Reactions to changes in marital status. *Journal of Personality and Social Psychology, 84*, 527-539.

McCrae, R. R. & Costa, P. T. Jr. (2003). *Personality in adulthood: A five-factor theory perspective*. New York: Guilford Press.

Miller, J. D., & Lynam, D. (2001). Structural models of personality and their relation to antisocial behavior: A meta-analytic review. *Criminology, 39*, 765-798.

Paunonen, S. V., & Ashton, M. C. (2001). Big five predictors of academic achievement. *Journal of Research in Personality, 35*, 78-90.

Robins, R. W., Caspi, A., & Moffitt, T. E. (2002). It's not just who you're with, it's who you are: Personality and relationship experiences across multiple relationships. *Journal of Personality, 925-964*.

III.11. WAVE ONE: Record Types and Wave Specific Information

III.11.1. Record Types: Wave One

Record Type AHHSAMP

AHHSAMP contains sampling, interview outcome and weighting information. There is one record for each sampled Address, and records for additional selected households at addresses containing multiple households.

Respondent households, for which records AHHRESP etc will exist may be identified from the variable AIVFHO.

Derived and additional variables are those from AHHWGHT onwards.

Record Type AINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding AINDRESP record exists may be identified from the variable AIVFIO (individual interview outcome).

Derived and additional variables are those from AAGE onwards.

Record Type AHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

For 15 households there was no household questionnaire completed. For these cases only data from the household composition is available on this record. The cases may be identified from the variable AHHDC.

Derived and additional variables are those from AHHDC onwards. Of these, AHHWGHT AHSTYPE AHSFLOOR AREGION and ALADISTC are direct copies of variables on record AHHSAMP.

The following variables have data for all missing cases imputed:

AMGNEW	AXPMG	AHSVAL	ARENT	ARENTG	AXPHSN
AXPHSG	AFIHHMN	AFIHHML	AFIHHMNL	AFIHHMP	AFIHHMB
AFIHHMT	AFIHHMI	AFIHHYR	AFIHHYL	AFIHHYNL	AFIHHYP
AFIHHYB	AFIHHYT	AFIHHYI			

The following imputation flag variables were added:

AMGNEWI	AXPMGI	AHSVALI	ARENTI	ARENTGI	AXPHSNI
AXPHSGI	AFIHHMNI	AFIHHMLI	AFIHHMNL	AFIHHMPI	AFIHHMBI
AFIHHMTI	AFIHHMII	AFIHHYRI	AFIHHYLI	AFIHHYNI	AFIHHYPI
AFIHHYBI	AFIHHYTI	AFIHHYI			

See Section V for a full discussion of imputation.

Record Type AINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form are also copied to this record. Proxy respondents may be distinguished from main questionnaire respondents on the basis of the variable AIVFIO. Note that adult non-respondents, which may include the Household Reference Person will not have an AINDRESP record, but only an AINDALL record.

Proxy data are copied to equivalent full questionnaire variables. Where there is no equivalent variable, proxy values are set to -7 (inapplicable). The variables APRRS2I APRIPN APRWHY APRFEHQ APRSEHQ APRFITB APRJBFT correspond to questions in the proxy questionnaire which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record AJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record AINCOME.

Derived and additional copied variables are those from AIVFIO to AREGION and from AHGR2R onwards. The variables AREGION AHHSIZE AHHTYPE ATENURE and AFIHHMN are copied from record AHHRESP. The variables AIVFIO AIODC and AHGR2R to AHOH are copied from record AINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of APRFITB):

AJ2PAY	AFIYRDI	APRFITB	APAYGU	APAYNU	APAYGTY
APAYGLY	APAYNTY	APAYNLY	AJSPROF	AJSPAYG	AFIMNP
AFIMNB	AFIMNI	AFIMNT	AFIMNNL	AFIMNL	AFIMN
AFIYRL	AFIYRNL	AFIYRP	AFIYRB	AFIYRT	AFIYRI
AFIYR	ASPPAYG	AFIHHMN			

The following imputation flag variables were added:

AJ2PAYI	AFIYRDI	APRFITBI	APAYGUI	APAYNUI	APAYGT
APAYGLI	APAYNTI	APAYNLI	AJSPROFI	AJSPAYGI	AFIMNP
AFIMNBI	AFIMNII	AFIMNTI	AFIMNLI	AFIMNLI	AFIMNTH
AFIYRLI	AFIYRNL	AFIYRPI	AFIYRBI	AFIYRTI	AFIYRI
AFIYEARI	ASPPAYGI	AFIHHMNI			

See Section V for a full discussion of imputation.

Record Type **AJOBHIST**

This record contains information from the employment history over the period from 1st September 1990 to the date of interview. There is one record for each spell identified at question J5, with job characteristic information from questions J6 to J89 appended where relevant. These records will only exist for respondents whose current labour force spell began after 1.9.1990. The additional key AJSPNO, identifies the sequence of job spell, with the most recent first. (See *Table 6*)

Derived variables are those from AJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (AJHSTAT=1), then the values for AJHSIC AJHSECT and AJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

AJHGPAY AJHNPAY

The following imputation flag variables were added:

AJHGPAYI AJHNPAYI

See *Section V* for a full discussion of imputation.

Note that for 62 employment history spells, employment status was undefined. These are mainly spells generated because the subsequent spell did not begin before 1.9.90. A status and pay level is imputed for these spells, but is not included on this record, but rather contributes to the computation of AFIYRL and APAYGLY, and is flagged there.

Table 6 Variable Name to Question Number Index on Job History Record (AJOBHIST)

AJSPNO (spell no.)	AJHSTAT	AJHBGD AJHBGM AJHBGY	AJHSOC	AJHPLDF	AJHSIC	AJHSIZE	AJHMNGR	AJHSEMP	AJHBOSS
1st (most recent)	AJ5A/ AJ6ASC	AJ5B(-D-M-Y) AJ6A(-M-Y)	AJ6B	AJ8	AJ9A/11A	AJ9B/14	AJ10/12	AJ11B	AJ11C
2nd	AJ21A	AJ21A	AJ21B	AJ23	AJ24A/26A	AJ24B/29	AJ25/27	AJ26B	AJ26C
3rd	AJ35A	AJ35A	AJ35B	AJ37	AJ38A/40A	AJ38B/43	AJ39/41	AJ40B	AJ40C
4th	AJ49A	AJ49A	AJ49B	AJ51	AJ52A/54A	AJ52B/57	AJ53/55	AJ54B	AJ54C
5th	AJ63A	AJ63A	AJ63B	AJ65	AJ66A/68A	AJ66B/71	AJ67/69	AJ68B	AJ68C
6th	AJ77A	AJ77A	AJ77B	AJ79	AJ80A/82A	AJ80B/85	AJ81/82	AJ82B	AJ82C

AJSPNO (spell no.)	AJHSECT	AJHA990	AJHPAY0	AJHPY0W	AJHPY0G	AJHPAYS	AJHPYSW	AJHPYSG	AJHSTPY	AJBLKY
1st (most recent)	AJ13	AJ15	AJ16A	AJ16B	AJ16C	AJ17A	AJ17B	AJ17C	AJ18	AJ19
2nd	AJ28	AJ30	AJ31A	AJ31B	AJ31C	AJ32A	AJ32B	AJ32C	AJ33	
3rd	AJ42	AJ44	AJ45A	AJ45B	AJ45C	AJ46A	AJ46B	AJ46C	AJ47	
4th	AJ56	AJ58	AJ59A	AJ59B	AJ59C	AJ60A	AJ60B	AJ60C	AJ61	
5th	AJ70	AJ72	AJ73A	AJ73B	AJ73C	AJ74A	AJ74B	AJ74C	AJ75	
6th	AJ84	AJ86	AJ87A	AJ87B	AJ87C	AJ88A	AJ88B	AJ88C	AJ89	

Record Type AINCOME

This Record contains income and payment data. There is one record for each payment recorded at question F3. This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where ANF1 is greater than 0). For each payment identified at question F1 (i.e. in variables AF101 - AF159) then there will exist at least one AINCOME Record with a corresponding value of AFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, AINCOME Records will exist for each source, but the variables ANFR or AFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another Record.

AFIM09L - AFIM12T are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. The code constructing all these variables is in the procedure M1DV.AFIM.

The following variables have all missing data imputed:

AFRVAL AFIM09L to AFIM12T

Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

See *Section V* for a full discussion of imputation.

Record Type AEGOALT

This Record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if APNO = 1 and AOPNO = 3 and AREL = 4 (natural child)) then person 3 is the natural child of person 1.

This Record provides a means of identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to identify separately the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if APNO = 1 and AOPNO = 3 and AREL = 4 (natural child)) then person 3 is the natural child of person 1).

III.12. WAVE TWO: Record Types and Wave Specific Information

III.12.1. Record Types : Wave Two

Record Type BHHSAMP

BHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See *Section IV* for a detailed description of the fieldwork process.)

Respondent households, for which records BHHRESP etc. will exist, may be identified from the variable BIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One.

Derived and additional variables are those from BXHWGHT onwards.

This Record also contains variables which allow households which were part of the inter-penetrating sample experiment to be identified (See *Section IV*).

Record Type **BINDSAMP**

This Record contains individual level variables derived from the Household Cover sheet. The Record is keyed on BHID and BPNO. There will be one BINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one BINDSAMP Record, if they were understood to have moved. The variable BFINLOC enables the last household where the sample member was expected to be found to be identified.

This Record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type **BINDALL**

This Record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This Record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding BINDRESP Record exists may be identified from the variable BIVFIO (individual interview outcome).

Derived and additional variables are those from BAGE onwards.

See *Section V* for a full discussion of the use of the weights contained on this Record Type.

Record Type **BHHRESP**

This Record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

For the 6 households with response code 41 - 'proxy taken at Wave One address' the BHHRESP record will exist, and will consist entirely of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable BHHDC.

Derived and additional variables are those from BHHDC onwards. Of these, BXHWGHT BREGION and BLADISTC are direct copies of variables on Record BHHSAMP.

The following variables have data imputed for all missing cases:

BMGNEW	BXPMG	BRENT	BRENTG	BXPHSN	BXPHSG
BFIHHMN	BFIHHML	BFIHHMNL	BFIHHMP	BFIHHMB	BFIHHMT
BFIHHMI	BFIHHYR	BFIHHYL	BFIHHYNL	BFIHHYP	BFIHHYB
BFIHHYT	BFIHHYI				

The following imputation flag variables have been added:

BMGNEWI	BXPMGI	BRENTI	BRENTGI	BXPHSNI	BXPHSG
BFIHHMNI	BFIHHMLI	BFIHMNLI	BFIHHMPI	BFIHHMBI	BFIHHMT
BFIHHMII	BFIHHYRI	BFIHHYLI	BFIHHYNI	BFIHHYPI	BFIHHYB
BFIHHYTI	BFIHHYI				

Record Type **BINDRESP**

This Record contains individual data from full and proxy questionnaires. Data from the Household Composition Form are also copied to this Record. Proxy respondents may be distinguished from main questionnaire respondents on the basis of the variable BIVFIO.

Proxy data are copied to equivalent full questionnaire variables. Where there is no equivalent variable, proxy values are set to -7 (inapplicable). The variables BPRRS2I BPRIPN BPRWHY BPRFEHQ

BPRSEHQ BPRFITB BPRJBFT etc correspond to questions in the proxy questionnaire which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on Record BJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on Record BINCOME.

Derived and additional copied variables are those from BIVFIO to BREGION and from BHGR2R onwards. The variables BREGION BHHSIZE BHHTYPE BTENURE and BFIHHMN are copied from Record BHHRESP. The variables BIVFIO BIODC and BHGR2R to BHOH are copied from Record BINDALL.

The following variables have data imputed for all missing cases (note that proxy cases do not have imputed values except in the case of BPRFITB):

BJ2PAY	BFIYRDI	BPRFITB	BPAYGU	BPAYNU	BPAYGTY
BPAYGLY	BPAYNTY	BPAYNLY	BJSPROF	BJSPAYG	BFIMNP
BFIMNB	BFIMNI	BFIMNT	BFIMNNL	BFIMNL	BFIMN
BFIYRL	BFIYRNL	BFIYRP	BFIYRB	BFIYRT	BFIYRI
BFIYR	BSPPAYG	BFIHHMN			

The following imputation flag variables have been added:

BJ2PAYI	BFIYRDI	BPRFITBI	BPAYGUI	BPAYNUI	BPAYGT
BPAYGLI	BPAYNTI	BPAYNLI	BJSPROFI	BJSPAYGI	BFIMNP
BFIMNBI	BFIMNII	BFIMNTI	BFIMNLI	BFIMNLI	FIMNTH
BFIYRLI	BFIYRNLI	BFIYRPI	BFIYRBI	BFIYRTI	BFIYRI
BFIYEARI	BSPPAYGI	BFIHHMNI			

Record BJOBHIST

This record contains information from the employment history over the period from 1st September 1991 to the date of interview. There is one record for each spell identified at question J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.1991. The additional key BJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from BJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (BJHSTAT=1), then the values for BJHSIC BJHSECT and BJHSIZE are copied from the relevant record.

There is no special table detailing question source and Record structure for this Record (as there was for AJOBHIST) as the record structure mirrors the Questionnaire structure.

The following variables have all missing data imputed:

BJHGPAI	BJHNPAYI
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Imputation flag variables are listed below.

BJHGPAI	BJHNPAYI
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Record Type BINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where BNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables BF101 - BF159) then there will exist at least one BINCOME record with a corresponding value of BFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, BINCOME records will exist for each source, but the variables BNFR or BFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

BFIML01 - BFIMN01 are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable BFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M2DV.BFIM.

The following variables have all missing data imputed:

BFRVAL BFIM09L to BFIM01N

Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

BFRVALI (This also implies imputation on BFIM09L to BFIM12T)

Record Type BEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if BPNO = 1 and BOPNO = 3 and BREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable BLWSTAT allows the computation of household composition change measures since Wave One, and BNWSTAT composition change between Wave Two and Wave Three

Record Type BMARRIAG

This record contains one record for each reported legal marriage. It is keyed on BHID, BPNO and BMARNO. The sequence of BMARNO reflects the questionnaire structure. The current or most recent marriage is always keyed as BMARNO = 4. Records with BMARNO = 1, 2 or 3 will exist if there were one or more previous marriages. Thus the record with the key value BMARNO = 1 corresponds to questions L4 to L10, the record with key value 2 corresponds to L12 to L18, the record with key value 3 corresponds to L20 to L26, and the record with key value 4 corresponds to L27 to L34. The variable BMRMSEQ contains the sequence number of the most recent marriage (e.g. if BMRMSEQ on record where BMARNO eq 4 is equal to 1, then the most recent marriage is the first marriage).

This record also contains information on cohabitation spells with the same partner which may have preceded marriage.

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave One or Wave Two, contained in Record Types AINDALL, BINDALL, AEGOALT and BEGOALT.

See entry for BLIFEMST (below) for a discussion of season codes.

Table 7 indicates the question sources for variables on this Record Type and details the Record Structure.

Record Type BCOHABIT

This record contains information about each cohabitation spell outside legal marriage which the respondent has ever had, excepting those which preceded marriages, for which the information is contained on record BMARRIAG. There is a separate record for each spell reported at questions L38 and L39.

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave One or Wave Two, contained in Record Types AINDALL, BINDALL, AEGOALT and BEGOALT.

See entry for BLIFEMST (below) for a discussion of season codes.

Record Type BCHILDAD

This record contains information about the children respondent has either adopted, or for whom they have acted as step-parent, and the periods when they resided with the respondent. There is one record for each child reported in answer to question L41.

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave One or Wave Two, contained in Record Types AINDALL, BINDALL, AEGOALT and BEGOALT.

See entry for BLIFEMST (below) for a discussion of season codes.

Record Type BCHILDNT

This record contains information about natural children respondent has ever had or fathered, and the periods when they resided with the respondent. There is one record for each child reported in answer to question L44

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave One or Wave Two, contained in Record Types AINDALL, BINDALL, AEGOALT and BEGOALT.

See entry for BLIFEMST (below) for a discussion of season codes.

Record Type BLIFEMST

This record contains information about employment status spells in the period since the respondent first left full time education. There is one record for each spell reported in answer to questions L50, L51 and L52. The record contains end date for each spell except the final spell which should be recorded as not ended. The start date for each spell and the spell length in months are included as derived variables.

While data collected here may have been compared with the single year job history information to resolve internal ambiguities, there has been no attempt to enforce consistency between data collected here and that contained in the records AJOBHIST, BJOBHIST etc.

Season codes were used when the respondent could not remember exact month. In the calculation of spell length it was assumed, by convention, that winter would be coded as January, spring as April, summer as July and Autumn as October. However where these season codes are used in a spell which starts and finishes in the same calendar year, the length is set to -3, indicating less than 12 months but exact length indeterminate.

III.12.2. Wave Two Specific Usage Notes

Voting

There are two types of question on voting:

1. party identification in Waves One and Two:

AVOTE1 AVOTE2 AVOTE3 BVOTE1 BVOTE2

2. actual vote in the April 1992 General Election in Wave Two:

BVOTE8

AVOTE is a derived variable combining responses to AVOTE4 (triggered by AVOTE1-2), and AVOTE3. Users should be aware that it does not, therefore, reproduce the difference in strength of party support

measured by responses to these separately. AVOTE3 ("which party would you vote for?") cannot be compared to BVOTE8 ("which party did you vote for?"), as it is only asked of those not responding to AVOTE1-2.

Marriage History

As explained in the discussion of Record Type BMARRIAG above, data from the marriage history (questions L4 to L34 at Wave two) have been re-structured as a set of separate records. The records are keyed on BHID, BPNO and BMARNO. It is important to note that BMARNO is not the sequence number of the marriage within the respondent's life, but rather reflects the questionnaire structure, so that the most recent marriage always has a BMARNO value of 4. The variable BMRMSEQ indicates the sequence number of this marriage within the respondent's life. See *Table 7* for an indication of question sources for variables and an outline of the record structure.

Table 7

Variable Name to Question Number Index on Lifetime Marital History Record (BMARRIAG)

BMARNO	BLMARM	BLMARY	BMPNO	BLMCOH	BLMCBM	BLMCBY	BLMEND	BLMWWM	BLMWWY	BLMDVM	BLMDVY	BLMSPM	BLMSPY
1st (if more than one)	BL4M	BL4Y		BL5	BL6M	BL6Y	BL7	BL8M	BL8Y	BL9M	BL9Y	BL10M	BL10Y
2nd (if more than two)	BL12M	BL12Y		BL13	BL14M	BL14Y	BL15	BL16M	BL16Y	BL17M	BL17Y	BL18M	BL18Y
3rd (if more than three)	BL20M	BL20Y		BL21	BL22M	BL22Y	BL23	BL24M	BL24Y	BL25M	BL25Y	BL26M	BL26Y
4th or Current or most recent	BL27M	BL27Y	BL28	BL29	BL30M	BL30Y	BL31	BL32M	BL32Y	BL33M	BL33Y	BL34M	BL34Y

III.13. WAVE THREE: Record Types and Wave Specific Information

III.13.1. Record Types: Wave Three

Record Type CHHSAMP

Record Type CHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See *Section IV* for a detailed description of the fieldwork process.)

Respondent households, for which records CHHRESP etc will exist may be identified from the variable CIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One and at Wave Two.

Derived and additional variables are those from CXHWGHT onwards.

Record Type CINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on CHID and CPNO. There will be one CINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one CINDSAMP record, if they were understood to have moved. The variable CFINLOC enables the last household where the sample member was expected to be found to be identified.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type CINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This Record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding CINDRESP record exists may be identified from the variable CIVFIO (individual interview outcome).

Derived and additional variables are those from CAGE onwards.

See the *Section V* for a full discussion of the use of the weights contained on this Record Type.

Record Type CHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have CHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the CHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable CHHDC.

Derived and additional variables are those from CHHDC onwards. Of these, CXHWGHT CREGION and CLADISTC are direct copies of variables on record CHHSAMP.

The following variables have data imputed for all missing cases:

CMGNEW	CXPMG	CHSVAL	CRENT	CRENTG	CXPHSN
CXPHSG	CFIHHMN	CFIHHML	CFIHHMNL	CFIHHMP	CFIHHMB
CFIHHMT	CFIHHMI	CFIHHYR	CFIHHYL	CFIHHYNL	CFIHHYP

CFIHHYB CFIHHYT CFIHHYI

See *Section V* for a full discussion of imputation. Imputation flag variables are listed below:

CMGNEWI	CXPMGI	CHSVALI	CRENTI	CRENTGI	CXPHSNI
CXPHSGI	CFIHHMNI	CFIHHMLI	CFIHMNLI	CFIHHMPI	CFIHHMBI
CFIHHMTI	CFIHHMII	CFIHHYRI	CFIHHYLI	CFIHHYNI	CFIHHYPI
CFIHHYBI	CFIHHYTI	CFIHHYII			

Record Type CINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form are also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable CIVFIO.

Proxy and telephone data are copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The proxy variables CPRRS2I CPRIPN CPRWHY CPRFEHQ CPRSEHQ CPRFITB CPRJBFT CTELWHY CPRESBFM CPRESBGY CPRESBLY CPRFI01 CPRFI02 CPRFI16 CPRFI31 CPRFI34 CPRFI35 CPRFI37 CPRFI39 CPRFI41 CPRFIRN CPREARN CPRJBBGM CPRJBBFY CPRJBLY correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record CJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record CINCOME.

Derived and additional copied variables are those from CIVFIO to CREGION and from CHGR2R onwards. The variables CREGION CHHSIZE CHHTYPE CTENURE and CFIHHMN are copied from record CHHRESP. The variables CIVFIO CIODC and CHGR2R to CHOH are copied from record CINDALL.

The following variables have data imputed for all missing cases (note that proxy cases do not have imputed values except in the case of CPRFITB):

CJ2PAY	CFIYRDI	CPRFITB	CPAYGU	CPAYNU	CPAYGTY
CPAYGLY	CPAYNTY	CPAYNLY	CJSPROF	CJSPAYG	CFIMNP
CFIMNB	CFIMNI	CFIMNT	CFIMNNL	CFIMNL	CFIMN
CFIYRL	CFIYRNL	CFIYRP	CFIYRB	CFIYRT	CFIYRI
CFIYR	CSPPAYG	CFIHHMN			

See the *Section V* for a full discussion of imputation. Imputation flag variables are listed below.

CJ2PAYI	CFIYRDII	CPRFITBI	CPAYGUI	CPAYNUI	CPAYGTI
CPAYGLI	CPAYNTI	CPAYNLI	CJSPROFI	CJSPAYGI	CFIMNPI
CFIMNBI	CFIMNII	CFIMNTI	CFIMNNLI	CFIMNLI	CFIMNTHI
CFIYRLI	CFIYRNLI	CFIYRPI	CFIYRBI	CFIYRTI	CFIYRII
CFIYEARI	CSPPAYGI	CFIHHMNI			

Record Type CJOBHIST

This record contains information from the employment history over the period from 1st September 1992 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.1992. The additional key CJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from CJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (CJHSTAT=1), then the values for CJHSIC CJHSECT and CJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

CJHGPAY CJHNPAY

See *Section V* for a full discussion of imputation. Imputation flag variables are listed below.

CJHGPAYI CJHNPAYI

Record Type CINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where CNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables CF101 - CF159) then there will exist at least one CINCOME record with a corresponding value of CFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, CINCOME records will exist for each source, but the variables CNFR or CFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

CFIM01L - CFIM01N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable CFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M2DV.CFIM.

The following variables have all missing data imputed:

CFRVAL CFIM09L to CFIM01N

See *Section V* for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

CFRVALI (This also implies imputation on CFIM09L to CFIM12T)

Record Type CEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if CPNO = 1 and COPNO = 3 and CREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable CLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type CLIFEJOB

This record contains information about jobs held in employment spells in the period since the respondent first left full time education up to the beginning of data collection in the main panel - i.e. 1st September 1990. There is one record for each spell reported in answer to questions L5 to L13. The definition of a job spell in this record type is different from that used in wINDRESP and wJOBHIST: here a job spell corresponds to a continuous spell with a single employer, while in the main panel data spells may also be defined by changes in occupation or promotions while working with the same employer. An additional spell from the responses to questions L14 to L17 is generated, if the respondent started work with their current employer before 1.9.90. Note that, for this spell the date and occupational information may be different from that collected in the employment section about the current job, since the information there relates to start of the current job, and respondents may have done more than one job in a single spell with the same employer.

The final record of this type for each individual may be one of three different kinds: a) a generated present employer record as indicated above; b) a completed record where this was the last job the respondent has had to date, and this began before 1.9.90 and has finished; c) a record containing only status and start date, where the job began after 1.9.90. In this last case further information about this job and any subsequent jobs held by the respondent will be contained in the main panel record types (e.g. AINDRESP or AJOBHIST). The type of last record is indicated by the variable CLJENST. This information is also contained in the variable CLJRST on record type CINDRESP.

The CLIFEJOB records have been checked to ensure that the spell sequence (indicated by CLJSEQ) is in ascending order of start dates. However there is some multiple job holding reported, so job spells may overlap, and end dates may not be consistently in order.

No attempt has been made to enforce consistency with the lifetime employment status history collected at wave two, and contained in record type BLIFEMST. However this history was available to the respondent, and the variable CLJESFV on record type CINDRESP indicates whether the respondent believed this to be correct. In this case, the variable CLJESFN will indicate the number of the employment status spell which should correspond to this record (=BLESHNO on record type BLIFEMST). Respondents may have held more than one job in a single employment status spell, and hence there may be more than one CLIFEJOB record corresponding to the period covered by a single BLIFEMST record. In the employment status history, full-time and part-time spells were distinguished. It is therefore possible in a limited number of cases that a single CLIFEJOB record may correspond to the period of more than one BLIFEMST record.

III.14. WAVE FOUR: Record Types and Wave Specific Information

III.14.1. Record Types: Wave Four

Record Type DHHSAMP

Record Type DHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records DHHRESP etc will exist may be identified from the variable DIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One and at Wave Two.

Derived and additional variables are those from DXHWGHT onwards.

Record Type DINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on DHID and DPNO. There will be one DINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one DINDSAMP record, if they were understood to have moved. The variable DFINLOC enables the last household where the sample member was expected to be found to be identified.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type DINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding DINDRESP record exists may be identified from the variable DIVFIO (individual interview outcome).

Derived and additional variables are those from DAGE onwards.

See the User Documentation for a full discussion of the use of the weights contained on this record type.

Record Type DHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have DHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the DHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable DHHDC.

Derived and additional variables are those from DHHDC onwards. Of these, DXHWGHT DREGION and DLADISTC are direct copies of variables on record DHHSAMP.

The following variables have data for all missing cases imputed:

DMGNEW	DXPMG	DHSVAL	DRENT	DRENTG	DXPHSN
DXPHSG	DFIHHMN	DFIHHML	DFIHHMNL	DFIHHMP	DFIHHMB
DFIHHMT	DFIHHMI	DFIHHYR	DFIHHYL	DFIHHYNL	DFIHHYP
DFIHHYB	DFIHHYT	DFIHHYI			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below:

DMGNEWI	DXPMGI	DHSVALI	DRENTI	DRENTGI	DXPHSNI
DXPHSGI	DFIHHMNI	DFIHHMLI	DFIHHMNI	DFIHHMPI	DFIHHMBI
DFIHHMTI	DFIHHMII	DFIHHYRI	DFIHHYLI	DFIHHYNI	DFIHHYPI
DFIHHYBI	DFIHHYTI	DFIHHYI			

Record Type DINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable DIVFIO.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables DPRRS2I DPRIPN DPRWHY DPRFEHQ DPRSEHQ DPRFITB DPRJBFT DTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

A new set of variables this wave, DYPPAR to DPYHLF3, arise from questions for parents of children aged 11-15. They are primarily intended for use in conjunction with the data collected from the young person's questionnaire contained in record type DYOUTH. The variables DPYWHR1 to DPYHLF3 contain responses concerning specific children. They may be matched to the relevant child through the variables DPYPNO1, DPYPNO2 and DPYPNO3.

Data from the job history are contained on record DJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record DINCOME.

Derived and additional copied variables are those from DIVFIO to DREGION and from DHGR2R onwards. The variables DREGION DHHSIZE DHHTYPE DTENURE and DFIHHMN are copied from record DHHRESP. The variables DIVFIO DIODC and DHGR2R to DHOH are copied from record DINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of DPRFITB):

DJ2PAY	DFIYRDI	DPRFITB	DPAYGU	DPAYNU	DPAYGTY
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DPAYGLY	DPAYNTY	DPAYNLY	DJSPROF	DJSPAYG	DFIMNP
DFIMNB	DFIMNI	DFIMNT	DFIMNNL	DFIMNL	DFIMN
DFIYRL	DFIYRNL	DFIYRP	DFIYRB	DFIYRT	DFIYRI
DFIYR	DSPPAYG	DFIHHMN			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

DJ2PAYI	DFIYRDII	DPRFITBI	DPAYGUI	DPAYNUI	DPAYGTI
DPAYGLI	DPAYNTI	DPAYNLI	DJSPROFI	DJSPAYGI	DFIMNPI
DFIMNBI	DFIMNII	DFIMNTI	DFIMNNLI	DFIMNLI	FIMNTHI
DFIYRLI	DFIYRNLI	DFIYRPI	DFIYRBI	DFIYRTI	DFIYRII
DFIYEARI	DSPPAYGI	DFIHHMNI			

Record Type DJOBHIST

This record contains information from the employment history over the period from 1st September 1993 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.1992. The additional key DJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from DJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (DJHSTAT=1), then the values for DJHSIC DJHSECT and DJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

DJHGPAY	DJHNPAY
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See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

DJHGPAYI	DJHNPAYI
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Record Type DINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where DNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables DF101 - DF159) then there will exist at least one DINCOME record with a corresponding value of DFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, DINCOME records will exist for each source, but the variables DNFR or DFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

DFIM01L - DFIM01N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable DFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M4DV.DFIM.

The following variables have all missing data imputed:

DFRVAL	DFIM09L to DFIM01N
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See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

DFRVALI (This also implies imputation on DFIM09L to DFIM12T)

Record Type DEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if DPNO = 1 and DOPNO = 3 and DREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable DLWSTAT allows the computation of household composition change measures since Wave Three. DNWSTAT allows computation of household change measures between Wave Four and Wave Five.

Record Type DYOUTH

This record type contains the responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 1994. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable DIVFIO. The variable DYPWGHT contains an individual cross-sectional weight to be used specifically with the youth responses. The contains the normal key variables DHID and DPNO, and children may be matched to information about their parents through the record DEGOALT. See the note to record type DINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents.

Cooperating young person respondents will have a value of 21 on the interview outcome variable DIVFIO, on record type DINDALL.

III.15. WAVE FIVE: Record Types and Wave Specific Information

Record Type EHHSAMP

Record Type EHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.) Respondent households, for which records EHHRESP etc will exist may be identified from the variable EIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One and at Wave Two.

Derived and additional variables are those from EXHWGHT onwards.

Record Type EINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on EHID and EPNO. There will be one EINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one EINDSAMP record, if they were understood to have moved. The variable EFINLOC enables the last household where the sample member was expected to be found to be identified.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type EINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding EINDRESP record exists may be identified from the variable EIVFIO (individual interview outcome).

Derived and additional variables are those from EAGE onwards.

Record Type EHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 16 'telephone interview only' will have EHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 15 - 'proxy taken at Wave One address' the EHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable EHHDC.

Derived and additional variables are those from EHHDC onwards. Of these, EXHWGHT EREGION and ELADISTC are direct copies of variables on record EHHSAMP.

The following variables have data for all missing cases imputed:

EMGNEW	EXPMG	EHSVAL	ERENT	ERENTG	EXPHSN
EXPHSG	EFIHHMN	EFIHHML	EFIHHMNL	EFIHHMP	EFIHHMB
EFIHHMT	EFIHHMI	EFIHHYR	EFIHHYL	EFIHHYNL	EFIHHYP
EFIHHYB	EFIHHYT	EFIHHYI			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below:

EMGNEWI	EXPMGI	EHSVALI	ERENTI	ERENTGI	EXPHSNI
EXPHSGI	EFIHHMNI	EFIHHMLI	EFIHMNLI	EFIHHMPI	EFIHHMBI
EFIHHMTI	EFIHHMII	EFIHHYRI	EFIHHYLI	EFIHHYNI	EFIHHYPI
EFIHHYBI	EFIHHYTI	EFIHHYI			

Record Type EINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable EIVFIO.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables EPRRS2I EPRIPN EPRWHY EPRFEHQ EPRSEHQ EPRFITB EPRJBFT ETELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

The variables EYPPAR to EPYSTS3 arise from questions for parents of children aged 11-15. They are primarily intended for use in conjunction with the data collected from the young person's questionnaire contained in record type EYOUTH. The variables with final digit 1, 2 or 3 contain responses concerning specific children. They may be matched to the relevant child through the variables EPYPNO1, EPYPNO2 and EPYPNO3 which contain the EPNO of the relevant child.

Data from the job history are contained on record EJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record EINCOME.

Derived and additional copied variables are those from EIVFIO to EREGION and from EHGR2R

onwards. The variables EREGION EHHSIZE EHHTYPE ETENURE and EFIHHMN are copied from record EHHRESP. The variables EIVFIO EIODC and EHGR2R to EHOH are copied from record EINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of EPRFITB):

EJ2PAY	EFIYRDI	EPRFITB	EPAYGU	EPAYNU	EPAYGTY
EPAYGLY	EPAYNTY	EPAYNLY	EJSPROF	EJSPAYG	EFIMNP
EFIMNB	EFIMNI	EFIMNT	EFIMNLI	EFIMNL	EFIMN
EFIYRL	EFIYRNL	EFIYRP	EFIYRB	EFIYRT	EFIYRI
EFIYR	ESPPAYG	EFIHHMN			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

EJ2PAYI	EFIYRDII	EPRFITBI	EPAYGUI	EPAYNUI	EPAYGTI
EPAYGLI	EPAYNTI	EPAYNLI	EJSPROFI	EJSPAYGI	EFIMNPI
EFIMNBI	EFIMNII	EFIMNTI	EFIMNLI	EFIMNLI	FIMNTHI
EFIYRLI	EFIYRNLI	EFIYRPI	EFIYRBI	EFIYRTI	EFIYRII
EFIYEARI	ESPPAYGI	EFIHHMNI			

Record Type **EJOBHIST**

This record contains information from the employment history over the period from 1st September 1993 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.1994. The additional key EJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from EJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (EJHSTAT=1), then the values for EJHSIC EJHSECT and EJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

EJHGPAY	EJHNPAY
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See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

EJHGPAYI,	EJHNPAYI
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Record Type **EINCOME**

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where ENF1 is greater than 0). For each payment identified at question F1 (i.e. in variables EF101 - EF159) then there will exist at least one EINCOME record with a corresponding value of EFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, EINCOME records will exist for each source, but the variables ENFR or EFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

EFIM01L - EFIM01N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable EFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M5DV.EFIM.

The following variables have all missing data imputed:

EFRVAL EFIM09L to EFIM01N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

EFRVALI (This also implies imputation on EFIM09L to EFIM12T)

Record Type EEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if EPNO = 1 and EOPNO = 3 and EREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable ELWSTAT allows the computation of household composition change measures since Wave Two.

Record Type EYOUTH

This record type contains the responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 1995. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable EIVFIO. The variable EYPWGHT contains an individual cross-sectional weight to be used specifically with the youth responses. The record contains the normal key variables EHID and EPNO, and children may be matched to information about their parents through the record EEGOALT. See the note to record type EINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents.

Cooperating young person respondents will have a value of 21 on the interview outcome variable EIVFIO, on record type EINDALL.

III.16. WAVE SIX: Record Types and Wave Specific Information

Record Type FHHSAMP

Record Type FHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records FHHRESP etc will exist may be identified from the variable FIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One.

Derived and additional variables are those from FXHWGHT onwards.

Record Type FINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on FHID and FPNO. There will be one FINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one FINDSAMP record, if they were understood to have moved. The variable FFINLOC enables the last household where the sample member was expected to be found to be identified.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type FINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding FINDRESP record exists may be identified from the variable FIVFIO (individual interview outcome).

Derived and additional variables are those from FAGE onwards.

See the User Documentation for a full discussion of the use of the weights contained on this record type.

Record Type FHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have FHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 15 - 'proxy taken at Wave One address' the FHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable FHHDC.

Derived and additional variables are those from FHHDC onwards. Of these, FXHWGHT FREGION and FLADISTC are direct copies of variables on record FHHSAMP.

The following variables have data for all missing cases imputed:

FMGNEW	FXPMG	FHSVAL	FRENT	FRENTG	FXPHSN
FXPHSG	FFIHHMN	FFIHHML	FFIHHMNL	FFIHHMP	FFIHHMB
FFIHHMT	FFIHHMI	FFIHHYR	FFIHHYL	FFIHHYNL	FFIHHYP
FFIHHYB	FFIHHYT	FFIHHYI			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below:

FMGNEWI	FXPMGI	FHSVALI	FRENTI	FRENTGI	FXPHSNI
FXPHSGI	FFIHHMNI	FFIHHMLI	FFIHMNLI	FFIHHMPI	FFIHHMBI
FFIHHMTI	FFIHHMII	FFIHHYRI	FFIHHYLI	FFIHHYNI	FFIHHYPI
FFIHHYBI	FFIHHYTI	FFIHHYI			

Record Type FINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable FIVFIO.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables FPRRS2I FPRIPN FPRWHY FPRFEHQ FPRSEHQ FPRFITB FPRJBFT FTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

The variables FYPPAR to FPYSTS3 arise from questions for parents of children aged 11-15. They are primarily intended for use in conjunction with the data collected from the young person's questionnaire contained in record type FYOUTH. The variables with final digit 1, 2 or 3 contain responses concerning specific children. They may be matched to the relevant child through the variables FPYPNO1,

FPYPNO2 and FPYPNO3 which contain the FPNO of the relevant child.

Data from the job history are contained on record FJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record FINCOME.

Derived and additional copied variables are those from FIVFIO to FREGION and from FHGR2R onwards. The variables FREGION FHHSIZE FHHTYPE FTENURE and FFIHNMN are copied from record FHHRESP. The variables FIVFIO FIODC and FHGR2R to FHOH are copied from record FINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of FPRFITB):

FJ2PAY	FFIYRDI	FPRFITB	FPAYGU	FPAYNU	FPAYGTY
FPAYGLY	FPAYNTY	FPAYNLY	FJSPROF	FJSPAYG	FFIMNP
FFIMNB	FFIMNI	FFIMNT	FFIMNLI	FFIMNL	FFIMN
FFIYRL	FFIYRNL	FFIYRP	FFIYRB	FFIYRT	FFIYRI
FFIYR	FSPPAYG	FFIHHMN			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

FJ2PAYI	FFIYRDI	FPRFITBI	FPAYGUI	FPAYNUI	FPAYGTI
FPAYGLI	FPAYNTI	FPAYNLI	FJSPROFI	FJSPAYGI	FFIMNPI
FFIMNBI	FFIMNII	FFIMNTI	FFIMNLI	FFIMNLI	FIMNTHI
FFIYRLI	FFIYRNLI	FFIYRPI	FFIYRBI	FFIYRTI	FFIYRII
FFIYEARI	FSPPAYGI	FFIHHMNI			

Record Type FJOBHIST

This record contains information from the employment history over the period from 1st September 1993 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.1993. The additional key FJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from FJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (FJHSTAT=1), then the values for FJHSIC FJHSECT and FJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

FJHGPAY	FJHNPAY
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See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

FJHGPAYI	FJHNPAYI
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Record Type FINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where FNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables FF101 - FF159) then there will exist at least one FINCOME record with a corresponding value of FFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, FINCOME records will exist for each source, but the variables FNFR or FFRVAL may indicate that multiple amounts are referred to, or that the amount is

given on another record.

FFIM01L - FFIM01N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable FFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M2DV.CFIM.

The following variables have all missing data imputed:

FFRVAL FFIM09L to FFIM01N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

FFRVALI (This also implies imputation on FFIM09L to FFIM12T)

Record Type FEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if FPNO = 1 and FOPNO = 3 and FREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable FLWSTAT allows the computation of household composition change measures since Wave Five.

Record type FYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 1996. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable FIVFIO. The variable FYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. The record contains the normal key variables FHID and FPNO, and children may be matched to their parents through the record FEGOALT. See the note to the record type FINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents.

III.17. WAVE SEVEN: Record Types and Wave Specific Information

Record Type GHHSAMP

Record Type GHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records GHHRESP etc will exist may be identified from the variable GIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the former ECHP sample can be identified from the variable GHHORIG.

Derived and additional variables are those from GXHWGHT onwards.

Record Type GINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on GHID and GPNO. There will be one GINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move

uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one GINDSAMP record, if they were understood to have moved. The variable GFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the former ECHP sample can be identified from the variable GMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type GINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding GINDRESP record exists may be identified from the variable GIVFIO (individual interview outcome). Cases, new at this wave, from the former ECHP sample can be identified from the variable GMEMORIG.

Derived and additional variables are those from GAGE onwards.

See the User Documentation for a full discussion of the use of the weights contained on this record type.

Record Type GHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have GHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the GHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable GHHDC. Cases, new at this wave, from the former ECHP sample can be identified from the variable GHHORIG.

Derived and additional variables are those from GHHDC onwards. Of these, GXHWGHT GREGION and GLADISTC are direct copies of variables on record GHHSAMP.

The following variables have data for all missing cases imputed:

GMGNEW	GXPMG	GHSVAL	GRENT	GRENTG	GXPHSN
GXPHSG	GFIHHMN	GFIHHML	GFIHHMNL	GFIHHMP	GFIHHMB
GFIHHMT	GFIHHMI	GFIHHYR	GFIHHYL	GFIHHYNL	GFIHHYP
GFIHHYB	GFIHHYT	GFIHHYI			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below:

GMGNEWI	GXPMGI	GHSVALI	GRENTI	GRENTGI	GXPHSNI
GXPHSGI	GFIHHMNI	GFIHHMLI	GFIHMNLI	GFIHHMPI	GFIHHMBI
GFIHHMTI	GFIHHMII	GFIHHYRI	GFIHHYLI	GFIHHYNI	GFIHHYPI
GFIHHYBI	GFIHHYTI	GFIHHYII			

Record Type GINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable GIVFIO.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables GPRRS2I GPRIPN GPRWHY GPRFEHQ GPRSEHQ GPRFITB GPRJBFT GTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record GJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record GINCOME.

Cases, new at this wave, from the former ECHP sample can be identified from the variable GMEMORIG. These cases are all treated as new entrants. The extension of the sample to Northern Ireland implies an extension of the coding frames for newspaper readership and political support questions. In order to provide a bridge to previous ECHP data, the start of the reference period for income and job history data for the sub-sample was 1 January 1996, rather than 1 September 1996 as for the main sample. As a result five new variables were introduced in parallel with main BHPS data, GJBBGLYE (instead of GJBBGLY), GPAYLYE, GPAYLWE, GPAYLGE (for GPAYLY, GPAYLW, GPAYLG), and GCJSBLYE (for GCJSBLY). Values for GJBBGLY and GCJSBLY were also computed for ECHP cases. See also the note to record types GJOBHIST and GINCOME.

Derived and additional copied variables are those from GIVFIO to GREGION and from GHGR2R onwards. The variables GREGION GHHSIZE GHHTYPE GTENURE and GFIHHMN are copied from record GHHRESP. The variables GIVFIO GIODC and GHGR2R to GHOH are copied from record GINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of GPRFITB):

GJ2PAY	GFIYRDI	GPRFITB	GPAYGU	GPAYNU	GPAYGTY
GPAYGLY	GPAYNTY	GPAYNLY	GJSPROF	GJSPAYG	GFIMNP
GFIMNB	GFIMNI	GFIMNT	GFIMNNL	GFIMNL	GFIMN
GFIYRL	GFIYRNL	GFIYRP	GFIYRB	GFIYRT	GFIYRI
GFIYR	GSPPAYG	GFIHHMN			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

GJ2PAYI	GFIYRDII	GPRFITBI	GPAYGUI	GPAYNUI	GPAYGTI
GPAYGLI	GPAYNTI	GPAYNLI	GJSPROFI	GJSPAYGI	GFIMNPI
GFIMNBI	GFIMNII	GFIMNTI	GFIMNNLI	GFIMNLI	FIMNTHI
GFIYRLI	GFIYRNLI	GFIYRPI	GFIYRBI	GFIYRTI	GFIYRII
GFIYEARI	GSPPAYGI	GFIHHMNI			

Record Type GJOBHIST

This record contains information from the employment history over the period from 1st September 1996 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

For the main sample, these records will only exist for respondents whose current labour force spell began after 1.9.1996. Some records relate to members of the ECHP sub-sample, introduced at this wave. These can be identified from the variable GMEMORIG on record type GINDRESP. Some of the records for these cases cover spells which ended before 1.9.96. This is because the ECHP reference period began at 1.1.96, as indicated on the note to record type GINDRESP. These records can be identified from the flag variable GJHEPFLG. The additional key GJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from GJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (GJHSTAT=1), then the values for GJHSIC GJHSECT and GJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

GJHGPAY GJHNPAY

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

GJHGPAYI, GJHNPAYI

Record Type GINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where GNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables GF101 - GF159) then there will exist at least one GINCOME record with a corresponding value of GFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, GINCOME records will exist for each source, but the variables GNFR or GFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

GFIM01L - GFIM01N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable GFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M7DV.CFIM.

Some records will relate to cases from the ECHP sub-sample. These can be identified from the variable GMEMORIG on record type GINDRESP. These cases use a longer reference period, back to January 1996, as indicated on the note to record type GINDRESP. These cases should have valid values for the variables GFREC01 to GFREC08, and also GFIM01L to GFIM08L.

The following variables have all missing data imputed:

GFRVAL GFIM09L to GFIM01N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

GFRVALI (This also implies imputation on GFIM09L to GFIM12T)

Record Type GEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if GPNO = 1 and GOPNO = 3 and GREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable GLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type GYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 1997. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable GIVFIO. The variable GYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. The record contains the normal key variables GHID and GPNO, and children may be

matched to their parents through the record GEGOALT. See the note to the record type GINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents. Children aged 11 to 15 in the ECHP sub-sample were not eligible for the young persons questionnaire at this wave.

III.18. WAVE EIGHT: Record Types and Wave Specific Information

Record Type HHSAMP

Record Type HHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records HHHRESP etc will exist may be identified from the variable HIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the former ECHP sample can be identified from the variable HHHORIG.

Derived and additional variables are those from HXHWGHT onwards.

Record Type HINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on HHID and HPNO. There will be one HINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one HINDSAMP record, if they were understood to have moved. The variable HFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the former ECHP sample can be identified from the variable HMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type HINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding HINDRESP record exists may be identified from the variable HIVFIO (individual interview outcome). Cases, introduced at wave seven, from the former ECHP sample can be identified from the variable HMEMORIG.

Derived and additional variables are those from HAGE onwards.

See the User Documentation for a full discussion of the use of the weights contained on this record type.

Record Type HHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have HHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the HHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable HHHDC. Cases, new at wave seven, from the former ECHP sample can be identified from the variable HHHORIG.

Derived and additional variables are those from HHHDC onwards. Of these, HXHWGHT HREGION and HLADISTC are direct copies of variables on record HHHSAMP.

The following variables have data for all missing cases imputed:

HMGNEW	HXPMG	HHSVAL	HRENT	HRENTG	HXPHSN
HXPHSG	HFIHHMN	HFIHHML	HFIHHMNL	HFIHHMP	HFIHHMB
HFIHHMT	HFIHHMI	HFIHHYR	HFIHHYL	HFIHHYNL	HFIHHYP
HFIHHYB	HFIHHYT	HFIHHYI			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below:

HMGNEWI	HXPMGI	HHSVALI	HRENTI	HRENTGI	HXPHSNI
HXPHSGI	HFIHHMNI	HFIHHMLI	HFIHMNLI	HFIHHMPI	HFIHHMBI
HFIHHMTI	HFIHHMII	HFIHHYRI	HFIHHYLI	HFIHHYNI	HFIHHYPI
HFIHHYBI	HFIHHYTI	HFIHHYI			

Record Type HINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable HIVFIO.

From Wave Eight, the means of collection of data on education, training and qualifications has been restructured, based around full-time education spells and other periods of education and training, and the qualifications associated with these spells. Data from these spells, based on questions D19-D27 and D70-D78, have been 'flattened' with up to two full-time spells, and up to three other spells. Previous wave variables for qualifications attained in the last year wQFX to wQFXN and wQFEDX to wNQFEXK, are retained as derived variables, based on the new data structure. Some specific variables however are dropped since they cannot be computed.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables HPRRS2I HPRIPN HPRWHY HPRFEHQ HPRSEHQ HPRFITB HPRJBFT HTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record HJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record HINCOME.

Cases, new at wave seven, from the former ECHP sample can be identified from the variable HMEMORIG.

Derived and additional copied variables are those from HIVFIO to HREGION and from HHGR2R onwards. The variables HREGION HHHSIZE HHHTYPE HTENURE and HFIHHMN are copied from record HHHRESP. The variables HIVFIO HIODC and HHGR2R to HHOH are copied from record HINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of HPRFITB):

HJ2PAY	HFIYRDI	HPRFITB	HPAYGU	HPAYNU	HPAYGTY
HPAYGLY	HPAYNTY	HPAYNLY	HJSPROF	HJSPAYG	HFIMNP
HFIMNB	HFIMNI	HFIMNT	HFIMNNL	HFIMNL	HFIMN
HFIYRL	HFIYRNL	HFIYRP	HFIYRB	HFIYRT	HFIYRI
HFIYR	HSPPAYG	HFIHHMN			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

HJ2PAYI	HFIYRDII	HPRFITBI	HPAYGUI	HPAYNUI	HPAYGTI
HPAYGLI	HPAYNTI	HPAYNLI	HJSPROFI	HJSPAYGI	HFIMNPI
HFIMNBI	HFIMNII	HFIMNTI	HFIMNLI	HFIMNLI	HIMNTHI
HFIYRLI	HFIYRNLI	HFIYRPI	HFIYRBI	HFIYRTI	HFIYRII
HFIYEARI	HSPPAYGI	HFIHHMNI			

Record Type HJOBHIST

This record contains information from the employment history over the period from 1st September 1997 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.1997. Some records relate to members of the ECHP sub-sample, introduced at wave seven. These can be identified from the variable HMEMORIG on record type HINDRESP. The additional key HJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from HJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (HJHSTAT=1), then the values for HJHSIC HJHSECT and HJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

HJHGPAY HJHNPAY

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

HJHGPAYI, HJHNPAYI

Record Type HINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where HNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables HF101 - HF159) then there will exist at least one HINCOME record with a corresponding value of HFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, HINCOME records will exist for each source, but the variables HNFR or HFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

HFIM01L - HFIM01N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable HFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M8DV.HFIM.

Some records will relate to cases from the ECHP sub-sample, introduced at wave seven. These can be identified from the variable HMEMORIG on record type HINDRESP.

The following variables have all missing data imputed:

HFRVAL HFIM09L to HFIM01N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

hFRVALI (This also implies imputation on HFIM09L to HFIM12T)

Record Type HEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if HPNO = 1 and HOPNO = 3 and HREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable HLWSTAT and HNWSTAT allows the computation of household composition change measures since Wave Two.

Record Type HYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 1998. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable HIVFIO. The variable HYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the ECHP sub-sample. The record contains the normal key variables HHID and HPNO, and children may be matched to their parents through the record HEGOALT. See the note to the record type HINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents. Children aged 11 to 15 in the ECHP sub-sample were eligible for the young persons questionnaire for the first time at this wave.

III.19. WAVE NINE: Record Types and Wave Specific Information

Record Type IHHSAMP

Record Type IHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records IHHRESP etc will exist may be identified from the variable IIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the ECHP and the Scotland and Wales sub-samples can be identified from the variable IHHORIG.

Derived and additional variables are those from IXHWGHT onwards.

Record Type IINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on IHID and IPNO. There will be one IINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one IINDSAMP record, if they were understood to have moved. The variable IFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the ECHP and the Scotland and Wales sub-samples can be identified from the variable IMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type IINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding IINDRESP record exists may be identified from the variable IIVFIO (individual interview outcome). Cases from the ECHP and the Scotland and Wales sub-samples can be identified from the variable HMEMORIG.

Derived and additional variables are those from IAGE onwards.

See the User Documentation for a full discussion of the use of the weights contained on this record type.

Record Type IHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have IHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the IHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable IHHDC. Cases, from the ECHP and the Scotland and Wales sub-samples can be identified from the variable IHHORIG.

Derived and additional variables are those from IHHDC onwards. Of these, IXHWGHT IREGION and ILADISTC are direct copies of variables on record IHHSAMP.

The following variables have data for all missing cases imputed:

IMGNEW	IXPMG	IHSVAL	IHRENT	IRENTGI	IXPHSN
IXPHSG	IFIHNMN	IFIHML	IFIHMNL	IFIHMPI	IFIHMBI
IFIHMT	IFIHMI	IFIHYR	IFIHYL	IFIHYNL	IFIHYPI
IFIHYB	IFIHYT	IFIHYI			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below:

IMGNEWI	IXPMGI	IHSVALI	IRENTI	IRENTGI	IXPHSNI
IXPHSGI	IFIHMNI	IFIHMLI	IFIMNLI	IFIMMPI	IFIMBI
IFIHMTI	IFIHMI	IFIHYRI	IFIHYLI	IFIHYNI	IFIHYPI
IFIHYBI	IFIHYTI	IFIHYI			

Record Type IINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable IIVFIO.

From Wave Eight, the means of collection of data on education, training and qualifications has been restructured, based around full-time education spells and other periods of education and training, and the qualifications associated with these spells. Data from these spells, based on questions D19-D27 and D69-D78, have been 'flattened' with up to two full-time spells, and up to three other spells. Previous wave variables for qualifications attained in the last year wQFX to wQFXN and wQFEDX to wNQFEXK, are retained as derived variables, based on the new data structure. Some specific variables however are dropped since they cannot be computed.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables IPRRS2I IPRIPN IPRWHY IPRFEHQ IPRSEHQ IPRFITB IPRJBFT ITELWHY etc correspond to questions which have no direct

equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record IJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record IINCOME.

Cases, from the ECHP and the Scotland and Wales sub-samples can be identified from the variable HMEMORIG.

Derived and additional copied variables are those from IIVFIO to IREGION and from IHGR2R onwards. The variables IREGION IHHSIZE IHHTYPE ITENURE and IFIHHMN are copied from record IHHRESP. The variables IIVFIO IODC and IHGR2R to IHOH are copied from record IINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of IPRFITB):

IJ2PAY	IFIYRDI	IPRFITB	IPAYGU	IPAYNU	IPAYGTY
HPAYGLY	IPAYNTY	IPAYNLY	IJSPROF	IJSPAYG	IFIMNP
IFIMNB	IFIMNI	IFIMNT	IFIMNNL	IFIMNL	IFIMN
IFIYRL	IFIYRNL	IFIYRP	IFIYRB	IFIYRT	IFIYRI
IFIYR	ISPPAYG	IFIHHMN			

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

IJ2PAYI	IFIYRDI	IPRFITBI	IPAYGUI	IPAYNUI	IPAYGTI
IPAYGLI	IPAYNTI	IPAYNLI	IJSPROFI	IJSPAYGI	IFIMNPI
IFIMNBI	IFIMNII	IFIMNTI	IFIMNNLI	IFIMNLI	IFIMNTHI
IFIYRLI	IFIYRNLI	IFIYRPI	IFIYRBI	IFIYRTI	IFIYRII
IFIYEARI	ISPPAYGI	IFIHHMNI			

Record Type IJOBHIST

This record contains information from the employment history over the period from 1st September 1998 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.1998. The additional key IJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from IJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (IJHSTAT=1), then the values for IJHSIC IJHSECT and IJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

IJHGPAY IJHNPAY

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below.

IJHGPAYI, IJHNPAYI

Record Type IINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where INF1 is greater than 0). For each payment identified at question F1 (i.e. in variables IF101 - IF159) then there will exist at least one IINCOME record with a corresponding value of IFICODE.

In those cases where payments from multiple sources were combined in a single payments and

individual receipts could not be distinguished, IINCOME records will exist for each source, but the variables INFR or IFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

IFIM01L - IFIM01N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable IFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M9DV.IFIM.

The following variables have all missing data imputed:

IFRVAL IFIM09L to IFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

IFRVALI (This also implies imputation on IFIM09L to IFIM04N)

Record Type IEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if HPNO = 1 and HOPNO = 3 and HREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable ILWSTAT allows the computation of household composition change measures since Wave Two.

Record Type IYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 1999. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable IIVFIO. The variable IYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the ECHP sub-sample. The record contains the normal key variables IHID and IPNO, and children may be matched to their parents through the record IEGOALT. See the note to the record type IINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents. Young people in the Scotland and Wales new samples did not receive this questionnaire.

III.20. WAVE TEN: Record Types and Wave-Specific Information

Record Type JHHSAMP

Record Type JHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records JHHRESP etc will exist may be identified from the variable JIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the ECHP and the Scotland and Wales sub-samples can be identified from the variable JHHORIG.

Derived and additional variables are those from JXHWGHT onwards.

Record Type JIINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on JHID and JPNO. There will be one JIINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one JIINDSAMP record, if they were understood to have moved. The variable JFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the ECHP and the Scotland and Wales sub-samples can be identified from the variable JMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type JINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding JINDRESP record exists may be identified from the variable JIVFIO (individual interview outcome). Cases from the ECHP and the Scotland and Wales sub-samples can be identified from the variable JMEMORIG.

Derived and additional variables are those from JAGE onwards.

See the User Documentation for a full discussion of the use of the weights contained on this record type.

Record Type JHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have JHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the JHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable JHHDC. Cases, from the ECHP and the Scotland and Wales sub-samples can be identified from the variable JHHORIG.

Derived and additional variables are those from JHHDC onwards. Of these, JXHWGHT JREGION and JLADISTC are direct copies of variables on record JHHSAMP.

The following variables have data for all missing cases imputed:

JMGNEW	JXPMG	JHSVAL	JHRENT	JRENTGI	JXPHSN
JXPHSG	JFIHBMN	JFIHML	JFIHBMNL	JFIHBMPI	JFIHBMBI
JFIHMT	JFIHMI	JFIHYR	JFIHYL	JFIHYNL	JFIHYPI
JFIHYB	JFIHYT	JFIHYI			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below:

JMGNEWI	JXPMGI	JHSVALI	JRENTI	JRENTGI	JXPHSNI
JXPHSGI	JFIHBMNI	JFIHMLI	JFIHBMNLI	JFIHBMPI	JFIHBMBI
JFIHMTI	JFIHMI	JFIHYRI	JFIHYLI	JFIHYNI	JFIHYPI
JFIHYBI	JFIHYTI	JFIHYI			

Record Type JINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable JIVFIO.

From Wave Eight, the means of collection of data on education, training and qualifications has been restructured, based around full-time education spells and other periods of education and training, and the qualifications associated with these spells. Data from these spells, based on questions D19-D27 and D69-D78, have been 'flattened' with up to two full-time spells, and up to three other spells. Previous wave variables for qualifications attained in the last year wQFX to wQFXN and wQFEDX to wNQFEXK, are retained as derived variables, based on the new data structure. Some specific variables however are dropped since they cannot be computed.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables JPRRS2I JPRIPN JPRWHY JPRFEHQ JPRSEHQ JPRFITB JPRJBFT JTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record JJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record JINCOME.

Cases, from the ECHP and the Scotland and Wales sub-samples can be identified from the variable JMEMORIG.

Derived and additional copied variables are those from JIVFIO to JREGION and from JHGR2R onwards. The variables JREGION JHHSIZE JHHTYPE JTENURE and JFIHNMN are copied from record JHHRESP. The variables JIVFIO JIODC and JHGR2R to JHOH are copied from record JINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of JPRFITB):

JJ2PAY	JFIYRDI	JPRFITB	JPAYGU	JPAYNU	JPAYGTY
JPAYGLY	JPAYNTY	JPAYNLY	JJSPROF	JJSPAYG	JFIMNP
JFIMNB	JFIMNI	JFIMNT	JFIMNNL	JFIMNL	JFIMN
JFIYRL	JFIYRNL	JFIYRP	JFIYRB	JFIYRT	JFIYRI
JFIYR	JSPPAYG	JFIHNMN			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

JJ2PAYI	JFIYRDII	JPRFITBI	JPAYGUI	JPAYNUI	JPAYGTI
JPAYGLI	JPAYNTI	JPAYNLI	JJSPROFI	JJSPAYGI	JFIMNPI
JFIMNBI	JFIMNII	JFIMNTI	JFIMNNLI	JFIMNLI	JFIMNTHI
JFIYRLI	JFIYRNLI	JFIYRPI	JFIYRBI	JFIYRTI	JFIYRII
JFIYEARI	JSPPAYGI	JFIHNMNI			

Record Type JJOBHIST

This record contains information from the employment history over the period from 1st September 1998 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.1998. The additional key JJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from JJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (JJHSTAT=1), then the values for JJHSIC JJHSECT and JJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

JJHGPAY JJHNPAY

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

JJHGPAYI JJHNPAYI

Record Type JINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where JNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables JF101 - JF159) then there will exist at least one JINCOME record with a corresponding value of JFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, JINCOME records will exist for each source, but the variables JNFR or JFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

JFIM09L - JFIM04N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable JFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M10DV.JFIM.

The following variables have all missing data imputed:

JFRVAL JFIM09L to JFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

JFRVALI (This also implies imputation on JFIM09L to JFIM04N)

Record Type JEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if JPNO = 1 and JOPNO = 3 and JREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable JLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type JYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 2000. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable JIVFIO. The variable JYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the ECHP sub-sample. The record contains the normal key variables JHID and JPNO, and children may be matched to their parents through the record JEGOALT. See the note to the record type JINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents. Young people in the Scotland and Wales new samples did not receive this questionnaire.

III.21. WAVE ELEVEN: Record Types and Wave-Specific Information

Record Type KHHSAMP

Record Type KHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records KHHRESP etc will exist may be identified from the variable KIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the ECHP, the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable KHHORIG.

Derived and additional variables are those from KXHWGHT onwards.

Record Type KINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on KHID and KPNO. There will be one KINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one KINDSAMP record, if they were understood to have moved. The variable KFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the ECHP, the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable KMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type KINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding KINDRESP record exists may be identified from the variable KIVFIO (individual interview outcome). Cases from the ECHP, the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable KMEMORIG.

Derived and additional variables are those from KAGE onwards.

See the User Documentation for a full discussion of the use of the weights contained on this record type.

Record Type KHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have KHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the KHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable KHHDC. Cases, from the ECHP, the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable KHHORIG.

Derived and additional variables are those from KHHDC onwards. Of these, KXHWGHT KREGION and KLADISTC are direct copies of variables on record KHHSAMP.

The following variables have data for all missing cases imputed:

KMGNEW	KXPMG	KHSVAL	KHRENT	KRENTGI	KXPHSN
KXPHSG	KFIHHMN	KFIHHML	KFIHHMNL	KFIHHMP	KFIHHMB
KFIHHMT	KFIHHMI	KFIHHYR	KFIHHYL	KFIHHYNL	KFIHHYP
KFIHHYB	KFIHHYT	KFIHHYI			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below:

KMGNEWI	KXPMGI	KHSVALI	KRENTI	KRENTGI	KXPHSNI
KXPHSGI	KFIHHMNI	KFIHHMLI	KFIHMNLI	KFIHHMPI	KFIHHMBI
KFIHHMTI	KFIHHMII	KFIHHYRI	KFIHHYLI	KFIHHYNI	KFIHHYPI
KFIHHYBI	KFIHHYTI	KFIHHYII			

Record Type KINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable KIVFIO.

From Wave Eight, the means of collection of data on education, training and qualifications has been restructured, based around full-time education spells and other periods of education and training, and the qualifications associated with these spells. Data from these spells, based on questions D19-D27 and D69-D78, have been 'flattened' with up to two full-time spells, and up to three other spells. Previous wave variables for qualifications attained in the last year wQFX to wQFXN and wQFEDX to wNQFEXK, are retained as derived variables, based on the new data structure. Some specific variables however are dropped since they cannot be computed.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables KPRRS2I KPRIPN KPRWHY KPRFEHQ KPRSEHQ KPRFITB KPRJBFT KTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record KJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record KINCOME.

Cases from the ECHP, the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable KMEMORIG.

Derived and additional copied variables are those from KIVFIO to KREGION and from KHGR2R onwards. The variables KREGION KHHSIZE KHHTYPE KTENURE and KFIHHMN are copied from record KHHRESP. The variables KIVFIO KIODC and KHGR2R to KHOH are copied from record KINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of KPRFITB):

KJ2PAY	KFIYRDIC	KPRFITB	KPAYGU	KPAYNU	KPAYGTY
KPAYGLY	KPAYNTY	KPAYNLY	KJSPROF	KJSPAYG	KFIMNP
KFIMNB	KFIMNI	KFIMNT	KFIMNNL	KFIMNL	KFIMN
KFIYRL	KFIYRNL	KFIYRP	KFIYRB	KFIYRT	KFIYRI
KFIYR	KSPPAYG	KFIHHMN			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

KJ2PAYI	KFIYRDII	KPRFITBI	KPAYGUI	KPAYNUI	KPAYGTI
KPAYGLI	KPAYNTI	KPAYNLI	KJSPROFI	KJSPAYGI	KFIMNPI
KFIMNBI	KFIMNII	KFIMNTI	KFIMNLI	KFIMNLI	KFIMNTHI
KFIYRLI	KFIYRNLI	KFIYRPI	KFIYRBI	KFIYRTI	KFIYRII
KFIYEARI	KSPPAYGI	KFIHHMNI			

Record Type KJOBHIST

This record contains information from the employment history over the period from 1st September 1998 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.1998. The additional key KJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from KJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (KJHSTAT=1), then the values for KJHSIC KJHSECT and KJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

KJHGPAY KJHNPAY

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

KJHGPAYI KJHNPAYI

Record Type KINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where KNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables KF101 - KF159) then there will exist at least one KINCOME record with a corresponding value of KFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, KINCOME records will exist for each source, but the variables KNFR or KFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

KFIM09L - KFIM04N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable KFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M11DV.KFIM.

The following variables have all missing data imputed:

KFRVAL KFIM09L to KFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

KFRVALI (This also implies imputation on KFIM09L to KFIM04N)

Record Type KEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in

either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if KPNO = 1 and KOPNO = 3 and KREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable KIWSTAT allows the computation of household composition change measures since Wave Two.

Record Type KYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 2001. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable KIVFIO. The variable KYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the ECHP sub-sample and the Scotland and Wales extension samples. The record contains the normal key variables KHID and KPNO, and children may be matched to their parents through the record KEGOALT. See the note to the record type KINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents. Young people in the Northern Ireland sample did not receive this questionnaire.

Record Type KMARRIAG

This record, only available for the Scotland and Wales extension sample, contains one record for each reported legal marriage before the current one, if any. It is keyed on KHID, KPNO and KMARNO. Note that the record structure is somewhat different from BMARRIAG, which contains similar data for the original main sample. Marriages are sorted in order from the earliest to the most recent, and KMARNO is in effect the marriage sequence number.

This record also contains information on cohabitation spells with the same partner which may have preceded marriage.

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave Nine or Wave Ten, contained in Record Types IINDALL, JINDALL, IEGOALT and JEGOALT.

See entry for KLIFEMST (below) for a discussion of season codes.

Record Type KCOHABIT

This record, only available for the Scotland and Wales extension samples, contains information about each cohabitation spell outside legal marriage which the respondent has ever had, excepting those which preceded marriages, for which the information is contained on record KMARRIAG. There is a separate record for each spell reported at questions L20 and L20.

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave Nine or Wave Ten, contained in Record Types IINDALL, JINDALL, IEGOALT and JEGOALT.

See entry for KLIFEMST (below) for a discussion of season codes.

Record Type KCHILDAD

This record, only available for the Scotland and Wales extension samples, contains information about the children respondent has either adopted, or for whom they have acted as step-parent, and the periods when they resided with the respondent. There is one record for each child reported in answer to question L24.

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave Nine or Wave Ten, contained in Record Types IINDALL, JINDALL, IEGOALT and JEGOALT.

See entry for KLIFEMST (below) for a discussion of season codes.

Record Type KCHILDNT

This record, only available for the Scotland and Wales extension samples, contains information about natural children respondent has ever had or fathered, and the periods when they resided with the respondent. There is one record for each child reported in answer to question L27

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave Nine or Wave Ten, contained in Record Types IINDALL, JINDALL, IEGOALT and JEGOALT.

See entry for KLIFEMST (below) for a discussion of season codes.

Record Type KLIFEMST

This record, only available for the Scotland and Wales extension samples, contains information about employment status spells in the period since the respondent first left full time education. There is one record for each spell reported in answer to questions L33, L34 and L35. The record contains end date for each spell except the final spell which should be recorded as not ended. The start date for each spell and the spell length in months are included as derived variables.

While data collected here may have been compared with the single year job history information to resolve internal ambiguities, there has been no attempt to enforce consistency between data collected here and that contained in the records IJOBHIST, JJOBHIST etc.

Season codes were used when the respondent could not remember exact month. Two codes for winter were offered, according to whether the event was towards the beginning or the end of the calendar year. In the calculation of spell length it was assumed, by convention, that winter (beginning of year) would be coded as January, spring as April, summer as July, autumn as October and winter (end of year) as December. However where these season codes are used in a spell which starts and finishes in the same calendar year, the length is set to -3, indicating less than 12 months but exact length indeterminate.

III.22. WAVE TWELVE: Record Types and Wave-Specific Information

Record Type LHHSAMP

Record Type LHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records LHHRESP etc will exist may be identified from the variable LIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable LHHORIG.

Derived and additional variables are those from LXHWGHT onwards.

Record Type LINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on LHID and LPNO. There will be one LINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one LINDSAMP record, if they were understood to have moved. The variable LFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable LMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type LINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding LINDRESP record exists may be identified from the variable LIVFIO (individual interview outcome). Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable LMEMORIG.

Derived and additional variables are those from LAGE onwards.

See section V.2 for a full discussion of the use of the weights contained on this record type.

Record Type LHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have LHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the LHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable LHHDC. Cases, from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable LHHORIG.

Derived and additional variables are those from LHHDC onwards. Of these, LXHWGHT LREGION and LLADISTC are direct copies of variables on record LHHSAMP.

The following variables have data for all missing cases imputed:

LMGNEW	LXPMG	LHSVAL	KHRENT	KRENTGI	LXPHSN
LXPHSG	LFIHHMN	LFIHHML	LFIHHMNL	LFIHHMP	LFIHHMB
LFIHHMT	LFIHHMI	LFIHHYR	LFIHHYL	LFIHHYNL	LFIHHYP
LFIHHYB	LFIHHYT	LFIHHYI			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below:

LMGNEWI	LXPMGI	LHSVALI	LRENTI	LRENTGI	LXPHSNI
LXPHSGI	LFIHHMNI	LFIHHMLI	LFIHMNLI	LFIHHMPI	LFIHHMBI
LFIHHMTI	LFIHHMII	LFIHHYRI	LFIHHYLI	LFIHHYNI	LFIHHYPI
LFIHHYBI	LFIHHYTI	LFIHHYI			

Record Type LINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable LIVFIO.

From Wave Eight, the means of collection of data on education, training and qualifications has been restructured, based around full-time education spells and other periods of education and training, and the qualifications associated with these spells. Data from these spells, based on questions D19-D27 and D69-D78, have been 'flattened' with up to two full-time spells, and up to three other spells. Previous wave variables for qualifications attained in the last year wQFX to wQFXN and wQFEDX to wNQFEXK, are retained as derived variables, based on the new data structure. Some specific variables however are dropped since they cannot be computed.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables LPRRS2I LPRIPN LPRWHY LPRFEHQ LPRSEHQ LPRFITB LPRJBFT LTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record LJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record LINCOME.

Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable LMEMORIG.

Derived and additional copied variables are those from LIVFIO to LREGION and from LHGR2R onwards. The variables LREGION LHHSIZE LHHTYPE LTENURE and LFIHHMN are copied from record LHHRESP. The variables LIVFIO LIODC and LHGR2R to LHOH are copied from record LINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of LPRFITB):

LJ2PAY	LFYRDIC	LPRFITB	LPAYGU	LPAYNU	LPAYGTY
LPAYGLY	LPAYNTY	LPAYNLY	LJSPROF	LJSPAYG	LFIMNP
LFIMNB	LFIMNI	LFIMNT	LFIMNNL	LFIMNL	LFIMN
LFYRL	LFYRNL	LFYRP	LFYRB	LFYRT	LFYRI
LFYR	LSPPAYG	LFIHMMN			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

LJ2PAYI	LFYRDII	LPRFITBI	LPAYGUI	LPAYNUI	LPAYGTI
LPAYGLI	LPAYNTI	LPAYNLI	LJSPROFI	LJSPAYGI	LFIMNPI
LFIMNBI	LFIMNII	LFIMNTI	LFIMNNLI	LFIMNLI	LFIMNTHI
LFYRLI	LFYRNLI	LFYRPI	LFYRBI	LFYRTI	LFYRII
LFYEARI	LSPPAYGI	LFIHMMNI			

Record Type LJOBHIST

This record contains information from the employment history over the period from 1st September 2001 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.2001. The additional key LJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from LJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (LJHSTAT=1), then the values for LJHSIC LJHSECT and LJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

LJHGPAY LJHNPAY

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

LJHGPAYI LJHNPAYI

Record Type LINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where LNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables LF101 - LF159) then there will exist at least one LINCOME record with a corresponding value of LFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, LINCOME records will exist for each source, but the variables LNFR or LFRVAL may indicate that multiple amounts are referred to, or that the amount is

given on another record.

LFIM09L - LFIM04N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable LFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M12DV.LFIM.

The following variables have all missing data imputed:

LFRVAL LFIM09L to LFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

LFRVALI (This also implies imputation on LFIM09L to LFIM04N)

Record Type LEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if LPNO = 1 and LOPNO = 3 and LREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable LLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type LYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 2002. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable LIVFIO. The variable LYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the Scotland and Wales extension samples. The record contains the normal key variables LHID and LPNO, and children may be matched to their parents through the record LEGOALT. See the note to the record type LINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents. Young people in the Northern Ireland sample did not receive this questionnaire.

Record Type LCHILD

This record contains information about the each of the children of the respondent including biological, step, adopted and foster children, given in answer to questions V33 to V55. There is one record for each child reported in answer to question V32. There are no records of this type for Northern Ireland cases.

Record Type LMARRIAG

This record, only available for the Northern Ireland extension sample, contains one record for each reported legal marriage before the current one, if any. It is keyed on LHID, LPNO and LMARNO. Note that the record structure is somewhat different from BMARRIAG, which contains similar data for the original main sample. Marriages are sorted in order from the earliest to the most recent, and LMARNO is in effect the marriage sequence number.

This record also contains information on cohabitation spells with the same partner which may have preceded marriage.

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave Eleven, contained in Record Types KINDALL and KEGOALT.

See entry for LLIFEMST (below) for a discussion of season codes.

Record Type LCOHABIT

This record, only available for the Northern Ireland extension samples, contains information about each cohabitation spell outside legal marriage which the respondent has ever had, excepting those which preceded marriages, for which the information is contained on record LMARRIAG. There is a separate record for each spell reported at questions L20 and L20.

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave Eleven, contained in Record Types KINDALL and KEGOALT.

See entry for LLIFEMST (below) for a discussion of season codes.

Record Type LCHILDAD

This record, only available for the Northern Ireland extension samples, contains information about the children respondent has either adopted, or for whom they have acted as step-parent, and the periods when they resided with the respondent. There is one record for each child reported in answer to question L24.

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave Eleven, contained in Record Types KINDALL and KEGOALT.

See entry for LLIFEMST (below) for a discussion of season codes.

Record Type LCHILDNT

This record, only available for the Northern Ireland extension samples, contains information about natural children respondent has ever had or fathered, and the periods when they resided with the respondent. There is one record for each child reported in answer to question L27

Note that there has been no attempt to enforce consistency between the data contained in this record, and the information about household composition and relationships at Wave Eleven, contained in Record Types KINDALL and KEGOALT.

See entry for LLIFEMST (below) for a discussion of season codes.

Record Type LLIFEMST

This record, only available for the Northern Ireland extension samples, contains information about employment status spells in the period since the respondent first left full time education. There is one record for each spell reported in answer to questions L33, L34 and L35. The record contains end date for each spell except the final spell which should be recorded as not ended. The start date for each spell and the spell length in months are included as derived variables.

While data collected here may have been compared with the single year job history information to resolve internal ambiguities, there has been no attempt to enforce consistency between data collected here and that contained in the records KJOBHIST etc.

Season codes were used when the respondent could not remember exact month. Two codes for winter were offered, according to whether the event was towards the beginning or the end of the calendar year. In the calculation of spell length it was assumed, by convention, that winter (beginning of year) would be coded as January, spring as April, summer as July, autumn as October and winter (end of year) as December. However where these season codes are used in a spell which starts and finishes in the same calendar year, the length is set to -3, indicating less than 12 months but exact

length indeterminate.

III.23. WAVE THIRTEEN: Record Types and Wave-Specific Information

Record Type MHHSAMP

Record Type MHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records MHHRESP etc will exist may be identified from the variable MIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable MHHORIG.

Derived and additional variables are those from MXHWGHT onwards.

Record Type MINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on MHID and MPNO. There will be one MINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one MINDSAMP record, if they were understood to have moved. The variable MFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable MMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type MINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding MINDRESP record exists may be identified from the variable MIVFIO (individual interview outcome). Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable MMEMORIG.

Derived and additional variables are those from MAGE onwards.

See section V.2 for a full discussion of the use of the weights contained on this record type.

Record Type MHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have MHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the MHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable MHHDC. Cases, from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable MHHORIG.

Derived and additional variables are those from MHHDC onwards. Of these, MXHWGHT MREGION

and MLADISTC are direct copies of variables on record MHHSAMP.

The following variables have data for all missing cases imputed:

MMGNEW	MXPMG	MHSVAL	MHRENT	MRENTGI	MXPHSN
MXPHSG	MFIHBMN	MFIHHML	MFIHBMNL	MFIHHMP	MFIHHMB
MFIHMT	MFIHMI	MFIHHYR	MFIHHYL	MFIHHYNL	MFIHHYP
MFIHHYB	MFIHHYT	MFIHHYI			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below:

MMGNEWI	MXPMGI	MHSVALI	MRENTI	MRENTGI	MXPHSNI
MXPHSGI	MFIHBMNI	MFIHHMLI	MFIHBMNLI	MFIHHMPI	MFIHHMBI
MFIHMTI	MFIHMI	MFIHHYRI	MFIHHYLI	MFIHHYNI	MFIHHYPI
MFIHHYBI	MFIHHYTI	MFIHHYII			

Record Type MINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable MIVFIO.

From Wave Eight, the means of collection of data on education, training and qualifications has been restructured, based around full-time education spells and other periods of education and training, and the qualifications associated with these spells. Data from these spells, based on questions D19-D27 and D69-D78, have been 'flattened' with up to two full-time spells, and up to three other spells. Previous wave variables for qualifications attained in the last year wQFX to wQFXN and wQFEDX to wNQFEXK, are retained as derived variables, based on the new data structure. Some specific variables however are dropped since they cannot be computed.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables MPRRS2I MPRIPN MPRWHY MPRFEHQ MPRSEHQ MPRFITB MPRJBFT MTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record MJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record MINCOME.

Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable MMEMORIG.

Derived and additional copied variables are those from MIVFIO to MREGION and from MHGR2R onwards. The variables MREGION MHHSIZE MHHTYPE MTENURE and MFIHBMN are copied from record MHHRESP. The variables MIVFIO MIODC and MHGR2R to MHOH are copied from record MINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of MPRFITB):

MJ2PAY	MFIYRDIC	MPRFITB	MPAYGU	MPAYNU	MPAYGTY
MPAYGLY	MPAYNTY	MPAYNLY	MJSPROF	MJSPAYG	MFIMNP
MFIMNB	MFIMNI	MFIMNT	MFIMNNL	MFIMNL	MFIMN
MFIYRL	MFIYRNL	MFIYRP	MFIYRB	MFIYRT	MFIYRI
MFIYR	MSPPAYG	MFIHBMN			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

MJ2PAYI	MFIYRDII	MPRFITBI	MPAYGUI	MPAYNUI	MPAYGTI
MPAYGLI	MPAYNTI	MPAYNLI	MJSPROFI	MJSPAYGI	MFIMNPI
MFIMNBI	MFIMNII	MFIMNTI	MFIMNNLI	MFIMNLI	MFIMNTHI
MFIYRLI	MFIYRNLI	MFIYRPI	MFIYRBI	MFIYRTI	MFIYRII
MFIYEARI	MSPPAYGI	MFIHBMNI			

Record Type MJOBHIST

This record contains information from the employment history over the period from 1st September 2002 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.2002. The additional key MJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from MJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (MJHSTAT=1), then the values for MJHSIC MJHSECT and MJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

MJHGPAY MJHNPAY

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

MJHGPAYI MJHNPAYI

Record Type MINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where MNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables MF101 - MF159) then there will exist at least one MINCOME record with a corresponding value of MFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, MINCOME records will exist for each source, but the variables MNFR or MFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

MFIM09L - MFIM04N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable MFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M13DV.MFIM.

The following variables have all missing data imputed:

MFRVAL MFIM09L to MFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

MFRVALI (This also implies imputation on MFIM09L to MFIM04N)

Record Type MEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if MPNO = 1 and MOPNO = 3 and MREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable MLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type MYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 2003. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable MIVFIO. The variable MYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the Scotland and Wales extension samples. The record contains the normal key variables MHID and MPNO, and children may be matched to their parents through the record MEGOALT. See the note to the record type MINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents. Young people in the Northern Ireland sample did not receive this questionnaire.

Record Type MCHILD

This record contains information about the each of the children of the respondent including biological, step, adopted and foster children, given in answer to questions V31 to V52. There is one record for each child reported in answer to question V30. These records only exist for cases in Northern Ireland.

III.24. WAVE FOURTEEN: Record Types and Wave-Specific Information

Record Type NHHSAMP

Record Type NHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records NHHRESP etc will exist may be identified from the variable NIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable NHHORIG.

Derived and additional variables are those from NXHWGHT onwards.

Record Type NINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on NHID and NPNO. There will be one NINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one NINDSAMP record, if they were understood to have moved. The variable NFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable NMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type NINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding NINDRESP record exists may be identified from the variable NIVFIO (individual interview outcome). Cases from the Scotland and Wales

extension samples, and the Northern Ireland sample can be identified from the variable NMEMORIG.

Derived and additional variables are those from NAGE onwards.

See section V.2 for a full discussion of the use of the weights contained on this record type.

Record Type NHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have NHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the NHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable NHHDC. Cases, from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable NHHORIG.

Derived and additional variables are those from NHHDC onwards. Of these, NXHWGHT NREGION and NLADISTC are direct copies of variables on record NHHSAMP.

The following variables have data for all missing cases imputed:

NMGNEW	NXPMG	NHSVAL	MHRENT	NRENTGI	NXPHSN
NXPHSG	NFIHHMN	NFIHHML	NFIHHMNL	NFIHHMP	NFIHHMB
NFIHHMT	NFIHHMI	NFIHHYR	MFIHHYL	NFIHHYNL	NFIHHYP
NFIHHYB	NFIHHYT	NFIHHYI			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below:

NMGNEWI	NXPMGI	NHSVALI	NRENTI	NRENTGI	NXPHSNI
NXPHSGI	NFIHHMNI	NFIHHMLI	NFIHMNLI	NFIHHMPI	NFIHHMBI
NFIHHMTI	NFIHHMII	NFIHHYRI	NFIHHYLI	NFIHHYNI	NFIHHYPI
NFIHHYBI	NFIHHYTI	NFIHHYII			

Record Type NINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable NIVFIO.

From Wave Eight, the means of collection of data on education, training and qualifications has been restructured, based around full-time education spells and other periods of education and training, and the qualifications associated with these spells. Data from these spells, based on questions D19-D27 and D69-D78, have been 'flattened' with up to two full-time spells, and up to three other spells. Previous wave variables for qualifications attained in the last year wQFX to wQFXN and wQFEDX to wNQFEXK, are retained as derived variables, based on the new data structure. Some specific variables however are dropped since they cannot be computed.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables NPRRS2I NPRIPN NPRWHY NPRFEHQ NPRSEHQ NPRFITB NPRJBFT NTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record NJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record NINCOME.

Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable NMEMORIG.

Derived and additional copied variables are those from NIVFIO to NREGION and from NHGR2R onwards. The variables NREGION NHHSIZE NHHTYPE NTENURE and NFIHHMN are copied from record NHHRESP. The variables NIVFIO NIODC and NHGR2R to NHOH are copied from record NINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of NPRFITB):

NJ2PAY	NFIYRDIC	NPRFITB	NPAYGU	NPAYNU	NPAYGTY
NPAYGLY	NPAYNTY	NPAYNLY	NJSPROF	NJSPAYG	NFIMNP
NFIMNB	NFIMNI	NFIMNT	NFIMNNL	NFIMNL	NFIMN
NFIYRL	NFIYRNL	NFIYRP	NFIYRB	NFIYRT	NFIYRI
NFIYR	NSPPAYG	NFIHHMN			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

NJ2PAYI	NFIYRDII	NPRFITBI	NPAYGUI	NPAYNUI	NPAYGTI
NPAYGLI	NPAYNTI	NPAYNLI	NJSPROFI	NJSPAYGI	NFIMNPI
NFIMNBI	NFIMNII	NFIMNTI	NFIMNNLI	NFIMNLI	NFIMNTHI
NFIYRLI	NFIYRNLI	NFIYRPI	NFIYRBI	NFIYRTI	NFIYRII
NFIYEARI	NSPPAYGI	NFIHHMNI			

Record Type NJOBHIST

This record contains information from the employment history over the period from 1st September 2003 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.2003. The additional key NJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from NJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (NJHSTAT=1), then the values for NJHSIC NJHSECT and NJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

NJHGPAY NJHNPAY

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

NJHGPAYI NJHNPAYI

Record Type NINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where NNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables NF101 - NF159) then there will exist at least one NINCOME record with a corresponding value of NFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, NINCOME records will exist for each source, but the variables NNFR or NFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

NFIM09L - NFIM04N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable NFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure N13DV.NFIM.

The following variables have all missing data imputed:

NFRVAL NFIM09L to NFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

NFRVALI (This also implies imputation on NFIM09L to NFIM04N)

Record Type NEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if NPNO = 1 and NOPNO = 3 and NREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable NLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type NYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 2004. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable NIVFIO. The variable NYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the Scotland and Wales extension samples. The record contains the normal key variables NHID and NPNO, and children may be matched to their parents through the record NEGOALT. See the note to the record type NINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents. Young people in the Northern Ireland sample did not receive this questionnaire.

III.25. WAVE FIFTEEN: Record Types and Wave-Specific Information

Record Type OHHSAMP

Record Type OHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records OHHRESP etc will exist may be identified from the variable OIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable OHHORIG.

Derived and additional variables are those from OXHWGHT onwards.

Record Type OINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on OHID and OPNO. There will be one OINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one OINDSAMP record, if they were understood to have moved. The variable OFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the Scotland and Wales

extension samples, and the Northern Ireland sample can be identified from the variable OMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type OINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding OINDRESP record exists may be identified from the variable OIVFIO (individual interview outcome). Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable OMEMORIG.

Derived and additional variables are those from OAGE onwards.

See section V.2 for a full discussion of the use of the weights contained on this record type.

Record Type OHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have OHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the OHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable OHHDC. Cases, from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable OHHORIG.

Derived and additional variables are those from OHHDC onwards. Of these, OXHWGHT OREGION and OLADISTC are direct copies of variables on record OHHSAMP.

The following variables have data for all missing cases imputed:

OMGNEW	OXPMG	OHSVAL	OHRENT	ORENTGI	OXPHSN
OXPHSG	OFIHHMN	OFIHHML	OFIHHMNL	OFIHHMP	OFIHHMB
OFIHHMT	OFIHHMI	OFIHHYR	OFIHHYL	OFIHHYNL	OFIHHYP
OFIHHYB	OFIHHYT	OFIHHYI			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below:

OMGNEWI	OXPMGI	OHSVALI	ORENTI	ORENTGI	OXPHSNI
OXPHSGI	OFIHHMNI	OFIHHMLI	OFIHMNLI	OFIHHMPI	OFIHHMBI
OFIHHMTI	OFIHHMII	OFIHHYRI	OFIHHYLI	OFIHHYNI	OFIHHYPI
OFIHHYBI	OFIHHYTI	OFIHHYI			

Record Type OINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable OIVFIO.

From Wave Fifteen, the means of collection of data on qualifications has been restructured. Respondents are asked at one point whether they have obtained qualifications in the last year, instead of being asked about qualifications obtained associated with each spell of education and training, as was the case between waves 8 and 14. Other information about these spells is still collected. Qualifications attained in the last year are contained in the variables wQFX to wQFXN and wQFEDX to wNQFEXK, which were derived variables between wave 8 and 14.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables OPRRS2I OPRIPN OPRWHY OPRFEHQ OPRSEHQ OPRFITB OPRJBFT OTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record OJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record OINCOME.

Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable OMEMORIG.

Derived and additional copied variables are those from OIVFIO to OREGION and from OHGR2R onwards. The variables OREGION OHHSIZE OHHTYPE OTENURE and OFIHMMN are copied from record OHHRESP. The variables OIVFIO OIODC and OHGR2R to OHOH are copied from record OINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of OPRFITB):

OJ2PAY	OFIYRDIC	OPRFITB	OPAYGU	OPAYNU	OPAYGTY
OPAYGLY	OPAYNTY	OPAYNLY	OJSPROF	OJSPAYG	OFIMNP
OFIMNB	OFIMNI	OFIMNT	OFIMNNL	OFIMNL	OFIMN
OFIYRL	OFIYRNL	OFIYRP	OFIYRB	OFIYRT	OFIYRI
OFIYR	OSPPAYG	OFIHMMN			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

OJ2PAYI	OFIYRDII	OPRFITBI	OPAYGUI	OPAYNUI	OPAYGTI
OPAYGLI	OPAYNTI	OPAYNLI	OJSPROFI	OJSPAYGI	OFIMNPI
OFIMNBI	OFIMNII	OFIMNTI	OFIMNNLI	OFIMNLI	OFIMNTHI
OFIYRLI	OFIYRNLI	OFIYRPI	OFIYRBI	OFIYRTI	OFIYRII
OFIYEARI	OSPPAYGI	OFIHMMNI			

Record Type OJOBHIST

This record contains information from the employment history over the period from 1st September 2004 to the date of interview. There is one record for each spell identified at questions J12-J14, with job characteristic information from questions J16 to J31 appended where relevant.

These records will only exist for respondents whose current labour force spell began after 1.9.2004. The additional key OJSPNO, identifies the sequence of job spell, with the most recent first.

Derived variables are those from OJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (OJHSTAT=1), then the values for OJHSIC OJHSECT and OJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

OJHGPAY OJHNPAY

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

OJHGPAYI OJHNPAYI

Record Type OINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where ONF1 is greater than 0). For each payment identified at question F1 (i.e. in variables OF101 -

OF159) then there will exist at least one OINCOME record with a corresponding value of OFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, OINCOME records will exist for each source, but the variables ONFR or OFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

OFIM09L - OFIM04N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable OFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure O13DV.NFIM.

The following variables have all missing data imputed:

OFRVAL OFIM09L to OFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

OFRVALI (This also implies imputation on OFIM09L to OFIM04N)

Record Type OEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if OPNO = 1 and OOPNO = 3 and OREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable OLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type OYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 2005. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable OIVFIO. The variable OYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the Scotland, Wales and Northern Ireland extension samples. The record contains the normal key variables OHID and OPNO, and children may be matched to their parents through the record OEGOALT. See the note to the record type OINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents.

III.26. WAVE SIXTEEN: Record Types and Wave-Specific Information

Record Type PHHSAMP

Record Type PHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records PHHRESP etc will exist may be identified from the variable PIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable PHHORIG.

Derived and additional variables are those from PXHWGHT onwards.

Record Type PINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on PHID and PPNO. There will be one PINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one PINDSAMP record, if they were understood to have moved. The variable PFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable PMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type PINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding PINDRESP record exists may be identified from the variable PIVFIO (individual interview outcome). Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable PMEMORIG.

Derived and additional variables are those from PAGE onwards.

See section V.2 for a full discussion of the use of the weights contained on this record type.

Record Type PHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have PHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the PHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable PHHDC. Cases, from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable PHHORIG.

Derived and additional variables are those from PHHDC onwards. Of these, PXHWGHT and PREGION are direct copies of variables on record PHHSAMP.

The following variables have data for all missing cases imputed:

PMGNEW	PXPMG	PHSVAL	PHRENT	PRENTGI	PXPHSN
PXPHSG	PFIHBMN	PFIHML	PFIHMNL	PFIHMPI	PFIHMNB
PFIHMT	PFIHMI	PFIHYR	PFIHYL	PFIHYNL	PFIHYPI
PFIHYB	PFIHYT	PFIHYI			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below:

PMGNEWI	PXPMGI	PHSVALI	PRENTI	PRENTGI	PXPHSNI
PXPHSGI	PFIHBMNI	PFIHMLI	PFIHMNLI	PFIHMPII	PFIHMNBI
PFIHMTI	PFIHMII	PFIHYRI	PFIHYLI	PFIHYNI	PFIHYPI
PFIHYBI	PFIHYTI	PFIHYII			

Record Type PINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable PIVFIO.

From Wave Fifteen, the means of collection of data on qualifications has been restructured. Respondents are asked at one point whether they have obtained qualifications in the last year, instead of being asked about qualifications obtained associated with each spell of education and training, as was the case between waves 8 and 14. Other information about these spells is still collected. Qualifications attained in the last year are contained in the variables wQFX to wQFXN and wQFEDX to wNQFEXK, which were derived variables between wave 8 and 14.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables PPRRS2I PPRIPN PPRWHY PPRFEHQ PPRSEHQ PPRFITB PPRJBFT PTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record PJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record PINCOME.

Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable PMEMORIG.

Derived and additional copied variables are those from PIVFIO to PREGION and from PHGR2R onwards. The variables PREGION PHHSIZE PHHTYPE PTENURE and PFIHNMN are copied from record PHHRESP. The variables PIVFIO PIODC and PHGR2R to PHOH are copied from record PINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of PPRFITB):

PJ2PAY	PFIYRDIC	PPRFITB	PPAYGU	PPAYNU	PPAYGTY
PPAYGLY	PPAYNTY	PPAYNLY	PJSPROF	PJSPAYG	PFIMNP
PFIMNB	PFIMNI	PFIMNT	PFIMNNL	PFIMNL	PFIMN
PFIYRL	PFIYRNL	PFIYRP	PFIYRB	PFIYRT	PFIYRI
PFIYR	PSPPAYG	PFIHNMN			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

PJ2PAYI	PFIYRDII	PPRFITBI	PPAYGUI	PPAYNUI	PPAYGTI
PPAYGLI	PPAYNTI	PPAYNLI	PJSPRPFI	PJSPAYGI	PFIMNPI
PFIMNBI	PFIMNII	PFIMNTI	PFIMNNLI	PFIMNLI	PFIMNTHI
PFIYRLI	PFIYRNLI	PFIYRPI	PFIYRBI	PFIYRTI	PFIYRII
PFIYEARI	PSPPAYGI	PFIHNMNI			

Record Type PJOBHSTD

This record contains information from the employment history over the period from 1st September 2005 to the date of interview. There is one record for each spell identified at questions J10 and J10b. In contrast to the annual employment history collected at waves 1 to 15, and contained in record wJOBHIST, the sequence of spells works forward from the situation at the time of the previous which is fed forward using dependent interviewing (or is asked if the respondent was not interviewed at the previous waves). See section IV.18 for further information on dependent interviewing. Data from this record have been reconstructed into the format as collected at previous waves. These data are contained in record PJOBHIST.

These records will only exist for respondents whose current labour force spell began after 1.9.2005. The additional key PJSPNO, identifies the sequence of job spell, with the most recent first. Note that values of PJSPNO on PJOBHIST and PJOBHSTD refer to different spells.

Record Type PINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where PNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables PF101 - PF159) then there will exist at least one PINCOME record with a corresponding value of PFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, PINCOME records will exist for each source, but the variables PNFR or PFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

PFIM09L - PFIM04N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable PFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure P16DV.NFIM.

The following variables have all missing data imputed:

PFRVAL PFIM09L to PFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

PFRVALI (This also implies imputation on PFIM09L to PFIM04N)

Record Type PEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if PPNO = 1 and POPNO = 3 and PREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable PLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type PYOUTH

This record type contains responses to the Young persons questionnaire, asked of children aged 11 to 15 on 1st December 2006. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable PIVFIO. The variable PYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the Scotland, Wales and Northern Ireland extension samples. The record contains the normal key variables PHID and PPNO, and children may be matched to their parents through the record PEGOALT. See the note to the record type PINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents.

Record Type PJOBHIST

This record contains information from the employment history over the period from 1st September 2005 to the date of interview. It is derived from the data contained in PJOBHSTD, which is collected in a different format from that used at waves 1 to 15, and is based on fed forward data from the previous wave. It has the same structure as wJOBHIST for previous waves with the order of spells being backward from the current spell to 1st September 2005. For continuing respondents, information

about the situation at the time of the last interview has been copied from previous wave. For new respondents detailed information about the job held 12 months earlier is not available.

These records will only exist for respondents whose current labour force spell began after 1.9.2005. The additional key PJSPNO, identifies the sequence of job spell, with the most recent first. Note that values of PJSPNO on PJOBHIST and PJOBHSTD refer to different spells.

Derived variables are those from PJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (OJHSTAT=1), then the values for PJHSIC PJHSECT and PJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

PJHGPAY PJHNPAY

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

PJHGPAYI PJHNPAYI

III.27. WAVE SEVENTEEN: Record Types and Wave-Specific Information

Record Type QHHSAMP

Record Type QHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records QHHRESP etc will exist may be identified from the variable QIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable QHHORIG.

Derived and additional variables are those from QXHWGHT onwards.

Record Type QINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on QHID and QPNO. There will be one QINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one QINDSAMP record, if they were understood to have moved. The variable QFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable QMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type QINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding QINDRESP record exists may be identified from the variable QIVFIO (individual interview outcome). Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable QMEMORIG.

Derived and additional variables are those from QAGE onwards.

See section V.2 for a full discussion of the use of the weights contained on this record type.

Record Type QHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have QHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the QHHRESP record will exist, entirely consist of missing values. In addition a small number of households were missing household questionnaires - these may be identified from the variable QHHDC. Cases, from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable QHHORIG.

Derived and additional variables are those from QHHDC onwards. Of these, QXHWGHT and QREGION are direct copies of variables on record QHHSAMP.

The following variables have data for all missing cases imputed:

QMGNEW	QXPMG	QHSVAL	QHRENT	QRENTGI	QXPHSN
QXPHSG	QFIHHMN	QFIHHML	QFIHHMNL	QFIHHMP	QFIHHMB
QFIHHMT	QFIHHMI	QFIHHYR	QFIHHYL	QFIHHYNL	QFIHHYP
QFIHHYB	QFIHHYT	QFIHHYI			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below:

QMGNEWI	QXPMGI	QHSVALI	QRENTI	QRENTGI	QXPHSNI
QXPHSGI	QFIHHMNI	QFIHHMLI	QFIHMNLI	QFIHHMPI	QFIHHMBI
QFIHHMTI	QFIHHMII	QFIHHYRI	QFIHHYLI	QFIHHYNI	QFIHHYPI
QFIHHYBI	QFIHHYTI	QFIHHYII			

Record Type QINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable QIVFIO.

From Wave Fifteen, the means of collection of data on qualifications has been restructured. Respondents are asked at one point whether they have obtained qualifications in the last year, instead of being asked about qualifications obtained associated with each spell of education and training, as was the case between waves 8 and 14. Other information about these spells is still collected. Qualifications attained in the last year are contained in the variables wQFX to wQFXN and wQFEDX to wNQFEXX, which were derived variables between wave 8 and 14.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables QPRRS2I QPRIPN QPRWHY QPRFEHQ QPRSEHQ QPRFITB QPRJBFT QTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record QJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record QINCOME.

Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable QMEMORIG.

Derived and additional copied variables are those from QIVFIO to QREGION and from QHGR2R onwards. The variables QREGION QHHSIZE QHHTYPE QTENURE and QFIHHMN are copied from record QHHRESP. The variables QIVFIO QIODC and QHGR2R to QHOH are copied from record QINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of QPRFITB):

QJ2PAY	QFIYRDIC	QPRFITB	QPAYGU	QPAYNU	QPAYGTY
QPAYGLY	QPAYNTY	QPAYNLY	QJSPROF	QJSPAYG	QFIMNP
QFIMNB	QFIMNI	QFIMNT	QFIMNNL	QFIMNL	QFIMN
QFIYRL	QFIYRNL	QFIYRP	QFIYRB	QFIYRT	QFIYRI
QFIYR	QSPPAYG	QFIHHMN			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

QJ2PAYI	QFIYRDII	QPRFITBI	QPAYGUI	QPAYNUI	QPAYGTI
QPAYGLI	QPAYNTI	QPAYNLI	QJSPRPF I	QJSPAYGI	QFIMNPI
QFIMNBI	QFIMNII	QFIMNTI	QFIMNNLI	QFIMNLI	QFIMNTHI
QFIYRLI	QFIYRNLI	QFIYRPI	QFIYRBI	QFIYRTI	QFIYRII
QFIYEARI	QSPPAYGI	QFIHHMNI			

Record Type QJOBHSTD

This record contains information from the employment history over the period from the date of the interview at wave 16 or 1st September 2006 if there was no interview to the date of wave 17 interview. There is one record for each spell identified at questions J10 and J10b. In contrast to the annual employment history collected at waves 1 to 15, and contained in record wJOBHIST, the sequence of spells works forward from the situation at the time of the previous interview which is fed forward using dependent interviewing (or is asked if the respondent was not interviewed at the previous waves). See section IV.18 for further information on dependent interviewing. Data from this record have been reconstructed into the format as collected at previous waves. These data are contained in record QJOBHIST.

These records will only exist for respondents whose current labour force spell began after 1.9.2006. The additional key QJSPNO, identifies the sequence of job spell, with the most recent first. Note that values of QJSPNO on QJOBHIST and QJOBHSTD refer to different spells.

Record Type QINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where QNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables QF101 - QF159) then there will exist at least one QINCOME record with a corresponding value of QFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, QINCOME records will exist for each source, but the variables QNFR or QFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

QFIM09L - QFIM04N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable QFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M17DV.QFIM.

The following variables have all missing data imputed:

QFRVAL QFIM09L to QFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

QFRVALI (This also implies imputation on QFIM09L to QFIM04N)

Record Type QEGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if QPNO = 1 and QOPNO = 3 and QREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable QLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type QYOUTH

This record type contains responses to the Young persons' questionnaire, asked of children aged 11 to 15 on 1st December 2007. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable QIVFIO. The variable QYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the Scotland, Wales and Northern Ireland extension samples. The record contains the normal key variables QHID and QPNO, and children may be matched to their parents through the record QEGOALT. See the note to the record type QINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents.

Record Type QJOBHIST

This record contains information from the employment history over the period from 1st September 2006 to the date of interview. It is derived from the data contained in QJOBHSTD, which is collected in a different format from that used at waves 1 to 15, and is based on fed forward data from the previous wave. It has the same structure as wJOBHIST for previous waves with the order of spells being backward from the current spell to 1st September 2007. For continuing respondents, information about the situation at the time of the last interview has been copied from previous wave. For new respondents detailed information about the job held 12 months earlier is not available.

These records will only exist for respondents whose current labour force spell began after 1.9.2006. The additional key QJSPNO, identifies the sequence of job spell, with the most recent first. Note that values of QJSPNO on QJOBHIST and QJOBHSTD refer to different spells.

Derived variables are those from QJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (QJHSTAT=1), then the values for QJHSIC QJHSECT and QJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

QJHGPAY QJHNPAY

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

QJHGPAYI QJHNPAYI

Record Type QCHILD

This record contains information about each of the children of the respondent including biological, step, adopted and foster children, given in answer to questions RV46 to V69. There is one record for each child reported in answer to question RV45.

III.28. WAVE EIGHTEEN: Record Types and Wave-Specific Information

Record Type RHHSAMP

Record Type RHHSAMP contains fieldwork control, interview outcome and weighting information. There is one record for each issued household, and records for additional households which split off from an issued household. (See the User Documentation for a detailed description of the fieldwork process.)

Respondent households, for which records RHHRESP etc will exist may be identified from the variable RIVFHO. Note that the coding frame for this variable is substantially different from that used at Wave One. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable RHHORIG.

Derived and additional variables are those from RXHWGHT onwards.

Record Type RINDSAMP

This record contains individual level variables derived from the Household Cover sheet. The record is keyed on RHID and RPNO. There will be one RINDSAMP record for each issued individual at each household where they were expected to be found, either at first issue, or as a result of a move uncovered during the fieldwork process, and additionally a record for each new entrant identified at a contacted household. Thus any individual may be represented by more than one RINDSAMP record, if they were understood to have moved. The variable RFINLOC enables the last household where the sample member was expected to be found to be identified. Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable RMEMORIG.

This record will contain information about dates of departure and reasons for departure for sample members who left respondent households. It will also contain last enumeration information about sample members who have died.

Record Type RINDALL

This record contains individual level variables derived from the Household Composition Form. There is one record for each individual enumerated in a respondent household. This record is the only one containing individual level data on children and other non-respondents.

Full and Proxy respondents for whom a corresponding RINDRESP record exists may be identified from the variable RIVFIO (individual interview outcome). Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable RMEMORIG.

Derived and additional variables are those from RAGE onwards.

See section V.2 for a full discussion of the use of the weights contained on this record type.

Record Type RHHRESP

This record contains data from the Household Questionnaire and household level information from the Household Composition Form for respondent households. There is one record for each household.

Households with response code 14 'telephone interview only' will have RHHRESP records, but with most variables taking the missing value code -7.

For the households with response code 43 - 'proxy taken at Wave One address' the RHHRESP record will exist, entirely consist of missing values. In addition a small number of households were

missing household questionnaires - these may be identified from the variable RHHDC. Cases, from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable RHHORIG.

Derived and additional variables are those from RHHDC onwards. Of these, RXHWGHT and RREGION are direct copies of variables on record RHHSAMP.

The following variables have data for all missing cases imputed:

RMGNEW	RXPMG	RHSVAL	RHRENT	RRENTGI	RXPHSN
RXPHSG	RFIHHMN	RFIHHML	RFIHHMNL	RFIHHMP	RFIHHMB
RFIHHMT	RFIHHMI	RFIHHYR	RFIHHYL	RFIHHYNL	RFIHHYP
RFIHHYB	RFIHHYT	RFIHHYI			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below:

RMGNEWI	RXPMGI	RHSVALI	RRENTI	RRENTGI	RXPHSNI
RXPHSGI	RFIHHMNI	RFIHHMLI	RFIHHMNL	RFIHHMPI	RFIHHMBI
RFIHHMTI	RFIHHMII	RFIHHYRI	RFIHHYLI	RFIHHYNI	RFIHHYPI
RFIHHYBI	RFIHHYTI	RFIHHYI			

Record Type RINDRESP

This record contains individual data from full and proxy questionnaires. Data from the Household Composition Form is also copied to this record. Proxy and telephone respondents may be distinguished from main questionnaire respondents on the basis of the variable RIVFIO.

From Wave Fifteen, the means of collection of data on qualifications has been restructured. Respondents are asked at one point whether they have obtained qualifications in the last year, instead of being asked about qualifications obtained associated with each spell of education and training, as was the case between waves 8 and 14. Other information about these spells is still collected. Qualifications attained in the last year are contained in the variables wQFX to wQFXN and wQFEDX to wNQFEXK, which were derived variables between wave 8 and 14.

Proxy and telephone data is copied to equivalent full questionnaire variables. Where there is no equivalent variable, values are set to -7 (inapplicable). The variables RPRRS2I RPRIPN RPRWHY RPRFEHQ RPRSEHQ RPRFITB RPRJBFT RTELWHY etc correspond to questions which have no direct equivalent in the full questionnaire. They are inapplicable for full respondents.

Data from the job history are contained on record RJOBHIST, except for a number of derived variables. Similarly detailed data on payment receipts from questions F3a - F3f are contained on record RINCOME.

Cases from the Scotland and Wales extension samples, and the Northern Ireland sample can be identified from the variable RMEMORIG.

Derived and additional copied variables are those from RIVFIO to RREGION and from RHGR2R onwards. The variables RREGION RHHSIZE RHHTYPE RTENURE and RFIHHMN are copied from record RHHRESP. The variables RIVFIO RIODC and RHGR2R to RHOH are copied from record RINDALL.

The following variables have data for all missing cases imputed (note that proxy cases do not have imputed values except in the case of RPRFITB):

RJ2PAY	RFIYRDIC	RPRFITB	RPAYGU	RPAYNU	RPAYGTY
RPAYGLY	RPAYNTY	RPAYNLY	RJSPROF	RJSPAYG	RFIMNP
RFIMNB	RFIMNI	RFIMNT	RFIMNNL	RFIMNL	RFIMN
RFIYRL	RFIYRNL	RFIYRP	RFIYRB	RFIYRT	RFIYRI
RFIYR	RSPPAYG	RFIHHMN			

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

RJ2PAYI	RFIYRDII	RPRFITBI	RPAYGUI	RPAYNUI	RPAYGTI
RPAYGLI	RPAYNTI	RPAYNLI	RJSPRPFI	RJSPAYGI	RFIMNPI
RFIMNBI	RFIMNII	RFIMNTI	RFIMNLI	RFIMNLI	RFIMNTHI
RFIYRLI	RFIYRNLI	RFIYRPI	RFIYRBI	RFIYRTI	RFIYRII
RFIYEARI	RSPPAYGI	RFIHHMNI			

Record Type RJOBHSTD

This record contains information from the employment history over the period from the date of the interview at wave 16 or 1st September 2006 if there was no interview to the date of wave 17 interview. There is one record for each spell identified at questions J10 and J10b. In contrast to the annual employment history collected at waves 1 to 15, and contained in record wJOBHIST, the sequence of spells works forward from the situation at the time of the previous interview which is fed forward using dependent interviewing (or is asked if the respondent was not interviewed at the previous waves). See section IV.18 for further information on dependent interviewing. Data from this record have been reconstructed into the format as collected at previous waves. These data are contained in record RJOBHIST.

These records will only exist for respondents whose current labour force spell began after 1.9.2006. The additional key RJSPNO, identifies the sequence of job spell, with the most recent first. Note that values of RJSPNO on RJOBHIST and RJOBHSTD refer to different spells.

Record Type RINCOME

This record contains income and payment data. There is one record for each payment recorded at question F3.

This record will only exist for respondents with one or more payments recorded at question F1, (i.e. where RNF1 is greater than 0). For each payment identified at question F1 (i.e. in variables RF101 - RF159) then there will exist at least one RINCOME record with a corresponding value of RFICODE.

In those cases where payments from multiple sources were combined in a single payments and individual receipts could not be distinguished, RINCOME records will exist for each source, but the variables RNFR or RFRVAL may indicate that multiple amounts are referred to, or that the amount is given on another record.

RFIM09L - RFIM04N are derived variables indicating the estimated amount received in each month, taking into account joint receipt and changes in welfare benefit levels. These calculations depend on the variable RFRJTVF, which is a flag variable identifying whether a reported jointly received payment can be matched to any other persons payment. The code constructing these variables is in the procedure M18DV.RFIM.

The following variables have all missing data imputed:

RFRVAL RFIM09L to RFIM04N

See the User Documentation for a full discussion of imputation. Imputation flag variables are listed below. Note that a value is not imputed where the missing value code is -3 'amount included elsewhere'.

RFRVALI (This also implies imputation on RFIM09L to RFIM04N)

Record Type REGOALT

This record provides a mechanism for identifying the relationship of each individual in a household to all others. There are two records for each relationship pair to separately identify the relationship in either direction (e.g. one record identifies that person 1 is the parent of person 3, while another record identifies that person 3 is the child of person 1). The relationship codes are not gendered, so the sex of each person is also given.

The relationship given is that of the second person to the first (e.g. if RPNO = 1 and ROPNO = 3 and RREL = 4 (natural child)) then person 3 is the natural child of person 1.

The variable RLWSTAT allows the computation of household composition change measures since Wave Two.

Record Type RYOUTH

This record type contains responses to the Young persons' questionnaire, asked of children aged 11 to 15 on 1st December 2007. There will be one record for each respondent young person. Such respondents have the value 21 for the final interview outcome variable RIVFIO. The variable RYPWGHT contains an individual cross-sectional weight to be used specifically with the young person responses. Note that this weight assumes the inclusion of cases from the Scotland, Wales and Northern Ireland extension samples. The record contains the normal key variables RHID and RPNO, and children may be matched to their parents through the record REGOALT. See the note to the record type RINDRESP above for a discussion of corresponding parental questions. Note that these questions are asked of both natural parents and step parents.

Record Type RJOBHIST

This record contains information from the employment history over the period from 1st September 2006 to the date of interview. It is derived from the data contained in RJOBHSTD, which is collected in a different format from that used at waves 1 to 15, and is based on fed forward data from the previous wave. It has the same structure as wJOBHIST for previous waves with the order of spells being backward from the current spell to 1st September 2007. For continuing respondents, information about the situation at the time of the last interview has been copied from previous wave. For new respondents detailed information about the job held 12 months earlier is not available.

These records will only exist for respondents whose current labour force spell began after 1.9.2006. The additional key RJSPNO, identifies the sequence of job spell, with the most recent first. Note that values of RJSPNO on RJOBHIST and RJOBHSTD refer to different spells.

Derived variables are those from RJHENDD onwards. Where a job is with the same employer as previously mentioned and/or at the same workplace (OJHSTAT=1), then the values for RJHSIC RJHSECT and RJHSIZE are copied from the relevant record.

The following variables have all missing data imputed:

RJHGPAY RJHNPAY

See Section V.3 for a full discussion of imputation. Imputation flag variables are listed below.

RJHGPAYI RJHNPAYI

III.29. Related Data Sets

Two additional BHPS datasets have been deposited with the Data Archive. They contain additional derived variables and restructured data to facilitate particular types of analysis.

1. **Derived Net Income Variables for BHPS Waves 1-12**, deposited by Elena Bardasi and Stephen Jenkins

This data set provided net income variables for BHPS waves 1-12 for household in which all eligible adults gave a full interview (i.e. BHPS variable {a|b|c|d|e|f ivfho}=10). The new derived variables are an unofficial supplement to the derived variables supplied in the official release of the BHPS (see Taylor *et al* 1996). Observe that the derived variables in the official release refer to gross income, i.e. income before deductions for income tax, NI, pension contributions and local taxes have been made. Our net incomes for waves 1-12 have been derived using the June 2004 release of the BHPS. This release implies no specific commitment to provide similar variables for subsequent BHPS waves.

Our aim has been to produce a longitudinal complement to the cross section income distribution information provided by the Department of Social Security's Households Below Average Income (HBAI) reports, and to this end we have adhered closely to the HBAI definition of net income (DSS 1993). The authors have used these data in research covering various aspects of income mobility and poverty dynamics in the UK.

2. Unified BHPS work-life histories deposited by Brendan Halpin.

The British Household Panel Study collects extensive labour market history information from its respondents, both during the panel period and retrospectively from labour market entry. That this information is of necessity stored in multiple locations, and of varying levels of detail, has made use somewhat inconvenient. This group of datasets brings the labour market information together in more convenient formats including both monthly calendar files and spell files. The documentation discusses some of the problems of retrospective and panel longitudinal data, and discusses issues of recall error and measurement error which have had to be reached in bringing these data together. Technical paper 13 *Unified BHPS Work-life Histories: Combining Multiple Sources into a User-friendly Format* Brendan Halpin (1997) discusses the creation of this data set in more detail.

3. BHPS Sampler Teaching Data Sets

Under the programme of the longitudinal component of the Economic and Social Data Service Longitudinal, teaching data sets based on the BHPS have been created. These include a selection of variables related to a particular and combine variables from several waves into a single data set. At present two of these samplers exist: one containing variables relating to work, family, health and social status, and the other concerning social and political attitudes. Both contain data from waves 1 to 11. The data sets can be browsed using the Data Archive Nesstar system.

4. Area identifiers and other matched spatial data

A number of area identifiers for respondent locations, as well as data relating to these areas, which are not included in the main data set are available from the Data Archive under special license conditions. Further information about these data is available at <http://www.iser.essex.ac.uk/ulsc/bhps/acquiring/area> .

Separate documentation is available for these datasets. Please contact the Data Archive for further information

Table 8

BHPS USER DATABASE STRUCTURE : WAVE SPECIFIC RECORDS, FROM WAVE TWO ONWARDS			
RECORD NAME	UNIT OF ANALYSIS	KEY VARIABLES	CONTENT
BMARRIAG	Current and past marriage spells of respondents.	BHID BPNO BMARNO	Dates of : marriages, cohabitations leading to marriage and their dissolutions. Also (if ended) how ended. Identification of current marriage partner.
BCOHABIT	All spells of respondents' cohabitation of three months or more which did not result in marriage.	BHID BPNO BCSNO	Dates of start and end of all cohabitation spells.
BCHILDAD	All adopted or step children who have ever lived with respondent.	BHID BPNO BLACNO	Dates of birth, sex, status and dates of being in the care of the respondent.
BCHILDNT	All children born to or fathered by respondents.	BHID BPNO BLNCNO	Dates of birth, sex, and dates of being in the care of the respondent.
BLIFEMST	All employment status spells since leaving full-time education.	BHID BPNO BLESHNO	Dates of start and finish, length in months and status of employment spells.
CLIFEJOB	All job spells from first leaving full-time education up to 1.9.1990.	CHID CPNO CLJSEQ	Dates of start and finish, length in months and major job characteristics, including occupation, industry, job status, reason for leaving.
DYOUTH	All person aged 11-15 on 1.12.94 who responded to young persons questionnaire	DHID DPNO	All information from Young Persons Questionnaire covering health, and health related behaviour, social attitudes and aspirations.
EYOUTH	All person aged 11-15 on 1.12.95 who responded to young persons questionnaire	EHID EPNO	All information from Young Persons Questionnaire covering health, and health related behaviour, social attitudes and aspirations.

Table 9

STATISTICS FOR RECORD TYPES

Record Type	Wave One		Wave Two		Wave Three		Wave Four		Wave Five		Wave Six	
	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records
wHHSAMP	20	8524	20	5984	21	6534	23	6558	23	6553	23	6487
wINDSAMP	NA	NA	28	15213	25	16110	25	15903	25	15756	25	15659
wINDALL	34	13840	43	13151	43	13104	42	12851	42	12549	42	12720
wHHRESP	178	5511	160	5227	168	5232	168	5127	173	5033	206	5064
wINDRESP	787	10264	852	9845	870	9600	924	9481	997	9249	903	9438
wJOBHIST	43	3382	40	2918	40	2918	40	3011	40	3112	40	3019
wINCOME	45	10462	48	9939	48	9336	48	9437	48	9611	48	9723
wEGOALT	9	30626	10	29266	10	29034	10	28474	10	27262	10	28272
wMARRIAG	NA	NA	23	7967	NA	NA	NA	NA	NA	NA	NA	NA
wCOHABIT	NA	NA	11	1664	NA	NA	NA	NA	NA	NA	NA	NA
wCHILDNT	NA	NA	12	14383	NA	NA	NA	NA	NA	NA	NA	NA
wCHILDAD	NA	NA	15	850	NA	NA	NA	NA	NA	NA	NA	NA
wLIFEMST	NA	NA	13	35474	NA	NA	NA	NA	NA	NA	NA	NA
CLIFEJOB	NA	NA	NA	NA	28	32773	NA	NA	NA	NA	NA	NA
wYOUTH	NA	NA	NA	NA	NA	NA	101	773	99	749	99	748

Table 9 Continued

STATISTICS FOR RECORD TYPES

Record Type	Wave Seven		Wave Eight		Wave Nine		Wave Ten		Wave Eleven		Wave Twelve	
	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records
wHHSAMP	26	6531	25	7295	28	11944	28	12282	28	13986	28	12209
wINDSAMP	25	15583	24	17461	24	24553	28	25967	28	31458	33	29294
wINDALL	44	12552	44	14835	48	21566	52	21602	52	26586	54	23435
wHHRESP	209	5025	212	6005	214	8797	220	8761	220	10631	220	9352
wINDRESP	939	9373	1161	10906	1245	15623	1216	15603	1379	18867	1347	16597
wJOBHIST	39	3125	38	3505	38	5179	38	5451	40	5973	40	5043
wINCOME	64	9603	48	11873	54	18668	53	18767	53	22066	53	18414
wEGOALT	10	27398	10	32440	10	46650	10	47188	10	59710	10	52486
BMARRIAG	NA	NA	NA	NA	NA	NA	NA	NA	16	1375	16	598
BCOHABIT	NA	NA	NA	NA	NA	NA	NA	NA	9	1099	9	312
BCHILDNT	NA	NA	NA	NA	NA	NA	NA	NA	10	7840	10	5487
BCHILDAD	NA	NA	NA	NA	NA	NA	NA	NA	12	385	12	124
BLIFEMST	NA	NA	NA	NA	NA	NA	NA	NA	11	16215	11	7697
CLIFEJOB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
wYOUTH	94	720	94	946	79	938	79	1414	79	1413	90	1279
wCHILD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	6489

Table 9 Continued

STATISTICS FOR RECORD TYPES

Record Type	Wave Thirteen		Wave Fourteen		Wave Fifteen		Wave Sixteen		Wave Seventeen		Wave Eighteen	
	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records	Number of Variables	Number of Records
wHHSAMP	29	12176	30	12090	28	11915	28	11507	26	11498	27	11415
wINDSAMP	32	29028	32	28490	32	28011	32	27160	32	26845	33	26403
wINDALL	55	22574	55	22127	55	21730	55	21389	55	20715	61	20177
wHHRESP	220	9045	226	8897	226	8709	234	8603	233	8346	241	8144
wINDRESP	1410	16238	1280	15791	1235	15627	1437	15392	1317	14910	1327	14419
wJOBHIST	39	4803	39	4418	39	4489	39	3162	39	3241	40	2945
wJOBHSTD							24	3253	24	3241	24	2945
wINCOME	53	19597	53	19478	54	20382	54	22452	54	21133	43	20660
wEGOALT	10	50106	10	48982	10	48290	10	47272	10	45728	10	44298
BMARRIAG	NA											
BCOHABIT	NA											
BCHILDNT	NA											
BCHILDAD	NA											
BLIFEMST	NA											
CLIFEJOB	NA											
wYOUTH	90	1219	95	1397	88	1413	97	1360	100	1245	101	1222
wCHILD	33	1649							34	6676		

IV. Sampling and Survey Methods

IV.1. Sample Design for Wave One

A sample of 8217 addresses was drawn by CACI to a specification supplied by the Research Centre. The initial selection of households for inclusion in the panel survey was made using a two-stage clustered probability design and systematic sampling. This was approximately equivalent to the current sample design of the General Household Survey (GHS). The frame used for the selection of sample units was the small users Postcode Address File (PAF) for Great Britain south of the Caledonian canal (i.e. excluding Northern Ireland). This is the frame generally used by large government surveys and has several desirable features. Full details of this selection and the results are given below.

The British Household Panel Survey is a longitudinal survey of private households in Great Britain. The initial selection of households for inclusion in the panel survey was made using a two-stage stratified systematic method as a balance between efficiency and cost and is approximately equivalent to the current sample design of the GHS (Smythe and Browne, *Appendix C: Sample Design and Response*, 1992). This sample design is an approximately equal probability of selection method (espem) design. The frame used for the selection of sample units was the small users Postcode Address File (PAF) for Great Britain (ie excluding Northern Ireland). This is the main frame now used by large government surveys and is, in general, the most acceptable of available frames for the selection of a sample of households in Great Britain (Wilson & Elliot, 1987; Butcher, 1988). In the first stage of selection 250 postcode sectors were selected as the primary sampling units (PSUs) from an implicitly stratified listing of all sectors on the PAF using a systematic sampling method. In the second stage of selection, delivery points, which are approximately equivalent to addresses, were sampled from each selected PSU using an analogous systematic procedure. The details of the selection procedure are given below.

IV.1.1. Sample Selection Procedure

IV.1.1.1. Stage One Selection: Stratification and PSU Selection

At the first stage of sampling, 250 postcode sectors were selected as the Primary Sampling Units (PSUs), which on average contain 2,500 delivery points (equivalent to addresses). In order to make this selection, the population of delivery points was implicitly stratified into an ordered listing by region and three socio-demographic variables. The socio-demographic variables were derived from information obtained for the 1981 Census. Implicit stratification, through ordering the frame listing, allows for the use of systematic selection procedures and is preferred over explicit stratification, the definition of strata and subsequent independent sampling within each strata, since it is a more practical procedure when a large amount of stratification is employed, and helps to ensure an *epsem* sample. The PSUs were then selected from this listing using a systematic procedure with a random integer start and a systematically applied sampling interval.

For the purposes of stratification and selection, the size of each PSU was estimated as follows: for PSUs in England and Wales, size was estimated as the total number of delivery points in a given PSU; for those in Scotland, size was estimated as the sum of the Multiple Occupancy Indicators (MOI) for a given PSU. The MOI is an estimate of the number of separate units or households at a given delivery point. A full description of the stages of stratification and the PSU selection procedure is given below:

- a. The population of postcode sectors was ordered into 18 regions (see *Table 10*). All PSUs were then checked for size to ensure that they contained, at minimum, 500 households. Where PSUs did not meet the size criterion they were grouped, prior to the first stage selection, with their nearest adjacent sector, where adjacent was defined as the shortest straight line distance from the centre of the undersized sector.
- b. Within each of these implicit regional strata, PSUs were ranked in order by the proportion of

heads of households in socio-economic groups 1 to 5 and 13 (that is, the proportion of heads of households in professional or managerial positions). Within each region, PSUs were then split into major strata of approximately equal size (on the basis of estimated delivery points as calculated above). PSUs were not split between strata. The number of major strata varies by region from two to three, depending on region size and is detailed in *Table 10*.

- c. Within the major strata created within regions, PSUs were then re-ranked by the proportion of the population of pensionable age (ie females over 60 and males over 65). The order of sorting alternated between ascending and descending within each successive major strata (i.e. a serpentine listing), in order to ensure that the listing was as heterogeneous as possible so that potential periodicity problems in the frame could be avoided. The major strata were then split into two minor strata each of approximately equal size, PSUs not being split between strata.
- d. Finally, within the minor strata PSUs were re-ranked, again using serpentine listing under the following scheme:
 - (i) PSUs in non-metropolitan areas were ranked by the proportion of the employed PSU population working in agriculture (denoted AGEMP in *Table 10*) and
 - (ii) PSUs in metropolitan areas were ranked by the proportion of the PSU population that was both under pensionable age and living in single person households (denoted SPH in *Table 10*).

Two separate factors were used, since they discriminated overall population characteristics more effectively in the two types of area.

For example, *Table 11* gives a diagrammatic representation of the stratified listing for PSUs in Outer London:

From the resulting implicitly stratified ordered listing of the population of PSUs on the frame, 250 were selected with the probability of selection being proportional to the size of the PSU, using a systematic procedure with a random integer start and consistently applied sampling interval, with the list being treated as circular.

IV.1.1.2. Stage Two Selection: Address Selection

From each of the 250 PSUs selected at stage one, it was intended to select on average thirty three delivery points using a systematic sampling procedure. Since it was necessary, for reasons of fieldwork efficiency, to allocate interviewers to selected areas some time before the fieldwork period began the PSUs were selected some time before the final selection of delivery points. It was thought appropriate to select delivery points from the PAF as late as possible to ensure the use of the most recent possible list of addresses. In order to retain equal selection probability, some account had to be taken of changes in PSU size arising from PAF updates in the interval between the first and second stage selections. As a consequence, the final selected sample varied slightly from the required 33 addresses per section with, in total, 8166 delivery points being selected. The lowest number in any sector was 21 with the highest being 36.

There were slight differences in the methods of address selection in Scotland compared to England and Wales as described below.

Table 10 Definition of Regions and Strata

REGION	MAJOR STRATA	MINOR STRATA	PSUs RANKED BY
INNER LONDON	2	2	SPH
OUTER LONDON	3	2	SPH
REST OF SOUTH EAST	3	2	AGEMP
SOUTH WEST	3	2	AGEMP
EAST ANGLIA	2	2	AGEMP
EAST MIDLANDS	3	2	AGEMP
WEST MIDLANDS CONURBATION	2	2	SPH
REST OF WEST MIDLANDS	2	2	AGEMP
GREATER MANCHESTER	2	2	SPH
MERSEYSIDE	2	2	SPH
REST OF NORTH WEST	2	2	AGEMP
SOUTH YORKSHIRE	2	2	SPH
WEST YORKSHIRE	2	2	SPH
REST OF YORKSHIRE AND HUMBERSIDE	2	2	AGEMP
TYNE AND WEAR	2	2	SPH
REST OF NORTH ENGLAND	2	2	AGEMP
WALES	2	2	AGEMP
SCOTLAND	3	2	AGEMP

Table 11 Outer London PSUs

% HouseHolds in SEG 1-5 & 13	HIGH		MEDIUM		LOW	
% Population Pensionable	HIGH	LOW	LOW	HIGH	HIGH	LOW
% Population Under Pensionable Age in SPH	HI>LO	LO>HI	HI>LO	LO>HI	HI>LO	LO>HI

Selection of Sectors in England and Wales

Each delivery point was selected with equal probability. Sampling was carried out by means of a random number start and a systematically applied sampling interval. The random start was an integer chosen from the range 1 up to and including the interval. Since changes had occurred in the sizes of some of the selected sectors in the updated PAF, the applied sampling interval was taken as the new sector size divided by the required number of addresses (ie 33) adjusted by the ratio of the old sector size to the new sector size.

Selection of Sectors in Scotland

Each delivery point was selected with probability proportional to its MOI. An analogous systematic procedure was used as defined above using the same definitions of the random start integer and the sampling interval.

IV.1.1.3. Stage Three Selection: Selection of Households within Delivery Points

Non-residential addresses were excluded from the sample at the interviewing stage of Wave One, as were institutions. For the purposes of the survey, an institution was defined as

an address at which four or more unrelated people sleep; while they may or may not eat communally, the establishment must be run or managed by a person or persons employed for this purpose by the owner.

Selection of households from delivery points was carried out by the interviewers at the time of fieldwork. The selection procedure used by the interviewers was as follows: for a selected delivery point with up to three households present, all households were included in the sample. If there were more than three households at an address, a random selection procedure defined on the total number of households present was used to select three households from the total number available for inclusion in the sample. This was operationalised using a Kish Grid on the Multi-Household Selection Sheet. Ideally, given the different address selection procedures in Scotland, a different procedure would have been adopted for multiple households there. However, it was found to be impossible to carry out a more precise selection procedure due to fieldwork and organisational constraints. The design weights allow for this problem (see section on Weighting and Imputation).

The standard OPCS definition of a household was used to establish the sample:

one person living alone or a group of people who either share living accommodation OR share one meal a day and who have the address as their only or main residence.

Up to six months continuous residence during the year was a minimum requirement, thus excluding students who might have been at a parental home during vacation. Students sampled at their term-time address were included if this was non-institutional (i.e. not a hall of residence). Interviewers identified a

Household Reference Person (HRP) using the following definition: the *person legally or financially responsible for the accommodation or the elder of two people equally responsible*.

Interviews were sought with all resident household members who were aged 16 or over on 1st December 1991. Proxy interviews were attempted for all eligible members of the household who could not be interviewed because of illness or absence.

IV.1.2. Sample Size Calculations

The target sample size was set at 5000 households with the following calculations defining the required number of addresses to be selected in order to achieve this. The divergence of the selected sample from the calculations presented here was due to the updating of the PAF between the times of PSU and address selection, as explained above.

- a. Assuming a 67.5% response rate:
 $5000 \times 1/1.675 = 7407$ households need to be selected
- b. Assuming, on average, 1.02 households per address:
 $7407 \times 1/1.02 = 7262$ addresses need to be selected
- c. Assuming 12% of addresses on the frame are ineligible:
 $7262 \times 1/1.88 = 8252$ addresses need to be selected
- d. Given that the sample is approximately equally spread over 250 PSUs:
 $8252/250 = 33$ addresses need to be selected per PSU

IV.1.3. Bibliography

Butcher, R. (1988) "The use of the post-code address file as a sampling frame." *The Statistician*, 37; pp 15-24.

Smythe, M. and Browne, F. (1992) *General Household Survey 1990, OPCS Series GHS no.21*, HMSO: London.

Wilson, P.R., & Elliot, D.J., (1987) An Evaluation of the Postcode Address File as a Sampling Frame and its Uses with OPCS., *JRSS(A)*, 150(3), pp 230-240.

IV.2. Sampling and Following Rules after Wave One

This section reproduces information also appearing in *Section II*.

The sample for Wave Two and beyond consists of all eligible adults in all households where at least one interview was obtained in Wave One, regardless of whether that individual had been interviewed in Wave One. Thus, with a few exceptions, an attempt was made to interview all those individuals in responding households who had refused to participate at Wave One, or for any reason had been unable to take part. All these sample members are known as Original Sample Members (OSMs). In addition, a number of households where no contact had been made in Wave One were approached for interview in Wave Two after confirmation that no household moves between waves had taken place.

The following rules applied in subsequent waves differed from the sample rules in Wave One in only one respect. In both, eligibility depends on domestic residence in England, Wales, or Scotland below the Caledonian Canal. However, OSMs were followed into institutions (unless in prison or in circumstances where the respondent was not available for interview e.g. too frail, mentally impaired and so on) in waves after Wave One, or into Scotland north of the Caledonian Canal.

New eligibility for sample inclusion could occur between waves in the following ways:

1. A baby born to an OSM.
2. An OSM move into a household with one or more new people.
3. One or more new people move in with an OSM.

Children born to OSMs after the start of the study automatically count as OSMs. New Entrants to the sample (categories two and three) become eligible for interview on the standard OPCS household definition, (i.e. as long as they were living with an OSM and 'either share living accommodation OR share one meal a day and have the address as their only or main residence'). The main requirement for marginal cases of household membership was six months continuous residence during the year. This excluded students who might have been at a parental home during vacation (students were treated as members of their term-time household). The household non-contacts from Wave One referred to above count technically as OSMs but for all practical purposes (in particular the need to obtain 'initial conditions' data) were treated as new entrants. The sample for each wave thus consists of all adult OSMs plus their natural descendants plus other adult members of their households, known as Temporary Sample Members (TSMs).

Once household membership is determined, interviews are sought with all resident household members aged 16 or over on 1 December of the sample year, thus including OSMs previously coded as children. Proxy interviews with another household member were carried out for eligible members who were either too ill or too busy to be interviewed.

Where OSMs were not found at the expected address, interviewers attempted to trace them using a variety of methods. These are described below. Interviewees who do not qualify as OSMs are only re-interviewed in subsequent years if they are still co-resident in households with OSMs. However, a subset of TSMs become permanent sample members, and are followed even if they no longer reside with an OSM. The criteria for this status is that the TSM is the parent, with an OSM of a new OSM birth.

In Wave One, the sample was of individuals in private households; in subsequent waves, however, the sample consists of all original sample members from Wave One plus people co-resident with OSMs. Sample members in institutions are interviewed whenever possible, excluding, as in Wave One, those in permanent or long-stay institutions where the respondent was too elderly or too unwell to be approached, and those in prison.

All non-responding adults within responding households were 're-issued' in Wave Two and beyond, while whole-household non-responders are withdrawn. An exception was made, however, in the case of a non-contact at a located address, partly in order to see whether their characteristics differed significantly from those of the main sample. From fieldwork through to analysis, this group has been treated as a distinct sub-sample.

In Wave One, 288 households fell into the above category. A number of these may have been genuinely unoccupied; even where occupied, the occupants may have moved out between Waves One and Two. Only those originally resident could count as eligible for the attempted re-contact. A brief questionnaire was therefore sent to each of these addresses asking if the resident was living there before the end of Wave One fieldwork (taken for this purpose as the end of 1991). Negative replies were received from 15 addresses. All of those remaining, other than three refusals, were reissued in Wave Two. Interviews were achieved in 43 households, producing 79 OSMs, of whom 62 were adults (and including five new entrants). The exercise produced 60 interviews or proxies.

IV.3. Data Collection and Fieldwork

The Research Centre together with NOP Social and Political (a part of MAI), who were commissioned to conduct the fieldwork, worked closely together on all aspects of data collection, implementing an agreed set of survey-specific procedures designed to ensure adequate response and effective data quality.

For field purposes, the British Household Panel Survey is called simply 'Living in Britain.' The complexity of the survey and the need to maintain the panel year-on-year necessitated a close and continuous working relationship between the Centre and its fieldwork agency throughout the year. NOP organised and controlled fieldwork, editing, coding and data-entry, and at the same time advised on the design of all research instruments. Primary responsibility for design work and production of interviewer instructions, as well as design and production of additional briefing materials remained with the Centre, which also provided staff on a regular basis to advise on editing and coding decisions. The Centre also played a major role in quality control through specification of fieldwork practices, editing and coding requirements; random review of editing outputs; accompaniment of interviewers; supplementing checks

on interviews with telephone calls to respondents; and subjecting fieldwork progress to detailed weekly scrutiny. An agreed set of survey-specific procedures designed to ensure adequate response and effective data quality reinforced this working relationship. Full details of these, and other technical aspects of the data collection and fieldwork, coding, and data processing can be found in *The British Household Panel Study Technical Reports*. See *Appendix 5* for a full list of **BHPS** publications.

IV.4. Preparatory Work for Wave One

The first stage of the Wave One Mainstage survey was preceded by a number of pretests and pilots. Pretest interviewing allowed draft questionnaires and procedures to be tested, evaluated and improved. Pilot interviewing was a "dress rehearsal" testing of the data collection instruments and procedures. By way of example, the schedule for this is illustrated in *Table 12*.

Table 12			
PRETESTS (50 - 300 issued addresses)			
Tests	Location	Fieldwork Organisation	Date
Household and employment	Colchester and Sheffield	Research Centre	April 1990
All schedules	Colchester and Sheffield	Research Centre	May 1990
All schedules and full procedures	Colchester and Sheffield	Research Centre	June/July 1990
	London	NOP	
Calendar Design	Colchester	Research Centre	September 1990
PILOTS			
Full Dress Rehearsal (effective sample size = 657 HH)	National	NOP	Oct/Nov 1990
Full Dress Rehearsal (effective sample size = 609 HH)	National	NOP	April/May 1991
<i>Note:</i> Effective sample size = issued addresses minus ineligible addresses. The achieved response rate in the first pilot was deemed inadequate as a preparation for mainstage; the second pilot was established to ensure a successful full-scale rehearsal.			

IV.5. Preparatory Work for Subsequent Waves

For subsequent waves, mainstage fieldwork is preceded by two pre-tests and (Waves Two and Three) a full-scale pilot. Pretests were used to test the variable component that was added to each wave. Feedback from interviewers in debriefings after both pretests and the pilot facilitates important revisions of both the new section of the questionnaire and the longitudinal fieldwork procedures.

IV.6. Interviewers

For Wave One, 243 interviewers were employed to cover 250 areas in the sample, generally one per area. Because of the demanding nature of the **BHPS** special attempts were made to use interviewers of above average levels of experience and ability.

In subsequent waves, the great majority of respondents still lived in the same two 250 sectors, but because of household and individual moves, the sample has become slightly, but progressively more, dispersed over time. Details of movers are given to NOP and local NOP field managers are advised on which of the 250 original interviewer allocations it was most sensible to put each mover. Thus, to all intents and purposes, there remain 250 sample areas. With the exception of the Inter-Penetrated Sample, described below, generally speaking one interviewer works in each of the 250 areas in the sample. In total, for example, 237 interviewers worked on Wave Two, all but 35 of whom had also worked on Wave One.

IV.7. Briefings

For Wave One, all interviewers and field supervisors were briefed at one of 14 two-day briefing sessions, presented jointly by the Research Centre and NOP all round the country. A special training video was prepared by the Centre for use in these briefings.

In subsequent waves, interviewers and area managers are briefed at one of 14 briefing sessions, held in different locations. All the interviewers with previous **BHPS** experience attend one-day briefings, while the interviewers new to the survey attend a two-day briefing, conducted jointly by NOP executives and Research Centre staff. Again, a short video is included as part of the one day briefing, designed to give interviewers a greater understanding of the way in which the whole **Living in Britain** survey works. In particular, it shows the coding team using the *CASOC (Computer Aided Standard Occupational Classification)* coding and the problems that can arise from inadequate job descriptions.

IV.8. The Fieldwork Process

The Wave One fieldwork period started on 3 September, and ended in mid-December with some minimal follow-up work in early 1992.

Before contacting any of their sample, interviewers mailed out an introductory letter from the Research Centre to all sampled addresses (addressed to "The Occupier"), together with a small leaflet outlining the purpose of the survey. The interviewer called within a week of dispatch. All participating households later received a more detailed brochure, giving further information about the survey and thanking respondents for participating. Copies of the documents sent to respondents can be obtained from the Institute for Social and Economic Research.

A minimum of six calls was made at each sampled address before it was considered a non-contact; interviewers were encouraged to make further calls, if possible. If the Centre considered a conversion of those households which refused to participate worthwhile, a special conversion letter was sent by the Centre. In all, 685 refusals were re-contacted, and 62 extra interviews were obtained by supervisors converting refusals into interviews. In total, interviews were achieved in 5538 households, with full or proxy interviews with 10,302 individuals.

In subsequent waves, all eligible respondents, excluding a small number of firm refusals, were sent an advance letter prior to contact by the interviewer. Interviewers were supplied with this introductory letter for every eligible member of their sample households and were responsible for posting this just before expecting to call on the household.

The fieldwork period thus starts in early September, though the start is staggered over three weeks because of the spread of briefings. Most of the fieldwork is completed by the beginning of December, but with the time-lag resulting from the process of tracing of movers and conversion of refusals, a small number of interviews are undertaken in the first three months of the next year.

In line with the overall concern for quality control, all interviewers are accompanied at the beginning of the interview period by their supervisor, who complete a duplicate copy of the interview. A twice weekly field progress monitor carried out by supervisors assesses interviewer progress. This information is, from Wave Two, fed into a specially designed computer database, which produces weekly summary report which are sent to the Centre. Two forms of post interview quality control are carried out: a postal recall on 10% of all completed interviews, and field supervisor recalling on completed interviews by

phone to check that an interview has taken place in that household, and that the claimed individual interviews has been conducted. The Research Centre supplements the call-back quality control process by telephone. In addition to the above consistency checks, this provides an indication of respondents' reactions to the **BHPS** interview on issues such as the length of the interview, content, concerns about personal questions obtaining personal and possibly sensitive information and other overall impressions.

IV.9. Refusal Conversion

At each wave, the Centre and NOP undertake a thorough refusal conversion process to attempt to minimise attrition due to refusal and other forms of non-response. This process covers both previous wave refusals, and also new refusals encountered in the current wave. This section describes this refusal conversion process, and the conditions under which we withdraw previous wave refusals from the **BHPS** survey process. For illustrative purposes, the situation for Wave Three is discussed here.

IV.9.1. Previous wave refusal

The refusal conversion work undertaken at Wave Two left a complicated pattern of types of refusal to deal with in Wave Three. In total, there were 654 refusing households at Wave Two, broken down into the categories given in *Table 13* below.

Table 13

Wave Two Whole Household Refusal	N	%
No conversion attempted	197	30.0
NOP attempted conversion but failed	181	28.0
Centre attempted conversion but failed	241	37.0
Centre converted by phone. NOP were refused interview	35	5.0
Total	654	100%

With regard to whole household refusal, the Wave Two conversion programme mounted by the Centre comprehensively reviewed these cases, contacting and returning to those which it was considered might be converted. In addition, up to three attempts were made to convert these households (interviewer, supervisor, Centre). We did not seek to interview any households in these categories again unless there was reason to believe that the refusal was for Wave Two only and that the respondent would agree to be interviewed this year. Prior to Wave Three, all Wave Two refusals were extensively reviewed. Out of all 654 Wave Two refusing households, 354 (54%) were re-issued at Wave Three.

IV.9.2. Current wave new refusals

When new refusals were encountered at Wave Three, a number of procedures were implemented:

1. A refusal form was used consisting of a full A4 page integrated within the coversheet. This allowed the interviewer to give more detail on the nature and reason for refusal. Each subsequent conversion attempt was logged on this form or continuation sheets.
2. A wider group of experienced interviewers was asked to take on conversions in order to limit the distance field managers have to travel.
3. A bonus payment was given to interviewers for successful conversions.
4. In some circumstances interviewers were issued with vouchers prior to returning to attempt

conversion.

Different types of refusal warranted different responses as highlighted below:

- 1. Weak reasons for refusal: can't be bothered, too busy, boring, did not receive vouchers last time, and so on:** these respondents were sent a conversion letter and reissued with vouchers to be given on successful completion of interview.
- 2. Strong reasons for refusal but not conclusive: I am busy looking after very ill parent, I have just come out of hospital:** these respondents were sent a conversion letter, and telephoned if possible from Centre. If there was no telephone number, respondents were written to, with a return slip indicating willingness for continued co-operation. If the respondent decided to continue to take part, they were reissued with vouchers.
- 3. Conclusive refusal: do not darken my door again, and so on:** no action was taken with respondents in this wave. Judgement as to whether to try again at the next wave will be made by the Centre. Two consecutive conclusive refusals are seen as signalling the household's withdrawal from the survey after tailored persuasion letters have failed to have any affect.

Table 14 illustrates the variety of reasons given by households for non-participation at Wave Three. Although the total number of household refusals (758) initially looks quite high, 354 (47%) of these households had also refused to participate at Wave Two, but had been reissued in the hope that their situation might have changed.

When a phone number was available and a conversion attempt was judged possible, the Centre attempted telephone conversions from January 4th 1994 onwards. When the attempt was successful, the household was reissued to the original interviewer, who had to call within 7 days of receipt of the coversheet. If successful, the interviewer received the usual interview fee plus a bonus; if not, the interviewer got the usual non-contact fee plus the bonus.

An aspect of refusal conversion new to Wave Three and a feature of all later waves was the introduction of a short telephone interview, carried out by a single, very experienced interviewer, hired directly by the Research Centre. Her initial approach on each call was to elicit the respondent's view of the survey and what aspect of it, if any, had led to their refusal. The telephone interview is only taken with respondents who are definitely unable to be interviewed at the current wave and would therefore refuse any other approach.

Table 14

Reasons given for Household Refusal at Wave Three	Frequency	Percentage
Competence of Respondent		
Too ill	83	11.0
Too elderly	6	1.0
Respondent is senile or incompetent	22	3.0
Respondent does not speak English	5	1.0
Stressful family situation	49	6.5
Too Busy		
Looking after ill/elderly	6	1.0
Looking after child(ren)	3	0.5
Respondent almost never home	29	4.0
Respondent is temporarily absent	8	1.0
Too busy (not elsewhere specified)	70	9.0
Personal Reasons		
Unhappy about confidentiality	5	0.5
Questions too personal	20	2.5
Attitudes towards survey		
Respondent does not want to be bothered	172	23.0
Nothing has changed since last year	10	1.0
Survey is too long	20	2.5
Survey is waste of time	19	2.5
Previous bad experience with surveys (in general)	4	0.5
Had problems with LIB voucher payment in past	16	2.0
Family Pressure		
Other family member opposes Respondent participating	23	3.0
Someone has convinced Respondent to refuse	3	0.5
Other HH member refuses on behalf of Respondent	29	4.0
Other		
Other	10	1.0
No reason given	146	19.0
Total	758	100%

They fell mainly into the following groups:

- a) **Too ill/old**, e.g. respondents who were unable to give an appointment because of the changing conditions of their health or would find it difficult to sit through a one-hour interview.
- b) **Personal Circumstances**, e.g. respondents who had recent bereavements in the family or are going through a divorce.
- c) **Too busy**, e.g. respondents who were carers or had other heavy commitments and just didn't have the time.

Telephone interviews were carried out only with those who had been interviewed either at Wave One or Wave Two.

Where no telephone was available, but conversion was judged possible, the Centre sent the respondent a letter with a bonus voucher and a refusal card. If the card was **not** returned within 7 days, the nearest interviewer called. For a successful interview at this point, the double interview rate was paid. Respondents achieved a further voucher payment following the interview.

Letters were sent to those without a phone number, followed by a visit from an interviewer with access to all the notes made by the previous interviewer and, where applicable, the relevant field executive. (In most cases, the re-call was made by the original interviewer, who received a bonus for a successful conversion.) In addition, respondents received an extra gift voucher, partly as an acknowledgement that more approaches had already been made to them seeking an interview than in other cases (for instance, by a field executive after the first refusal). To maximise response, this voucher was sent in advance of the interview.

Conversion procedures were implemented on 546 households during Wave Three. The impressive results of this exercise can be seen in *Table 15*

Table 15

Summary of Wave Three Refusal-Conversion Exercise		
	N	%
Telephone Conversions	95	17.0
Postal Conversions	12	2.0
Telephone Interviews	254	47.0
Total Converted	361	66.0
Not Converted	185	34.0
Total Attempted	546	100

IV.10. Maintaining Contact with Respondents

The process of maintaining contact with respondents is obviously, in a household panel study, a crucial and complex one which continues throughout the year. The description below outlines some of the techniques used in the **BHPS** to maintain contact with panel respondents, and to trace those who moved in the period between fieldwork periods of successive waves.

IV.10.1. Panel maintenance

The Centre maintains an extensive database of information on respondents' location; this database is continuously up-dated with new information which it receives. This database is the basis on which all fieldwork documents for successive waves of the survey are prepared.

At least two types of communication with respondents are made between each wave, both to ensure accurate information on residence before entering the field in September, and to foster a sense of identity with the survey among respondents. After the interview, a thank-you letter is sent from the Research Centre to all those interviewed, enclosing a gift voucher and a change-of-address card requesting notification of any intended move. Prior to fieldwork for the next wave, a summary report of findings was sent to all adults (except refusals), enclosing an address-confirmation card. Interviewers were subsequently informed of all address confirmations so that they could identify addresses which required checking early in the fieldwork period. Cards also requested information on any moves by respondents from the household in the past year, even if members of the original household were still remaining at the original address. This not only minimised the amount of tracing work required of interviewers during fieldwork but also aided the preparation of correct documents for each address. The cards were also often forwarded to the Centre in cases where a whole household had moved, or a new resident returned the card giving the forwarding address. Finally, some deaths were also notified to the Centre through this means. (A letter of condolence is usually sent where this is considered appropriate.)

The result of this work means that some major aspects of the sample issued in each wave are significantly different from that which existed at the end of the previous wave, with many new addresses, household splits, and moves out-of-scope (or into an institution). Deaths could also be taken into account.

IV.10.2. Procedures during fieldwork

Within the Centre, cover sheets were produced containing the last known address of sample members, using information from the panel maintenance database mentioned above. Moves notified subsequent to this but prior to the briefings were given to interviewers on separate listings. Moves discovered by interviewers during fieldwork were dealt with in two ways:

1. The interviewer was required to seek a forwarding address or phone number from other respondents, any new residents, neighbours. Failing these sources they were asked to consult local phone directories, shops or the post office where appropriate.
2. Where no forwarding address was available, they were required to enter details of the missing respondents on a **movers form** for return to the Research Centre. Panel maintenance staff then approached people that respondents had given as points of contact at the end of the previous wave (see tracking section in the household composition form (*Volume B*)). Attempts were made to trace people who failed to give contact names, or where no forwarding information was obtained from these, through access to the computerised telephone directory, though this helped in only a very small number of cases.

IV.11. Confidentiality and Informed Consent

The Research Centre has adopted, in full, the Ethical Guidelines of the Social Research Association, which conform very closely with those of the International Statistical Institute. To ensure confidentiality, names and addresses are separated from substantive data in both its computer and paper records, and strict internal procedures are enforced. All staff are required to sign an undertaking of confidentiality. Every attempt was made to ensure that people approached for interview could respond on the basis of informed consent, by:

- a. sending letters to sampled households in advance of fieldwork, enclosing a freephone number, allowing time and opportunity for potential respondents to seek further information or to refuse an interview.

- b. providing background information through a leaflet and a brochure, either before or during interview, and a report on findings some time after interview. It also made available a Statement of Confidentiality upon request. (Copies of these, and other respondent documents, can be supplied on request).
- c. requiring interviewers to read the following statement before interview:

This interview is completely voluntary. If we should come to any question that you don't want to answer, just let me know and we'll go on to the next question.
- d. requiring interviewers to make clear before leaving each respondent that the survey would continue in the following year. Tracking information is obtained to allow respondents to be traced in case of loss of contact. No attempts are made to persuade respondents to commit themselves to the entire life of the panel.

The Centre has registered its analysis of the **BHPS** data with the Data Protection Registrar.

IV.12. Data Processing

BHPS data have gone through two major processing phases, carried out by the fieldwork agency NOP and at the Research Centre:

Visual edits and data input;
Data cleaning.

Figure 5 presents an overview of the **BHPS** Survey Data Processing steps

IV.12.1. Visual edits and data input

The **BHPS** data were collected via a paper and pencil questionnaire. Visual edits are restricted to a small number of crucial checks, including one to ensure that identifiers have been correctly carried over between schedules. After coding of open ended questions, data are keyed to disk by the fieldwork agency (NOP), 100% verified, and are then subject to a small number of checks for the overall integrity of the raw data structures prior to being sent to the Centre for more in-depth processing.

IV.12.2. Data cleaning

During the initial period of the data processing cycle, the Centre receive small amounts of data from NOP on a periodic basis. At the Centre, they are put through a staged series of procedures to check both for consistency and plausibility.

On receipt, each batch of raw data are scanned to produce a listing of card types associated with each household and with each person in it; this listing is cross-checked against the schedules received to ensure both that no schedules have been lost and that all schedules have been punched. In addition, a small number of checks are run to ensure that the data can be loaded into the "survey" database with the minimal number of structural errors.

Once error free to this point, the raw data file is restructured, loaded into the survey database, and subjected to a more intensive cycle of checking and cleaning.

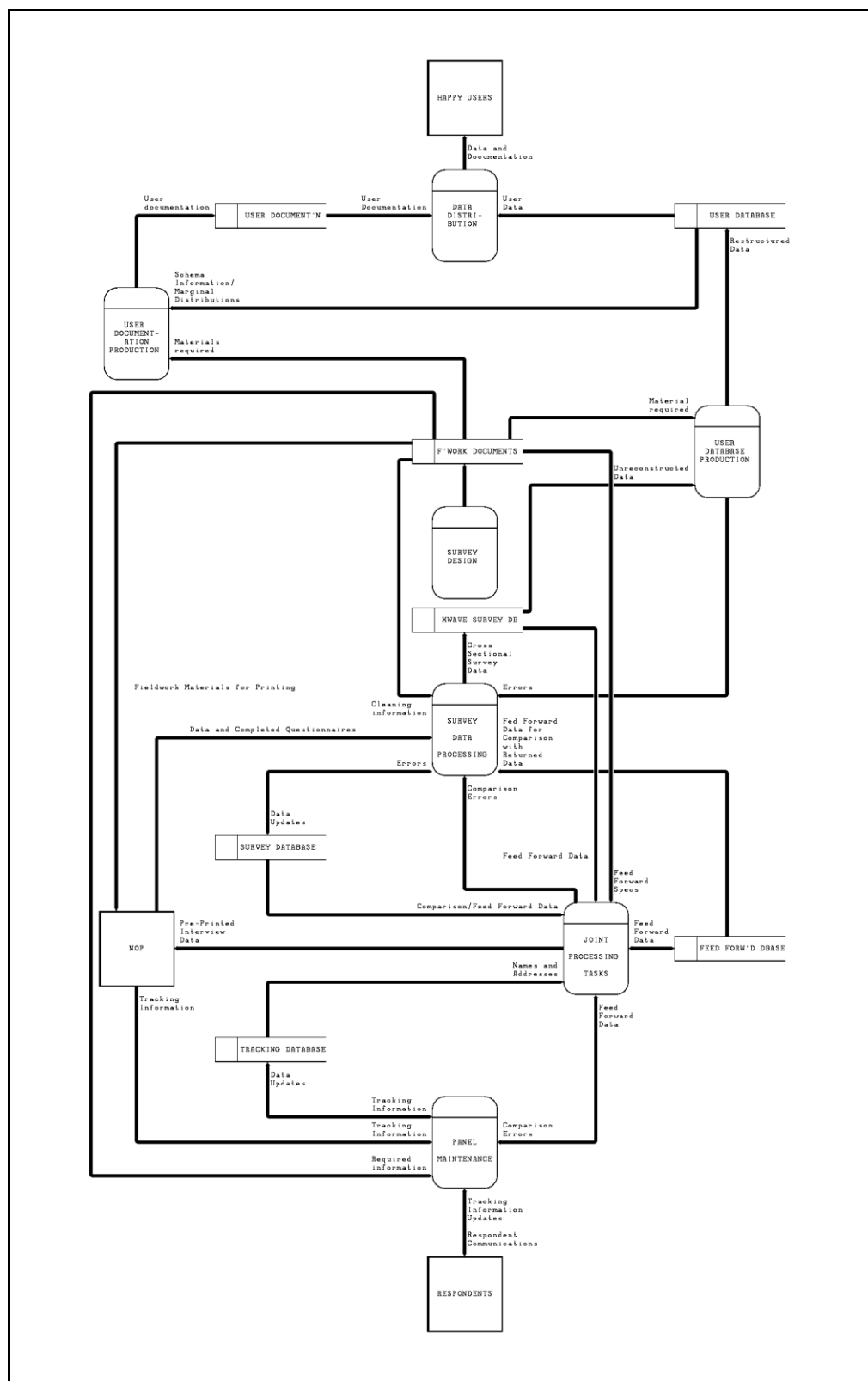


Figure 6 Overview of BHPS Survey Data Processing

The "survey" database refers to the data structures in use during the data cleaning process. The structures have been designed to represent as accurately as possible the structure and content of the questionnaire, and have been implemented as a "caseless" (i.e. non-hierarchical) SIR database.¹ It is necessary to restructure the raw data in order to map its "card" based logic on to the "record" based logic of a SIR database, and to define a suitable household level identifier for each Record Type.

Range checks are implemented across all variables, and the data undergo two major sets of consistency checking and cleaning procedures. The first set checks for major continuity errors, data assignment errors, errors in inter-person referencing within a household, as well as a wide range of checks on the integrity of the job history section. The second set deals with the remaining continuity errors. At all points, "global" edits are employed whenever the detailed examination of a set of errors indicated a systematic problem which can be corrected by a general re-code.

Additionally, Centre staff have access to the data throughout the cleaning period, and their analyses have also contributed to the data cleaning exercise.

IV.13. Coding

All occupations are coded to the 1990 OPCS Standard Occupational Classification and also to the 1990 Standard Industrial Classification. SOC coding was carried out using the Computer Assisted Standard Occupational Classification (CASOC) system developed by Peter Elias.² This involves keying into a computer the verbatim description of occupation recorded by the interviewer. The computer then suggests a single suggested code, or a series of suggestions. In the latter case, the coder uses other information on the questionnaire, and other information about the codes supplied by the computer, in order to assign a final code for that occupation. In all cases a full 6 digit code was assigned, the first three digits being the normal three-digit SOC, and the other three being special codes used to permit matching between 1990 SOC and previous occupational classifications. A special feature of CASOC is that it contains the algorithms to re-code SOC codes into SEG, RGSC, Goldthorpe, Hope-Goldthorpe, Cambridge Scale and ILO-ISCO 88. This re-coding has been carried out in the current release of **BHPS**. All the derived occupation/class variables data have been done via the CAMCON utility in CASOC.

Coding of all other open questions are carried by trained coders using traditional paper based methods. In some instances this is carried out using pre-existing coding frames, such as the 1980 Standard Industrial Classification. Where such frames do not exist, they are developed by the Research Centre on the basis of listings of verbatim responses.

As a validation exercise on the coding, a sample of questionnaires was subjected to blind re-coding by a second coder. All questions coded were included in the re-coding, with a sample of 5% or 250 cases being re-coded. The results of this validation exercise are in *BHPS Technical Paper 7*.

IV.14. The Inter-Penetrating Sample

As part of the Research Centre's on-going programme of methodological research, an experiment was conducted in Wave Two to try to measure correlated response variance, in the form of interviewer effects. Normally interviewer effect is hard to assess in a survey because each sampling point is only worked by one interviewer, and so it is impossible to separate interviewer from other effects.

An inter-penetrating design was implemented in a sample of PSUs in Wave Two of the survey. Due to field requirements and travel costs, the BHPS adopted a constrained form of randomisation in which addresses were allocated to interviewers at random within geographic 'pools'. These pools consisted of two or three nearby PSUs. All PSUs whose centroid was a minimum of 10 kilometres away from the centroid of at least one other PSU were eligible for inclusion in the design. One hundred and fifty three

1. For more information on the Survey Database and its "caseless" structure, please refer to *Appendix 1*.

2. For a full discussion of CASOC, see: Elias, Peter, Keith Halstead and Keith Prandy: *Computer Assisted Standard Occupational Coding (CASOC)* 1993. London: HMSO

of the 250 PSUs in the **BHPS** sample were eligible. Mutually exclusive and exhaustive combinations of these 153 eligible PSU's were then formed. This process resulted in 70 pools of two or three PSUs each. A systematic sample of 35 pools was then selected for inclusion in the inter-penetrating sample design.

Twenty six of the 35 geographic pools included 2 interviewers and 2 PSUs, 5 included 3 interviewers and 3 PSUs, and four proved to be ineligible as the same interviewer was needed to cover all of the PSUs in the pool. Within a given pool, households were randomly assigned to the interviewers working in those PSUs.

Households involved in the experiment are indicated in the dataset by the variable BIVIPS, where 1 = Designated for experiment, 2 = Not designated for experiment, and 3 = Designated for experiment but ineligible because moved out of pool. The case of a 2 interviewer/2 PUS pool can be conceived of as a two-by-two table.

		AREA (BIVIA)	
		001	006
001 Interviewer assignment (BIVIAM)			
006			

As area and interviewer variance components are no longer confounded, one can obtain a separate estimate of the correlated response variance due to interviewers. This can be thought of as a pseudo design factor for interviewers, that is

$$\text{pseudo-deft} = \sqrt{1 + p(m-1)}$$

where *#m#* is the average interviewer workload and *p* is the intraclass correlation coefficient for interviewers. This has an effect on confidence intervals in the same way as a standard deft.

$$\text{estimated proportion} + 1.96 \times (\text{pseudo-deft} \times \text{se}_{\text{se(prop)srs}})$$

Ideally both pseudo-deft and deft should be considered in the width of the confidence interval. Incorporating an independent estimate of each of these in the above formula, however, will over-estimate the width of the confidence interval as the two defts are correlated.³

IV.15. The Young Person's Survey: The British Youth Panel (BYP)

Background to the survey

The BHPS was supplemented in wave four to include children in sample households and this has been maintained in subsequent waves. The age band is 11 and 15 inclusive but with slight alteration at each end of this range in line with the BHPS criterion for selection into the adult sample. Those 15-year olds turning 16 by 1 December in the current wave are interviewed as adults rather than in the youth survey even if interviewed before then, while 10-year olds turning 11 by this date are included.

The Institute is very grateful to the Health Education Authority for its help in funding this extension to the BHPS in wave 4 and subsequently. The BYP offers for the first time in this country a yearly panel survey which offers three important research advantages:

3. A thorough exploration of data from the experiment was conducted by P. Campanelli (Survey Methods Centre, SCPR) and C O'Muircheartaigh (LSE). P Campanelli (35 Northampton Square, London EC1V OAX, 071-250-1866) can be contacted for further information.

1. Because of the transitional nature of adolescence, youth panels are a scarce resource. The BYP is an on-going panel with an increasing pool of transitions which can be studied as new 11-year olds are added and as the cohorts move upwards one year. Every year the number of wave-on-wave and longer transitions increases.
2. Equally, as respondents move into the adult survey analysis of their responses in the BYP can be linked to their responses in the BHPS.
3. As with the BHPS, the full range of household information is available to enable analysis of the impacts of both home context and of specific relationships, whether with parents, siblings, or other household members.

Interview procedure

The questions for the children are tape-recorded and delivered through use of a personal stereo system, which respondents can control at their own pace. The child can therefore also complete the questionnaire while adult members of the household are being interviewed. The interviewer's only task is to hand over the personal stereo equipment, tape and questionnaire form, and to collect the completed questionnaire.

The main purpose of the personal stereo system is to ensure confidentiality even where family members might be present. This is further assisted by printing only response categories, that is without the questions themselves, on the questionnaire form. Any household member scanning the child's responses would therefore not be able to link these with the original questions.

The questionnaires

The questions are different from the adult survey. While about two thirds of these have been retained throughout the life of the BYP as a continuous core, the questionnaire was revised for wave 5 and then for wave 7. The non-core questions are therefore replaced or rotated every two years. In wave 4 the main focus was the health, health behaviour, psychological well-being and aspirations of young people, and in particular to see how these are associated with family relationships. For this reason also, the adult questionnaire contained a small number of new questions for parents of eligible children which were designed to match key questions in the Young Person's questionnaire. In waves 5 and 6 further questions on health behaviour and psychological well-being were asked, while in waves 7 and 8 the focus has shifted to social networks.

Panel Design

The BYP is effectively a variant of the standard rotating panel. That is, while a core group remains within the panel for some time (a maximum of five waves) every wave one year group is "lost" (to the adult survey) to be "replaced" by previous "rising-elevens". The full scheme over the current four waves is as follows.

	Age							
	11	12	13	14	15	16	17	18
wave 4	A	B	C	D	E			
wave 5	<i>F</i>	A	B	C	D	<i>E</i>		
wave 6	<i>G</i>	<i>F</i>	A	B	C	<i>D</i>	<i>E</i>	
wave 7	<i>H</i>	<i>G</i>	<i>F</i>	A	B	C	<i>D</i>	<i>E</i>

Each letter represents a specific year group over time. Thus only A and B are interviewed over four waves. The italics on the left-hand side show the new entrants to the 11-15 survey over time. The italics on the right-hand side show the departure at the other end of the age range into the adult survey. Thus by wave 7 only those aged 11 and 12 in wave 4 remain in the adolescent group, but there are 3 additional groups (F to H), one of which has been interviewed over three years and another over two. Meanwhile three of the original age groups have been interviewed as adults (now aged 16-18), one of which has given an adult interview three times but an adolescent interview only once.

This complexity means that change can be measured in several ways, taking the above table as a

starting-point:

1. Each wave can be analysed cross-sectionally (that is, taking the rows of the table). Using the correct statistical procedures all four waves can also be pooled for analysis of changes over the cross-sections.
2. Treating the table in terms of the columns produces a pooled cohort design (though with an unbalanced panel: that is, there are four waves of 13 and 14-year olds but only three of thirteen-year olds, and so on.)
3. A full panel design would use the diagonals to follow each individual over time. This approaches closer to a full balanced panel the shorter the range of the transition (ie most wave four respondents have been interviewed in the BYP twice; analysis restricting itself to a single transition would therefore be both balanced and nearly complete).

In practice, none of these approaches are mutually exclusive.

Sample size and response rates

In wave 4 there were 605 households containing eligible, co-operating children. Numbers of youth interviews for each of the four waves are as follows. The response rate for the baseline figure in wave 4 of 89% is itself based on the number known to be in the right age group in the previous wave plus a small number of new entrants. Non-response is divided fairly equally between refusal or non-contact with the household and with the respondent.

wave	number
4	773 (89%)
5	749
6	748
7	720

The following set of response rates is for the initial wave four sample of 773 only. The baseline in each subsequent wave is the number of interviews in the previous wave. (For instance, in wave 7 the 262 youth interviews were 65% of the remaining 403 interviews from wave 6 while another 120 of the latter were interviewed as adults).

wave	Youth outcome		adult outcome		non-response	
	N	%	N	%	N	%
4	773	89				
5	580	75	131	17	62	8
6	403	69	156	27	21	4
7	262	65	120	30	21	5

The following shows the proportion of interviews amongst the total number of young people who have been interviewed at least once. Adult interviews indicate an adult interview in all post-BYP waves, otherwise respondents fall into the "some non-response" category.

	N		%	
4 youth interviews	262		20.5	
3 youth interviews				
complete response, adult in wave 7	287	12	22.5	9.4
complete response, new entrant wave 5		141		11.1
one-wave non-response		26		2.0
2 youth interviews				
complete response, adult in wave 6	355	147	27.9	11.5
complete response, new entrant wave 6		155		12.2
some non-response		53		4.2
1 youth interview				
adult in wave 5	371	118	29.1	9.3
new entrant, 7		153		12.0
some non-response		100		7.8
<i>Total</i>	1275		100	

In terms of adult interviews this produces the following outcomes:

interview status	N
1 youth, 3 adult	118
2 youth, 2 adult	147
3 youth, 1 adult	120

File structure

The data from the Young Person's survey are available in the SIR record type wYOUTH or its equivalent SPSS file. The parental questions can be found in the values section of the adult individual questionnaire. (The question numbers in wave 4 run from V22 to V37.) Data for these are therefore found in wINDRESP.

The wYOUTH file or record type contains the normal key identifiers, that is wHID, and wPNO. Selection of co-operating respondents is through code 21 ("youth interview") in the individual outcome variable wVFI0, in the wINDALL file or record type. WYOUTH contains an individual weight wYPWGHT specific to the youth responses. However, no longitudinal weight additional to the standard longitudinal enumeration weight (wLEWGHT) is provided.

For longitudinal analysis it is necessary as with all BHPS files to use the PID identifier, which is unique to each individual over time. For analysis where information from parents is to be used, the relationship of youth respondents to other household members can be obtained through wHGR2R, wHGMNO, wHGFNO in file wINDALL. These and other variables in this file help to ascertain relationships (for instance, which are the natural parents). The process of matching youth respondents with adult household members will require utilisation of the wINDRESP files mentioned above. This includes the entire BHPS adult sample and it will be necessary to exclude adults not related to youth respondents when the match has been made.

IV.16 The transition from PAPI to CAPI at Wave 9.

At Wave 9 of the BHPS, the survey moved from a pen-and paper (PAPI) mode of data collection to a Computer Assisted Personal Interview (CAPI) mode of collection. This represents the most significant methodological shift in the life of the BHPS to date with potentially wide ranging implications for data quality.

There were three main reasons for making the move to CAPI. The first and most important reason was the potential for improving data quality that would be offered by a CAPI system. The BHPS individual paper questionnaire runs to 45 minutes and contains some complex routing which inevitably produces errors from interviewers. As CAPI ensures the routing is enforced consistently and correctly throughout the questionnaire, it provides significant benefits in data quality through minimising missing data while reducing the level of data cleaning and editing post fieldwork.

The second reason was a longer-term aim to speed data turnaround and release of the data to the user community. At Wave 9 we have not increased the speed of data turn around times as various data processing systems needed to be rebuilt to deal with the CAPI environment (see Banks, R. and Laurie, H., 2000 for further details). The Wave 9 data were deposited for public use by December 2000 as usual. In the future, as the post field data processing systems become more streamlined we are aiming for improvements in this area.

The final reason for shifting the BHPS to CAPI was a significant savings in our fieldwork costs. As a longitudinal annual survey, with a questionnaire that changes relatively little year on year, the BHPS is an ideal vehicle for CAPI as the initial development costs can be recouped over the whole period of the survey.

National Opinion Polls (NOP), the fieldwork agency that has carried out the BHPS since 1991, were responsible for programming the CAPI questionnaire to the design and specifications provided by ISER. ISER carried out all testing and checking of the CAPI scripts.

NOP interviewers were equipped with touch screen laptops, which were, light to carry, robust and had good screen resolution. The laptops are easy to use and do not rely on interviewers having keyboard skills. The CAPI software used was *In2itive*, a product owned and supported by SPSS MR. Completed interviews were dialled into a central server via a modem.

A Pilot study of 100 households was carried out in May 1999 to test the CAPI questionnaires, to get feed back from interviewers on usability, to assess the reaction of respondents to the lap-top and to test data delivery and processing systems. The Pilot was successful with no adverse reactions from either interviewers or respondents to the laptop. The Pilot identified areas within the script and the data processing systems that required improvements. Revisions to the CAPI script and the surrounding systems for data management and processing were carried out with a further small-scale field test of the instruments in July 1999. Fieldwork for Wave 9 of the BHPS began on September 1st 1999 as usual.

The whole of the BHPS sample was moved to CAPI at Wave 9 in order to minimise any potential disruption to either response rates or to the time series data. This decision meant that we did not attempt to implement any large-scale experiments to assess mode effects at the point CAPI was introduced. We were confident of making the move as experimental research on mode effects conducted by others had not produced evidence of significant adverse effects by moving to CAPI from PAPI in a longitudinal context.

A further element at Wave 9 was the introduction of the booster samples in each of Scotland and Wales (see page A4-24 for details of these samples). These newly recruited respondents were also interviewed using the CAPI instruments.

IV.16.1 Questionnaire design and implementation

At Wave 9 the Household Questionnaire and Individual Questionnaire were the two schedules conducted using CAPI. All other questionnaires and fieldwork documents remained in their standard paper format.

To minimise the potential for mode effects, the CAPI implementation followed the design of the paper questionnaires as far as possible while exploiting the benefits of CAPI. While there is considerable evidence that the only mode effects of moving from PAPI to CAPI are positive effects in that routing is followed correctly and the levels of item non-response are reduced (Couper, M. et al (eds) 1998), we were still concerned to maintain as close a representation to the paper questionnaire as possible.

Clear conventions for screen layouts, colours and fonts were established to produce a questionnaire with a consistent look and feel for interviewers. All question wording and response categories were in

black and interviewer instructions were in red. The screen design was simple and uncluttered so that interviewers could easily see what they needed to ask and where responses were to be coded.

Checks were included within the CAPI script to ensure the correct identification of households and individuals, the entry of valid ranges of responses, and the consistency of date reporting. Standard types of error messages were developed. In some cases 'soft' checks were used which asked the interviewer to confirm an entry was correct e.g. if there were date inconsistencies between two items. Other checks were 'hard' and required the interviewer to return to a specific question to correct an error e.g. the entry of the household identifier had to be valid. Interviewers were able at any point in the interview to go back to previous questions to alter earlier responses if necessary.

On-screen information to guide the interviewer through complex sections of the questionnaire was also provided. For example, the annual training and education history collects repeated education or training events over the past year, and these events were displayed on screen to help the interviewer navigate through the section. The same type of on-screen information was also used in the annual job history to aid navigation through the section and provide a summary of employment or non-employment spells already entered.

Questions and screens were of five main types. Closed category single response, closed category multiple response, grid entry, text entry of amounts and text entry of verbatim responses.

- Single and multiple response closed category questions used a radio button beside each response category for interviewers to code the response.
- Single response questions could not be multi-coded.
- Questions administered with a showcard had the category number beside the response categories on screen so that when respondents gave the number on the card it could be found quickly by interviewers.
- All response categories for a given question were visible on screen simultaneously so that interviewers did not have to scroll to find them. This is important where long lists of potential responses are used to prevent any bias from a failure to code off-screen responses.
- Grid entry questions were of the type where a number of categories had the same range of responses e.g. opinion questions using a five point disagree/agree scale or frequency of various leisure activities.
- As the laptops did not have a conventional keyboard, questions that required entry of an amount or date had a pop-up number pad appear on screen.
- Wherever dates were delimited by a known possible time period (e.g. the reference period for the receipt of benefits or house moves reported in the previous twelve months), pre-coded year and month categories were provided on screen instead of a text box for date entry in order to minimise entry errors by interviewers.
- Questions requiring a verbatim text response had a pop-up keyboard appear on screen for entry by the interviewer.
- Where an 'other specify' category was included a text box for entry of the response was provided on screen.

Under CAPI, all questions require an answer of some type before the programme will move on to the next question. On all questions where the paper questionnaire had always carried an explicit 'don't know' or 'refused' category, these appeared on screen as possible valid responses. For all other questions, apart from key routing questions where a response was required (e.g. whether an employee or self-employed) a 'not answered' code was provided on screen. If interviewers used this code, they were required to enter the reason it had been used in a pop-up text box. Interviewers could also enter explanatory marginal comments at any point in the questionnaire by clicking on a comments field which brought up a text box.

NOP developed an on-line coding system for the post field coding of verbatim responses. The same team of coders who had previously worked on the BHPS coded Wave 9 using the on-line system. This system simply picked up the identifiers and verbatim text for the question concerned from the database of interviews held on the central server and displayed these on the coder's screen together with any contextual information needed for coding. For example, when coding occupational descriptions the details of the industry, whether an employee or self-employed, and managerial duties were also displayed. The coders used the standard BHPS coding frames to code the responses and

entered the codes directly. The coded responses were then merged back into the completed interview data for each individual.

IV.16.2 Fieldwork procedures and interviewer training

Fieldwork procedures at Wave 9 did not alter in any respect other than the introduction of CAPI. Interviewer experience of CAPI and good training were critical elements in a successful transition to CAPI. The fieldwork agency was responsible for providing specific training on using the laptops to interviewers and this training was required prior to the interviewer briefings for the main survey.

The BHPS has a policy of sending the same interviewer back to households they have previously interviewed in order to maintain continuity and a rapport with respondents. As there is evidence that maintaining the same interviewer for respondents has been beneficial to response rates over the life of the survey (Laurie, H. et al, 1999), we wished to minimise any response effects from interviewer turnover. The majority of the regular BHPS interviewers had prior experience of using NOP's CAPI system in the field and very few of the regular interviewers dropped out due to the shift to CAPI. Of the 220 interviewers working on the main survey only 16 were newly recruited to the BHPS for Wave 9 and all had prior CAPI experience.

How respondents would react to the move to CAPI, particularly in relation to issues of confidentiality and sensitivity, were also of concern. While there is a body of evidence which shows that the vast majority of both interviewers and respondents react very favourably to CAPI, any drop in our wave on wave re-interview response rates would be unwelcome. CAPI was introduced to respondents in an intentionally low-key manner. Respondents were not forewarned that the survey was moving to CAPI with the interviewers being instructed to simply pick up and start using the laptop in the same way they would have when using the paper questionnaires. The reaction from both interviewers and respondents during the pre-testing and piloting of the CAPI questionnaire was very positive. During the mainstage fieldwork all comments from respondents were carefully monitored with no evidence of an adverse reaction to the laptops. The interviewer observations completed after every individual interview also show no evidence of an adverse reaction from respondents.

The individual re-interview response rates remained high with 97.1% of those respondents interviewed at every wave of the survey being re-interviewed at Wave 9. The response rate data shown in tables 19h and 21, suggest show no significant differences to the previous paper waves. For the core BHPS longitudinal respondents, there is no evidence that the response was affected by the move the CAPI, while the response for all respondents interviewed at the previous wave is virtually identical to the previous paper wave.

IV.16.3 Mode effects on key measures

The key concern in shifting to CAPI midway in the life of the panel was the danger of introducing unexpected mode effects that could compromise longitudinal comparability of the data. While maintaining comparability with the design of the paper questionnaire, fieldwork procedures and data collection had been central aims in making the transition, it was always possible that we could inadvertently introduce an element which produced markedly different responses under CAPI.

To date, no significant mode effects that can be attributed to the introduction of CAPI have been found within the Wave 9 data as compared to earlier paper waves. The distributions on key demographic items including age, sex, marital status, employment status, ethnicity, occupation and industry are virtually identical to earlier paper sweeps. The entry of dates and amounts produce distributions consistent with earlier waves as do verbatim items coded post field (see Laurie, H., 2000 for further details).

References

Couper Mick, P. et al (eds) (1998) *Computer Assisted Survey Information Collection*, Wiley Series in Probability and Statistics, John Wiley and Sons Inc, USA.

Laurie, H. Smith, R. and Scott, L. (1999) 'Strategies for Reducing Nonresponse in a Longitudinal Panel Survey' in *Journal of Official Statistics*, Vol 15, No.2, Statistics Sweden.

Banks, R. and Laurie, H. (2000) 'From PAPI to CAPI: The Case of the British Household Panel Survey', *Social Science Computer Review*, Vol. 18 No.4, pp 397 – 406, Sage Publications Inc.

Laurie, H. (2000) 'From PAPI to CAPI: consequences for data quality on the British Household Panel Survey', paper presented at the *Fifth International Conference on Logic and Methodology*, University of Cologne, October 3 – 6, 2000.

IV.17 Scotland and Wales Extension Samples

A major development at Wave 9 was the recruitment of two additional samples to the BHPS in Scotland and Wales. There were two main aims of the extensions. First, to increase the relatively small Scottish and Welsh sample sizes (around 400-500 households in each country in the initial BHPS sample) in order to permit independent analysis of the two countries. Second, to facilitate analysis of the two countries compared to England in order to assess the impacts of the substantial public policy changes which may be expected to follow from devolution. A consultation period in the early part of 1999 established the requirements of the Scottish and Welsh user-communities. Provision of comparable data between the different parts of Great Britain required using identical questionnaires and fieldwork arrangements for the additional samples to those used for the main BHPS sample.

A sample of 2,475 addresses in each country was drawn from the Postcode Address File, sufficient to yield approximately 1,500 respondent households after allowance for non-residential addresses and non-response. The geographic areas sampled included the "Highlands and Islands" in Scotland, areas that were not included in the original BHPS sample. In all other respects, the sample designs for both Scotland and Wales were comparable with the Wave 1 BHPS design. The primary sampling units (PSU's) were postcode sectors selected with probability proportional to size (i.e. number of addresses). Stratification was carried out to ensure balanced geographical representation and by socio-economic characteristics to reduce sampling error and improve the precision of estimates. For each country, 75 PSU's were selected with 33 addresses randomly selected within each PSU. The new samples consist of all those individuals resident at the selected addresses at the time of interview.

NOP Research Group, the BHPS fieldwork contractor since 1991, carried out the recruitment and fieldwork for the new samples. By using the same fieldwork agency we aimed to maximise comparability with the main BHPS sample by employing the same methodological techniques and fieldwork procedures as well as exploiting the expertise of interviewers familiar with working on the BHPS. The Scottish and Welsh extensions used the same questionnaire instruments as the BHPS, following the routings for new entrants to respondent households to collect initial conditions data such as place of birth, ethnicity, qualifications and some key life events. In recognition of the importance of these extensions as a way of addressing issues relating to devolution, new questions on national identity and attitudes to the Government were included both in the extension samples and in the whole BHPS sample.

Fieldwork commenced for both the main sample and the extensions on 1 September, 1999. NOP used existing BHPS interviewers where this was possible, and trained new interviewers where necessary. Because of the extra load on existing interviewers, and some need to recruit interviewers, interviews in Scotland and Wales took place rather later than on original sample of BHPS, and substantial number took place in the early months of 2000. Response rates for the new sample are presented in section IV.18.

At Wave 10, the second wave for these new samples, we reissued all of the first wave non-contact households, and refusal households except those which were judged to be permanent adamant refusals. Significant numbers of these households were interviewed, and their members will be treated as OSMs.

IV.18 Dependent Interviewing in the BHPS

This section discusses briefly the introduction of dependent interviewing in wave 16 of the BHPS. Dependent interviewing (DI) is a method of designing questions in longitudinal surveys, where

information about respondents obtained in past interviews is used to personalise the questionnaire and adapt it to the respondent's situation in future interviews. With computer assisted interviewing, previous information can be included in the formulation of questions, to remind respondents of previous responses and ask whether their situation has changed. Previous information can also be used to compute edit checks during the interview. In this case, the computer script compares responses with previous responses and prompts edit check questions if these differ.

The main motivation for introducing dependent interviewing in the BHPS was to improve data quality, in particular the longitudinal consistency of responses. DI can however also be used to identify and route around redundant questions, if the respondent's situation has not changed. The design of DI for the BHPS was inspired by other panel studies around the world and based on an earlier experimental study called 'Improving Survey Measurement of Income and Employment' (ISMIE). This study tested the effects of DI for different types of questions on a former sample associated with the BHPS. Based on the findings from this study, DI was introduced in three sections of the individual questionnaire: current employment, the labour market activity history and the household finance sections.

For the current employment questions, responses given in previous interviews were used to ask respondents whether their situation had changed. Respondents were for example reminded of their occupation at the previous wave and asked whether this was still the same. Similar questions were used to collect information about the employer, industry, whether employee or self-employed, managerial duties and size of employer organisation. This approach should make the survey task easier for respondents and thereby improve the consistency of data on employment characteristics across waves.

DI was also used for the questions asking about earnings from employment. Here the previous reports were used to compute automatic edit checks, whereby the current response was compared with the response from the previous interview. If there appeared to be an unusually large change in earnings, then a follow-up question was prompted, to check whether the change was real or due to an error in the data. This approach will reduce the number of outliers, by catching keying and reporting errors during the interview.

For the questions about respondents' labour market activities since the previous interview, the previous information was used as a starting point into the history. Respondents were reminded of the activity they were doing at the time of the previous interview and then asked what they had been doing since. In contrast, in previous waves respondents were asked about their activities in reverse chronological order, starting with their current situation. The new approach will make it easier for respondents to remember activities in the past, and to provide reports that are more consistent with previous reports.

In the household finance section, DI is used to remind respondents of sources of unearned income which they have reported in the past, but not mentioned in the current interview. This will help respondents recall and identify sources, from the list of 35 about which they are asked, and as a result reduce the extent of under-reporting of incomes.

The implementation of these DI questions required substantial development of the computer scripts. Previous responses also had to be edited and prepared to be 'fed-forward'. A pilot study was carried out to check that all procedures were working and to obtain feedback on the reactions of respondents and interviewers before introducing DI in the BHPS.

The changes will have implications for data users. The standard BHPS variables will still be provided for the whole sample. Additional information will however be available to analysts, indicating how a variable for a particular respondent was collected, whether using DI or by asking the independent question. Thus while analyses which made use of standard variables should still work in the same way users should consider the implications of the different way in which data have been collected. Relevant sections of the annotated individual questionnaire are questions E1 to E10 (pages 51-56 at wave 16), E54 and E55 (page 68), J1 to J29 (pages 86 to 94), NFA to NFH (pages 111 to 112).

For further information about the introduction of dependent interviewing in the BHPS, see Jäckle, Annette, Heather Laurie, SC Noah Uhrig (May 2007) 'The Introduction of Dependent Interviewing on the British Household Panel Survey', ISER Working Paper 2007-07. Colchester: University of Essex. This can be found at <http://www.iser.essex.ac.uk/pubs/workpaps/pdf/2007-07.pdf>. This contains full information about the routing of the DI sections and the nature of the data which was fed forward.

IV.19 Northern Ireland Household Panel Survey

At wave 11 a substantial new sample in Northern Ireland, the Northern Ireland Household Panel Survey (NIHPS) was added. This sample is jointly funded by the ESRC and government departments in Northern Ireland. Since the start of the BHPS it has been recognised that a sample was needed in Northern Ireland so that the coverage of the panel was UK wide rather than Great Britain only. Until now, funding has not been available to run a panel that was large enough to enable comparative analysis between Northern Ireland and the rest of the UK. More recently, having longitudinal data that is comparable with Great Britain has become something of a priority for the Northern Ireland policy makers as well as for the wider academic community. There are three years of funding in the first instance.

Following tendering, the contract to carry out the fieldwork was awarded to the Central Survey Unit (CSU) of the Northern Ireland Statistics and Research Agency and the first wave of fieldwork was carried out in 2001. The design of the panel and content of the questionnaire follows the BHPS with ISER staff overseeing and working with staff at CSU responsible for data collection.

The wave 1 fieldwork was carried out between October 2001 and March 2002. A random sample of addresses was selected by CSU and, as with wave 1 of the BHPS, all individuals resident at those addresses when the interviewer called were eligible for inclusion in the sample. Interviews were achieved in 1,979 households across Northern Ireland, giving an extremely good household response rate of 69%. A total of 3,528 full individual interviews were achieved plus 200 proxy interviews, representing an individual response rate for eligible adults found of 89%.

The design and content of the survey is largely similar to the BHPS to provide comparability. There are some changes in content due to local circumstances and some additional questions that are specific to Northern Ireland. The data from wave 1 of NIHPS have been processed by ISER using the standard BHPS procedures.

IV.20 Response Rates

Interview outcomes at Wave One in terms of the original issued sample are shown in *Table 16*, at the household level. Thus around 13% of issued addresses did not contain households, but multiple occupied addresses meant the addition of around 4% to the number of households in the sample. On this basis, there was at least one interview in 74% of eligible households, complete coverage of eligible adults, including proxies in 69% of households, and full interviews with all eligible members in 65% of households. Responses at the individual level within respondent households are shown in *Table 17*.

After the first wave of a Panel Study, the main focus of interest shifts to response at the individual level, and the calculation of response rates becomes increasingly complex. We may distinguish between a wave-on-wave response rate (i.e. how many of the people interviewed last wave are re-interviewed in the current wave), and a longitudinal response rate (i.e. how many of the people interviewed at Wave One are interviewed at the latest wave). This is further complicated since individual's eligibility status may change, e.g. they may die or move out of scope, or children may reach the age of 16 and become eligible for interview. In addition, it is still possible from a fieldwork point of view to speak of household response patterns, though these are rather unreliable due to uncertainty as to the eligibility of issued households.

In this section we show response outcomes in the following ways:

For each wave, we show the outcomes for all issued and enumerated individuals in terms of their response at the previous wave.

For each wave, we show the outcomes for the combination of all issued households and new households encountered in the field.

For all full interview respondents at Wave One, we show response status at each subsequent wave.

Table 18a shows wave-on-wave response status for Wave Two at the individual level. Thus 86.4% of Wave One respondents gave an interview at Wave Two. Given that a number had died or moved out of scope, this gives a wave-on-wave response rate of 87.7%. *Table 18b* shows equivalent information for Wave Three in terms of Wave Two response status. Once ineligible new entrants are excluded the wave on wave response rate is around 90%. *Table 18c* shows Wave Four information. Here the wave on wave response rate is almost 95%.

Table 19 shows response at the household level. In a household panel study, this is complex since households may have split since the previous wave. Some of this is known before fieldwork, thus at Wave Two the total number of issued households, at 5611, was larger than the number of respondent households at Wave One (5511). However, an additional 331 households were found during the course of fieldwork. In addition to this, Wave One non-contact households were reissued, and the 44 which responded are included in the table above. Similar patterns emerge in subsequent waves. Note that the base for each wave includes a significant number of previous wave non-respondent households.

Table 20 shows the response status of Wave One full interview respondents at each subsequent wave. Thus 76.4% of Wave One respondents were interviewed at Wave Four. Once those who have died or moved out of scope are excluded this turns into a response rate of 80.0%.

Table 16 Wave One Individual Outcomes

Enumerated Individuals	13840 (100%)
Ineligible Children (Under 16)	3089 (22%)
<i>Eligible Adults</i>	<i>10751 (100%)</i>
Refusals	426 (4%)
Non-Contact / Absent	48 (0%)
Age / Infirmary / Disability or Language Difficulty	13 (0%)
Full Interviews	9912 (92%)
Proxy Interviews	352 (3%)
Total Interviews	10264 (95%)

* This conforms to the database. In 38 cases, documents were either missing or otherwise unusable.

Table 17 Wave One Household Outcomes and Response Rates *

Addresses Issued	8167
Vacant/Non-residential/Foreign	1033
Multi-Households Addition to Sample	357
<i>Effective Sample Size</i>	<i>7491</i>
Refusal to Field Agency/Research Centre	123 (2%)
Household Refusal to Interviewer	1420 (19%)
Household Non-contact	288 (4%)
Language/Age/Infirmary Problems	122 (2%)
Complete Household Interview	4862 (65%)
Complete Household Coverage (inc. proxies)	5143 (69%)
Partial Household Coverage	5538 (74%)

* In 29 households included here with respondent households (10 complete interviews, and 19 partial coverage) documents were missing or otherwise unusable, and there are no response data on the database. These cases have a response code of 19.

Table 18a: Wave Two Individual Outcomes by Wave One Response Status

Wave Two Response Status	Wave One Response Status					
	Full Interview	Proxy	Refusal	Child Under 16	New Entrant/Other*	TOTAL
Full Interview	8586 (86.4)	112 (31.8)	73 (15.2)	153 (5.0)	552 (58.4)	9459 (64.0)
Proxy Interview	150 (1.5)	140 (39.8)	47 (9.8)	7 (0.2)	42 (4.4)	386 (2.6)
Within HH Refusal	112 (1.1)	27 (7.7)	170 (35.3)	5 (0.2)	61 (6.4)	375 (2.5)
Other Non-Interview	12 (0.1)	3 (0.9)	8 (1.7)	1 (0.0)	14 (1.5)	38 (0.3)
Child Under 16				2651 (85.8)	242 (25.6)	2893 (19.6)
Refusal Household	657 (6.6)	34 (9.7)	149 (31.0)	180 (5.8)	18 (1.9)	1038 (7.0)
Non-contact Household	274 (2.8)	18 (5.1)	29 (6.0)	80 (2.6)	14 (1.5)	415 (2.8)
Out of Scope	58 (0.6)	3 (0.9)	2 (0.4)	13 (0.4)	1 (0.1)	77 (0.5)
Dead	81 (0.8)	15 (4.3)	3 (0.6)	2 (0.2)		101 (0.7)
TOTAL	9912 (67.1)	352 (2.4)	481 (3.3)	3090 (20.9)	947 (6.4)	14782 (100.0)

* Included Members of Wave One Non-Contact Households

Table 18b: Wave Three Individual Outcomes by Wave Two Response Status

Wave Three Response Status	Wave Two Response Status						
	Full Interview	Proxy Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	8209 (86.9)	74 (19.2)	36 (8.7)	140 (4.8)	165 (15.4)	400 (51.5)	9024 (60.2)
Proxy Interview	103 (1.1)	157 (40.7)	27 (6.5)	4 (0.1)	9 (0.8)	24 (3.1)	324 (2.2)
Telephone Interview	190 (2.0)	3 (0.8)	2 (0.5)	1 (0.0)	54 (5.0)	2 (0.3)	254 (1.7)
Within HH Refusal	133 (1.4)	48 (12.4)	221 (53.5)	8 (0.3)	53 (4.9)	85 (10.9)	548 (3.7)
Other Non-Interview	35 (0.4)	21 (5.4)	15 (3.6)	2 (0.1)	11 (1.0)	29 (3.7)	113 (0.7)
Child Under 16				2550 (88.1)	57 (5.3)	236 (30.5)	2843 (19.0)
Refusal Household	296 (3.1)	34 (8.8)	63 (15.3)	112 (3.9)	339 (31.6)		844 (5.6)
Non-contact Household	145 (1.5)	24 (6.2)	30 (7.3)	56 (1.9)	291 (27.1)		546 (3.6)
Out of Scope	35 (0.4)	7 (1.8)	3 (0.7)	6 (0.2)	81 (7.5)		132 (0.9)
No One Eligible in HH	214 (2.3)	9 (2.3)	15 (3.6)	14 (0.5)	2 (0.2)		254 (1.7)
Dead	99 (1.0)	9 (2.3)	1 (0.2)		11 (1.0)		120 (0.8)
TOTAL	9459 (63.1)	386 (2.6)	413 (2.8)	2893 (19.3)	1073 (7.2)	776 (5.2)	15000 (100.0)

Table 18c: Wave Four Individual Outcomes by Wave Three Response Status

Wave Four Response Status	Wave Three Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	8178 (90.6)	65 (20.1)	125 (49.6)	75 (11.3)	147 (5.2)	86 (8.2)	384 (52.7)	9060 (60.9)
Proxy Interview	73 (0.8)	164 (50.6)	2 (0.8)	47 (7.1)	2 (0.1)	3 (0.8)	18 (2.3)	309 (2.1)
Telephone Interview	64 (0.7)	1 (0.3)	37 (14.7)	3 (0.5)	1 (0.0)	6 (0.6)		112 (0.8)
Within HH Refusal	67 (0.7)	31 (9.6)	10 (4.0)	334 (50.5)	7 (0.2)	21 (2.0)	76 (10.4)	546 (3.7)
Other Non-Interview	12 (0.1)	3 (0.9)		11 (1.7)	3 (0.1)	2 (0.2)	12 (1.6)	43 (0.3)
Child Under 16					2526 (88.8)	29 (2.8)	226 (31.0)	2781 (18.7)
Refusal Household	191 (2.1)	26 (8.0)	65 (25.8)	92 (13.9)	76 (2.7)	283 (27.1)	12 (1.6)	745 (5.0)
Non-contact Household	106 (1.2)	11 (3.4)	9 (3.6)	35 (5.3)	36 (1.3)	465 (44.5)		662 (4.5)
Out of Scope	46 (0.5)	5 (1.5)	2 (0.8)	11 (1.7)	21 (0.7)	134 (12.8)		219 (1.5)
No One Eligible in HH	207 (2.3)	9 (2.8)	1 (0.4)	49 (7.4)	24 (0.8)	5 (0.5)		295 (2.0)
Dead	80 (0.9)	9 (2.8)	1 (0.4)	4 (0.6)		10 (1.0)		104 (0.7)
TOTAL	9024 (60.7)	324 (2.2)	252 (1.7)	661 (4.4)	2843 (19.1)	1044 (7.0)	728 (4.9)	14876 (100.0)

Table 18d: Wave Five Individual Outcomes by Wave Four Response Status

Wave Five Response Status	Wave Four Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	8125 (89.7)	52 (16.8)	45 (40.2)	49 (8.3)	139 (5.0)	85 (6.6)	332 (48.4)	8827 (59.6)
Proxy Interview	69 (0.8)	161 (52.1)		21 (3.6)	3 (0.1)	11 (0.9)	21 (3.1)	286 (1.9)
Telephone Interview	85 (0.9)	4 (1.3)	23 (20.5)	5 (0.8)	2 (0.1)	15 (1.2)	2 (0.3)	136 (0.9)
Within HH Refusal	64 (0.7)	28 (9.1)	5 (4.5)	325 (55.2)	11 (0.4)	1.5 (1.5)	87 (12.7)	539 (3.6)
Other Non-Interview	22 (0.2)	6 (1.9)		17 (2.9)			25 (3.6)	70 (0.5)
Child Under 16					2446 (88.0)	33 (2.6)	212 (30.9)	2691 (18.2)
Refusal Household	191 (2.1)	23 (7.4)	32 (28.6)	87 (14.8)	90 (3.2)	286 (22.3)	7 (1.0)	716 (4.8)
Non-contact Household	126 (1.4)	15 (4.9)	7 (6.3)	25 (4.2)	66 (2.4)	592 (46.1)		831 (5.6)
Out of Scope	40 (0.4)	2 (0.6)		4 (0.7)	5 (0.2)	222 (173)		273 (1.8)
No One Eligible in HH	251 (2.8)	11 (3.6)		53 (9.0)	19 (0.7)	10 (0.8)		344 (2.3)
Dead	87 (1.0)	7 (2.3)		3 (0.5)		11 (0.9)		108 (0.7)
TOTAL	9060 (61.1)	309 (2.1)	112 (0.8)	589 (4.0)	2781 (18.8)	1284 (8.7)	686 (4.6)	14821 (100.0)

Table 18e: Wave Six Individual Outcomes by Wave Five Response Status

Wave Six Response Status	Wave Five Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	8237 (93.3)	63 (22.0)	65 (47.8)	67 (11.0)	163 (6.1)	148 (9.6)	394 (51.7)	9137 (61.5)
Proxy Interview	51 (0.6)	153 (53.5)	2 (1.5)	26 (4.3)	1 (0.0)	3 (0.2)	13 (1.7)	249 (1.7)
Telephone Interview	31 (0.4)	1 (0.3)	10 (7.4)	3 (0.5)		6 (0.4)	1 (0.1)	52 (0.4)
Within HH Refusal	17 (0.2)	29 (10.1)	4 (2.9)	349 (57.4)	7 (0.3)	14 (0.9)	88 (11.5)	508 (3.4)
Other Non-Interview	14 (0.2)	3 (1.0)	1 (0.7)	18 (3.0)		2 (0.1)	26 (3.4)	64 (0.4)
Child Under 16					2435 (90.5)	44 (2.9)	231 (30.3)	2710 (18.3)
Refusal Household	95 (1.1)	10 (3.5)	45 (33.1)	48 (7.9)	40 (1.5)	358 (23.3)	9 (1.2)	605 (4.1)
Non-contact Household	59 (0.7)	4 (1.4)	7 (5.1)	20 (3.3)	26 (1.0)	656 (42.8)		772 (5.2)
Out of Scope	26 (0.3)	2 (0.7)		4 (0.7)	6 (0.2)	265 (17.5)		306 (2.1)
No One Eligible in HH	218 (2.5)	14 (4.9)	1 (0.7)	71 (11.7)	11 (0.4)	6 (0.4)		321 (2.2)
Dead	80 (0.9)	7 (2.4)	1 (0.7)	2 (0.3)	2 (0.1)	29 (1.9)		121 (0.8)
TOTAL	8828 (59.5)	286 (1.9)	136 (0.9)	608 (4.1)	2691 (18.1)	1534 (10.3)	762 (5.1)	14845 (100.0)

Table 18f: Wave Seven Individual Outcomes by Wave Six Response Status

Wave Seven Response Status	Wave Six Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	8440 (92.6)	35 (0.4)	29 (0.3)	43 (0.5)	136 (1.5)	65 (0.7)	370 (4.1)	9118 (64.2)
Proxy Interview	38 (17.0)	158 (70.9)	1 (0.4)	10 (4.5)	2 (0.9)		14 (6.3)	223 (1.6)
Telephone Interview	27 (84.4)		3 (9.4)	1 (3.1)		1 (3.1)		32 (0.2)
Within HH Refusal	23 (4.8)	20 (4.1)	1 (0.2)	354 (73.4)	2 (0.4)	5 (1.0)	77 (16.0)	482 (3.4)
Other Non-Interview	22 (56.4)	4 (10.3)		6 (15.4)		1 (2.6)	6 (15.4)	39 (0.3)
Child Under 16					2440 (91.8)	10 (0.4)	208 (7.8)	2658 (18.7)
Refusal Household	107 (27.3)	6 (1.5)	13 (3.3)	47 (12.0)	48 (12.2)	162 (41.3)	9 (2.3)	392 (2.8)
Non-contact Household	86 (23.9)	10 (2.8)	5 (1.4)	19 (5.3)	28 (7.8)	212 (58.9)		360 (2.5)
Out of Scope	39 (10.6)			5 (1.4)	11 (3.0)	312 (85.0)		367 (2.6)
No One Eligible in HH	280 (68.5)	7 (1.7)		79 (19.3)	43 (10.5)			409 (2.9)
Dead	77 (62.6)	9 (7.3)		6 (4.9)		31 (25.2)		123 (0.9)
TOTAL	9139 (64.3)	249 (1.8)	52 (0.4)	570 (4.0)	2710 (19.1)	799 (5.6)	684 (4.8)	14203 (100)

Table 18g: Wave Eight Individual Outcomes by Wave Seven Response Status

Wave Eight Response Status	Wave Seven Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	8363 (93.5)	35 (0.4)	10 (0.1)	30 (0.3)	125 (1.4)	67 (0.7)	310 (3.5)	8940 (62.8)
Proxy Interview	48 (22.2)	137 (63.4)		13 (6.0)	1 (0.5)	3 (1.4)	14 (6.5)	216 (1.5)
Telephone Interview	43 (72.9)	1 (1.7)	6 (10.2)	1 (1.7)		8 (13.6)		59 (0.4)
Within HH Refusal	48 (9.4)	18 (3.5)		354 (69.3)	5 (1.0)	18 (3.5)	68 (13.3)	511 (3.6)
Other Non-Interview	26 (50.0)	1 (1.9)		8 (15.4)	1 (1.9)	2 (3.8)	14 (26.9)	52 (0.4)
Child Under 16					2449 (91.3)	19 (0.7)	215 (8.0)	2683 (18.9)
Refusal Household	127 (29.7)	10 (2.3)	12 (2.8)	25 (5.8)	40 (9.3)	204 (47.7)	10 (2.3)	428 (3.0)
Non-contact Household	76 (17.1)	3 (0.7)	3 (0.7)	16 (3.6)	17 (3.8)	329 (74.1)		444 (3.1)
Out of Scope	17 (4.4)	2 (0.5)		2 (0.5)	2 (0.5)	360 (94.0)		383 (2.7)
No One Eligible in HH	279 (72.5)	8 (2.1)		65 (16.9)	18 (4.7)	15 (3.9)		385 (2.7)
Dead	91 (72.2)	8 (6.3)	1 (0.8)	5 (4.0)		21 (16.7)		126 (0.9)
TOTAL	9118 (64.1)	223 (1.6)	32 (0.2)	519 (3.6)	2658 (18.7)	1046 (7.4)	631 (4.4)	14227 (100)

Table 18h: Wave Nine Individual Outcomes by Wave Eight Response Status

Wave Nine Response Status	Wave Eight Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	8255 (93.6)	25 (0.3)	24 (0.3)	45 (0.5)	141 (1.6)	69 (0.8)	261 (3.0)	8820 (61.8)
Proxy Interview	44 (21.2)	130 (62.5)		16 (7.7)	2 (1.0)	3 (1.4)	13 (6.3)	208 (1.5)
Telephone Interview	52 (71.2)		7 (9.6)	5 (6.8)		6 (8.2)	3 (4.1)	73 (0.5)
Within HH Refusal	45 (8.6)	15 (2.9)	1 (0.2)	343 (65.6)	13 (2.5)	11 (2.1)	95 (18.2)	523 (3.7)
Other Non-Interview	25 (29.1)	2 (2.3)		14 (16.3)	2 (2.3)	3 (3.5)	40 (46.5)	86 (0.6)
Child Under 16					2400 (91.4)	12 (0.5)	213 (8.1)	2625 (18.4)
Refusal Household	143 (26.5)	13 (2.4)	22 (4.1)	41 (7.6)	63 (11.7)	247 (45.8)	10 (1.9)	539 (3.8)
Non-contact Household	66 (11.8)	11 (2.0)	4 (0.7)	25 (4.5)	21 (3.8)	430 (77.2)		557 (3.9)
Out of Scope	41 (9.3)	3 (0.7)	1 (0.2)	4 (0.9)	11 (2.5)	383 (86.5)		443 (3.1)
No One Eligible in HH	195 (62.5)	13 (4.2)		64 (20.5)	30 (9.6)	10 (3.2)		312 (2.2)
Dead	74 (83.1)	4 (4.5)		6 (6.7)		5 (5.6)		89 (0.6)
TOTAL	8940 (62.6)	216 (1.5)	59 (0.4)	563 (3.9)	2683 (18.8)	1179 (8.3)	635 (4.4)	14275 (100.0)

Table 18i: Wave Ten Individual Outcomes by Wave Nine Response Status

Wave Ten Response Status	Wave Nine Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	8117 (93.3)	26 (0.3)	25 (0.3)	64 (0.7)	131 (1.5)	90 (1.0)	248 (2.9)	8701 (60.6)
Proxy Interview	45 (22.3)	126 (62.4)		20 (9.9)	1 (0.5)	2 (1.0)	8 (4.0)	202 (1.4)
Telephone Interview	62 (60.2)	1 (1.0)	19 (18.4)	1 (1.0)		19 (18.4)	1 (1.0)	103 (0.7)
Within HH Refusal	44 (7.9)	21 (3.8)	7 (1.3)	349 (62.8)	9 (1.6)	24 (4.3)	102 (18.3)	556 (3.9)
Other Non-Interview	24 (37.5)	3 (4.7)	2 (3.1)	14 (21.9)	1 (1.6)	2 (3.1)	18 (28.1)	64 (0.4)
Child Under 16					2368 (90.1)	45 (1.7)	215 (8.2)	2628 (18.3)
Refusal Household	151 (29.7)	8 (1.6)	17 (3.3)	42 (8.3)	48 (9.4)	240 (47.2)	3 (0.6)	509 (3.5)
Non-contact Household	75 (11.4)	6 (0.9)	3 (0.5)	25 (3.8)	30 (4.5)	521 (78.9)		660 (4.6)
Out of Scope	55 (10.7)	1 (0.2)		7 (1.4)	17 (3.3)	436 (84.5)		516 (3.6)
No One Eligible in HH	172 (57.9)	7 (2.4)		83 (27.9)	19 (6.4)	16 (5.4)		297 (2.1)
Dead	75 (64.1)	9 (7.7)		2 (1.7)	1 (0.9)	30 (25.6)		117 (0.8)
TOTAL	8820 (61.5)	208 (1.4)	73 (0.5)	607 (4.2)	2625 (18.3)	1425 (9.9)	595 (4.1)	14353 (100.0)

Table 18j: Wave Eleven Individual Outcomes by Wave Ten Response Status

Wave Eleven Response Status	Wave Ten Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	7978 (92.9)	35 (0.4)	23 (0.3)	51 (0.6)	129 (1.5)	112 (1.3)	262 (3.1)	8590 (59.2)
Proxy Interview	39 (21.4)	111 (61.0)		15 (8.2)	5 (2.8)	2 (1.1)	10 (5.5)	182 (1.3)
Telephone Interview	88 (53.7)	2 (1.2)	35 (21.3)	7 (4.3)		32 (19.5)		164 (1.1)
Within HH Refusal	54 (8.8)	26 (4.2)	8 (1.3)	375 (60.9)	9 (1.5)	33 (5.4)	111 (18.0)	616 (2.3)
Other Non-Interview	27 (37.0)	1 (1.4)	3 (4.1)	16 (21.9)	1 (1.4)	7 (9.6)	18 (24.7)	73 (0.5)
Child Under 16					2360 (90.5)	36 (1.4)	213 (8.2)	2609 (18.0)
Refusal Household	176 (26.9)	9 (1.4)	27 (4.1)	46 (7.0)	58 (8.9)	338 (51.6)	1 (0.2)	655 (4.5)
Non-contact Household	67 (9.8)	2 (0.3)	5 (0.7)	28 (4.1)	31 (4.5)	553 (80.6)		686 (4.7)
Out of Scope	37 (6.8)	3 (0.6)		1 (0.2)	6 (1.1)	498 (91.4)		545 (3.8)
No One Eligible in HH	170 (57.8)	8 (2.7)	1 (0.3)	75 (25.5)	28 (9.5)	12 (4.1)		294 (2.0)
Dead	65 (73.9)	5 (5.7)		3 (3.4)	1 (1.1)	14 (15.9)		88 (0.6)
TOTAL	8701 (60.0)	202 (1.4)	102 (0.7)	617 (4.3)	2628 (18.1)	1637 (11.3)	615 (4.2)	14502 (100)

Table 18k: Wave Twelve Individual Outcomes by Wave Eleven Response Status

Wave Twelve Response Status	Wave Eleven Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	7849 (93.6)	31 (0.4)	41 (0.5)	48 (0.6)	130 (1.6)	88 (1.0)	196 (2.3)	8383 (59.4)
Proxy Interview	58 (29.7)	93 (47.7)	2 (1.0)	24 (12.3)	2 (1.0)	5 (2.6)	11 (5.6)	195 (1.4)
Telephone Interview	127 (52.9)	5 (2.1)	68 (28.3)	15 (6.3)	3 (1.2)	16 (6.7)	6 (2.5)	240 (1.7)
Within HH Refusal	71 (11.5)	16 (2.6)	8 (1.3)	398 (64.4)	12 (1.9)	30 (4.9)	83 (13.4)	618 (4.4)
Other Non-Interview	27 (26.0)	10 (9.6)	3 (2.9)	33 (31.7)	1 (1.0)	3 (2.9)	27 (26.0)	104 (0.7)
Child Under 16					2370 (91.4)	38 (1.5)	186 (7.2)	2594 (18.4)
Refusal Household	136 (21.3)	6 (0.9)	30 (4.7)	49 (7.7)	38 (6.0)	380 (59.5)		639 (4.5)
Non-contact Household	75 (19.3)	4 (1.0)	9 (2.3)	28 (7.2)	23 (5.9)	249 (64.2)		388 (2.7)
Out of Scope	26 (4.4)	1 (0.2)	1 (0.2)	8 (1.4)	9 (1.5)	540 (92.3)		585 (4.1)
No One Eligible in HH	161 (57.3)	4 (1.4)		80 (28.5)	21 (7.5)	15 (5.3)		281 (2.0)
Dead	60 (69.0)	12 (13.8)	2 (2.3)	6 (6.9)		7 (8.0)		87 (0.6)
TOTAL	8590 (60.9)	182 (1.3)	164 (1.2)	689 (4.9)	2609 (18.5)	1371 (9.7)	509 (3.6)	14114 (100)

Table 18I: Wave Thirteen Individual Outcomes by Wave Twelve Response Status

Wave Thirteen Response Status	Wave Twelve Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	7694 (93.1)	34 (0.4)	60 (0.7)	55 (0.7)	154 (1.9)	65 (0.8)	202 (2.4)	8264 (59.0)
Proxy Interview	43 (20.2)	106 (49.8)		40 (18.8)	3 (1.4)	2 (0.9)	19 (8.9)	213 (1.5)
Telephone Interview	103 (46.0)	5 (2.2)	59 (26.3)	22 (9.8)	3 (1.3)	30 (13.4)	2 (0.9)	224 (1.6)
Within HH Refusal	53 (9.4)	20 (3.5)	15 (2.7)	388 (68.8)	4 (0.7)	12 (2.1)	72 (12.8)	564 (4.0)
Other Non-Interview	29 (30.9)	3 (3.2)	3 (3.2)	27 (28.7)	4 (4.3)		28 (29.8)	94 (0.7)
Child Under 16					2299 (91.4)	24 (1.0)	192 (7.6)	2515 (17.9)
Refusal Household	148 (20.7)	7 (1.0)	81 (11.3)	84 (11.7)	74 (10.3)	322 (45.0)		716 (5.1)
Non-contact Household	60 (13.6)	6 (1.4)	12 (2.7)	18 (4.1)	20 (4.5)	326 (73.8)		442 (3.2)
Out of Scope	45 (7.0)	1 (0.2)	3 (0.5)	5 (0.8)	9 (1.4)	579 (90.2)		642 (4.6)
No One Eligible in HH	140 (55.6)	6 (2.4)	3 (1.2)	76 (30.2)	24 (9.5)	3 (1.2)		252 (1.8)
Dead	68 (75.6)	7 (7.8)	2 (2.2)	7 (7.8)		6 (6.7)		90 (0.6)
TOTAL	8383 (59.8)	195 (1.4)	238 (1.7)	722 (5.2)	2594 (18.5)	1369 (9.8)	515 (3.7)	14016 (100.0)

Table 18m: Wave Fourteen Individual Outcomes by Wave Thirteen Response Status

Wave Fourteen Response Status	Wave Thirteen Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	7547 (93.4)	38 (0.5)	35 (0.4)	61 (0.8)	142 (1.8)	71 (0.9)	186 (2.3)	8080 (100.0)
Proxy Interview	45 (24.2)	103 (55.4)	3 (1.6)	12 (6.5)	3 (1.6)	3 (1.6)	17 (9.1)	186 (100.0)
Telephone Interview	161 (45.6)	5 (1.4)	94 (26.6)	24 (6.8)	2 (0.6)	62 (17.6)	5 (1.4)	353 (100.0)
Within HH Refusal	50 (8.7)	31 (5.4)	12 (2.1)	367 (63.6)	5 (0.9)	26 (4.5)	86 (14.9)	577 (100.0)
Other Non-Interview	45 (35.7)	7 (5.6)	1 (0.8)	31 (24.6)	2 (1.6)	8 (6.3)	32 (25.4)	126 (100.0)
Child Under 16					2263 (91.2)	20 (0.8)	198 (8.0)	2481 (100.0)
Refusal Household	107 (17.4)	5 (0.8)	58 (9.4)	74 (12.1)	54 (8.8)	316 (51.5)		614 (100.0)
Non-contact Household	44 (8.9)	4 (0.8)	12 (2.4)	8 (1.6)	17 (3.5)	407 (82.7)		492 (100.0)
Out of Scope	34 (5.0)	3 (0.4)		7 (1.0)	6 (0.9)	628 (92.6)		678 (100.0)
No One Eligible in HH	158 (58.7)	9 (3.3)	4 (1.5)	66 (24.5)	19 (7.1)	13 (4.8)		269 (100.0)
Dead	73 (39.9)	8 (4.4)	2 (1.1)	8 (4.4)	2 (1.1)	90 (49.2)		183 (100.0)
TOTAL	8264 (58.9)	213 (1.5)	221 (1.6)	658 (4.7)	2515 (17.9)	1644 (11.7)	524 (3.7)	14039 (100.0)

Table 18n: Wave Fifteen Individual Outcomes by Wave Fourteen Response Status

Wave Fifteen Response Status	Wave Fourteen Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	7437 (93.0)	30 (0.4)	35 (0.4)	79 (1.0)	141 (1.8)	49 (0.6)	223 (2.8)	7994 (100)
Proxy Interview	33 (20.4)	103 (63.6)	2 (1.2)	14 (8.6)	1 (0.6)	1 (0.6)	8 (4.9)	162 (100)
Telephone Interview	97 (25.4)	2 (0.5)	221 (57.9)	24 (6.3)	11 (2.9)	24 (6.3)	3 (0.8)	382 (100)
Within HH Refusal	58 (9.3)	20 (3.2)	11 (1.8)	389 (62.2)	10 (1.6)	24 (3.8)	113 (18.1)	625 (100)
Other Non-Interview	28 (27.5)	5 (4.9)	6 (5.9)	43 (42.2)	3 (2.9)	7 (6.9)	10 (9.8)	102 (100)
Child Under 16					2215 (91.0)	23 (0.9)	197 (8.1)	2435 (100)
Refusal Household	127 (21.8)	3 (0.5)	45 (7.7)	52 (8.9)	44 (7.5)	312 (53.5)		583 (100)
Non-contact Household	62 (10.2)	2 (0.3)	23 (3.8)	25 (4.1)	20 (3.3)	475 (78.3)		607 (100)
Out of Scope	35 (4.9)	4 (0.6)	4 (0.6)	3 (0.4)	6 (0.8)	667 (92.8)		719 (100)
No One Eligible in HH	137 (55.0)	7 (2.8)	1 (0.4)	69 (27.7)	25 (10.0)	10 (4.0)		249 (100)
Dead	63 (67.7)	10 (10.8)	3 (3.2)	5 (5.4)	2 (2.2)	10 (10.8)		93 (100)
TOTAL	8077 (57.9)	186 (1.3)	351 (2.5)	703 (5.0)	2478 (17.8)	1602 (11.5)	554 (4.0)	13951 (100)

Table 18o: Wave Sixteen Individual Outcomes by Wave Fifteen Response Status

Wave Sixteen Response Status	Wave Fifteen Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	7451 (93.8)	18 (0.2)	47 (0.6)	50 (0.6)	124 (1.6)	53 (0.7)	203 (2.6)	7946 (100)
Proxy Interview	29 (18.5)	98 (62.4)	0 (0.0)	18 (11.5)	1 (0.6)	1 (0.6)	10 (6.4)	157 (100)
Telephone Interview	80 (21.0)	1 (0.3)	243 (63.8)	14 (3.7)	5 (1.3)	34 (8.9)	4 (1.0)	381 (100)
Within HH Refusal	41 (6.3)	19 (2.9)	17 (2.6)	449 (69.1)	8 (1.2)	12 (1.8)	104 (16.0)	650 (100)
Other Non-Interview	21 (18.8)	6 (5.4)	5 (4.5)	35 (31.3)	6 (5.4)	9 (8.0)	30 (26.8)	112 (100)
Child Under 16					2166 (91.6)	25 (1.1)	174 (7.4)	2365 (100)
Refusal Household	98 (17.2)	9 (1.6)	39 (6.8)	43 (7.5)	52 (9.1)	329 (57.7)		570 (100)
Non-contact Household	41 (5.9)	2 (0.3)	21 (3.0)	23 (3.3)	40 (5.8)	563 (81.6)		690 (100)
Out of Scope	27 (3.6)		2 (0.3)	5 (0.7)	7 (0.9)	715 (94.6)		756 (100)
No One Eligible in HH	139 (54.5)	4 (1.6)	3 (1.2)	80 (31.4)	24 (9.4)	5 (2.0)		255 (100)
Dead	67 (57.3)	5 (4.3)	2 (1.7)	8 (6.8)		35 (29.9)		117 (100)
TOTAL	7994 (57.1)	162 (1.2)	379 (2.7)	725 (5.2)	2433 (17.4)	1781 (12.7)	525 (3.8)	13999 (100)

Table 18p: Wave Seventeen Individual Outcomes by Wave Sixteen Response Status

Wave Seventeen Response Status	Wave Sixteen Response Status							
	Full Interview	Proxy Interview	Telephone Interview	Refusal	Child Under 16 years	Refusal/ Non-contact Household	New Entrant	TOTAL
Full Interview	7301 (94.0)	19 (0.2)	42 (0.5)	48 (0.6)	167 (2.2)	41 (0.5)	148 (1.9)	7766 (100)
Proxy Interview	32 (22.2)	90 (62.5)	1 (0.7)	12 (8.3)	3 (2.1)	1 (0.7)	5 (3.5)	144 (100)
Telephone Interview	105 (25.5)	2 (0.5)	261 (63.3)	15 (3.6)	3 (0.7)	22 (5.3)	4 (1.0)	412 (100)
Within HH Refusal	63 (9.5)	21 (3.2)	6 (0.9)	457 (69.2)	14 (2.1)	16 (2.4)	83 (12.6)	660 (100)
Other Non-Interview	22 (21.4)	3 (2.9)	3 (2.9)	48 (46.6)		1 (1.0)	26 (25.2)	103 (100)
Child Under 16					2087 (91.2)	13 (0.6)	189 (8.3)	2289 (100)
Refusal Household	142 (22.5)	9 (1.4)	37 (5.9)	63 (10.0)	47 (7.5)	332 (52.7)		630 (100)
Non-contact Household	45 (6.1)	3 (0.4)	25 (3.4)	24 (3.3)	20 (2.7)	619 (84.1)		736 (100)
Out of Scope	36 (4.5)		1 (0.1)	5 (0.6)	2 (0.3)	752 (94.5)		796 (100)
No One Eligible in HH	144 (54.1)	5 (1.9)	1 (0.4)	83 (31.2)	19 (7.1)	14 (5.3)		266 (100)
Dead	55 (74.3)	5 (6.8)	2 (2.7)	6 (8.1)	1 (1.4)	5 (6.8)		74 (100)
TOTAL	7945 (57.3)	157 (1.1)	379 (2.7)	761 (5.5)	2363 (17.0)	1816 (13.1)	455 (3.3)	13876 (100)

Table 18q Wave Eighteen Individual Outcomes by Wave Seventeen Response Status

Wave eighteen response status	Wave Seventeen Response Status							
	Full interview	Proxy interview	Telephone interview	Refusal	Child under 16	Refusal/non-cont HH	New entrant	Total
Full interview	7124 (95.0)	19 (0.3)	31 (0.4)	45 (0.6)	102 (1.4)	45 (0.6)	134 (1.8)	7500 (100)
Proxy interview	26 (19.1)	88 (64.7)	1 (0.7)	11 (8.1)	1 (0.7)	4 (2.9)	5 (3.7)	136 (100)
Telephone interview	101(23.3)	0 (0.0)	294 (67.7)	11 (2.5)	5 (1.2)	22 (5.1)	1 (0.2)	434 (100)
Refusal	71 (9.9)	15 (2.1)	11 (1.5)	494 (69.0)	12 (1.7)	18 (2.5)	95 (13.3)	716 (100)
Other non-interview	45 (34.4)	3 (2.3)	2 (1.5)	41 (31.3)	4 (3.1)	1 (0.8)	35 (26.7)	131 (100)
Child under 16					2074 (91.2)	21 (0.9)	178 (7.8)	2273 (100)
Refusal/non-cont HH	126 (21.9)	8 (1.4)	51 (8.9)	59 (10.2)	48 (8.3)	284 (49.3)	0 (0.0)	576 (100)
Non-cont/NC HH	48 (6.2)	4 (0.5)	13 (1.7)	20 (2.6)	10 (1.3)	684 (87.8)	0 (0.0)	779 (100)
Out of scope/NC HH	31 (3.7)	0 (0.0)	3 (0.4)	6 (0.7)	7 (0.8)	795 (94.4)	0 (0.0)	842 (100)
No one elig in HH	118 (46.3)	2 (0.8)	1 (0.4)	89 (34.9)	26 (10.2)	19 (7.5)	0 (0.0)	255 (100)
Dead	65 (89.0)	5 (6.8)	1 (1.4)	1 (1.4)	0 (0.0)	1 (1.4)	0 (0.0)	73 (100)
Total	7755 (56.5)	144 (1.0)	408 (3.0)	777 (5.7)	2289 (16.7)	1894 (13.8)	448 (3.3)	13715 (100)

Table 19

Household Response Outcomes

	Wave Two	Wave Three	Wave Four	Wave Five	Wave Six	Wave Seven	Wave Eight	Wave Nine	Wave Ten
Total Households Issued and Identified in Field	5986	6534	6558	6553	6487	6531	6179	6216	6333
All Sample Members deceased or out of scope	83 (1.4%)	134 (2.1%)	195 (3.0%)	232 (3.5%)	264 (4.1%)	301 (4.6%)	301 (4.9%)	297 (4.8%)	393 (6.2%)
No Eligible members		176 (2.7%)	207 (3.2%)	241 (3.7%)	215 (3.3%)	255 (3.9%)	253 (4.1%)	205 (3.3%)	208 (3.3%)
All Sample members returned to Previous Wave Household	22 (0.4%)	90 (1.4%)	57 (0.9%)	43 (0.7%)	23 (0.4%)	40 (0.6%)	34 (0.6%)	42 (0.7%)	44 (0.7%)
<i>Effective Eligible Households</i>	5881 (100%)	6134 (100%)	6099 (100%)	6037 (100%)	5985 (100%)	5935 (100%)	5591 (100%)	5672 (100%)	5688 (100%)
Previous wave adamant refusals		173 (2.8%)	220 (3.6%)	157 (2.6%)	130 (2.2%)	455 (7.7%)	41 (0.7%)	40 (0.7%)	56 (1.0%)
<i>Effective Eligible Households Issued to Field</i>	5881 (100%)	5961 (100%)	5879 (100%)	5880 (100%)	5855 (100%)	5480 (100%)	5500 (100%)	5632 (100%)	5632 (100%)
Household not found	216 (3.7%)	348 (5.8%)	408 (6.9%)	503 (8.6%)	479 (8.2%)	247 (4.5%)	313 (5.6%)	372 (6.6%)	440 (7.8%)
Household refusal	438 (7.4%)	385 (6.5%)	346 (5.9%)	343 (5.8%)	310 (5.3%)	206 (3.8%)	230 (4.1%)	276 (4.9%)	276 (4.9%)
Complete Household Interview	4556 (77.5%)	4354 (73.1%)	4378 (74.5%)	4259 (72.4%)	4372 (74.7%)	4384 (80.0%)	4328 (78.0%)	4273 (75.9%)	4194 (74.5%)
Complete Household Coverage (inc. proxies)	334 (5.7%)	279 (4.7%)	273 (4.6%)	257 (4.4%)	222 (3.8%)	201 (3.7%)	197 (3.2%)	188 (3.3%)	188 (3.3%)
Partial Household Coverage	331 (5.6%)	378 (6.3%)	384 (6.5%)	419 (7.1%)	429 (7.3%)	415 (7.6%)	432 (7.8%)	465 (8.2%)	455 (8.1%)
Telephone Interview only		212 (3.6%)	88 (1.5%)	98 (1.7%)	40 (0.7%)	25 (0.5%)	47 (0.8%)	45 (0.8%)	74 (1.3%)
Proxy at Previous Address	6 (0.1%)	5 (0.1%)	2 (0.0%)	1 (0.0%)	3 (0.1%)	2 (0.0%)	3 (0.1%)	3 (0.1%)	5 (0.1%)
All Respondent Households	5227 (88.9%)	5228 (87.7%)	5125 (87.2%)	5034 (85.6%)	5066 (86.5%)	5027 (91.7%)	5007 (90.2%)	4974 (88.3%)	4916 (87.3%)

Table 19 (continued)

Household Response Outcomes

	Wave Eleven	Wave Twelve	Wave Thirteen	Wave Fourteen	Wave Fifteen	Wave Sixteen	Wave Seventeen	Wave Eighteen
Total Households Issued and Identified in Field	6353	6437	6256	6278	6224	6237	6288	6267
All Sample Members deceased or out of scope	387 (6.1%)	395 (6.1%)	443 (7.1%)	534 (8.5%)	481 (7.7%)	539 (8.6%)	534 (8.5%)	574 (9.2%)
No Eligible members	197 (3.1%)	187 (2.9%)	184 (2.9%)	194 (3.1%)	184 (3.0%)	179 (2.9%)	195 (3.1%)	173 (2.8)
All Sample members returned to Previous Wave Household	48 (0.8%)	57 (0.9%)	40 (0.6%)	48 (0.8%)	43 (0.7%)	33 (0.5%)	37 (0.6%)	37 (0.6%)
<i>Effective Eligible Households</i>	5721 (100%)	5798 (100%)	5589 (100%)	5502 (100%)	5516 (100%)	5486 (100%)	5522 (100%)	5483 (100%)
Previous wave adamant refusals	25 (0.4%)	315 (5.4%)	125 (2.2%)	87 (1.6%)	101 (1.8%)	63 (1.1%)	107 (1.9%)	129 (2.4%)
<i>Effective Eligible Households Issued to Field</i>	5696 (100%)	5483 (100%)	5464 (100%)	5415 (100%)	5415 (100%)	5423 (100%)	5415 (100%)	5354 (100%)
Household not found	467 (8.2%)	257 (4.7%)	293 (5.4%)	328 (6.1%)	396 (7.3%)	429 (7.9%)	468 (8.6%)	540 (10.1%)
Household refusal	339 (6%)	373 (6.8%)	406 (7.4%)	327 (6.0%)	321 (5.9%)	320 (5.9%)	350 (6.5%)	305 (5.7%)
Complete Household Interview	4104 (72.1%)	3987 (72.7%)	3951 (72.3%)	3877 (71.6%)	3803 (70.2%)	3761 (69.4%)	3673 (67.8%)	3550 (66.3%)
Complete Household Coverage (inc. proxies)	160 (2.8%)	171 (3.1%)	188 (3.4%)	159 (2.9%)	142 (2.6%)	132 (2.4%)	126 (2.3%)	119 (2.2%)
Partial Household Coverage	503 (8.8%)	527 (9.6%)	485 (8.9%)	489 (9.0%)	501 (9.3%)	512 (9.4%)	511 (9.4%)	528 (9.9%)
Telephone Interview only	117 (2.1%)	166 (3.0%)	139 (2.5%)	226 (4.2%)	247 (4.6%)	262 (4.8%)	284 (5.2%)	310 (5.8%)
Proxy at Previous Address	3 (0.1%)	2 (0.0%)	2 (0.0%)	9 (0.2%)	5 (0.1%)	7 (0.1%)	3 (0.1%)	2 (0%)
All Respondent Households	4887 (85.8%)	4853 (88.5%)	4765 (87.2%)	4760 (87.9%)	4698 (86.8%)	4674 (86.2%)	4597 (84.9%)	4509 (84.2%)

Table 20

Outcomes for Original Sample Members with Full Interview at Wave One

	Wave Two	Wave Three	Wave Four	Wave Five	Wave Six	Wave Seven	Wave Eight	Wave Nine	Wave Ten
Full Interview Respondent	8568 (86.4%)	7839 (79.1%)	7577 (76.4%)	7183 (72.5%)	7132 (72.0%)	6903 (69.6%)	6651 (67.1%)	6396 (64.5%)	6143 (62.0%)
Proxy Interview Respondent	150 (1.5%)	138 (1.4%)	128 (1.3%)	116 (1.2%)	104 (1.0%)	96 (1.0%)	95 (1.0%)	85 (0.9%)	77 (0.8%)
Telephone Interview Respondent		237 (2.4%)	104 (1.0%)	113 (1.1%)	42 (0.4%)	30 (0.3%)	47 (0.5%)	47 (0.5%)	82 (0.8%)
Within-household Refusal	112 (1.1%)	234 (2.4%)	224 (2.3%)	200 (2.0%)	166 (1.7%)	152 (1.5%)	159 (1.6%)	135 (1.6%)	149 (1.5%)
Other Non-interview in respondent household	12 (0.1%)	37 (0.4%)	18 (0.2%)	29 (0.3%)	17 (0.2%)	10 (0.1%)	13 (0.2%)	19 (0.2%)	14 (0.1%)
Died	81 (0.8%)	194 (2.0%)	290 (2.9%)	387 (3.9%)	489 (4.9%)	596 (6.0%)	695 (7.0%)	771 (7.8%)	877 (8.8%)
Out-of-scope	64 (0.6%)	93 (0.9%)	140 (1.4%)	173 (1.7%)	198 (2.0%)	237 (2.4%)	246 (2.5%)	269 (2.7%)	312 (3.1%)
In non-contact household	267 (2.7%)	343 (3.5%)	395 (4.0%)	478 (4.8%)	427 (4.3%)	191 (1.9%)	235 (2.4%)	286 (2.9%)	326 (3.3%)
In refusal household	620 (6.2%)	488 (4.9%)	382 (3.9%)	355 (3.6%)	274 (2.8%)	154 (1.6%)	153 (1.5%)	206 (2.1%)	197 (2.0%)
In other non-interviewed household	38 (0.4%)	66 (0.7%)	85 (0.9%)	100 (1.0%)	112 (1.1%)	85 (0.9%)	112 (1.1%)	129 (1.3%)	117 (1.2%)
In household not issued due to previous wave refusal		243 (2.5%)	569 (5.7%)	778 (7.8%)	951 (9.6%)	1164 (14.7%)	1212 (12.2%)	1235 (12.7%)	1324 (13.4%)
In household not issued due to long-term non-contact						294 (3.0%)	294 (3.0%)	294 (3.0%)	294 (3.0%)

Table 20

Outcomes for Original Sample Members with Full Interview at Wave One

	Wave Eleven	Wave Twelve	Wave Thirteen	Wave Fourteen	Wave Fifteen	Wave Sixteen	Wave Seventeen	Wave Eighteen
Full Interview Respondent	5914 (59.7%)	5694 (57.4%)	5481 (55.3%)	5212 (52.6%)	4994 (50.4%)	4835 (48.8%)	4622 (46.6%)	4411 (44.5%)
Proxy Interview Respondent	68 (0.7%)	67 (0.7%)	6 (0.6%)	58 (0.6%)	40 (0.4%)	38 (0.4%)	34 (0.3%)	36 (0.4%)
Telephone Interview Respondent	131 (1.3%)	161 (1.6%)	133 (1.3%)	234 (2.4%)	241 (2.4%)	242 (2.4%)	263 (2.7%)	270 (2.7%)
Within-household Refusal	160 (1.6%)	166 (1.7%)	149 (1.5%)	154 (1.6%)	149 (1.5%)	146 (1.5%)	157 (1.6%)	155 (1.6%)
Other Non-interview in respondent household	20 (0.2%)	19 (0.2%)	14 (0.1%)	28 (0.3%)	21 (0.2%)	21 (0.2%)	11 (0.1%)	27 (0.3%)
Died	951 (9.6%)	1021 (10.3%)	1098 (11.1%)	1258 (12.7%)	1338 (13.5%)	1443 (14.6%)	1507 (15.2%)	1570 (15.8%)
Out-of-scope	320 (3.2%)	340 (3.4%)	370 (3.7%)	373 (3.8%)	399 (4.0%)	416 (4.2%)	439 (4.4%)	464 (4.7%)
In non-contact household	310 (3.1%)	135 (1.4%)	157 (1.6%)	169 (1.7%)	190 (1.9%)	208 (2.1%)	212 (2.1%)	223 (2.2%)
In refusal household	234 (2.4%)	245 (2.5%)	231 (2.3%)	176 (1.8%)	187 (1.9%)	166 (1.7%)	166 (1.7%)	143 (1.4%)
In other non-interviewed household	156 (1.6%)	146 (1.5%)	163 (1.6%)	117 (1.2%)	135 (1.4%)	127 (1.3%)	140 (1.4%)	156 (1.6%)
In household not issued due to previous wave refusal	1356 (13.7%)	1400 (14.1%)	1535 (15.5%)	1615 (16.3%)	1702 (17.2%)	1754 (17.7%)	1846 (18.6%)	1942 (19.6%)
In household not issued due to long-term non-contact	292 (9.6%)	518 (5.7%)	518 (5.2%)	518 (5.2%)	516 (5.2%)	516 (5.2%)	515 (5.2%)	515 (5.2%)

Household outcomes and response rates for the first wave of the extension samples in Scotland and Wales are shown in Table 21. These rates are somewhat below expectation. However they are not wholly out of line with other current surveys. For example the Scottish Household Survey, under the auspices of the Scottish Executive had a partial coverage response rate of 64.7%. A comparison of survey estimates with the 1999 Labour Force Survey suggest that while there is some under-representation of older age groups, on indicators such as employment status, housing tenure and socio-economic group, differences are relatively small. A full technical report is in preparation, and will be available from the ISER.

Table 21

Household Outcomes and response rates for the 1999/2000 extension samples in Scotland and Wales

	Scotland	Wales
Addresses Issued	2475	2475
Vacant/Non-residential/Foreign	302	295
Multi-Households Addition to Sample	226	11
Effective Sample Size	2399	2191
Refusal to Field Agency/Research Centre	28 (1%)	33 (1%)
Household Refusal to Interviewer	668 (28%)	580 (26%)
Household Non-contact	189 (8%)	91 (4%)
Language/Age/Infirmary Problems	55 (2%)	59 (3%)
Complete Household Interview	1241 (52%)	1152 (53%)
Complete Household Coverage (inc. proxies)	1276 (53%)	1186 (54%)
Partial Household Coverage	1459 (61%)	1428 (65%)

V. Weighting, Imputation and Sampling Errors

V.1. Weighting Adjustments in the BHPS Wave One

There are separate weights for each wave of data. The calculation of these weights is discussed in the sections below. In general, there are separate weights for respondent individuals, for all enumerated individuals and for households. The appropriate weight to use will depend on the level of the analysis. It should be noted that proxy and telephone respondents have zero respondent weights, but positive enumerated individual weights. There are cross-sectional weights for use with single wave analyses for each wave. At Wave One the household weight is in the variable AHHWGHT on records AHHSAMP and AHHRESP, the individual respondent weight is AXRWGHT on record AINDRESP, and the enumerated individual weight is AXEWGHT on records AINDALL and AINDRESP. At Wave Two and beyond the equivalent household weight is wXHWGHT, and equivalent individual weights wXRWGHT and wXEWGHT.

However these weights should not be used for longitudinal analyses. The appropriate weights for such analyses are the longitudinal weight wLRWGHT for respondent individuals, and wLEWGHT for all enumerated individuals. These variables are on records WINDSAMP, WINDALL and WINDRESP. The weights from the last wave of any longitudinal sequence should be used. Note that only cases who have responded at each wave up to and including the latest wave will have positive longitudinal weights at that wave.

This section details the weighting adjustments applied to the **BHPS** Wave One data. The weighting adjustments were of the following form:

- (1) Weights to adjust for unequal selection probabilities of delivery points (design weights);
- (2) Weights to adjust for non-response at the household level;
- (3) Weights to adjust for non-response of individuals within responding households;
- (4) Re-scaling of final weights to the raw sample size (Household $n = 5511$, Individuals interviewed $n = 9912$). Weights were derived in the above order with all calculations being based on data weighted by the product of all previously derived weights so that the weighting adjustments were made contingent on the already derived weights. The final weights to be applied for analysis purposes are the product of these weights.

The following discussion details the derivation of each of the above weights, their combination to obtain final weights for each type of analysis and information on their use. The interested reader is referred to Elliot (1991) for an introductory discussion of weighting adjustments for sample surveys.

V.1.1. Weighting for Unequal Selection Probabilities

The first weights are applied in order to adjust for differential representation in the sample due to the two-stage stratified systematic sample design. The sample selection mechanism was designed to be approximately an equal probability selection mechanism (*epsem design*). However, some deviation from a truly *epsem* design occurred, due mainly to the method of selection of households within addresses in Scotland and to a lesser degree in England and Wales. This necessitates the use of weights to adjust the sample back to an *epsem* design. These weights are made proportional to the inverse of the probability of selection for a given sampled unit and their derivation is detailed below.

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Considering firstly the probability of selection of a given household under the sampling scheme applied, this can be defined as follows:

The probability of household γ in delivery point β (approximately equivalent to an address) in PSU α being selected for the sample is:

$$p(\alpha \beta \gamma) = P(\alpha) \cdot P(\beta|\alpha) \cdot P(\gamma|\alpha \beta)$$

That is the product of the probability of selection of PSU α multiplied by the probability of selection of delivery point β conditional on the selection of PSU α multiplied by the probability of selection delivery point γ conditional on the previous two selections.

These components are defined as follows:

(a) The probability of selecting a given PSU at the first stage of selection is defined as:

$$P(\alpha) = \frac{250 M_\alpha}{\sum M_\alpha}$$

The term M_α is an estimate of the size of PSU α and is defined as the number of delivery points on the PAF (at the time of area selection) for a PSU in England and Wales and the sum of the Multiple Occupancy Indicators (MOI) for a PSU in Scotland. Since sampling was with replacement and 250 PSUs were selected, each PSU had 250 chances of being selected. Therefore the term is multiplied by 250 with the denominator summation being over all PSUs.

(b) The probability of selecting a given delivery point within a given PSU, conditional on that PSU being selected at the first stage of selection, is given as:

$$P(\beta|\alpha) = \begin{cases} \frac{33}{M_\alpha} & \text{in England and Wales} \\ \frac{33 N_{\alpha\beta}}{M_\alpha} & \text{in Scotland} \end{cases}$$

The selection of delivery points was made on the most up-to-date version of the PAF available. However, since the first stage of selection took place using an older PAF, in order to keep the sample approximately *epsem*, the systematic selection procedure applied was based on the number of delivery points in this older version of the PAF. For PSUs in England and Wales approximately 33 delivery points were selected from the total with equal selection probabilities and for PSUs in Scotland, again, approximately 33 addresses were selected with selection being proportional to the value of the MOI ($N_{\alpha\beta}$, an estimate of the number of households at an address) on the new PAF.

(c) The probability of selecting a given household within a given delivery point, conditional on the selection of that delivery point and that area in the previous stages of selection, is defined as:

$$P(\gamma|\alpha\beta) = \begin{cases} 1 & \text{if } n_{\alpha\beta} \leq 3 \text{ Where } n_{\alpha\beta} \text{ is the number of} \\ \frac{3}{n_{\alpha\beta}} & \text{if } n_{\alpha\beta} > 3 \text{ households found at delivery point } \alpha\beta \end{cases}$$

Where up to three households were found at a delivery point, all households were selected. Where more than three households were found, three household were selected randomly from all those present with a selection procedure based on a Kish Grid.

The overall selection probabilities are therefore the product of the above components with the full probabilities being defined as:

$$P(\alpha\beta\gamma) = \begin{cases} \frac{250 M_{\alpha}}{\sum M_{\alpha}} \cdot \frac{33}{M_{\alpha}} & \text{if } n_{\alpha\beta} \leq 3 \\ \frac{250 M_{\alpha}}{\sum M_{\alpha}} \cdot \frac{33}{M_{\alpha}} \cdot \frac{3}{n_{\alpha\beta}} & \text{if } n_{\alpha\beta} > 3 \end{cases}$$

In England and Wales, and

$$P(\alpha\beta\gamma) = \begin{cases} \frac{250 M_{\alpha}}{\sum M_{\alpha}} \cdot \frac{33 N_{\alpha\beta}}{M_{\alpha}} & \text{if } n_{\alpha\beta} \leq 3 \\ \frac{250 M_{\alpha}}{\sum M_{\alpha}} \cdot \frac{33 N_{\alpha\beta}}{M_{\alpha}} \cdot \frac{3}{n_{\alpha\beta}} & \text{if } n_{\alpha\beta} > 3 \end{cases}$$

in Scotland.

In order to obtain design weights for all addresses, a number of assumptions were necessary since at certain delivery points no information on the total number of households at selected delivery point was available. This was due to interviewer error in completing the field documents. The rules applied to these situations were as follows: (1) If the number of households at a selected delivery point was missing from all households where interviews were attempted, then the total number of households at that delivery point equals the number of households where interviews were attempted; (2) If the number of households at a selected delivery was available for only some households where an interview was attempted, then this number is applied to all households where interviews were attempted at that delivery point.

The weights to compensate for unequal selection probabilities are taken as proportional to the inverse of the selection probabilities which, excluding common terms are given as:

$$\omega_{\alpha\beta\gamma} = \begin{cases} 1 & \text{if } n_{\alpha\beta} \leq 3 \\ \frac{n_{\alpha\beta}}{3} & \text{if } n_{\alpha\beta} > 3 \end{cases}$$

in England and Wales, and

$$\omega_{\alpha\beta\gamma} = \begin{cases} \frac{1}{N_{\alpha\beta}} & \text{if } n_{\alpha\beta} \leq 3 \\ \frac{n_{\alpha\beta}}{3N_{\alpha\beta}} & \text{if } n_{\alpha\beta} > 3 \end{cases}$$

in Scotland.

This formula was used to derive the design weights for all households in the **BHPS** sample.

Weighting for Household Non-Response

Weights were applied to the responding households in order to compensate for non-responding households. These weights were applied so that valid inferences can be made to the survey population. Although assumptions are involved in the definition of these weights these are explicitly defined and as plausible as possible given the limited information available on non-responding households. It should be noted that if non-response weights are not applied to the sample, then this is equivalent to assuming that means, proportions and relationships between variables in the responding sample are identical to those that would be found in the non-responding sample, generally a stronger assumption than those used in the definition of non-response weights. All the weighting adjustments described below were based on data weighted by previously derived weights so that subsequent adjustments do not replicate previous weights.

The weights were obtained by defining weighting classes based on information available for both responding and non-responding households. The classes were therefore defined on the basis of region, PSU characteristics, and type of household dwelling. The respondents in each class are weighted so that they compensate for the non-respondents in that class. The main assumption of this type of weighting is that the means etc. of respondents and non-respondents are the same for a given weighting class.

Household non-response of a given household can be categorised into the following classes for the purposes of the non-response weighting applied to the **BHPS**:

- (i) Non-response at the households level where type of dwelling is unknown.
- (ii) Non-response at the household level where type of dwelling is known.

The non-response adjustment for category (i) non-response was carried out by defining all households as members of weighting classes using a cross-classification of region and the socio-economic group stratifier (defined as high, medium or low percentage of individuals in PSU who were classified in SEG 1-5 and 13). Within each of these classes, the responding households were weighted up by a factor that made the total number of households for a given class equal to the total number of responding and non-responding households in that class.

For households in category (ii), the weighting classes were further subdivided by type of accommodation which was collected for both responding and non-responding households. The accommodation types

being defined as (1) Detached; (2) Semi-detached (3) Terraced (4) Flats and other types of accommodation. In 137 of the responding cases, no information was available on accommodation type so a hot-deck imputation procedure was used in order to efficiently use these households in the weighting adjustments. In order to obtain optimal weighting class size (30-45 responding households), given the initial definition of weighting classes detailed above, some weighting classes were combined together while others were split by a second stratifier - that of percentage population over pensionable age. As described above, within each of these classes the responding households were weighted up by a factor that made the total number of households for a given class equal to the total number of responding and non-responding households for that weighting class.

V.1.2. Individual Level Non-Response Weights

In a small number of cases responding households contained individuals who failed to give a full interview. In order to allow for valid inferences where the individual is the unit of analysis, non-response weights were derived in order to adjust for this within-household non-response. A model based adjustment approach was used, in which a logit model was fitted to the binary response defined as (1) Individual full interview obtained (2) Individual interview not obtained, or only proxy interview. The best fitting model contained the effects for region, housing tenure, an affluence measure, number of eligible individuals in household, marital status, employment status, age, sex and their interaction. These weights were trimmed back to a maximum of 1.75 in order to avoid excessive variance inflation due to these weights. The weights were then defined as the inverse of the predicted propensity or probability to respond for all responding individuals. Since a complete data set was required in order to obtain fitted probabilities for all responding individuals, a small amount of hot-deck item imputation was carried out on the data file.

V.1.3. Final Wave One Weights

The following are the final weights derived for Wave One.

Household Weight (AHHWGHT), for use with household-based analysis, was calculated as the product of the design and household non-response weights which was then truncated, post-stratified and rescaled to the number of households in the sample.

Enumerated Individual Weight (AXEWGHT), for use when the unit of analysis is individual enumerated within the household, was calculated as the product of the design and household non-response weights which was then truncated, post-stratified and rescaled to the number of enumerated individuals in the sample.

Individual Respondent Weight (AXRWGHT), for use when the unit of analysis is the individual with full interview, was calculated as the product of the design, household non-response and individual non-response weights which was then truncated, post-stratified and re-scaled to the number of interviewed individuals in the sample.

The procedures used for truncation, post-stratification and re-scaling are detailed below:

V.1.3.1. Truncation

To ensure that variance inflation due to weighting was minimised and to reduce the potential of high values for weights derived on the basis of the Wave One weights, the Wave One household, enumerated respondent and individual respondent weights were truncated so that no weight was greater than 2.50. The effective sample size and the percentage increase in the variance of estimates was used to assess the bias and variance inflation trade-off associated with using this cut-off for each of the three weights concerned.

V.1.3.2. Post-stratification

Post-stratification is a method of stratification which is carried out after the sample data have been collected rather than at the time of sample selection which makes it possible to use a much wider range of variables for stratification. This process adjusts marginal distributions of the sample data to be the same as the known distribution in the population. Since the 1991 Census was carried out at approximately the same time as the first wave of the **BHPS**, Census data were used as the benchmark distributions. The application of post-stratification weights can adjust for under coverage of the frame, although this is not a serious problem in the PAF (Butcher 1988, Wilson & Elliot 1987), and can give more robust and precise estimators (Holt and Smith 1979, Little 1993). Post-stratification was carried out so that the marginal distributions for household tenure, household size and number of cars were corrected to the population marginals at the household and enumerated individual level. A further post-stratification to the population age by sex marginal table was carried out at the enumerated individual level. The same variables were used to adjust at the interviewed adults level (i.e. the population aged 16 or over were post-stratified by tenure, household size, number of cars, age and sex). Note that stratification at the enumerated individual level results in differing weights for individuals within the same household.

V.1.3.3. Re-scaling

After the process of truncation and post-stratification the final weights were re-scaled to that they summed to the achieved sample sizes for each group, this ensures that the weighted total sample sizes will be the same as that for unweighted data.

An index that gives an approximate measure of the increase in variance of sample means and proportions caused by the variability of the weights (Lepkowski, Kalton, Kasprzyk, 1989) can be defined as:

$$I = \frac{n \sum w_i^2}{(\sum w_i)^2} \text{ where } w_i \text{ is the weight for case } i.$$

An associated measure is termed the effective sample size which gives the size of an equal probability sample which would produce the same precision as the **BHPS** design given weighting for the design, non-response and post-stratification. Both of these measures are given in subsequent tables summarising the weights applied to **BHPS** data. Tables 23, 24 and 25 give summary information regarding the weights for analysis of Wave One of the **BHPS**.

V.2. Longitudinal and Cross-sectional Weights after Wave One

There are separate weights for each wave of data. The calculation of these weights is discussed in the sections below. In general, there are separate weights for respondent individuals, for all enumerated individuals and for households. The appropriate weight to use will depend on the level of the analysis. It should be noted that proxy and telephone respondents have zero respondent weights, but positive enumerated individual weights. There are cross-sectional weights for use with single wave analyses for each wave. At Wave One the household weight is in the variable AHHWGHT on records AHHSAMP and AHHRESP, the individual respondent weight is AXRWGHT on record AINDRESP, and the enumerated individual weight is AXEWGHT on records AINDALL and AINDRESP. At Wave Two and beyond the equivalent household weight is wXHWGHT, and equivalent individual weights wXRWGHT and wXEWGHT.

However these weights should not be used for longitudinal analyses. The appropriate weights for such analyses are the longitudinal weight wLRWGHT for respondent individuals, and wLEWGHT for all enumerated individuals. These variables are on records wINDSAMP, wINDALL and wINDRESP. The weights from the last wave of any longitudinal sequence should be used. Note that only cases who have responded at each wave up to and including the latest

wave will have positive longitudinal weights at that wave. (See also Section V.1 for a discussion of Weighting Adjustments for Wave One.)

Two types of weights are derived for each wave after Wave One: Longitudinal and Cross-Sectional Weights. The longitudinal weights, for those interviewed at all waves up to and including the current wave¹ (wLRWGHT) and for those enumerated in respondent households in all waves up to and including the current wave (wLEWGHT), allow for the analysis of change between sequences of waves. by adjusting for sample loss between the two waves. The cross-sectional weights, for those enumerated at each wave (wXEWGHT) and for those giving a full interview (wXRWGHT), allow for the use of data in cross-sectional analysis by including new entrants and adjusting for within household non-response. The weight names above relate to the original BHPS sample. Sections V.2.4, V.2.5 and V.2.6 below discuss equivalent weights for use with the newer extension samples to BHPS. Table 25 provides an overview of the selection of weights for analysis.

V.2.1. Weights for Longitudinal Respondents

For the purposes of panel analyses, only cases which responded at all waves are generally of interest. The longitudinal respondent weights (wLRWGHT) selects out cases who gave a full interview at all waves in the **BHPS** files. At each wave these cases are re-weighted to take account of previous wave respondents lost through refusal at the current wave or through some other form of sample attrition. Thus the longitudinal weight at any wave will be the product of the sequence of attrition weights accounting for losses between each adjacent pair of waves up to that point, as well as the initial respondent weight at wave one. It should be noted that for these purpose response also includes the deceased, people who have moved into institutions or otherwise gone out-of-scope. These fail to give an interview not through non-response but due to a terminating event which results in their leaving the population of interest.

Due to varying amount of information available for non-respondents, the longitudinal respondent weights were calculated in two stages. First, all respondents at both waves including those with "terminal events" were weighted to adjust for the attrition of cases whose final status was indeterminate, in that it was not known whether these cases were still eligible for interview or had left the population of interest. These included people who had moved from their previous wave address and were subsequently not traced for interview, as well as refusal households where the interviewer was unable to determine who was still resident and eligible. The second adjustment weighted up the cases interviewed at both waves to take account of those who refused an interview, were proxied or were unable to give an interview at Wave Two. (Those with terminating events were not included since all non-respondents in this group were known to be ineligible.)

1. In addition to those interviewed at all waves, OSM children enumerated in a respondent household at all waves before they reached 16, and respondents thereafter, will have positive longitudinal respondent weights.

Table 22 AHHWGHT - Household Weight

Mean:	1.000	Standard Deviation:	.219		
Minimum	.000	Maximum:	2.500		
N:	5511				
Percentile	Value	Percentile	Value	Percentile	Value
10	.817	20	.874	30	.915
40	.950	50	.992	60	1.024
70	1.065	80	1.121	90	1.202
Effective Sample Size:	5260				
Percentage Variance Inflation due to weights:	4.78				

Table 23 AXEWGHT - Enumerated Individual Weight

Mean:	1.000	Standard Deviation:	.221		
Minimum	.000	Maximum:	2.498		
N:	13840				
Percentile	Value	Percentile	Value	Percentile	Value
10	.785	20	.853	30	.900
40	.943	50	.985	60	1.029
70	1.080	80	1.145	90	1.246
Effective Sample Size:	13197				
Percentage Variance Inflation due to weights:	4.88				

Table 24 AXRWGHT - Enumerated Adult Weight

Mean:	1.000	Standard Deviation:	.251		
Minimum	.202	Maximum:	2.499		
N:	9912				
Percentile	Value	Percentile	Value	Percentile	Value
10	.761	20	.833	30	.882
40	.931	50	.975	60	1.025
70	1.078	80	1.150	90	1.281
Effective Sample Size:	9326				
Percentage Variance Inflation due to weights:	6.29				

Weighting was carried out using a weighting class method where respondents and non-respondents were classified by a number of variables thought to be informative of non-response or of critical interest in the analysis of BHPS data. The main assumption of this approach is that, within the final cells, the respondents and non-respondents constitute a random sample of the population sub-group defined by the cell variables. Since all cases (except new 16 year olds) were respondents who gave a full interview at the previous wave, there were a large number of variables available to define these classes. In order to make this process manageable, an automatic interaction detection programme (SPSS CHAID) was used to aid the splitting of respondents and non-respondents into groups defined by variables associated with non-response. This allowed for the definition of very specific weighting classes and for easy control over the size of the classes and their percentage of non-respondents. The inverse of the response ratio defines the weight to be applied to respondent cases within each class. Since some of the most informative variables for non-response had small numbers of missing values these variables were initially imputed using a hot-deck procedure. This method applies to the majority of the weighting factors discussed below.

Variables used in these adjustments included: Whether moved from the previous wave address; individual characteristics such as age, sex, employment status, income total and composition, race, level of organisational membership, educational qualifications, etc. and household characteristics such as region, tenure, number of cars and ownership of consumer durables. The initial attrition weight was defined as the product of the previous wave longitudinal respondent weight (before post-stratification) and the adjustment factors defined on the basis of the two weighting steps described above. After this, a post-stratification adjustment was added so that the **Wave One characteristics** of the surviving sample corresponded to population marginals for 1991, in terms of age, sex, housing tenure, numbers of cars and household size. Post stratification methods are described in more detail in the previous section.

In addition to respondents at both waves those previous wave children who reach the age of 16 and are interviewed receive longitudinal respondent weights. In order to adjust for this group, those children interviewed were given a weight defined as the minimum of the longitudinal respondent weight of their parents, or the minimum longitudinal respondent weight in the household if no parent weight was available. This rule was applied since this group were too small to model adequately for adjustment and since children rising to age sixteen and eligible for interview are likely to have more in common with other members of their household than with other children in this category. Minimum values were used since this was most likely to reflect the probability of a household response. After this adjustment, the whole group of respondent new 16 year olds was re-weighted back to the number of eligible 16 year olds.

From Wave Three onwards, a small number of respondents out of scope at previous waves return to the sample. These cases are treated for weighting purposes as if they had responded at the previous wave. Predictor variables are taken from the most recently available wave.

V.2.2. Weights for Longitudinal Enumerated Individuals

Weights for individuals enumerated at each wave were derived using the same two stage method as used for longitudinal respondents with the weighting classes being primarily based on household and head of household characteristics. This weight (wLEWGHT) adjusts the individuals enumerated at each wave (including those experiencing terminating events) for the cases lost through attrition. Longitudinal weights for children and for proxy and telephone respondents as well as within household non-respondents are provided by this weight. New births to the sample are given the mean value of their parents' weights (so that children with two sample parents generally receive a higher weight than those with only one sample parent).

There is no longitudinal household weight since households are not definable as longitudinal entities.

V.2.3. Cross-Sectional Weights

For some research purposes, it is desirable to analyse each wave of the **BHPS** as a cross-section. In order to make this possible, cross-sectional weights have been derived that allow for the inclusion of new entrants who, by definition, do not have a Wave One or longitudinal weight. Assumptions are

necessary in order to include these individuals since their initial inclusion and response probability are unknown. There are a number of approaches available and we employed a standard technique called the 'fair shares approach' (Ernst 1989, Lavallée & Hunter 1992, Rendtel 1991). Basically, this approach shares the Wave One weights of all enumerated cases, after adjustment for attrition, to all other enumerated members of their later wave household. The sharing of weights was applied so that all members of each household have a weight equal to the sum of the weights of all the Wave One enumerated individuals, adjusted for non-response, divided by the number of members of the population at Wave One (i.e. including new entrants who were in that population, but excluding new births since Wave One).

The first stage of this derivation was to weight the enumerated individuals present at Wave One to adjust for attrition up to the latest wave². This used a similar weighting class method to that defined above for longitudinal respondents. The weighting classes were defined using head of household, household and individual characteristics (available from the enumeration grid). Once these attrition factors were calculated, weights were defined for original sample members based on the Wave One weights (after post-stratification). These were used to define the fair share weights for all eligible enumerated individuals, including new entrants, as described above, giving the final cross-sectional enumerated weight (wXEWGHT). Consequent to this weight, a cross-sectional respondent weight (wXRWGHT) was calculated by adjusting all interviewed adults at the wave for those who refused, were proxied or were unable to give an interview. This weight adjusts for within-household non-response for cross-sectional non-respondents. Again a weighting class method was employed using similar variables to that defining the cross-sectional enumerated classes, except that the adjustment depended only on current wave characteristics.

A cross-sectional household weight (wXHWGHT) is available. This is set equal to the cross-sectional enumerated individual weight (wXEWGHT) subject to rescaling back to the total number of households.

As discussed in the previous section, all weights are trimmed to a maximum value of 2.5, and rescaled so that the weighted sample is equal to the total number of respondent individuals. A number of distribution statistics for weights at each wave are given in *Table 26*. This includes statistics for percentage variance inflation due to weights, and the consequent effective sample size.

V.2.4 Weights including the ECHP sub-sample

It is most important to note that the combined original and ECHP sub-sample over-represent lower income households and individuals. Thus estimates to the whole GB or UK population must use weights in order to correct for this.

The standard BHPS weights are based on sample probabilities, estimated response probabilities at Wave One, and probabilities of attrition since Wave One, using weight sharing within households to provide cross-sectional weights for new entrants. These methods clearly will not directly allow ECHP sub-sample members to be weighted, and these members are zero-weighted using the standard weight variables. However new cross-sectional weights are available in the data set to permit analyses which include the sub-sample. These variables are called wXEWGHTE and wXRWGHTTE, equivalent to the standard cross-sectional enumerated and respondent weights.

These weights are based on combining BHPS weights with weights derived for the ECHP sub-sample. This section describes briefly the methods of construction. The enumerated weight is constructed first. The ECHP sub-sample weight starts from the ECHP Wave Three cross-sectional weight for all household members in respondent households, and adjusts this for non-response between ECHP Wave Three and the first wave of entry to BHPS (equivalent to ECHP Wave Four). A weight share calculation within the sub-sample households then gives new entrants a weight.

The cross-sectional respondent weight was then calculated from the enumerated weight using the

2. For this weight, but not for the longitudinal weights, Wave One non-contact and other households interviewed at Wave Two but not Wave One are given a token Wave One weight based the weights of other households in their PSU, so that they can be included in future wave cross-sectional weighting. This also leads to a very small adjustment in the base Wave One weight used for all other cases.

same algorithm as for the standard weights.

V.2.5 Weights for the Extension Samples in Scotland and Wales

The new extension samples in Scotland and Wales mean that there are substantial differences in selection probabilities within the whole BHPS. In the unweighted sample there are around 2.5 times as many enumerated individuals in Scotland as would be expected from population distribution, and around 4 times as many in Wales. As a result UK or GB analyses must be weighted if biases are not to arise.

There is a new set of cross-sectional weights included at Wave Nine to allow the incorporation of the extension samples in Scotland and Wales. Weights are available at the household level, the enumerated individual level, and the respondent individual level. There are two sets of these weights:

- a) weights to allow the analysis of the whole UK (or GB), incorporating the new samples, and also including the ECHP sub-sample (IXHWTSW1, IXEWTSW1, IXRWTSW1);
- b) weights to permit the analysis of Scotland or Wales on their own, including both the new samples, and existing cases from the original BHPS and the ECHP sub-sample.

Weights were first computed for enumerated individuals. Non-response weights for the new samples were computed, based on inverse response probabilities at primary sampling unit level. These cases were combined with cases from the existing samples, using normal cross-sectional weights (IXEWGHT), with weights scaled in proportion to the unweighted number in each sub-sample. In Scotland and Wales these combined weights were post-stratified to Labour Force Survey 1999 estimates of age and sex groupings, housing tenure and household size.

Respondent weights were calculated on the basis of these enumerated individual weights and a model of within-household non-response. Household weights are calculated as the enumerated individual weight of the household reference person within each household.

The difference between the two sets of weights identified above is simply one of rescaling to different sample size totals. The first set (IXEWTSW1 etc.) are scaled so as ensure that the Scotland and Wales samples contain the expected proportion of the UK population. They thus tend to have very low weights. In the second set (IXEWTSW2 etc.), weights are rescaled so that the sum of weights in England, Scotland, Wales and Northern Ireland is equal to the number of weighted cases in each of these areas. In Scotland and Wales, where there are members of both the original sample and the boost samples, both sets of weights have been scaled so that the mean weights for these two groups have been equalised.

With some statistical software, e.g. STATA, computations correctly adjust to the number of cases in the analysis, so that there will be no difference between results at the sub-UK level using the different types of weight. However other software, e.g. SPSS, performs statistical significance calculations on the basis of the weighted number of cases, and hence will tend to produce higher standard errors of estimates for Scotland, Wales and Northern Ireland on the basis of the first set of weights than the second. It should be remembered that most standard statistical software does not correctly adjust for the variance inflation effects produced by weighting. There are a number of exceptions, including the STATA svy procedures.

From Wave 11 onwards, the cross-sectional weights for use with these samples are renamed to wXRWTUK1, wXRWTUK2, wXEWTUK1 and wXEWTUK2.

Weight statistics for these new weights are shown in Table 26. It should be noted in particular that the distribution of the first set of weights is such as to a substantial effect in inflating variance and reduces effective sample size by around 60%.

The cross-sectional weights for the second wave of the extension samples incorporate the households which were converted at the second wave (i.e. the wave nine non-contact and 'soft' refusal households). This was done by adjusting the Wave Nine PSU non-response factors to take account of the fact that more households responded at wave 10. These factors were used as the

base weights for the Wave Ten entrant household members, and were adjusted for non-response between Wave Nine and Wave Ten for the Wave Nine entrant households.

New longitudinal weights which incorporate the extension samples were introduced from Wave Ten. They follow the same structure as the cross-sectional weights, i.e. wLEWTSW1 and wLRWTSW1 scaled to include the whole sample, and wLEWTSW2 and wLRWTSW2 including only the Scottish and Welsh components. These weights are computed in the same way as longitudinal weights for the original sample. However, original and permanent members of the initial sample who were present at Wave Nine were eligible for a positive weight regardless of their response status between Wave One and Wave Nine. (By contrast the standard longitudinal weights give OSM cases who were non-respondent between Wave One and Wave Nine, and all PSMs a zero weight).

V.2.6. Weights for the Northern Ireland Sample

The new sample in Northern Ireland is also selected with much higher probability than that in England. In the unweighted sample there are around 7 times as many enumerated individuals in Northern Ireland as would be expected from the UK population distribution. As a result UK analyses must be weighted if biases are not to arise. In addition it is necessary to adjust for non-response in the first wave, even where Northern Ireland analysis only is required.

Northern Ireland weights are included with the weight variables described in the section above (KXEWTUK1, KXRWTUK2 etc) Weights are available at the household level, the enumerated individual level, and the respondent individual level. There are two sets of these weights: a) weights to allow the analysis of the whole UK, incorporating all the samples, and also including the ECHP sub-sample (KXHWUK1, KXEWTUK1, KXRWTUK1); b) weights to permit the analysis of Northern Ireland on its own. Note that these weights do not incorporate the small Northern Ireland component of the ECHP sub-sample, included at previous waves.

The Northern Ireland sample is a simple random sample design without any clustering. So unlike other parts of the BHPS primary sampling unit level non response was not used in the construction of non-response weights. Instead, response rates for postcode areas (sometimes grouped where sample numbers were small) were computed, and inverse response probabilities used in the computation of weights. In addition to this, these initial weights were post-stratified to 2001 Population Census estimates of age and sex groupings, housing tenure and household size.

Respondent weights were calculated on the basis of these enumerated individual weights and a model of within-household non-response. Household weights are calculated as the enumerated individual weight of the household reference person within each household.

The difference between the two sets of weights identified above is simply one of rescaling to different sample size totals. The first set (KXEWTUK1 etc.) are scale so as ensure that the Northern Ireland sample contains the expected proportion of the UK population. They thus tend to have very low weights. In the second set (KXEWTUK2 etc.), weights are rescaled so that the sum of weights in England, Scotland, Wales and Northern Ireland is equal to the number of weighted cases in each of these areas.

New longitudinal weights which incorporate the extension samples were introduced from Wave 12. They follow the same structure as the cross-sectional weights, i.e. wLEWTUK1 and wLRWTUK1 scaled for UK estimates, and wLEWTUK2 and wLRWTUK2 scaled for estimates at the England, Scotland, Wales or Northern Ireland levels. These weights are computed in the same way as longitudinal weights for the original sample. However, original and permanent members of the initial sample who were present at Wave 11 were eligible for a positive weight regardless of their response status between Wave One and Wave Nine, and members of Scotland and Wales extension samples who were present at Wave 11 were also eligible regardless of their previous response status. (By contrast the standard longitudinal weights give OSM cases who were non-respondent between Wave One and Wave 11, and all PSMs a zero weight).

Weight statistics for these new weights are shown in Table 26. It should be noted in particular that the distribution of the first set of weights is such as to a substantial effect in inflating variance and reduces effective sample size by around 60%.

Bibliography

- Butcher, R. (1988) "The use of the post-code address file as a sampling frame", *The Statistician*, 37, pp. 15-24.
- Elliot, D. (1991) *Weighting for non-response: A Survey Researchers Guide*, OPCS Social Survey Division.
- Enst, L.R. (1989), "Weighting issues for longitudinal household and family estimates", pp. 139-158 in *Panel Surveys*: Kasprzyk, D., Duncan, G., Kalton, G. and Singh, M.P., (Eds.), John Wiley & Sons: New York.
- Holt, D. and Smith, T.M.F. (1979) "Post-Stratification", *JRSS(A)*, 142, pp. 33-46.
- Huang, H. (1984), "Obtaining cross-sectional estimates from a longitudinal survey: Experiences of the Income Survey Development Program", *Proceedings of the Section on Survey Research Methods, ASA Conference 1984*.
- Kalton, G. (1983), "Compensating for missing survey data". *Research Report Series*, Institute for Social Research, University of Michigan.
- Kalton, G. (1986), "Handling wave non-response in panel surveys", *J.O.S.* 2(3) pp 303-314.
- Kish, L. (1992), "Weighting for unequal p_i ", *J.O.S.* 8(2), pp. 183-200.
- Lavallée, P and Hunter, L. (1992) "Weighting for the Survey of Labour and Income Dynamics", *Proceeding of Statistics Canada Symposium 92, Design and analysis of longitudinal surveys*, pp 65-74.
- Lepkowski, J.M. (1989) "Treatment of wave non-response in panel surveys", pp. 348-274 in *Panel Surveys*: Kasprzyk, D., Duncan, G., Kalton, G. and Singh, M.P. (Eds.), John Wiley & Sons: New York.
- Lepkowski, J., Kalton, G., Kazprsyk, D. (1989) "Weighting adjustments for partial non-response in the 1984 SIPP panel", *Proceeding of the Section on Survey Methods Research, American Statistical Association*.
- Little, R. J. A. (1993), "Post-stratification: A modeler's perspective", *JASA* 88, no. 423, pp. 1001-1012.
- Rendtel, U. (1991) "Weighting procedures and sampling variance in household panels", *Working Papers of the European Science Foundation Scientific Network on Household Panel Studies* No. 11. Essex.
- Skinner, C.J., Holt, D. and Smith, T.M.F., Eds, (1989), *Analysis of Complex Samples*, John Wiley & Sons: New York.
- Wilson, P.R., and Elliot, D.J. (1987) "An evaluation of the post code address file as a sampling frame", *JRSS(A)*, 150(3), pp. 230-240.

Table 25

Guide to the selection of BHPS weights for analysis

	Longitudinal analysis of individual respondent original sample members	Longitudinal analysis of all individual original sample members, including children	Cross-sectional analysis of individual respondents, including temporary sample members	Cross-sectional analysis of all individuals, including children, and including TSMs
GB or UK level analysis:				
Original BHPS sample	wLRWGHT from latest wave in longitudinal sequence	wLEWGHT from latest wave in longitudinal sequence	wXRWGHT from wave to be analysed	wXEWGHT from wave to be analysed
Original BHPS sample + ECHP sub-sample (waves 7 to 11)	Weight not available	Weight not available	wXRWGHT from wave to be analysed	wXEWGHT from wave to be analysed
Original BHPS sample + Scotland and Wales extension samples (wave 9 onwards)	wLRWTSW1 from latest wave in longitudinal sequence	wLEWTSW1 from latest wave in longitudinal sequence	wXRWTSW1 from wave to be analysed (wXRWTUK1 from wave 11 onwards)	wXEWTSW1 from wave to be analysed (wXEWTK1 from wave 11 onwards)
Original BHPS sample + Scotland, Wales and Northern Ireland extension samples: (wave 11 onwards)	wLRWTUK1 from latest wave in longitudinal sequence	wLEWTUK1 from latest wave in longitudinal sequence	wXRWTUK1 from wave to be analysed	wXEWTK1 from wave to be analysed
Analysis at England, Scotland, Wales or Northern Ireland level				
Original BHPS sample + Scotland and Wales extension samples	wLRWTSW2 from latest wave in longitudinal sequence	wLEWTSW2 from latest wave in longitudinal sequence	wXRWTSW2 from wave to be analysed (wXRWTUK2 from wave 11 onwards)	wXEWTSW2 from wave to be analysed (wXEWTK2 from wave 11 onwards)
Original BHPS sample + Scotland, Wales and Northern Ireland extension samples: (wave 11 onwards)	wLRWTUK2 from latest wave in longitudinal sequence	wLEWTUK2 from latest wave in longitudinal sequence	wXRWTUK2 from wave to be analysed	wXEWTK2 from wave to be analysed

Table 26

Statistics for Longitudinal and Cross-sectional weights after Wave One										
	N. gt 0	Mean	Standard deviation	Minimum	10th percentile	Median	90th percentile	Maximum	% variance inflation	Effective sample size
BLRWGHT	8721	1.00	0.297	0.20	0.72	0.95	1.35	2.50	8.8	8016
BLEWGHT	12398	1.00	0.294	0.21	0.74	0.94	1.34	2.50	8.6	11416
BXEWGHT	13151	1.00	0.321	0.09	0.70	0.97	1.33	2.50	10.3	11923
BXRWGHT	9459	1.00	0.338	0.09	0.67	0.97	1.37	2.50	11.4	8488
CLRWGHT	7905	1.00	0.321	0.18	0.68	0.94	1.40	2.50	10.3	7166
CLEWGHT	11713	1.00	0.326	0.21	0.70	0.92	1.40	2.50	10.6	10586
CXEWGHT	13099	1.00	0.368	0.07	0.58	0.97	1.41	2.50	13.8	11538
CXRWGHT	9029	1.00	0.386	0.07	0.55	0.97	1.44	2.50	14.9	7858
DLRWGHT	7525	1.00	0.329	0.18	0.67	0.93	1.44	2.50	10.8	6791
DLEWGHT	11236	1.00	0.345	0.21	0.68	0.91	1.46	2.50	11.9	10039
DXEWGHT	12844	1.00	0.380	0.07	0.52	0.98	1.40	2.50	14.5	11220
DXRWGHT	9059	1.00	0.391	0.07	0.51	0.98	1.41	2.50	15.2	7860
ELRWGHT	7170	1.00	0.335	0.18	0.65	0.93	1.47	2.50	11.2	6446
ELEWGHT	10751	1.00	0.353	0.07	0.66	0.91	1.52	2.50	12.4	9562
EXEWGHT	12529	1.00	0.417	0.07	0.49	0.96	1.45	2.50	17.4	10676
EXRWGHT	8817	1.00	0.423	0.06	0.49	0.97	1.46	2.50	17.9	7479
FLRWGHT	7059	1.00	0.339	0.18	0.65	0.93	1.50	2.50	11.5	6332
FLEWGHT	10512	1.00	0.363	0.07	0.65	0.91	1.56	2.50	13.2	9288
FXEWGHT	12678	1.00	0.426	0.06	0.46	0.99	1.46	2.50	18.2	10729
FXRWGHT	9117	1.00	0.418	0.06	0.46	0.99	1.45	2.50	17.5	7759
GLRWGHT	6901	1.00	0.347	0.18	0.64	0.92	1.54	2.50	12.0	6161
GLEWGHT	10311	1.00	0.371	0.07	0.63	0.90	1.58	2.50	13.7	9065
GXEWHGHT	12492	1.00	0.429	0.07	0.47	0.98	1.48	2.50	18.4	10553
GXRWGHT	9091	1.00	0.426	0.07	0.47	0.98	1.48	2.50	18.2	7694

Table 26 continued

Statistics for Longitudinal and Cross-sectional weights after Wave One										
	N. gt 0	Mean	Standard deviation	Minimum	10th percentile	Median	90th percentile	Maximum	% variance inflation	Effective sample size
GXEWGHTE	14979	1.00	0.463	0.06	0.45	0.97	1.54	2.93	21.4	12338
GXRWGHTE	10795	1.00	0.461	0.05	0.45	0.97	1.55	3.29	21.2	8910
HLRWGHT	6719	1.00	0.348	0.18	0.63	0.92	1.55	2.50	12.1	5992
HLEWGHT	100111	1.00	0.379	0.07	0.62	0.90	1.60	2.50	14.4	8839
HXEWHGT	12360	1.00	0.411	0.09	0.49	0.98	1.47	2.50	16.9	10575
HXRWGHT	8894	1.00	0.403	0.08	0.49	0.98	1.46	2.50	16.3	7650
HXEWGHTE	14730	1.00	0.447	0.06	0.46	0.99	1.53	2.92	19.9	12281
HXRWGHTE	10498	1.00	0.441	0.06	0.47	0.99	1.54	3.77	19.2	8805
ILRWGHT	6533	1.00	0.354	0.17	0.61	0.91	1.59	2.50	12.5	5806
ILEWGHT	9863	1.00	0.388	0.07	0.61	0.89	1.65	2.50	15.0	8575
IXEWHGT	12208	1.00	0.430	0.10	0.46	0.98	1.52	2.50	18.5	10299
IXRWGHT	8756	1.00	0.419	0.10	0.47	0.98	1.51	2.50	17.6	7446
IXEWGHTE	14464	1.00	0.466	0.06	0.44	0.97	1.57	3.28	21.7	11884
IXRWGHTE	10287	1.00	0.462	0.06	0.45	0.98	1.56	4.60	21.1	8495
IXEWTSW1	21418	1.00	0.778	0.03	0.22	0.80	2.11	4.55	59.8	13404
IXRWTSW1	15124	1.00	0.780	0.03	0.22	0.81	2.05	6.93	60.4	9431
IXEWTSW2	9064	1.00	0.398	0.08	0.63	0.93	1.48	2.50	15.8	7829
IXRWTSW2	6299	1.00	0.410	0.07	0.60	0.93	1.53	2.50	16.7	5396
JLEWGHT	9322	1.00	0.407	0.10	0.63	0.90	1.51	2.50	16.6	7997
JLRWGHT	6304	1.00	0.366	0.20	0.66	0.92	1.44	2.50	13.4	5560
JXEWGHT	12111	1.00	0.456	0.09	0.46	0.97	1.52	2.50	20.8	10024
JXRWGHT	8626	1.00	0.451	0.09	0.47	0.96	1.53	2.50	20.3	7170
JXEWGHTE	14298	1.00	0.470	0.06	0.42	0.96	1.56	2.51	22.6	11664
JXRWGHTE	10116	1.00	0.465	0.06	0.43	0.98	1.58	2.51	21.6	8317
JXEWTSW1	21235	1.00	0.783	0.03	0.22	0.77	2.16	2.85	61.3	13162
JXRWTSW1	14889	1.00	0.752	0.03	0.21	0.79	2.15	2.53	56.5	9512

Table 26 continued

Statistics for Longitudinal and Cross-sectional weights after Wave One										
	N. gt 0	Mean	Standard deviation	Minimum	10th percentile	Median	90th percentile	Maximum	% variance inflation	Effective sample size
JXEWTW2	21235	1.00	0.441	0.06	0.49	0.96	1.55	6.09	19.4	17786
JXRWTW2	14889	1.00	0.431	0.07	0.50	0.97	1.57	6.39	18.4	12571
JLEWTW1	18850	1.00	0.731	0.07	0.20	1.06	1.95	3.06	51.8	12419
JLRWTW1	13153	1.00	0.702	0.05	0.21	1.08	1.90	2.88	48.2	8873
JLEWTW2.	17214	1.00	0.409	0.17	0.66	0.92	1.45	11.58	16.6	14761
JLRWTW2	12054	1.00	0.399	0.12	0.66	0.93	1.43	8.25	15.9	10402
KLEWGHT	9077	1.00	0.421	0.10	0.62	0.89	1.53	2.50	17.7	7710
KLRWGHT	6042	1.00	0.369	0.20	0.66	0.91	1.46	2.50	13.6	5320
KXEWGHT	12082	1.00	0.444	0.10	0.46	1.00	1.48	2.50	19.7	10091
KXRWGHT	8518	1.00	0.439	0.09	0.47	0.99	1.48	2.50	19.3	7140
KXEWGHTe	14202	1.00	0.470	0.06	0.42	0.98	1.56	2.52	22.0	11638
KXRWGHTe	9964	1.00	0.460	0.06	0.43	0.99	1.56	2.51	21.1	8228
KXEWTUK1	26120	1.00	1.000	0.02	0.09	0.53	2.54	4.18	99.9	13064
KXRWTUK1	17825	1.00	0.958	0.02	0.09	0.56	2.46	4.11	91.8	9292
KXEWTUK2	26120	1.00	0.868	0.03	0.47	0.86	1.55	16.90	74.8	14942
KXRWTUK2	17825	1.00	0.830	0.03	0.47	0.87	1.54	16.00	68.4	10583
KLEWTW1	17978	1.00	0.728	0.06	0.20	1.06	1.97	3.75	51.2	11887
KLRWTW1	12372	1.00	0.693	0.05	0.21	1.08	1.87	2.95	47.0	8419
KLEWTW2	16470	1.00	0.464	0.16	0.64	0.91	1.48	14.56	21.4	13569
KLRWTW2	11359	1.00	0.442	0.12	0.64	0.92	1.46	11.33	19.4	9511

Table 26 continued

Statistics for Longitudinal and Cross-sectional weights after Wave One										
	N. gt 0	Mean	Standard deviation	Minimum	10th percentile	Median	90th percentile	Maximum	% variance inflation	Effective sample size
LLEWGHT	8901	1.00	0.428	0.10	0.61	0.89	1.55	2.50	18.3	7522
LLRWGHT	5812	1.00	0.375	0.20	0.66	0.91	1.46	2.50	14.0	5097
LXEWGHT	11936	1.00	0.445	0.13	0.46	0.98	1.51	2.50	19.8	9963
LXRWGHT	8295	1.00	0.437	0.12	0.47	0.97	1.52	2.50	19.1	6966
LXEWTUK1	22984	1.00	0.915	0.04	0.23	0.54	2.54	4.21	76.1	13054
LXRWTUK1	15508	1.00	0.906	0.02	0.14	0.57	2.44	3.94	80.1	8612
LXEWTUK2	22984	1.00	0.419	0.09	0.57	0.97	1.62	14.01	16.8	19671
LXRWTUK2	15508	1.00	0.429	0.08	0.56	0.96	1.64	13.12	17.9	13157
LLEWTSW1	15528	1.00	0.721	0.07	0.19	1.06	1.94	2.90	51.3	10261
LLRWTSW1	10449	1.00	0.687	0.06	0.21	1.07	1.85	3.15	46.7	7121
LLEWTSW2	15528	1.00	0.472	0.18	0.63	0.90	1.51	10.79	21.9	12738
LLRWTSW2	10449	1.00	0.454	0.14	0.64	0.91	1.46	11.99	20.3	8686
LLEWTUK1	20994	1.00	0.901	0.07	0.13	0.50	2.27	3.78	80.5	11630
LLRWTK1	13995	1.00	0.861	0.07	0.13	0.55	2.18	2.90	73.7	8058
LLEWTUK2	20994	1.00	0.384	0.20	0.67	0.94	1.45	12.92	14.6	18327
LLRWTK2	13995	1.00	0.372	0.17	0.67	0.94	1.45	9.01	13.6	12316
MLEWGHT	8639	1.00	0.442	0.10	0.60	0.88	1.57	2.50	19.5	7229
MLRWGHT	5624	1.00	0.381	0.22	0.65	0.91	1.47	2.50	14.5	4912
MXEWGHT	11657	1.00	0.427	0.12	0.49	0.98	1.50	2.50	18.3	9857
MXRWGHT	8162	1.00	0.421	0.11	0.49	0.98	1.50	2.50	17.8	6931
MXEWTUK1	22163	1.00	0.945	0.03	0.14	0.55	2.46	3.85	81.7	12196
MXRWTUK1	15141	1.00	0.912	0.03	0.13	0.61	2.37	5.05	76.8	8563
MXEWTUK2	22163	1.00	0.442	0.08	0.55	0.96	1.54	9.44	19.4	18566
MXRWTUK2	15141	1.00	0.456	0.08	0.55	0.95	1.54	16.24	20.7	12545
MLEWTSW1	14876	1.00	0.729	0.07	0.19	1.05	1.95	2.91	52.5	9756

Table 26 continued

Statistics for Longitudinal and Cross-sectional weights after Wave One										
	N. gt 0	Mean	Standard deviation	Minimum	10th percentile	Median	90th percentile	Maximum	% variance inflation	Effective sample size
MLRWTSW1	9940	1.00	0.685	0.06	0.21	1.07	1.85	3.01	46.5	6786
MLEWTSW2	14876	1.00	0.508	0.18	0.61	0.89	1.52	10.38	25.7	11832
MLRWTSW2	9940	1.00	0.452	0.15	0.63	0.90	1.47	7.25	20.4	8256
MLEWTUK1	19723	1.00	0.918	0.07	0.14	0.53	2.30	3.84	78.8	11033
MLRWTUK1	13111	1.00	0.873	0.07	0.13	0.60	2.23	2.98	71.8	7632
MLEWTUK2	19723	1.00	0.432	0.20	0.64	0.92	1.49	12.67	18.6	16632
MLRWTUK2	13111	1.00	0.421	0.16	0.66	0.93	1.45	9.97	17.6	11145
NLEWGHT	8639	1.00	0.448	0.08	0.59	0.88	1.59	2.50	20.1	7075
NLRWGHT	5624	1.00	0.386	0.21	0.64	0.91	1.48	2.50	14.9	4736
NXEWGHT	11657	1.00	0.442	0.14	0.48	0.98	1.50	2.50	19.6	9669
NXRWGHT	8162	1.00	0.433	0.13	0.48	0.97	1.51	2.50	18.7	6711
NXEWTK1	22163	1.00	0.952	0.03	0.15	0.57	2.61	3.04	81.5	11945
NXRWTUK1	15141	1.00	0.890	0.02	0.13	0.63	2.41	3.80	75.9	8268
NXEWTK2	22163	1.00	0.451	0.09	0.53	0.94	1.59	8.38	20.1	18046
NXRWTUK2	15141	1.00	0.458	0.08	0.54	0.93	1.63	7.59	20.8	12035
NLEWTSW1	14876	1.00	0.726	0.06	0.19	1.04	1.95	2.91	52.0	9481
NLRWTSW1	9940	1.00	0.677	0.06	0.21	1.06	1.85	3.33	45.2	6476
NLEWTSW2	14876	1.00	0.511	0.16	0.59	0.88	1.55	10.46	26.0	11441
NLRWTSW2	9940	1.00	0.457	0.15	0.62	0.90	1.50	7.78	20.8	7786
NLEWTUK1	19723	1.00	0.878	0.06	0.14	0.55	2.23	4.16	76.4	10702
NLRWTUK1	13111	1.00	0.836	0.07	0.13	0.66	2.15	3.69	69.0	7263
NLEWTUK2	19723	1.00	0.437	0.20	0.63	0.92	1.52	14.32	19.0	15871
NLRWTUK2	13111	1.00	0.437	0.17	0.64	0.92	1.47	9.68	19.0	10318

Table 26 continued

Statistics for Longitudinal and Cross-sectional weights after Wave One										
	N. gt 0	Mean	Standard deviation	Minimum	10th percentile	Median	90th percentile	Maximum	% variance inflation	Effective sample size
OLEWGHT	8320	1.00	0.459	0.08	0.58	0.88	1.63	2.50	21.1	6873
OLRWGHT	5275	1.00	0.398	0.21	0.63	0.90	1.50	2.50	15.8	4555
OXEWGHT	11426	1.00	0.457	0.11	0.48	0.97	1.55	2.50	20.9	9451
OXRWGHT	7873	1.00	0.445	0.14	0.48	0.97	1.54	2.50	19.8	6569
OXEWTUK1	21241	1.00	0.949	0.03	0.15	0.59	2.61	3.98	81.2	11721
OXRWTUK1	14387	1.00	0.896	0.03	0.13	0.63	2.43	5.46	77.5	8107
OXEWTUK2	21241	1.00	0.457	0.06	0.51	0.96	1.58	11.26	20.6	17607
OXRWTUK2	14387	1.00	0.483	0.07	0.52	0.95	1.57	18.29	23.1	11687
OLEWTSW1	13948	1.00	0.724	0.06	0.19	1.02	1.95	2.91	52.1	9168
OLRWTSW1	9024	1.00	0.672	0.08	0.22	1.05	1.84	3.50	44.8	6231
OLEWTSW2	13948	1.00	0.495	0.16	0.59	0.88	1.57	10.89	24.4	11213
OLRWTSW2	9024	1.00	0.456	0.18	0.62	0.90	1.50	8.04	20.7	7477
OLEWTUK1	18190	1.00	0.872	0.06	0.14	0.56	2.22	4.43	75.9	10339
OLRWTK1	11765	1.00	0.830	0.07	0.13	0.68	2.13	2.91	68.5	6981
OLEWTUK2	18190	1.00	0.437	0.19	0.62	0.92	1.54	15.23	19.0	15283
OLRWTK2	11765	1.00	0.426	0.16	0.65	0.92	1.48	9.74	18.0	9967
PLEWGHT	8121	1.00	0.465	0.08	0.58	0.87	1.63	2.50	21.7	6675.3
PLRWGHT	5139	1.00	0.402	0.20	0.62	0.90	1.50	2.50	16.1	4424.7
PXEWGHT	11307	1.00	0.483	0.13	0.52	1.05	1.67	2.50	20.3	9402.5
PXRWGHT	7804	1.00	0.444	0.11	0.48	0.97	1.54	2.50	19.7	6518.8
PXEWTUK1	20897	1.00	0.945	0.04	0.23	0.65	2.75	5.42	70.6	12245.7
PXRWTUK1	14148	1.00	0.893	0.03	0.15	0.64	2.42	5.38	77.1	7986.7
PXEWTUK2	20897	1.00	0.480	0.05	0.53	1.04	1.62	19.04	20.1	17402.1
PXRWTUK2	14148	1.00	0.508	0.04	0.51	0.96	1.58	20.08	24.9	11326.1

Table 26 continued

Statistics for Longitudinal and Cross-sectional weights after Wave One										
	N. gt 0	Mean	Standard deviation	Minimum	10th percentile	Median	90th percentile	Maximum	% variance inflation	Effective sample size
PLEWTSW1	13520	1.00	0.718	0.06	0.20	1.01	1.95	2.92	51.2	8939.2
PLRWTSW1	8738	1.00	0.670	0.08	0.22	1.04	1.84	3.49	44.7	6039.4
PLEWTSW2	13520	1.00	0.504	0.15	0.57	0.86	1.56	11.21	26.0	10732.2
PLRWTSW2	8738	1.00	0.457	0.18	0.61	0.88	1.49	7.95	21.5	7190.8
PLEWTUK1	17557	1.00	0.860	0.06	0.14	0.61	2.21	4.96	73.7	10107.0
PLRWTUK1	11346	1.00	0.822	0.07	0.14	0.70	2.13	3.15	67.3	6781.2
PLEWTUK2	17557	1.00	0.456	0.11	0.60	0.91	1.54	16.27	20.9	14521.4
PLRWTUK2	11346	1.00	0.426	0.08	0.64	0.90	1.48	10.44	18.4	9585.8
RLEWGH	7744	1.00	0.482	0.10	0.56	0.87	1.66	2.50	23.2	6284.1
RLRWGHT	4683	2.00	0.405	0.19	0.62	0.90	1.51	2.50	16.4	4022.3
RXEWGHT	10820	3.00	0.494	0.11	0.54	1.07	1.73	2.50	20.2	9003.1
RXRWGHT	7813	4.00	0.489	0.14	0.58	1.10	1.78	2.50	18.4	6597.6
RXEWTUK1	19641	5.00	0.977	0.03	0.17	0.70	2.80	5.39	76.1	11150.9
RXRWTUK1	14176	6.00	0.959	0.03	0.17	0.73	2.73	5.27	73.5	8171.1
RXEWTUK2	19641	7.00	0.512	0.06	0.51	1.04	1.62	18.10	22.1	16083.8
RXRWTUK2	14176	8.00	0.534	0.07	0.54	1.03	1.64	17.81	23.8	11446.1
RLEWTSW1	12729	9.00	0.722	0.06	0.20	1.00	1.97	3.55	51.6	8398.1
RLRWTSW1	7941	10.00	0.671	0.08	0.22	1.02	1.85	3.44	44.9	5479.0
RLEWTSW2	12729	11.00	0.539	0.16	0.56	0.85	1.58	12.77	30.0	9792.4
RLRWTSW2	7941	12.00	0.466	0.18	0.60	0.87	1.50	7.64	22.5	6483.9
RLEWTUK1	16084	13.00	0.848	0.06	0.14	0.66	2.20	4.97	71.7	9368.4
RLRWTUK1	10229	14.00	0.821	0.07	0.14	0.75	2.13	3.65	67.1	6120.9
RLEWTUK2	16084	15.00	0.464	0.15	0.59	0.89	1.54	16.03	22.0	13183.3
RLRWTUK2	10229	16.00	0.457	0.17	0.63	0.89	1.50	10.78	21.3	8435.4

V.3. Imputation Procedures Used in the BHPS

V.3.1. Introduction

Missing data on a range of income and housing cost variables have been imputed in all waves of data. This section discusses the methods used to carry out these imputations, and indicates how imputed data should be used.

Item non-response, where a respondent has given a full interview but where certain items on the questionnaire are missing, is a particular problem in all social surveys. Imputation is one of a number of possible techniques which can be used to deal with this problem. It is likely to be preferable to the default with standard statistical packages, which is to delete cases with one or more missing values when carrying out modelling procedures. This amounts to a strong assumption that the valid cases are a random sample of all cases, which implies that individuals with item non-response can be adequately represented by cases with complete data. This assumption is applicable when dealing with small amounts of item non-response, although it can lead to a large decrease in the number of available cases for analysis. However, in other cases, this assumption could seriously bias results. For example, refusers on a question asking about their dividend income over the year are likely to be systematically different from those answering this question so that the analysis of complete cases cannot be capturing the true nature of the population. One method of adjustment in such cases is to estimate the true value for missing cases using an imputation technique. Imputation techniques use various models with defined assumptions to obtain a 'best' estimate of the missing values. **BHPS** data contain imputation for important money amount variables.

It is important to stress that the main aim of imputation is to reduce potential bias caused by the elimination of cases with missing data, rather than to increase precision of estimates by increasing the effective sample size. Note that the main problem with imputation as a method of dealing with item non-response is that methods for adjusting estimates of precision such as confidence interval etc. are not easily available so that analysis carried out on data containing imputed values where this fact is not taken into account will give an over-estimate of precision. Alternatives to imputation are to model the missing data process during the analysis but this often requires rather strong assumptions (Little and Rubin 1989) or to use some form of multiple imputation to estimate the variance effects of the imputation procedure (Rubin 1987). One practical problem with these techniques is that they are not in generally available in statistical software. One further alternative which users may want to adopt in very specialised cases is to re-weight data to take account of cases excluded from analysis because of missing data. The interested reader can consult the references given below for further information regarding all these procedures and the use of imputation in surveys.

Using imputed data: For the reasons given above it will almost always be preferable to use imputed data, rather than only complete cases, since biases in results will be reduced. As described below the imputation methods have been designed to ensure that imputed values have the same error around the prediction model used as reported values, so that there should be no tendency to over-predict association (as there may be with simple imputation techniques such as mean substitution).

However for those users who wish to exclude imputed values, or to identify them, each variable subject to imputation has an associated imputation flag variable. These flags take three forms. For variables directly associated with a question, the imputation flag takes the missing value code of the original variable (e.g. Don't Know, Refused, etc.) if imputed, and 0 if not imputed, or -8 if the variable was inapplicable, including cases where the respondent was a proxy. This is to ensure that different missing value categories can still be distinguished. For individual level derived variables, as well as housing related derived variables, the imputation flag takes the value 1 if the variable was imputed, and 0 or -8 otherwise. For household income variables, the flag takes a value 0 if there was no imputation, 1 if some component of an individual household member's income was imputed, and 2 if the whole income of one or more household members was imputed (for example, a complete refusal to the interview or a Proxy respondent missing at BPRFITB).

Two main imputation techniques were used:

V.3.2. Hot-deck Imputation

A standard Hot-Deck imputation routine is analogous to weighting using weighting classes. This method was applied by firstly dividing the sample into imputation classes found to be predictive of the variable to be imputed. Then, assuming that cases within each class comprise a random sub-sample of the population, a valid value of the variable taken from a non-missing case within a given imputation class was used to impute the value of a missing case in the same class. The validity of this procedure is dependent on how informative the imputation classification for predicting values of missing cases. It ensures also that the imputed value is a possible value for a respondent with the relevant characteristics, and also that some randomness is introduced into the assignment of an imputed value.

This method was used for certain categorical money variables such as Proxy's personal income (wPRFITB), banded income from Dividends and Investments, and a number of cases where regression methods appeared inappropriate (e.g. income from welfare benefits). In order to ensure that the imputation classes were as informative as possible, classes were defined using an automatic interaction detection programme (SPSS CHAID). This procedure allows a high degree of control over the definition and size of these classes and can handle a large number of classification variables.

At various points in both the derivation of weights and for imputation of money amount variables, there was a requirement to impute a small number of missing cases so that certain variables could be used in the definition of weighting classes or within model based imputation procedures. Similar hot-deck procedures were used for this imputation. Since the variables imputed were those with less than two percent of cases missing, these imputation are unlikely to seriously effect the derivation of weights or the more complex regression imputations. These minor imputations are not carried over to the public released data set.

V.3.3. Regression Imputation

Money amount variables were imputed using a regression-based imputation technique. First, a regression model was fitted to all valid cases for the variable of interest using predictor variables which were non-missing (or had themselves been imputed) for both valid and missing cases of the variable to be imputed. Once a well fitting model was obtained, defined in terms of maximal adjusted R-squared, predicted values were defined for valid and missing cases using the model. These were then used to find the closest valid case in terms of the predicted value for each missing case. The missing case was then imputed with the real value of the closest valid case. This form of regression imputation is termed predictive mean matching. The advantage over imputing at the predicted value is both that a possible real value is imputed, and that a random error component is added so that the imputed values are not subject to less variance than reported values.

Having imputed a number of primary variables, a number of other income related variables were computed from these variables, with some additional small scale hot-deck imputation; for example, for the small number of cases where there was a complete refusal to the financial receipts section. Incomes were also imputed for refusers to the whole questionnaire, in order to construct a complete household income. However, no household income imputation was attempted for the six households where no individual interviews were completed, and thus no household income imputation was attempted with those households where the only interview was by telephone.

V.3.4. Cross-wave Imputation

In a panel study, there are not only variables from the current wave available to use as predictors in an imputation process, but there may also be variables from the same respondent collected at a different wave. It is likely that the best predictor of a missing value for a variable at Wave One, is a value of the same variable at Wave Two. However in using this value in 'cross-wave imputation' it is important to ensure that biases in rates of change in values are not introduced. This is essentially achieved through the methods described above. So in making a cross-wave imputation we are essentially taking a value from a donor who is both similar to the recipient in current characteristics and in the value of the imputed variable at the other wave. The imputed value should therefore imply a rate of change drawn from a randomly selected similar case. This approach will avoid introducing spurious change for panel analysis, which would be likely to arise if only single wave imputation was used.

For the following imputed variables (and hence the other variables which are derived from them) a three-wave imputation strategy was adopted: wPAYGU, wJSPROF, wJSPAYG, wJ2PAY, wFIYRDI, wPRFITB (as well as related imputation for interview refusers), wHSVVAL, wXPMG, wRENT. In some cases this used regression methods, and in others hot-deck methods as described above. However the model strategy was in each case essentially similar, and used either forward or backward imputation, or in the case of the middle wave, where valid data was available from both other waves this was used. An example is set out in Table 27, which shows the models run for Waves One, Two and Three for wPAYGU. The table also show the R-squared value and the number of cases involved at each step. For other variables the distinction according to whether the respondent was in the same job was not used or not relevant, so that the total number of models reduced to 10. For some of these other variables model fit was somewhat less good, with R-square values in the range 0.5 to 0.75 for self-employed income models, and 0.2 to 0.3 for pay in second job. This same three wave structure is moved forward with each new release, so that the latest three waves may be used in the imputation process.

V.3.5. References

Kalton, G. (1983) "Compensating for missing survey data". *Research Report Series*, Institute for Social Research, University of Michigan.

Little, R.J.A. and Rubin D.B. (1987) *Statistical Analysis with Missing Data*, John Wiley & Sons: New York.

Little, R.J.A. (1988) "Missing-data adjustments in large surveys", *Journal of Business & Economic Statistics*, 6(3), pp. 287-296.

Little, J.A. and Hong-Lin, S. (1989) "Item non-response in panel surveys", pp. 400-425, in *Panel Surveys*: Kasprzyk, D., Duncan, G., Kalton, G. and Singh, M.P. (Eds.), John Wiley & Sons: New York.

Rubin, D.B. (1987) *Multiple Imputation for Non-Response in Surveys*. John Wiley & Sons, New York.

V.4. Sampling Errors

The precision of population estimates obtained from a survey are described by the standard errors of these estimates. These provide a measure for assessing the value of a given estimate and are used extensively in statistical tests and modelling. The total error of a survey estimate is the difference between the estimate and the 'true value', and consists of two components, a systematic error or bias and a random error. The systematic component arises from a number of sources such as deficiencies in the frame, question wording, interviewer effects and non-response. Substantial effort is placed in the design of a survey to reduce this form of error to a minimum. The random component consists of sampling error, due to the fact that a sample was taken rather than a census and to other random factors in the survey which might include for example variation in interviewer technique and difference between coders in how they categorise a particular set of circumstances (though these factors may have systematic effects). The standard error of a survey estimate measures the sampling error, but in

Table 27

Cross-wave Imputation Models for Gross Usual Pay (A/B/CPAYGU)					
Model N.	To impute data missing at	Where	N of cases imputed	Complete cases in model	Model R**2
1	Wave 1	No data at other waves	306	4619	0.7916
2	Wave 2	Pay for work in same job available at wave 1	187	2877	0.9203
3	Wave 2	Pay for work in different job available at wave 1	44	663	0.8392
4	Wave 2	No data at other waves (not recorded as working at wave 1)	36	4688	0.8018
5	Wave 3	Pay for work in same job available at wave 2	201	2745	0.9221
6	Wave 3	Pay for work in different job available at wave 2	69	725	0.8378
7	Wave 3	Pay for work in different job available at wave 1 (not record working at wave 2)	26	3338	0.8558
8	Wave 2	Pay for work in same job available at wave 3	56	2992	0.9215
9	Wave 2	Pay for work in different job available at wave 3	17	794	0.8596
10	Wave 1	Pay for work in same job available at wave 2	175	3018	0.9151
11	Wave 1	Pay for work in different job available at wave 2	50	707	0.8417
12	Wave 1	Pay for work in different job available at wave 3 (not record working at wave 2)	14	3550	0.8597
13	Wave 2	Pay for work in same job available at both wave 1 and wave 3	46	2262	0.9379
14	Wave 3	No data at other waves - not recorded as working.	56	4609	0.7877

estimating, other sources of random error may become conflated. This section will focus on how the sample design of a survey can affect these standard errors. For a more complete introduction, the reader is referred to Butcher and Elliot (n.d.).

Most practical survey designs like that for the BHPS involve two general strategies for efficiency and to minimise costs. First, the sample is selected from a stratified list where the stratification is designed to ensure that specified subgroups are adequately represented and therefore the precision of estimates will be increased over simple random selection. Second, selection also tends to be made in a number of stages where the initial stages involve the selection of geographically clustered units in order to reduce field costs by locating the sample in a defined area. For example, the **BHPS** initially selected postcode sectors which contain an average of 2,500 households. This procedure can inflate the standard error of an estimate if there is geographical clustering of population characteristics of interest. For example, estimates of tenure type have an inflated standard error (or a decrease in precision) when based on a clustered sample compared with estimates based on an equivalently sized simple random sample since housing tenure is highly geographically clustered. The effect of clustering on estimates of standard errors is dependent on how homogeneous the characteristic of interest is within primary sampling units and the degree to which it varies within primary sampling units.

We will only discuss the effect of a complex sample design on estimates of proportions but these results generalise to other estimates such as means and standard errors of regression coefficients. The effect that a multistage selection procedure has had on the standard errors of a proportion (p) is given by the design factor which is defined as:

$$deft(p) = \frac{\text{estimated standard error of } p \text{ with complex design}}{\text{estimated standard error of } p \text{ with srs of the same size}}$$

The design factor indicates the increase in the standard error of an estimate over and above the size of the standard error which would be obtained from a simple random sample (srs) as indicated in the following:

$$se(p)_{\text{complex}} = deft \times se(p)_{\text{srs}}$$

In terms of the homogeneity of primary sampling units for given characteristics, the complex standard error can be expressed as follows:

$$se_{\text{complex}} = \sqrt{1 + (\bar{b} - 1)roh} \times se_{\text{srs}}$$

roh , the rate of homogeneity, approximates the intra-cluster correlation (ρ), a measure of clustering of similar characteristics within primary sampling units, while \bar{b} denotes the average number of elements per primary sampling unit. The above formula indicates how the larger the homogeneity of primary sampling units, the larger the complex sampling error will be compared to simple random sampling.

Confidence intervals for given point estimates can easily be obtained assuming that a normal approximation is valid, which is generally true for frequencies above 30. A 95% confidence interval is then bounded by the points defined below where p is the proportion:

$$(p - 1.96 \times (deft \times se(p)_{\text{srs}}), p + 1.96 \times (deft \times se(p)_{\text{srs}}))$$

The estimation of complex sampling errors and other related statistics is currently only available in specialised statistical packages. We used the package SUDAAN to calculate our estimates of complex standard errors and design factors. For a range of variables in the **BHPS**, the complex standard errors, DEFT's and 95% Confidence Intervals were calculated in order to give a general overview of the effect of sampling on the survey estimates. These are presented in *Table 28* below. A more complete indication of the general effect of multistage sample selection on a wide range of variables similar to those included in the **BHPS** is available in Breeze (1990), which details results for the General Household Survey.

The majority of DEFT's lie in the range 1-1.3 indicating that there is a relatively small effect of the sample design on srs based tests. For example, the DEFT for the proportion of respondents who had an in-patient stay since 1.9.90 is 1.05, so that the complex standard error is almost exactly the same as the srs standard error. However, for variables that are in some way geographically clustered in line with the selection procedure, the effect on standard errors can be large. For example, the DEFT for local authority tenure is 1.57 indicating a high degree of clustering which is consistent with local authority property being in large estates. It should be noted that, even with attitudinal variables such as agreement to the statement "All Health Care Should Be Free", the effect of the sample selection method can be marked. In this case, the DEFT is 1.63, indicating that the complex standard error is almost two thirds larger than the srs standard error. Care must therefore be taken in the analysis of variables which may have a strong association with area, since the use of srs techniques for the analysis of such variables can lead to misleading results due to the inappropriate estimation of precision. For a fuller discussion of the analysis of complex surveys and the problems associated with simple random sample assumptions being used as the basis for modelling and testing procedures, the reader is referred to the introductory text by Lee et al (1989) and the more comprehensive volume by Skinner et al (1989)

V.4.1. Bibliography

Breeze, E. (1990) *General Household Survey: Report on Sampling Error*. OPCS Series G.H.S. no 18.

Butcher, B., Elliot, D. *A Sampling Errors Manual*, OPCS Paper NM13.

Lee, E. S., Forthofer, R.N., Lorimor, R.J. (1989) *Analyzing Complex Survey Data: Quantitative Application in the Social Sciences No. 71*, Sage Publications: Newbury Park.

Skinner, C.J., Holt, D., Smith, T.M.F. (1989) *Analysis of Complex Surveys*, Wiley: Chichester.

Table 28 Complex Standard Errors, DEFTs and 95% Confidence Intervals for a Range of BHPS Variables

VARIABLE	Proportion	DEFT	Complex se	95% C.I.
Housing Tenure (ATENURE)				
Owner Occupier	66.20	1.46	.93	64.37 - 68.03
LA Rented	20.41	1.57	.85	18.74 - 22.08
Private Rented	9.43	1.65	.65	8.16 - 10.70
Car Available For Private Use (ANCARS)				
None	31.09	1.36	.85	29.42 - 32.75
1	45.94	1.09	.73	44.51 - 47.37
2	19.43	1.26	.67	18.12 - 20.75
Household Type (AHHTYPE)				
Single Non-Elderly	11.61	1.49	.61	10.41 - 12.81
Single Elderly	14.65	1.15	.55	13.57 - 15.73
Couple	17.41	1.11	.57	16.29 - 18.52
Elderly Couple	9.27	1.12	.44	8.41 - 10.12
Couple and Children	28.85	1.12	.67	25.54 - 28.15
Political Party Supported (AVOTE)				
Conservative	39.34	1.57	.81	37.79 - 40.91
Labour	36.04	1.66	.84	34.39 - 37.68
Lib Dem/Lib/SDP	11.57	1.36	.46	10.67 - 12.47
Current Employment Status (AHGEST)				
Working	58.30	1.37	.68	56.97 - 59.62
Unemployed	6.31	1.26	.31	5.70 - 6.91
Retired	17.80	1.42	.55	16.72 - 18.87
Family Care	11.17	1.21	.38	10.41 - 11.92

Table 28 Complex Standard Errors, DEFTs and 95% Confidence Intervals for a range of BHPS variables (contd.)

VARIABLE	Proportion	DEFT	Complex se	95% C.I.
Receiving Unemployment Benefit (AF131)	2.58	1.25	.20	2.19 - 2.96
Receiving Housing Benefit (AF139)	8.15	1.55	.43	7.31 - 8.99
Highest Government Priority (AOPPOL4)				
Living Standards	50.54	1.39	.72	49.14 - 51.95
Protect Environment	46.67	1.34	.69	45.32 - 48.02
School Leaving Age (ASCEND & ASCHOOL)				
Less than or equal to 16	76.47	1.66	.71	75.09 - 77.86
Goldthorpe Social Class (AJBGOLD)				
Service class	32.54	1.38	.84	30.89 - 34.19
Routine Non-Manual	13.75	1.18	.53	12.72 - 14.78
Married Female Employed (Derived)	56.26	1.11	1.01	54.29 - 58.23
Employee Union Member (Derived)	37.45	1.25	.84	35.81 - 39.10
Current Job Spell Began Before 1.9.90	24.07	1.25	.54	23.01 - 25.12
Health Limits Daily Activities (AHLT)	13.18	1.14	.39	12.42 - 13.94
All Health Care Should Be Free (AOPHLA)				
Agree	46.74	1.63	.81	45.15 - 48.33
Disagree	10.20	1.06	.32	9.57 - 10.84
Respondent Smokes (ASMOKER)	29.87	1.37	.63	28.63 - 31.10
Respondent Had In-Patient Stay Since 1.9.90 (AHOSP)	11.50	1.05	.34	10.84 - 12.16

VI. Data Dissemination

VI.1. Release of BHPS Data

The ESRC Research Centre is concerned to facilitate and promote the widest possible use of its data within the user community. It has therefore undertaken to deposit a copy of each wave of the **BHPS** data in the Data Archive only one year after the end of fieldwork. This early deposit is clearly in the interests of both the Centre and the user community. We would ask users to inform the Centre and/or the Archive of any errors or inconsistencies of which they become aware during their use of the data. All **BHPS** data users will be informed of these via the **BHPS User Group** as soon as we are informed. As the data from each wave will be re-issued in a merged file with the next wave of data, communicating information to the Centre is particularly important so that errors and omissions can be rectified in the later releases.

VI.2. Access to BHPS Data

All users of data for academic purposes have open access to the data through the Data Archive. Data are supplied in formats suitable for use with a number of different statistical and analysis packages.

Only researchers carrying out analysis for commercial clients may be charged by the Research Centre for access. Decision on such charges will be made by the Research Centre and administered through the Data Archive. Each use, for whatever purpose, must be the subject of a separate application; an undertaking form must be signed before the data can be released. This covers the use of the data and the obligations of the user to both the Data Archive and the data depositors, the ESRC Research Centre for Micro-social Change. These obligations include the deposit in the Data Archive of two copies of all publications arising from the use of the data, one of which will be held in the Research Centre's Research Resources Unit, from whom a list of publications held can be obtained on request. (A brief list of those of which we are currently aware appears in *Appendix 5*: this list will be up-dated in future editions of the *User Manual*.)

Contact the Data Archive directly for more information:

User Services
The Data Archive
University of Essex
Colchester, Essex
CO4 3SQ

Tel:	+44 (0)1206 872001
Fax:	+44 (0)1206 872003
E-Mail:	archive@essex.ac.uk
World Wide Web	http://dawwww.essex.ac.uk/

VI.3. Acknowledging the Source of Data

Users are also obliged to acknowledge both the Archive and the Institute for Social and Economic Research (incorporating the ESRC Research Centre on Micro-social Change) in any publications arising from analysis of the data, and to include a disclaimer statement. The proper forms of both are indicated below.

The following disclaimer should be quoted, adapting the items in parentheses as appropriate:

The data (and tabulations) used in this (publication) were made available through the ESRC Data Archive. The data were originally collected by the ESRC Research Centre on Micro-social Change at the University of Essex (now incorporated within the Institute for Social and Economic Research). Neither the original collectors of the data nor the Archive bear any responsibility for the analyses or interpretations presented here.

The following elements should be included in the bibliographic citation when acknowledging the **BHPS** as a source:

British Household Panel Survey [computer file] principal investigator, ESRC Research Centre on Micro-social Change .-Colchester: The Data Archive [distributor], 199_ .-Data files and associated documentation.

VI.4. The BHPS User Group

The Centre administers a **User Group** whose aims are to provide a forum for the exchange of ideas, problems and solutions for data users and a liaison mechanism for the Centre and the users of its data. As the **BHPS** is a longitudinal panel study, regular contact with users will be of particular value to the Centre as it continues to collect data in the future. Users should also benefit from the opportunity to put their ideas for future data collection to the Centre and to become aware of the development of the survey during its lifetime. The Data Archive will deal with all issues relating to data access, and will pass the names of all registered users of **BHPS** data to the **User Group**.

User Group communication will take place via an electronic Newsletter and periodic news sheets and messages from the Scientific Documentation and Liaison Officer at the Centre. The SDLO is available via e-mail, telephone, fax or slowmail to answer queries on the data and its analysis. There is a wide body of expertise within the Research Centre and, through the User Group, it is anticipated that a cross-flow of ideas and knowledge will take place which will enrich the social science community as a whole. All users are urged to become members of this Group. Workshops and meetings of **User Group** members will be announced via the Mailbase, via e-mail and on our World Wide Web pages.

For information on the **British Household Panel Study User Group**, contact:

Scientific Documentation and Liaison Officer
Institute for Social and Economic Research
University of Essex
Colchester
Essex
CO4 3SQ
United Kingdom

Tel: +44 (0)1206 873543
Fax: +44 (0)1206 873151
e-mail: bhpsug@essex.ac.uk
World Wide Web <http://www.iser.essex.ac.uk/bhps/bhpsug/>

In addition, a User Group Mailbase, *bhps-all* exists to allow rapid dissemination of information from the Centre to all users. To contact the Mailbase *bhps-all*, simply send an e-mail via JANET to:

mailbase@mailbase.ac.uk

with the message text containing the command:

join bhps-all <your firstname> <your lastname>

We would urge all users to join and use the Mailbase to communicate with the Centre and other users.

VI.5. BHPS Documentation

The clarity and depth of the documentation of a dataset is fundamental to the success of its analysis by researchers. The Research Centre has released this documentation in the hope that it will provide a user-friendly introduction to **BHPS** data, and provide the information that is required for its analysis. We would welcome comments and feedback to inform future editions. Users who require more information should consult the publications cited in *Appendix 5* and contact the Scientific Documentation and Liaison Officer on the number given above.

Future releases of **BHPS** data will be accompanied by up-dated documentation. These volumes have been designed to allow up-dating by the issue of up-date and/or replacement sheets for future waves. Those who acquire later releases of the **BHPS** database and who have already purchased the previous volumes will be supplied with these up-date sheets as part of the purchase of the codebook (*Volume B*) for the latest wave. Indexes will be up-dated to include both previous and latest wave.

Publications of the Institute are listed within the Institute Research Resources Unit's cataloguing system, ISERCAT, which provides a fast interactive guide to publications within the social sciences. Enquiries are welcome.

APPENDICES

Appendix 1. Using BHPS Data

This section gives a very brief introduction to the use of BHPS data for research with some of the standard statistical software. In particular, it gives examples of linking data from different levels of analysis (e.g. individuals and households) using SPSS and STATA at a single wave in *Section 1.1* and linking individuals across waves in *Section 1.2*. These short discussions are, of course, no substitute for the User Manuals for the two packages, but they are intended to give some indication of possible ways of organising **BHPS** data for different types of analysis.

1.1. Linking Data from Different SPSS System Files and Stata Datasets at a Single Wave

The examples below all related to Wave One data, but, suitably modified, apply equally at later waves. Where analysis is concerned with only one level, then all the necessary data are likely to be found in a single SPSS system file or STATA dataset. The exception to this is where one file contains a subset of the units contained in another, as in the case of AINDRESP, which contains only respondent individuals.

1.1.1. Creating a File Containing One Record for Each Adult

In this first example, we want to create a file containing one record for each adult, whether respondent or not, with non-respondent adults having missing values for variables from the respondent file.

In SPSS this would be achieved by the following (it is assumed here and in following example that FILE HANDLES have been set up):

```
MATCH FILES FILE = AINDALL /FILE = AINDRESP /BY AHID APNO.  
SELECT IF (AAGE GE 16).
```

and then any analysis commands ...

Again this would produce a very large file, and users might want to include a KEEP sub-command.

In STATA ...

```
use pid aivfio using aindall if aivfio~=7 // aivfio=7 are children under 16  
sort pid  
save alladults, replace
```

```
use aindresp  
sort pid  
merge pid using alladults  
tab aivfio _merge
```

1.1.2. Distributing Household Level Information to the Individual Level

In this second example, household level information about housing costs is linked to individual level data about preferences for moving, and a file is output at the individual level.

In SPSS ...

```
MATCH FILES TABLE = AHHRESP / FILE = AINDRESP / BY AHID.  
  /KEEP = AHID AXPHSN ATENURE AXPHSDF APNO ALKMOVE ALKMOVY  
  ASEX AAGE AJBSTAT.
```

In STATA ...

```
use ahid axphsn atenure axphsdf using ahhresp  
sort ahid  
save hhinfo, replace
```

```
use ahid apno alkmov alkmovy asex aage ajbstat using aindresp  
sort ahid  
merge ahid using hhinfo  
tab _merge
```

1.1.3. Summarising Individual Level Information at the Household Level

The following example takes the opposite approach - aggregating from individual level to create two new variables at the household level: the count of the number of household members in the age group 18-24; and the number of students in the same age group. These are exported to a new file with information about total household size and tenure.

In SPSS we make use of the AGGREGATE command to count dummy variables over the household.

```
GET FILE = AINDALL.
COMPUTE STUDENT = 0.
COMPUTE A1824 = 0.
DO IF (AAGE GE 18 AND AAGE LE 24).
COMPUTE A1824 = 1.
IF (AHGEST EQ 5) STUDENT = 1.
END IF.
AGGREGATE OUTFILE = * /PRESORTED / BREAK = AHID
  /N1824 = SUM(A1824)
  /NSTUDENT = SUM(STUDENT).
MATCH FILES FILE = * /FILE = AHHRESP /BY AHID
  /KEEP = AHID AHHSIZE ATENURE N1824 NSTUDENT.
```

In STATA we make use of 'by group' operations [bysort ...:] in combination with 'egen'

use ahid ahhsiz atenur using ahhrsp

sort ahid

save hhinfo, replace

use ahid aage ahgest using aindall

bysort ahid: egen n1824= sum(aage>=18 & aage<=24)

bysort ahid: egen nstudent = sum(ahgest==5)

bysort ahid: keep if _n==1 // keep only first observation for every household

sort ahid

merge ahid using hhinfo

tab _merge

The expression in brackets is a logical statement which evaluates to 1 if true for the observation and 0 otherwise. Egen in combination with sum() creates the total sum within the 'by group' and distributes this sum to all observations in the group.

1.1.4. Aggregating Income Information to the Individual Level

The following example uses the income information. It computes separate variables for the estimated amount of income received from Unemployment Benefit, Income Support and the two combined (payment codes 31, 32 and 33) in September 1991, and then saves this with the variable AJBSTATT, the employment status on 1st September 1991.

In SPSS we again use the AGGREGATE command:

```
GET FILE = AINCOME.
COMPUTE UB = 0.
COMPUTE IS = 0.
COMPUTE UI = 0.
IF (AFICODE EQ 31) UB = AFIM09T.
IF (AFICODE EQ 32) IS = AFIM09T.
IF (AFICODE EQ 33) UI = AFIM09T.
AGGREGATE OUTFILE = * / PRESORTED /BREAK = AHID APNO
  /UNBEN = SUM(UB)
  /INCSUP = SUM(IS)
  /UBIS = SUM(UI).

MATCH FILES FILE = * /IN = INC / FILE = AINDRESP / BY AHID APNO
  /KEEP = AHID APNO AJBSTATT UNBEN INCSUP UBIS.
DO IF (INC EQ 0).
COMPUTE UNBEN = 0.
COMPUTE INCSUP = 0.
COMPUTE UBIS = 0.
END IF.
```

(The last five lines of the SPSS example are intended to ensure that the values of the target variables for individuals who receive no payments of any type are set to '0' rather than having missing values assigned.)

Similar structures would be used to aggregate employment history information.

In STATA ...

```
use ahid apno ajbstatt using aindresp
sort ahid apno
save indinfo, replace
```

```
use ahid apno aficode afim09t using aincome
bysort ahid apno: egen unben = sum(afim09t * (aficode==31) * (afim09t>=0))
bysort ahid apno: egen incsup = sum(afim09t * (aficode==32) * (afim09t>=0))
bysort ahid apno: egen ubis = sum(afim09t * (aficode==33) * (afim09t>=0))
bysort ahid apno: keep if _n==1 // keep only first observation for every respondent
```

```
sort ahid apno
merge ahid apno using indinfo
tab _merge
inspect unben incsup ubis
mvencode unben incsup ubis, mv(0) override
```

1.1.5. Matching Individuals with a Household

The next example matches data from each female respondent who is married or living with a partner, with data from her spouse or partner. There may be missing data if her spouse was not interviewed. Note that variables are renamed, so that the second set of variables collected do not overwrite the first.

In SPSS (note that here the spouse number is renamed the person number for the purpose of the match file)

```
GET FILE = AINDRESP /RENAME = (APNO AHGSPN ASEX AIVFIO AJBSTAT
    AOPFAMA = WPNO APNO WSEX WIVFIO WJBSTAT WOPFAMA) .
SELECT IF (APNO GT 0 AND WSEX EQ 2) .
EXECUTE .
MATCH FILES FILE = * /IN = WIFE /FILE = AINDRESP /RENAME = (ASEX AIVFIO
    AJBSTAT AOPFAMA = HSEX HIVFIO HJBSTAT HOPFAMA) /BY AHID APNO .
```

In STATA ...

```
use ahid apno ahgspn asex aivfio ajbstat aopfama using aindresp if ahgspn>0 & asex==2
renprefix a w
rename whgspn apno
rename whid ahid
sort ahid apno
save wife, replace
```

```
use ahid apno ahgspn asex aivfio ajbstat aopfama using aindresp
renprefix a h
rename hhid ahid
rename hpno apno
sort ahid apno
merge ahid apno using wife
tab _merge
keep if _merge==3
```

An alternative, more Stata-ish method, is to create an identification number for each partnership within the household and to use this to create new variables containing the spouse's characteristics using 'explicit subscripting', where the number in square brackets indicates the position of the observation in the by group.

```
use ahid apno asex ahgspn aivfio ajbstat aopfama using aindresp
gen partnum = cond(apno<ahgspn, apno, ahgspn) if ahgspn>0
foreach w in asex aivfio ajbstat aopfama {
    bysort ahid partnum: gen spouse`w' = cond(_n==1, `w'[2], `w'[1]) if partnum~= .
}
bysort ahid partnum: keep if asex==2 & _N==2 // keep only women whose partners took part in the survey
```

The cond() function evaluates the first expression and if true returns the value of the second element in the brackets; if false it returns the value of the third element. In this case, the partnership identification number is set to equal the smaller of either apno or ahgspn. To create the spouse variables, the cond() function evaluates whether the observation is the first in the by group (_n==1). If true, the spouse variable is assigned the value of the variable in the second position in the by group; If not true, the spouse variable is assigned the value of the variable in the first position in the by group.

1.1.6. Using the AEGOALT Record

The following more complex retrieval (only shown in STATA) is intended to identify unmarried respondents to the full interview, who are living with their parents, together with information on the number of their siblings of each sex, the number of rooms in the house, the total household size and whether they would prefer to move.

In STATA ...

```
use ahid ahsroom ahhszise using ahhresp
sort ahid
save hhinfo, replace
```

```
use ahid apno arel aosex using aegoalt
bysort ahid apno: egen npar = sum(arel==13)
bysort ahid apno: egen nbro = sum((arel==10 | arel==11 | arel==28) & (aosex==1))
bysort ahid apno: egen nsis = sum((arel==10 | arel==11 | arel==28) & (aosex==2))
bysort ahid apno: keep if _n==1
keep if npar>=1
sort ahid apno
save relatives, replace
```

```
use ahid apno asex aage amastat alkmvove aivfio using aindresp if aivfio==1 & amastat>=3
sort ahid apno
merge ahid apno using relatives
tab _merge
```

```
_merge==1: full respondents, but not single living with parents
_merge==2: single living with parents, not full respondents
_merge==3: full respondents and single living with parents
```

```
keep if _merge==3
drop _merge
```

```
sort ahid
merge ahid using hhinfo
tab _merge
keep if _merge==3
```

1.2. Linking Data from Different Waves

1.2.1. Matching Respondents at Wave One and Wave Two

Here we are only concerned with full respondents at both waves, but want to create a file containing all respondents.

In **SPSS** ...

```
GET FILE BINDRESP
  /KEEP PID BHLGHQ1 BJBSTAT BLRWGHT.
SORT CASES BY PID.
MATCH FILES FILE = */FILE = XWAVEID / by PID.
EXECUTE.
SORT CASES BY AHID APNO.
SELECT IF (AIVFIO = 1 AND BIVFIO =1).
EXECUTE.
MATCH FILES FILE = * /FILE = AINDRESP BY AHID APNO.
EXECUTE.
```

In **STATA**

WIDE file (Wave 2 variables added to Wave 1 file as separated columns):

```
foreach w in a b {
    use pid 'w'sex 'w'age 'w'hlghq1 'w'jbstat 'w'ivfio using 'w'indresp if 'w'ivfio==1
    sort pid
    save wave`w', replace
}
merge pid using wavea
tab _merge
keep if _merge==3
```

LONG file (Wave 2 variables added to Wave 1 file as separate rows):

```
foreach w in a b {
    use pid 'w'sex 'w'age 'w'hlghq1 'w'jbstat 'w'ivfio using 'w'indresp if 'w'ivfio==1
    renpfix 'w'
    gen wave = index("ab","w")
    sort pid
    save wave`w', replace
}
append using wavea
bysort pid: keep if _N==2
```

1.2.2. Including Household Level Information

The above examples may be easily adapted to include information from the household level records. Note that most matches of household level information follow this pattern, and match via individual members, since there is no crosswave household identifier.

In SPSS:

```
MATCH FILES FILE = BINDRESP /TABLE = BHHRESP /BY = BHID
      /KEEP = PID BHLGHQ1 BJBSTAT BLRWGHT BFIHNMN BFIEQFCB BHHTYPE.
SORT CASES BY PID.
MATCH FILES FILE = * /FILE = XWAVEID /BY = PID.
SELECT IF (AIVFIO EQ 1 AND BIVFIO EQ 1).
SORT CASES BY AHID APNO.
MATCH FILES FILE = * /FILE = AINDRESP /BY AHID APNO.
MATCH FILES FILE = * /TABLE = AHHRESP /BY AHID.
EXECUTE.
```

In STATA

WIDE file (Wave 2 variables added to Wave 1 file as separated columns):

```
foreach w in a b {
    use 'w'hid 'w'fihhmn 'w'fieqfcb 'w'hhtype using 'w'hhresp
    sort 'w'hid
    save hhinfo`w', replace

    use 'w'hid pid 'w'sex 'w'age 'w'hlgq1 'w'jbstat 'w'ivfio using 'w'indresp if 'w'ivfio==1
    sort 'w'hid

    merge 'w'hid using hhinfo`w'
    tab _merge
    keep if _merge==3
    drop _merge
    sort pid
    save wave`w', replace
}
merge pid using wavea
tab _merge
keep if _merge==3
```

LONG file (Wave 2 variables added to Wave 1 file as separate rows):

```
foreach w in a b {
    use 'w'hid 'w'fihhmn 'w'fieqfcb 'w'hhtype using 'w'hhresp
    renpfix 'w'
    sort hid
    save hhinfo`w', replace

    use 'w'hid pid 'w'sex 'w'age 'w'hlgq1 'w'jbstat 'w'ivfio using 'w'indresp if 'w'ivfio==1
    gen wave = index("ab", "w")
    renpfix 'w'
    sort hid
```

```
merge hid using hhinfo`w'  
tab _merge  
drop _merge  
save wave`w', replace  
}  
append using wavea  
bysort pid: keep if _N==2
```

1.2.3. Including information about Wave Two Non-respondents

Not all Wave One respondents were interviewed at Wave Two, and it is necessary to take this into account in making links. In the above examples only both wave respondents were included, but in the example below all Wave One respondents are included whatever their Wave Two status

In SPSS

```
GET FILE = AINDRESP /KEEP = PID ASMOKER AIVFIO.
SORT CASES BY PID.
SELECT IF (AIVFIO EQ 1).
MATCH FILES FILE = * /IN = SM /FILE = XWAVEID /BY = PID.
SELECT IF (SM EQ 1).
SORT CASES BY BHID BPNO.
MATCH FILES FILE = * /FILE = BINDRESP /BY = BHID BPNO.
SELECT IF (SM EQ 1).
RECODE BSMOKER (SYSMIS = -10).
```

In STATA

WIDE file:

```
foreach w in a b {
    if "`w'"=="a" {
        use pid 'w'smoker 'w'ivfio using 'w'indresp if 'w'ivfio==1
    }
    else {
        use pid 'w'smoker 'w'ivfio using 'w'indresp
    }
    sort pid
    save wave `w', replace
}
merge pid using wavea
tab _merge
drop if _merge==1      // new entrants at wave 2
drop _merge
mvencode bsmoker, mv(-10)
```

LONG file:

```
foreach w in a b {
    if "`w'"=="a" {
        use pid 'w'smoker 'w'ivfio using 'w'indresp if 'w'ivfio==1
    }
    else {
        use pid 'w'smoker 'w'ivfio using 'w'indresp
    }
    renprefix 'w'
    gen wave = index("ab", "`w'")
    sort pid
    save wave `w', replace
}
append using wavea
bysort pid (wave): keep if (_N==2) | (_N==1 & wave==1)      // drop wave 2 new entrants
```

1.2.4. Matching a Subset of Cases

Here we are concerned with creating a file containing only a subset of cases defined on some substantive variables. This could be done as above, selecting cases out at the end, but it is likely to be more efficient to do it as follows:

In *SPSS* the structure is the same as in the previous example:

```
GET FILE = AINDRESP /KEEP = PID AJBSTAT ASEX AAGE AHLGHQ1 AREGION AIVFIO.
SELECT IF (AJBSTAT EQ 3 AND AIVFIO EQ 1).
SORT CASES BY PID.
MATCH FILES FILE = * /IN = UE /FILE = XWAVEID /BY = PID.
SELECT IF (UE EQ 1).
SORT CASES BY BHID BPNO.
MATCH FILES FILE = * /FILE = BINDRESP /BY = BHID BPNO.
SELECT IF (UE EQ 1).
RECODE BJBSTAT BHLGHQ1 BREGION (SYSMIS = -9).
```

In *STATA*:

WIDE file:

```
foreach w in a b {
    if "`w'"=="a" {
        use pid `w'jbstat `w'sex `w'age `w'hghq1 `w'region `w'ivfio using `w'indresp if `w'ivfio==1 &
        `w'jbstat==3
    }
    else {
        use pid `w'jbstat `w'sex `w'age `w'hghq1 `w'region `w'ivfio using `w'indresp if `w'ivfio==1
    }
    sort pid
    save wave `w', replace
}
merge pid using wavea
drop if _merge==1
drop _merge
mvencode bjbstat bhlghq1 bregion, mv(-10)
```

LONG file:

```
foreach w in a b {
    if "`w'"=="a" {
        use pid `w'jbstat `w'sex `w'age `w'hghq1 `w'region `w'ivfio using `w'indresp if `w'ivfio==1 &
        `w'jbstat==3
    }
    else {
        use pid `w'jbstat `w'sex `w'age `w'hghq1 `w'region `w'ivfio using `w'indresp if `w'ivfio==1
    }
    renpfix `w'
    gen wave = index("ab", "`w'")
    sort pid
    save wave `w', replace
}
append using wavea
bysort pid (wave): keep if (_N==2) | (_N==1 & wave==1)
```

1.2.5. Constructing a flat cross-wave file at the individual level

The techniques described above can be used to construct a flat file at the person level containing all information from each wave from record types WINDSAMP, WINDALL, WINDRESP, as well as household level information from WHHRESP. More substantial restructuring would be required to include the other record types. Such a flat file would contain around 4000 variables at Wave four, and therefore is not particularly efficient for use in statistical analysis, but it may be a useful way of holding the data, where the main analytical intention is person level panel analysis.

a) matching single wave records together - using the technique described in example 1.1.1 above to match data at the individual level from different files, and the technique shown in 1.1.2 to distribute household level information to the individual level. Thus for wave two, using SPSS:

```
GET FILE=BINDSAMP.SYS.
* NB - select out final location cases only
SELECT IF (BFINLOC EQ 1).
MATCH FILES FILE=* / FILE=BINDALL.SYS / FILE=BINDRESP.SYS
  /BY=BHID BPNO.
EXECUTE.
MATCH FILES FILE=* /TABLE=BHHRESP.SYS / BY=BHID.
* Now sort this so it can be matched later.
SORT CASES BY PID.
SAVE OUTFILE=WAVE2.SYS.
```

This is repeated for each wave separately. It would of course be possible to select at this point the subset of variables which are required for analysis.

b) Matching the waves. This requires that the files are sorted by PID. The cross-wave file XWAVEID should also be matched in, since it provides information about the status of individuals not record at a particular wave. Thus for the first four waves using SPSS:

```
MATCH FILES FILE=XWAVEID.SYS /FILE=WAVE1.SYS /FILE=WAVE2.SYS
  /FILE=WAVE3.SYS /FILE=WAVE4.SYS /BY=PID.
SAVE OUTFILE=XWIND.SYS
```

c) In the file created above there will be system missing values, for example for WINDRESP variables for children, and adults who did not respond at a wave, and for all wave specific variables (except WHID WPNO WVFIO WVFHO, contained on XWAVEID) for individuals not part of the issued sample. Users may want to reset these. Note that there are a limited number of alphanumeric variables on the dataset, and if any of these are included, a single recode statement will not work.

1.2.6. Using the Lifetime History Data

At Wave Two and Wave Three a range of lifetime history information was collected, covering, marriages (BMARRIAG), cohabitation spells (BCOHABIT), children (BCHILDAD, BCHILDNT), lifetime employment status (BLIFEMST) and a lifetime job history (CLIFEJOB). These data are all structured as one record for each spell (or child), containing information about the date of the start of the spell (e.g. marriage date, child birth, date of taking job), the end date if any, and other information about the nature of the spell. Thus there is an indeterminate number of records for each respondent. These data have a variety of uses. For spell analysis techniques such as event history analysis the data may be usable in their current form, though it is likely that information from other record types must be matched in. Here we briefly outline two other possible uses: the construction of summary lifetime information, and the restructuring of the information into calendar format.

The construction of summary variables describing lifetime experience, for example, the number of unemployment or cohabitation spells, the number of months unemployed to date etc. use the aggregation techniques described in example 1.1.4 above. Thus to use SPSS to construct an individual level file giving the total number of employment and unemployment spells and the total number of months in each state:

```
GET FILE=BLIFEMST.SYS
COMPUTE NUNEM=0
COMPUTE LUNEM=0
COMPUTE NEMP=0
COMPUTE LEMP=0
*   Create flag variables to indicate if length missing
*   for relevant spell
COMPUTE EMFLAG=0
COMPUTE UMFLAG=0
DO IF (BLESST GE 1 AND BLESST LE 3)
COMPUTE NEMP=1
IF (BLESLEN GE 0) LEMP=BLESLEN
IF (BLESLEN LT 0) EMFLAG=1
ELSE IF (BLESST EQ 4)
COMPUTE NUNEM=1
IF (BLESLEN GE 0) LUNEM=BLESLEN
IF (BLESLEN LT 0) UMFLAG=1
END IF
AGGREGATE OUTFILE = * / PRESORTED /BREAK=BHID BPNO
  /NUNEM LUNEM NEMP LEMP EMFLAG UMFLAG =
  SUM(NUNEM LUNEM NEMP LEMP EMFLAG UMFLAG)
```

For some research purposes calendar information is needed. This restructures the spell data so as to create a vector of variables at the respondent level, with each variable representing the status at a particular time point (e.g. month or year). A number of design issues have to be resolved. For example, where the time interval is longer than that for which the data was collected, then some provision must be made for coding multiple statuses. The following example does not deal with these issues, but simply constructs a monthly calendar of status from age 16 to age 60, derived from the BLIFEMST record.

In SPSS we could do this using the following methods. Note that the first step is to flatten all the separate BLIFEMST records into a single long record.

```
GET FILE=BINDRESP.SYS / KEEP=BHID BPNO BLEDENDM BLEDENDY BDOB M BDOBY
  BDOIM BDOIMY
COMPUTE BDOBY=BDOBY-1900
MATCH FILES TABLE=* / FILE=BLIFEMST.SYS / BY=BHID BPNO
SELECT IF (BLEDENDY GE 0)
VECTOR AGEEND (38)
VECTOR AGESTT (38)
```



```
VECTOR STAT (38)
RECODE BLEDENM BLESISM BLESHEM (-1,-2,-9=6) (13=1) (14=4) (15=7) (16=10)
IF (BLESHEY EQ -8) BLESHEY=BDOIY
IF (BLESHEM EQ -8) BLESHEM=BDOIM
DO IF (BLESYSY GE 1)
.   COMPUTE AGESTART=(12*BLESYSY+BLESISM) - (12*BDOBY+BDOBM) -192
ELSE
.   COMPUTE AGESTART=-999
END IF
DO IF (BLESHEY GE 1)
.   COMPUTE AGEEND=(12*BLESHEY+BLESHEM) - (12*BDOBY+BDOBM) -192
ELSE
.   COMPUTE AGEEND=-999
END IF
LOOP #I=1 TO 38
.   DO IF (BLESNO EQ #I)
.       COMPUTE AGESTT(#I)=AGESTART
.       COMPUTE AGEEND(#I)=AGEEND
.       COMPUTE STAT(#I)=BLESST
.   END IF
END LOOP
AGGREGATE OUTFILE=* /PRESORTED / BREAK=BHID BPNO
/AGESTT1 TO AGESTT38=MAX(AGESTT1 TO AGESTT38)
/AGEEND1 TO AGEEND38=MAX(AGEEND1 TO AGEEND38)
/STAT1 TO STAT38=MAX(STAT1 TO STAT38)
DESCRIPTIVES ALL
VECTOR MSTAT (528)
* PERIOD BEFORE SCHOOL LEAVING
DO IF (AGESTT1 GE 1)
.   COMPUTE #AGE1=AGESTT1
.   IF (#AGE1 GT 528) #AGE1=528
.   LOOP #J=1 TO #AGE1
.       COMPUTE MSTAT(#J)=8
.   END LOOP
END IF
VECTOR AGESTT=AGESTT1 TO AGESTT38
VECTOR AGEEND=AGEEND1 TO AGEEND38
VECTOR STAT=STAT1 TO STAT38
LOOP #K=1 TO 38
.   DO IF (SYSMIS(STAT(#K)))
.       BREAK
.   END IF
.   DO IF (AGESTT(#K) GT -999 AND AGESTT(#K) LE 528 AND AGEEND(#K) GE
1) .
.       COMPUTE #AGEST=AGESTT(#K)
.       IF (#AGEST LT 1) #AGEST=1
.       COMPUTE #AGEEN=AGEEND(#K)
.       IF (#AGEEN GT 528) #AGEEN=528
.       DO IF (#AGEEN GE #AGEST)
.           LOOP #L=#AGEST TO #AGEEN
.               COMPUTE MSTAT(#L)=STAT(#K)
.           END LOOP
.       END IF
.   END IF
END LOOP
EXECUTE
SAVE OUTFILE=LIFECAL.SYS
```

As indicated in section III above, the lifetime employment status history (BLIFEMST) and the lifetime job history (CLIFEJOB) were collected at separate waves, but relate to approximately the same time period. Some linkage can be achieved by using the variable CLJESFN, which should correspond to a value of BLESHNO for the same time period. However some histories have the value zero for this variable, indicating that the respondent was not able to link the job to the information from the previous wave which was fed forward. In addition, there are some discrepancies in dating even where an apparent match exists. The Research Centre intends to release as soon as possible, a special purpose combined file, also including information from the panel records.

Appendix 2. Notes on Derived Variables

Below are notes pertaining to the nature and function of the derived variables which exist in the BHPS database. The exact means of derivation can be found in the procedure files contained within the SIR database. These files are named M1DV for Wave One derived variables, M2DV for Wave Two, M3DV for Wave Three and so on, and MXDV for the cross wave records. If you receive the data in a format other than SIR and would like to study these derivations, a printout of selected procedures can be supplied.

Derived variables are listed according to Record Types, and then alphabetically within these Records. Generic Variable Names are presented (that is, without the wave-specific initial letter). Users should therefore be aware that not all variables appear in all waves. Neither, it should be noted, do all Record Types appear at all waves. Refer to the Cross-Wave Continuity Index for wave occurrence of individual variables.

Keys to conventions employed in descriptions below:

w = initial letter of all Record and Variable Names, which replaces the wave-specific initial letter (e.g. A = Wave One, B = Wave Two, and so on)

Derived variables sometimes use data taken from earlier, and in some cases, later waves. This is indicated by:

w-1 = indicates the year prior to the wave under investigation:

w+1 = indicates the year following the wave under investigation

LY = indicates the period 12 months prior to the start of fieldwork (e.g. 1 September 1990 or 1 September 1990 - 31 August 1991 for Wave One)

TY = indicates the present period, beginning at the 1 September on which fieldwork begins for a specific wave (e.g. 1 September 1991 for Wave One, 1 September 1992 for Wave Two, etc.)

Variable names are, in part, mnemonic. See *Section III* earlier in this Volume for a table listing some of the conventions employed.

2.1. RECORD TYPE wHHSAMP

wFID Fieldwork household identifier. This is a string variable and should be treated accordingly in analysis.

wHHMOVE Household Mover Indicator. This indicates whether expected Original Sample Members have moved household since earlier wave. Coding as a non-mover household implies that all OSM's who are resident there at Wave w were also resident at the same address at Wave w-1. New entrants may however have moved in. Conversely, coding as a mover household implies that all the OSMs are at a new address. New entrants to the sample may have been resident at the address at the time of the previous wave. Uses wIVNADD wIVIA wIVFHO on Record wHHSAMP.

wHHWGHT See section on Weighting earlier in this manual for a description of the derivation of weights. This weight should be used for any analysis at the household level. (cf wXRWGHT on Record wINDRESP and wXEWGHT on Record wINDALL)

- wLADISTC** The local authority districts are aggregated if their population falls below 120,000. This aggregation is on the same basis as that for the Census Sample of Anonymised Records individual sample, and the codes used are the same as those given in Marsh, C. & Teague, A. 'Samples of anonymised records from the 1991 Census', *Population Trends*, 69, 17-26, 1992.
Internally computed from confidential information on Survey Database.
- wREGION** Standard Region, distinguishing former Metropolitan Counties, and Inner and Outer London.
Internally computed from confidential information on Survey Database.
- wSTRATA** This indicator distinguishes separate stratification classes used in the sampling procedure. (See Section on Sampling earlier in this manual)
- wXHWGHT** See section on Weighting earlier in this manual. for a description of the derivation of weights. This weight should be used for any analysis at the household level. (cf wXRWGHT on Record wINDRESP and wXEWGHT on Record wINDALL)

2.2. RECORD TYPE wINDSAMP

- wMOVEST** Individual Mover Status. Indicates whether sample members have moved location since last Wave. Its is intended to enable measures of household composition change to be computed.
Uses wFINLOC wIVFIO PID wSAMPST wLVLOC on Record wINDSAMP. Uses wHHMOVE wIVFHO on Record wHHSAMP.
- wSAMPST** Sample Membership Status. This variable distinguishes between Original Sample members, new Permanent Sample members and Temporary Sample members. See Section on Sampling earlier in this manual for a discussion of these terms.
Uses wFINLOC wIVFIO PID on Record wINDSAMP. Uses MSTAT YOSM on Record XWLSTEN.
- wLEWGHT** Longitudinal Enumerated Individual Weight. See section on Weighting earlier in this manual.
- wLRWGHT** Longitudinal Respondent Weight. See section on Weighting earlier in this manual.

2.3. RECORD TYPE wINDALL

- wAGE** Internally computed from confidential information on Survey Database and date of interview variables wDOID wDOIM on Record wINDRESP. Includes imputed data. The imputation flag variable wAGEI (on Record Type wINDALL), as an individual level derived variables, takes the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
- wAGE12** Two age variables are computed. The age at date of interview is used for most purposes internal to a wave, e.g. computation of household characteristics. The age at 1.12.9TY is intended to ensure consistency in cross-wave comparison. 1st December is also the criterion date for determining whether those close to 16 should be interviewed. Includes imputed data, see entry for wAGE.
Internally computed from confidential information on Survey Database
- wAGEI** Imputation flag for wAGE and wAGE12 both in Record type wINDALL and Record type wINDRESP. See section on Imputation earlier in this manual for more details on imputation.

wBUNO	<p>This distinguishes the separate benefit unit to which an individual belongs. Benefit units (see also wBUTYPE) are subsets of households, consisting of single individuals or couples, and their dependent children, if any. The value of wBUNO is the person number of the first member of that benefit unit in sequential order of person numbers. wBUNO is missing if there are missing data on input variables, and the benefit unit cannot be inferred.</p> <p>Uses wPNO wHGSPN wHGFNO wHGMNO wHGRA wAGE wHGEST wDEPCHL wHGR2R on Record wINDALL. Uses wHHSIZE on Record wHHRESP. Uses wREL wOPNO on Record wEGOALT.</p>
wBUTYPE	<p>This identifies the type of benefit unit to which an individual belongs. Benefit units (see also wBUNO) are subsets of households, consisting of single individuals or couples, and their dependent children, if any.</p> <p>Uses wHGSEX wMASTAT wAGE wHGEST wHGSPN wHGFNO wHGMNO wBUNO on Record wINDALL.</p>
wDEPCHL	<p>A dependent child is defined as one aged under 16 or aged 16-18 and in school or non-advanced further education, not married and living with parent. If an individual aged 16-18 and in full time education did not receive an interview (to determine their educational status), they were assumed to be dependent children.</p> <p>Uses wAGE wHGMNO wHGFNO wMASTAT wHGEST wVFIOW on Record wINDALL. Uses wSCHOOL wFETYPE on Record wINDRESP.</p>
wHOH	<p>This variable is an indicator of the head of household as defined, for example by the GHS, i.e. the principal owner or renter of the property, and (where there is more than one), the male taking precedence, and (where there is more than one potential HOH of the same sex), the eldest taking precedence. The BHPS household reference person definition is similar except that only the age criterion is used to distinguish multiple potential Household Reference Person(s). In the calculation, where any potential information is missing, the HRP definition takes precedence.</p> <p>Uses wHSOWND wHSOWR1 wHSOWR2 wRENTP1 wRENTP2 on Record wHHRESP. Uses wAGE wHGSEX on Record wINDALL.</p>
wNCHILD	<p>This includes natural children, adopted children and step children, under the age of 16.</p> <p>Uses wPNO wHGSEX wAGE on Record wINDALL. Uses wOPNO wREL on Record wEGOALT.</p>
wRACH16	<p>Whether responsible adult for child under 16. This is copied from Record wINDRESP if full interview, or computed from wHGRA otherwise. This variable is inapplicable for children.</p> <p>Uses wAGE wHGRA wVFIOW on Record wINDALL.</p>
wXEWGHT	<p>Individual weight for any analysis involving enumerated individuals, as distinct from full respondent individuals. See section on Weighting earlier in this manual.</p>
wXRWGHT	<p>Cross-sectional Respondent Weight. See section on Weighting earlier in this manual.</p>
wLEWGHT	<p>Longitudinal Enumerated Individual Weight. See section on Weighting earlier in this manual.</p>
wLRWGHT	<p>Longitudinal Respondent Weight. See section on Weighting earlier in this manual.</p>

2.4. RECORD TYPE wHHRESP

wAGECHY	<p>The age of the youngest child in the household (wAGECHY) is computed as the minimum age of children under 16. Households without children are coded as inapplicable. Households containing one or more children with missing ages are coded as missing.</p> <p>Uses wAGE on Record wINDALL.</p>
----------------	--

wFIEQFCA wFIEQFCA contains a conversion factor to allow for the effects of household size and composition on needs in making income comparisons. The equivalence scale used in this variable is the McClements scale, as used in publications such as 'Households Below Average Income' (Department of Social Security, 1992). wFIEQFCA is based on the scale to be used with income **after** housing costs are deducted. (See McClements Equivalence Scales Table 29).

wFIEQFCB wFIEQFCB contains a conversion factor to allow for the effects of household size and composition on needs in making income comparisons. The equivalence scale used in this variable is the McClements scale, as used in publications such as 'Households Below Average Income' (Department of Social Security, 1992). wFIEQFCB is based on the scale to be used with income **before** housing costs are deducted. (see Table 29) Uses wHGR2R wAGE wDEPCHL on Record wINDALL.

Table 29 McClements Equivalence Scales

	Before housing costs	After housing costs
Head	0.61	0.55
Spouse	0.39	0.45
Other second adult	0.46	0.45
Third adult	0.42	0.45
Further adult	0.36	0.40
Dependent child aged:		
0-1	0.09	0.07
2-4	0.18	0.18
5-7	0.21	0.21
8-10	0.23	0.23
11-12	0.25	0.26
13-15	0.27	0.28
16+	0.36	0.38

wFIHHMB This sums the values of benefit income in the month before interview for individuals in the household. Includes imputed data. The imputation flag variable wFIHHMBI takes a value 0 if there was no imputation, 1 if some component of an individual h/hold members income was imputed, and 2 if the whole income of one or more h/hold members was imputed. See section on Imputation earlier in this manual. Uses wIVFHO from Record wHHSAMP. Uses wFIMNB wIVFIO from Record wINDRESP.

wFIHHMBI Imputation flag. See notes above for variable wFIHHMB.

wFIHHMI	This sums the values of investment income in the month before interview for individuals in the household. Includes imputed data. The imputation flag variable wFIHHMII takes a value 0 if there was no imputation, 1 if some component of an individual h/hold members income was imputed, and 2 if the whole income of one or more h/hold members was imputed. See section on Imputation earlier in this manual. Uses wIVFHO from Record wHHSAMP. Uses wFIMNI wIVFIO from Record WINDRESP.
wFIHHMII	Imputation flag. See notes above for variable wFIHHMI.
wFIHHML	This sums the values of labour income in the month before interview for individuals in the household. Includes imputed data. The imputation flag variable wFIHHMLI takes a value 0 if there was no imputation, 1 if some component of an individual h/hold members income was imputed, and 2 if the whole income of one or more h/hold members was imputed. See section on Imputation earlier in this manual. Uses wIVFHO from Record wHHSAMP. Uses wFIMNL wIVFIO from Record WINDRESP.
wFIHHMLI	Imputation flag. See notes above for variable wFIHHML.
wFIHHMN	This variable sums the values of total income in the month before interview for individuals in the household. Includes imputed data. The imputation flag variable wFIHHMNI takes a value 0 if there was no imputation, 1 if some component of an individual h/hold members income was imputed, and 2 if the whole income of one or more h/hold members was imputed. See section on Imputation earlier in this manual. Uses wIVFHO on Record wHHSAMP. Uses wFIMN wIVFIO on Record WINDRESP.
wFIHHMNI	Imputation flag. See notes above for variable wFIHHMN.
wFIHHMNL	This sums the values of non-labour income in the month before interview for individuals in the household. Includes imputed data. The imputation flag variable wFIHMNLI takes a value 0 if there was no imputation, 1 if some component of an individual h/hold members income was imputed, and 2 if the whole income of one or more h/hold members was imputed. See section on Imputation earlier in this manual. Uses wIVFHO from Record wHHSAMP. Uses wFIMNNL wIVFIO from Record WINDRESP.
wFIHHMP	This sums the values of pension income in the month before interview for individuals in the household. Includes imputed data. The imputation flag variable wFIHHMPI takes a value 0 if there was no imputation, 1 if some component of an individual h/hold members income was imputed, and 2 if the whole income of one or more h/hold members was imputed. See section on Imputation earlier in this manual. Uses wIVFHO from Record wHHSAMP. Uses wFIMNP wIVFIO from Record WINDRESP.
wFIHHMPI	Imputation flag. See notes above for variable wFIHHMP.
wFIHHMT	This sums the values of pension income in the month before interview for individuals in the household. Includes imputed data. The imputation flag variable wFIHHMTI takes a value 0 if there was no imputation, 1 if some component of an individual h/hold members income was imputed, and 2 if the whole income of one or more h/hold members was imputed. See section on Imputation earlier in this manual. Uses wIVFHO from Record wHHSAMP. Uses wFIMNT wIVFIO from Record WINDRESP.
wFIHHMTI	Imputation flag. See notes above for variable wFIHHMT.

wFIHHYB	This variable sums the values of annual benefit income in the reference year, that is the twelve months prior to the start of the interview period (1st Sept.) for individuals in the household. Includes imputed data. The imputation flag variable wFIHHYBI takes a value 0 if there was no imputation, 1 if some component of an individual household members income was imputed, and 2 if the whole income of one or more household members was imputed. See section on Imputation earlier in this manual . Uses wVFO on Record wHHSAMP. Uses wFIYRB wVFO on Record wINDRESP.
wFIHHYBI	Imputation flag. See notes above for variable wFIHHYB.
wFIHHYI	This variable sums the values of annual investment income in the reference year, that is the twelve months prior to the start of the interview period (1st Sept.) for individuals in the household. The imputation flag variable wFIHHYII takes a value 0 if there was no imputation, 1 if some component of an individual household members income was imputed, and 2 if the whole income of one or more household members was imputed. See section on Imputation earlier in this manual . Uses wVFO on Record wHHSAMP. Uses wFIYRI wVFO on Record wINDRESP.
wFIHHYII	Imputation flag. See notes above for variable wFIHHYI.
wFIHHYL	This variable sums the values of annual labour income in the reference year, that is the twelve months prior to the start of the interview period (1st Sept.) for individuals in the household. Includes imputed data. The imputation flag variable wFIHHYLI takes a value 0 if there was no imputation, 1 if some component of an individual household members income was imputed, and 2 if the whole income of one or more household members was imputed. See section on Imputation earlier in this manual . Uses wVFO on Record wHHSAMP. Uses wFIYRL wVFO on Record wINDRESP.
wFIHHYLI	Imputation flag. See notes above for variable wFIHHYL.
wFIHHYNI	Imputation flag. See notes above for variable wFIHHYNI.
wFIHHYNL	This variable sums the values of annual non-labour income in the reference year, that is the twelve months prior to the start of the interview period (1st Sept.) for individuals in the household. Includes imputed data. The imputation flag variable wFIHHYNI takes a value 0 if there was no imputation, 1 if some component of an individual household members income was imputed, and 2 if the whole income of one or more household members was imputed. See section on Imputation earlier in this manual . Uses wVFO on Record wHHSAMP. Uses wFIYRNL wVFO on Record wINDRESP.
wFIHHYP	This variable sums the values of annual pension income in the reference year, that is the twelve months prior to the start of the interview period (1st Sept.) for individuals in the household. Includes imputed data. The imputation flag variable wFIHHYPI takes a value 0 if there was no imputation, 1 if some component of an individual household members income was imputed, and 2 if the whole income of one or more household members was imputed. See section on Imputation earlier in this manual . Uses wVFO on Record wHHSAMP. Uses wFIYRP wVFO on Record wINDRESP.
wFIHHYPI	Imputation flag. See notes above for variable wFIHHYP.
wFIHHYR	This variable sums the values of annual total income in the reference year, that is the twelve months prior to the start of the interview period (1st Sept.) for individuals in the household. Includes imputed data. The imputation flag variable wFIHHYRI takes a value 0 if there was no imputation, 1 if some component of an individual h/hold members income was imputed, and 2 if the whole income of one or more h/hold members was imputed. See section on Imputation earlier in this manual . Uses wVFO on Record wHHSAMP. Uses wFIYR wVFO on Record wINDRESP.
wFIHHYRI	Imputation flag. See notes above for variable wFIHHYR.

wFIHHYT	This variable sums the values of annual transfer income in the reference year, that is the twelve months prior to the start of the interview period (1st Sept.) for individuals in the household. The imputation flag variable wFIHHYTI takes a value 0 if there was no imputation, 1 if some component of an individual household members income was imputed, and 2 if the whole income of one or more household members was imputed. See section on Imputation earlier in this manual Uses wVFO on Record wHHSAMP. Uses wFIYRT wVFO on Record wNDRESP.
wFIHHYTI	Imputation flag. See notes above for variable wFIHHYT.
wFIHMNLI	Imputation flag. See notes above for variable wFIHMNL.
wHHDC	Indicates those households for which there was no completed household level questionnaire.
wHHSIZE	Calculated by summing the number of individuals per household.
wHHTYPE	This classification, closely related to that used in GHS published data, relates to size of household, whether there is a married couple present, and whether there are dependent children. For the purposes of this classification, married and cohabiting couples are treated as equivalent, and dependent children include those up to the age of 18, if they are still in (non-advanced) full time education. The elderly are defined as those over pensionable age (60 for women and 65 for men). Couple and lone parent households may contain other individuals who were not family members. Uses wHHSIZE wNKIDS wNCH1618 wNCOUPLE wNONEPAR on Record wHRESP. Uses wAGE wHGSEX wMASTAT wHGSPN wHGFNO wHGMNO wDEPCHL on Record wNDALL.
AHHWGHT	See entry in Record type wHHSAMP
wHLGHQ1	This measure converts valid answers to questions wGHQA to wGHQL to a single scale by recoding so that the scale for individual variables runs from 0 to 3 instead of 1 to 4, and then summing, giving a scale running from 0 (the least distressed) to 36 (the most distressed). See Cox, B.D <i>et al</i> , <i>The Health and Lifestyle Survey</i> . (London: Health Promotion Research Trust, 1987).
wHLGHQ2	This measure converts valid answers to questions wGHQA to wGHQL to a single scale by recoding 1 and 2 values on individual variables to 0, and 3 and 4 values to 1, and then summing, giving a scale running from 0 (the least distressed) to 12 (the most distressed). Reference as above.
wHSVALI	Imputation flag for wHSVAL. See note for wMGNEWI.
wLADISTC	See entry in Record type wHHSAMP
wMGNEWI	Imputation flag for wMGNEW. For variables directly associated with a question, the imputation flag takes the missing value code of the original variable (e.g. Don't know, refuse, etc.) if imputed, and 0 if not imputed, or -8 if the variable was inapplicable. See section on Imputation earlier in this manual .
wNA75PL	This variable is missing if any elderly person has a missing age. Uses wAGE on Record wNDALL.
wNCH02	This variable is missing if any child in the household has a missing age.
wNCH1215	This variable is missing if any child in the household has a missing age. Uses wAGE on Record wNDALL.

wNCH1618	This measures the number of dependent children in the household aged 16 and over. Dependent children are defined as those unmarried, aged under 19, and in school or non-advanced further education. The sum of this variable and wNKIDS gives the total number of dependent children in the household. This variable is missing if any person in the household has a missing age, or if a child in the age range has a missing employment status. Uses wAGE wDEPCHL on Record wINDALL. Uses wAGE on Record wINDALL.
wNCH34	This variable is missing if any child in the household has a missing age. Uses wAGE on Record wINDALL.
wNCH511	This variable is missing if any child in the household has a missing age. Uses wAGE on Record wINDALL.
wNCOUPLE	Number of couples (married or cohabiting) in household. This is based on de facto marital status, and does not include couples where one partner is non-resident. Uses wMASTAT wHGSPN on Record wINDALL.
wNEMP	Number of employed persons in household - derived from AHGEST at Wave One. Uses wHGEMP on Record wINDALL.
wNKIDS	This is the total number of children in the household aged under 16. This total may differ from the total of wNCH02+wNCH34+wNCH511+wNCH1215 as it includes children whose age is missing. Uses wAGE on Record wINDALL.
wNONEPAR	This counts the number of single parents with dependent children in the household, where a dependent child is defined as in wDEPCHL. Uses wAGE wHGFNO wHG MNO wHG RA wRACH16 wHGSPN wDEPCHL on Record wINDALL.
wNPENS	Number in household of pensionable age, i.e. 60 and over for women, and 65 and over for men. Uses wAGE wHGSEX on Record wINDALL.
wNUE	Number of unemployed persons in household - derived from wHGEST.
wNWAGE	Number of women aged 16-59 and men aged 16-64. Uses wAGE wHGSEX on Record wINDALL.
wNWED	Includes married and cohabiting, based on status within household, rather than legal status. Uses wMASTAT on Record wINDALL.
wPHONE	This uses the telephone verification question to check the presence of a telephone in the household. A telephone is assumed to be present if a number was given, or was refused.
wREGION	See entry in Record type wHHSAMP
wRENTGI	Imputation flag for wRENTG. See note above for wMGNEWI.
wRENTI	Imputation flag for wRENT. See note above for wMGNEWI.
wTENURE	Uses wMGHAVE wRENTLL wRENTF wHSOWND on Record wHHRESP.
wXPFUEL	Monthly fuel expenditure on oil, gas, electricity. Uses wXPGAS wXPLEC wXPOIL on Record wHHRESP.

wXPGAS	Monthly expenditure on gas, computed from wXPGASL or wXPGASLW, depending on the means of payment. Uses wHEATYP wGASUSE wGASWAY wXPGASL wXPGASW wXPGASLW on Record wHHRESP.
wXPHSG	This measures gross monthly mortgage or rent costs. In the case of renters who receive housing benefit, either partial or complete, this variable includes the rent before the rebate. This variable is zero for houses rent free or owned outright. Includes imputed data. For housing related derived variables the imputation flag wXPHSGI takes the value 1 if the variable was imputed, and 0 or -8 otherwise. Uses wHSOWND wRENTHB wRENTG wRENTGW wRENT wRENTW wMGHAVE wXPMG on Record wHHRESP.
wXPHSGI	Imputation flag. See notes above for variable wXPHSG.
wXPHSN	This measures net monthly mortgage or rent costs. In the case of renters who receive housing benefit, either partial or complete, this variable includes the rent after the rebate. This variable is zero for houses rent free or owned outright. Includes imputed data. For housing related derived variables the imputation flag (here AXPHSNI) takes the value 1 if the variable was imputed, and 0 or -8 otherwise. Uses wHSOWND wRENTHB wRENTG wRENTGW wRENT wRENTW wMGHAVE wXPMG on Record wHHRESP.
wXPHSNI	Imputation flag. See notes above for variable wXPHSN.
wXPLEC	Monthly expenditure on electricity, computed from wXPLECL or wXPLECLW, depending on the means of payment. Uses wLECWAY wXPLECL wXPLECW wXPLECLW on Record wHHRESP.
wXPMGI	Imputation flag for wXPMG. See note above for wMGNEWI.
wXPOIL	Monthly expenditure on heating oil, computed from estimated annual expenditure (wXPOILY). Uses wHEATYP wXPOILY on Record wHHRESP.

2.5. RECORD TYPE wINDRESP

wAGE	Copied variable. See entry in wINDALL.
wAGE12	Copied variable. See entry in wINDALL.
wBUNO	Copied variable. See entry in wINDALL.
wBUTYPE	Copied variable. See entry in wINDALL.
wCJSTEN	This measures the length of time in the current labour market spell, whether, employee, self employed or not employed in number of days. Where day is missing, this is assumed to be one. For years before 199LY, where month is missing, this is assumed to be July. Uses wJBHAS wJBOFF wJBBGD wJBBGM wJBBGY wJBSEMP wJSBGD wJSBGM wJSBGY wCJSBGD wCJSBGM wCJSBGY wDOID wDOIM on Record wINDRESP
wCJSWK9	This variable measures the number of weeks in the current labour market spell which fell into the reference year (1.9.9LY -31.8.9TY). The measure is exact (i.e. number of days divided by seven). Uses wJBHAS wJBOFF wJBSEMP wJBSTAT wJBBGD wJBBGM wJBBGY wJSBGD wJSBGM wJSBGY wCJSBGD wCJSBGM wCJSBGY wCJSBLY wJLYID wJTYID on Record wINDRESP.

wEDGEN	<p>This variable measures the number of days in the year to 1.9.9TY spent in general training (i.e. training not related to a particular job). It is based on the variables wJBED, etc, and wEDNEW, etc. Codes at wJBED4-5 and wEDNEW3-4 are taken to indicate general training. Days associated with such training purposes are allocated to this variable. If specific purposes are also identified, then the days are partitioned between the two types.</p> <p>Uses wJBHAS wJBSEMP wJBED wJBED1 wJBED2 wJBED3 wJBED4 wJBED5 wJBEDD wEDNEW wEDNEW1 wEDNEW2 wEDNEW3 wEDNEW4 wEDNEWD on Record wINDRESP</p>
wEDSPEC	<p>This variable measures the number of days in the year to 1.9.9TY spent in specific training (i.e. training related to a particular job). It is based on the variables wJBED, etc, and wEDNEW, etc. Codes at wJBED1-3 and wEDNEW1-2 are taken to indicate general training. Days associated with such training purposes are allocated to this variable. If specific purposes are also identified, then the days are partitioned between the two types.</p> <p>Uses wJBHAS wJBSEMP wJBED wJBED1 wJBED2 wJBED3 wJBED4 wJBED5 wJBEDD wEDNEW wEDNEW1 wEDNEW2 wEDNEW3 wEDNEW4 wEDNEWD on Record wINDRESP.</p>
wFIHHMNI	<p>Imputation flag for wFIHHMN taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.</p>
wFIMN	<p>This variable is the sum of wFIMNL (non-labour income), and labour income, taken from wPAYGU, wJSPROF, wJSPAYG as appropriate. Income from second jobs is also added if non- missing. For proxy cases estimated total personal income (APRFITB) is used, taking the mid point of each band (£3300 pcm for the highest band). Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIMNTHI takes the value 1 if imputed, and 0 or -8 otherwise.</p> <p>Uses wFIMNL wPAYGU wJBSEMP wJSACCS wJSPROF wJSPAYG wJ2PAY wPRFITB on Record wINDRESP.</p>
wFIMNB	<p>This variable totals all receipts from state benefits (including NI retirement pension), recieved in the month before interview. It is constructed by summing the amount received converted to a monthly basis, for all wINCOME Records where the wFICODE takes the values 1,5,6,16 to 22, or 31 to 41, and where the amount is currently being received. Jointly received payments are treated as described in the documentation to wFIM09L on Record wINCOME. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIMNBI takes the value 1 if imputed, and 0 or -8 otherwise.</p> <p>Uses wNF1 on Record wINDRESP. Uses wFICODE wFRVAL wFRW wFRNOW wFRJT on Record wINDRESP.</p>
wFIMNBI	<p>Imputation flag for wFIMNB taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.</p>
wFIMNI	<p>This variable totals the estimated income from savings and investments, and receipts from rented property, recieved in the month before interview. Income from investments is only collected as a banded variable, and the monthly value is estimated as follows: if wFIYRDI = 2, then income is £5, if wFIYRDI = 3 then income is £50, and if wFIYRDI = 4 then income is £150. Rent income calculated by summing the amount received, converted to a monthly basis, for all wINCOME Records where the wFICODE takes the values 55 or 56, and where the amount is currently being received. Jointly received payments are treated as described in the documentation to wFIM09L on Record wINCOME. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIMNII takes the value 1 if imputed, and 0 or -8 otherwise.</p> <p>Uses wNF1 wFIYRDI on Record wINDRESP. Uses wFICODE wFRVAL wFRW wFRNOW wFRJT on Record wINDRESP.</p>
wFIMNII	<p>Imputation flag for wFIMNI taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.</p>

wFIMNL	Labour Income in month before interview. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIMNLI takes the value 1 if imputed, and 0 or -8 otherwise. Uses wJ2PAY wPAYGU wJBSEMP wJSACCS wJSPROF wJSPAYG wPRFITB wVFIOW from Record wINDRESP
wFIMNLI	Imputation flag for wFIMNL taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wFIMNNL	This variable sums the values of wFIMNP wFIMNB wFIMNT and wFIMNI. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIMNLI takes the value 1 if imputed, and 0 or -8 otherwise. Uses wFIMNP wFIMNB wFIMNT wFIMNI on Record wINDRESP.
wFIMNLI	Imputation flag for wFIMNNL taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wFIMNP	This variable totals all receipts from non-state pension sources, received in the month before interview. It is constructed by summing the amount received, converted to a monthly basis, for all wINCOME Records where the wFICODE takes the values 2, 3 or 4, and where the amount is currently being received. Jointly received payments are treated as described in the documentation to wFIM09L on Record wINCOME. wFIMNP is missing if the variable wNF1 is coded 'Refused'. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIMNPI takes the value 1 if imputed, and 0 or -8 otherwise. Uses wNF1 on Record wINDRESP. Uses wFICODE wFRVAL wFRW wFRNOW wFRJT on Record wINDRESP.
wFIMNPI	Imputation flag for wFIMNP taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wFIMNT	This variable totals all receipts from other transfers, (including education grants, sickness insurance, maintenance, foster allowance and payments from TU/Friendly societies, from absent family members), received in the month before interview. It is constructed by summing the amount received, converted to a monthly basis, for all wINCOME Records where wFICODE takes the values 51, 52, 53, 54, 57, 58 or 59, and where the amount is currently being received. Jointly received payments are treated as described in the documentation to wFIM090 on Record wINCOME. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIMNTI takes the value 1 if imputed, and 0 or -8 otherwise. Uses wNF1 on Record wINDRESP. Uses wFICODE wFRVAL wFRW wFRNOW wFRJT on Record wINDRESP.
wFIMNTHI	Imputation flag for wFIMN taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wFIMNTI	Imputation flag for wFIMNT taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wFIYEARI	Imputation flag for wFIYR taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wFIYR	Includes imputed data. As this is an individual level derived variable, the imputation flag variable takes the value 1 if imputed, and 0 or -8 otherwise. Uses wFIYRL wFIYRNL on Record wINDRESP.

- wFIYRB** This variable totals all receipts from state benefits (including NI retirement pensions), received in the months from 1st. September in the year prior to the interview until 31st August in the year in which interviewing begins. It is constructed by summing the estimated amounts received, (in the variables wFIM09L-wFIM08T), for all wINCOME records where wFICODE takes the values 1,5,6,16 to 22, or 31 to 41. Jointly received payments are treated as described in the documentation to wFIM09L on record wINCOME. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIYRBI takes the value 1 if imputed, and 0 or -8 otherwise. Uses wNF1 on Record wINDRESP. Uses wFICODE wFIM09L wFIM10L wFIM11L wFIM12L wFIM01T wFIM02T wFIM03T wFIM04T wFIM05T wFIM06T wFIM07T wFIM08T on Record wINCOME.
- wFIYRBI** Imputation flag for wFIYRB taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
- wFIYRDI** Imputation flag for wFIYRDI taking the missing value code of the original variable (e.g. Don't know, refuse, etc.) if imputed, and 0 if not imputed, or -8 if the variable was inapplicable.
- wFIYRI** This variable totals the estimated income from savings and investments, and all receipts from rent from property or boarders and lodgers, received in the months from September in the year prior to the interview until August in the year in which interviewing begins. Income from investments is only collected as a banded variable, and the annual value is estimated as follows: if wFIYRDI = 2, then income is £60, if wFIYRDI = 3 then income is £600, and if wFIYRDI = 4 then income is £1800. Rent income is constructed by summing the estimated amounts received, (in the variables wFIM090-wFIM081), for all wINCOME Records where wFICODE takes the values 55 or 56. Jointly received payments are treated as described in the documentation to wFIM090 on Record wINCOME. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIYRII takes the value 1 if imputed, and 0 or -8 otherwise. Uses wNF1 wFIYRDI on Record wINDRESP. Uses wFICODE wFIM09L wFIM10L wFIM11L wFIM12L wFIM01T wFIM02T wFIM03T wFIM04T wFIM05T wFIM06T wFIM07T wFIM08T on Record wINCOME.
- wFIYRII** Imputation flag for wFIYRI taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
- wFIYRL** This variable computes annual labour income in the reference year from September in the year prior to the interview until September in the year in which interviewing begins. There are three basic components: 1) Pay from current job where this started before 1.9.9LY. This is calculated as the mean of monthly gross pay at 1.9.9TY (wPAYGTY) and monthly gross pay at 1.9.9LY (wPAYGLY), multiplied by 12. **or** 2) Pay from current job where this started after 1.9.9LY but before 1.9.9TY. This is calculated as the mean of monthly gross pay at 1.9.9TY (wPAYGTY) and gross monthly starting pay in current job (calculated here) multiplied by the number of elapsed weeks in current job in reference year (wCJSWK9) divided by 4.33. **and/or** 3) Pay from previous jobs, calculated as the sum over all jobs of monthly gross pay (wJHGPAY) times elapsed weeks in reference year (wJHSPW), divided by 4.33. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIYRLI takes the value 1 if imputed, and 0 or -8 otherwise. Uses wJBHAS wJBOFF wCJSBLY wCJSWK9 wJTYID wJLYID wNJBWKS wPAYGU wPAYGTY wPAYGLY wPAYS wPAYSW wPAYSG on Record wINDRESP. Uses wJHSTAT wJHGPAY wJHSPW on Record wJOBHIST
- wFIYRLI** Imputation flag for wFIYRL taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.

wFIYRNL	This variables is the sum of wFIYRP, wFIYRB, wFIYRT and wFIYRI. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIYRNLI takes the value 1 if imputed, and 0 or -8 otherwise. Uses wFIYRP wFIYRB wFIYRT wFIYRI on Record wINDRESP.
wFIYRNLI	Imputation flag for wFIYRNL taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wFIYRP	This variable totals all receipts from non-state pension sources, received in the months from September 199LY to August 199TY. It is constructed by summing the estimated amounts received, (in the variables wFIM09L-wFIM08T), for all wINCOME Records where wFICODE takes the values 2,3 or 4. Jointly received payments are treated as described in the documentation to wFIM09L on Record wINCOME. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIYRPI takes the value 1 if imputed, and 0 or -8 otherwise. Uses wNF1 on Record wINDRESP. Uses wFICODE wFIM09L wFIM10L wFIM11L wFIM12L wFIM01T wFIM02T wFIM03T wFIM04T wFIM05T wFIM06T wFIM07T wFIM08T on Record wINCOME.
wFIYRPI	Imputation flag for wFIYRP taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wFIYRT	This variable totals all receipts from other transfers (including education grants, sickness insurance, maintenance, foster allowance and payments from TU/Friendly societies, from absent family members), received in the months from September 199LY to August 199TY. It is constructed by summing the estimated amounts received, (in the variables wFIM09L-wFIM08T), for all wINCOME records where wFICODE takes the values 51,52,53,54, 57,58,59. Jointly received payments are treated as described in the documentation to wFIM09L on Record wINCOME. Includes imputed data. As this is an individual level derived variable, the imputation flag variable wFIYRTI takes the value 1 if imputed, and 0 or -8 otherwise. Uses wNF1 on Record wINDRESP. Uses wFICODE wFIM09L wFIM10L wFIM11L wFIM12L wFIM01T wFIM02T wFIM03T wFIM04T wFIM05T wFIM06T wFIM07T wFIM08T on Record wINCOME.
wFIYRTI	Imputation flag for wFIYRT taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wHHSIZE	Copied variable. See entry in wHHRESP.
wHHTYPE	Copied variable. See entry in wHHRESP.
wHOH	Copied variable. See entry in wINDALL.
wINWGHT	Individual Respondent Weight. See section on Weighting earlier in this manual for a description of the derivation of weights and discussion as to their use. This weight should be used for analysis which uses only individual respondents to the full questionnaire. Proxy subjects have a will have weight of zero on this variable. (The variable wXHWGHT should be used for analyses at the household level.
wJ2PAYI	Imputation flag for wJ2PAY taking the missing value code of the original variable (e.g. Don't know, refuse, etc.) if imputed, and 0 if not imputed, or -8 if the variable was inapplicable.
wJBFT	This measure is based on total hours, i.e. including both normal and overtime hours. It is computed for both employees and the self employed. Uses wJBHAS wJBOFF wJBSEMP wJBHRS wJBOT wJSHRS on Record wINDRESP.

wJBGOLD	Computed using the CAMCON facility in CASOC. See the Section on Data collection and Fieldwork in Volume A. See also Goldthorpe, JH and Hope, K (1974) <i>The Social Grading of Occupations: A New Approach and Scale</i> , Oxford: Clarendon Press. Uses wJBSEMP wJBMNGR wJBSIZE wJSBOSS wJSSIZE wJBSOC wJBHAS wJBOFF on Record wINDRESP.
wJBRGSC	Computed using the CAMCON facility in CASOC. This computes the Registrar General's Social Class for those currently employed based on the 3 digit Standard Occupational Classification (SOC), and employment status variables. The classification is described in <i>Standard Occupational Classification, Volume 3: Social Classifications and Coding Methodology</i> (London OPCS/HMSO 1991). Uses wJBHAS wJBOFF wJBMNGR wJSBOSS wJBSOC on Record wINDRESP.
wJBSEG	Computed using the CAMCON facility in CASOC. This computes the Socio-Economic Group for those currently employed, based on the 3 digit Standard Occupational Classification (SOC), and employment status variables. The classification is described in <i>Standard Occupational Classification, Volume 3: Social Classifications and Coding Methodology</i> . (London OPCS/HMSO 1991). Uses wJBSEMP wJBMNGR wJBSIZE wJSBOSS wJSSIZE wJBSOC wJBHAS wJBOFF on Record wINDRESP
wJBSOCLY	Computed using the CAMCON facility in CASOC. Uses wJLYID wJBHAS wJBOFF wJBSOC on Record wINDRESP. Uses wJHSOC on Record wJOBHIST. For complete SOC coding frame see Appendix.
wJBSTATL	This is the equivalent to wJBSTAT, for 1.9.9LY. If wJLYID = 0, wJBSTATL = wJBSTAT; if wJLYID is greater than 0, then wJBSTATL is based on wJHSTAT for the job history spell referenced. Uses wJLYID wJBHAS wJBOFF wJBSTAT on Record wINDRESP. Uses wJSPNO wJHSTAT wJHSEMP on Record wJOBHIST.
wJBSTATT	This is the equivalent to wJBSTAT, for 1.9.9TY. If wJTYID = 0, wJBSTATT = wJBSTAT; if wJTYID is greater than 0, then wJBSTATT is based on wJHSTAT for the job history spell referenced. Uses wJTYID wJBHAS wJBOFF wJBSTAT on Record wINDRESP. Uses wJSPNO wJHSTAT on Record wJOBHIST.
wJLGOLD	Computed using the CAMCON facility in CASOC. This computes the Goldthorpe social class classification for the previous job of those who have not held a job since 1.9.9LY. See note for wJBGOLD above. Uses wJBHAD wJLSEMP wJLMNGR wJLSIZE wJLBOSS wJLSOC on Record wINDRESP
wJLID	This variable provides a means of identifying the latest job (i.e. the current job or the most recent if not currently employed). Uses wJBHAS wJBOFF wJBSTAT wCJSBLY wNJBS wJBHAD on Record wINDRESP. Uses wJSPNO wJHSTAT on Record wJOBHIST.
wJLRGSC	Computed using the CAMCON facility in CASOC. This computes Registrar General's Social Class for the previous job of those who have not held a job since 1.9.9LY. See note for wJBRGSC above. Uses wJBHAD wJLSEMP wJLMNGR wJLSIZE wJLBOSS wJLSOC on Record wINDRESP.
wJLSEG	Computed using the CAMCON facility in CASOC. This computes the Socio-Economic Group for the last job for those without a job since 1.9.9LY. See note for wJBSEG above. Uses wJBHAD wJLSEMP wJLMNGR wJLSIZE wJLBOSS wJLSOC on Record wINDRESP.

wJLYID	This variable identifies the respondent's labour market spell for 1 September 199LY (i.e. it identifies the current labour market spell if this started before 1.9.9LY, and the relevant wJOBHIST Record if not). Uses wJBSTAT wCJSBLY wCJSBGD wCJSBGM wCJSBGY wIVFIO on Record wINDRESP. Uses wJSPNO on Record wJOBHIST.
wJSPAYG	This computes a monthly self-employed gross pay variable if a self-employed respondent does not draw up profit and loss accounts. It is inapplicable for those who are not self-employed, and the self employed who draw up accounts. (cf. wJSPROF) Uses wJBSEMP wJSACCS wJSPAYL wJSPYBM wJSPYBY wJSPYEM wJSPYEY on Record wINDRESP.
wJSPAYGI	Imputation flag for wJSPAYG taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wJSPROF	This computes a monthly self-employed profit variable for self-employed respondents who draw up profit and loss accounts. It is inapplicable for those who are not self-employed, and the self employed who do not draw up accounts. (cf. wJSPAYG) Uses wJBSEMP wJSACCS wJSPAYL wJSPYBM wJSPYBY wJSPYEM wJSPYEY on Record wINDRESP.
wJSPROFI	Imputation flag for wJSPROF taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wJTYID	This variable identifies the respondent's labour market spell for 1 September 199TY (i.e. it identifies the current labour market spell if this started before 1.9.9TY, and the relevant wJOBHIST Record if not). Uses wJBHAS wJBOFF wJBSEMP wJBSTAT wJBBGD wJBBGM wJBBGY wJSBGD wJSBGM wJSBGY wCJSBGD wCJSBGM wCJSBGY wCJSBLY on Record wINDRESP. Uses wJSPNO wJHBGD wJHBGM wJHBGY wJHSTAT on Record wJOBHIST.
wLJNREC	Gives the total number of lifetime job history records from the Record Type wLIFEJOB, includes the computed record for current job. Uses wHID wPNO wLJHAD on Record wINDRESP. Uses wHID wPNO on Record wLIFEJOB.
wLJLRST	Shows status type for last job history records from the Record Type CLIFEJOB, this makes it possible to determine whether information about other jobs is to be expected in any of the panel records. Uses wHID wPNO wLJHAD wLJNREC on Record wINDRESP. Uses wHID wPNO wLJENST on Record wLIFEJOB.
wNCHILD	Copied variable. See entry in wINDALL.
wNJBNEW	This measures the number of jobs with distinct employers, (or self-employment spells) held in the reference year (1.9.9LY - 31.8.9TY). Uses wJLYID wJBHAS wJBOFF wJBSTAT wCJSWK9 on Record wINDRESP. Uses wJSPNO wJHSTAT wJHSPW on Record wJOBHIST
wNJBSP	This measures the number of separate jobs (including self-employment spells) held in the reference year (1.9.9LY - 31.8.9TY). Different jobs held with the same employer are each counted. Uses wJLYID wJBHAS wJBOFF wJBSTAT wCJSWK9 on Record wINDRESP. Uses wJSPNO wJHSTAT wJHSPW on Record wJOBHIST.
wNJBWKS	This variable measures the number of weeks of employment in the reference year (1.9.9LY - 31.8.9TY). The measure is exact (i.e. number of days divided by seven). Uses wJBHAS wJBOFF wCJSBLY wCJSWK9 wJLYID wJBSTAT on Record wINDRESP. Uses wJSPNO wJHSTAT wJHSPW on Record wJOBHIST.

wNJISP	This measures the number of separate economically inactive (i.e. not in employment or unemployed) spells in the reference year (1.9.9LY - 31.8.9TY). Uses wJLYID wJBHAS wJBOFF wJBSTAT wCJSWK9 on Record wINDRESP. Uses wJSPNO wJHSTAT wJHSPW on Record wJOBHIST.
wNJIWKS	This variable measures the number of weeks of economically inactive (i.e. not in employment or unemployed) in the reference year (1.9.9LY - 31.8.9TY). The measure is exact (i.e. number of days divided by seven). Uses wJBHAS wJBOFF wCJSBLY wCJSWK9 wJLYID wJBSTAT on Record wINDRESP. Uses wJSPNO wJHSTAT wJHSPW on Record wJOBHIST.
wNJUSP	This measures the number of separate unemployment spells in the reference year (1.9.9LY - 31.8.9TY). Uses wJLYID wJBHAS wJBOFF wJBSTAT wCJSWK9 on Record wINDRESP. Uses wJSPNO wJHSTAT wJHSPW on Record wJOBHIST.
wNJUWKS	This variable measures the number of weeks of unemployment in the reference year (1.9.9LY - 31.8.9TY). The measure is exact (i.e. number of days divided by seven). Uses wJBHAS wJBOFF wCJSBLY wCJSWK9 wJLYID wJBSTAT on Record wINDRESP. Uses wJSPNO wJHSTAT wJHSPW on Record wJOBHIST.
wNORGA	Counts number of different types of organisation R is active in, mentioned at question CORGA . Uses wORGA wORGAA wORGAB wORGAC wORGAD wORGAE wORGAF wORGAG wORGAH wORGAI wORGAJ wORGAK wORGAL wORGAM wORGAO wORGAP wORGAQ on Record wINDRESP.
wNORMG	Counts number of different types of organisation R is member of, mentioned at question CORGM. Uses wORMG wORGMA wORGMB wORGMC wORGMD wORGME wORGMF wORGMG wORGMH wORGMJ wORGMK wORGML wORGMM wORGMQ on Record wINDRESP
wPAYG	This converts employees' last wage or salary payment before tax and other deductions in current main job (wPAYGL) to a monthly amount. If gross pay was missing, but net pay was present, then gross pay is estimated from net pay, on the basis of information about marital status, partner's activity, and pension scheme membership. Uses wPAYGW wPAYGL wPAYNW wPAYNL wPAYNW wSPJB wMLSTAT wSEX wJBPENM on Record wINDRESP.
wPAYGLI	Imputation flag for wPAYGLY taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.
wPAYGLY	This measures the monthly gross payment of wage, salary or self-employment income received at 1.9.9LY. If current job spell started before this date, then for employees the answer to wPAYLY is used, converted from net to gross where necessary, and for the self-employed the current pay or profit. If the current job spell started after 1.9.9LY, then this variable is equal to the value of wJHGPAY for the job spell at this date. Uses wJBPENM wMLSTAT wSEX wJBOFF wJBHAS wJBSEMP wJSACCS wJSPROF wJSPAYG wPAYLY wPAYLYW wPAYLYG wCJSBLY wSPJB wJLYID wPAYGU on Record wINDRESP. Uses wJHSTAT wJHGPAY on Record wJOBHIST.
wPAYGTI	Imputation flag for wPAYGTY taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.

wPAYGTY	<p>This measures the monthly gross payment of wage, salary or self-employment income received at 1.9.9TY. If current job spell started before this date, then for employees wPAYGU is used, and for the self-employed the current pay or profit. If the current job spell started after 1.9.9TY, then this variable is equal to the value of wJHGPAY for the job spell at this date.</p> <p>Uses wJBHAS wJBOFF wJBSEMP wJSACCS wJSPROF wJSPAYG wJBPENM wMLSTAT wSEX wPAYGU wJTYID on Record wINDRESP. Uses wJHSTAT wJHGPAY on Record wJOBHIST.</p>
wPAYGU	<p>This measures usual monthly wage or salary payment before tax and other deductions in current main job for employees. If the last gross payment was the usual, then this is used. If last gross pay was missing, but net pay was present, and this was usual, then gross pay is estimated from net pay, on the basis of information about marital status, partner's activity, and pension scheme membership. If last payment was not the usual, then if usual payment is given gross, this is used. Otherwise, if usual payment is given net, then this is converted as above.</p> <p>Uses wJBPENM wPAYUSL wPAYG wPAYUG wPAYU wPAYUW wPAYN wMLSTAT wSEX wSPJB wJBSEMP on Record wINDRESP.</p>
wPAYGUI	<p>Imputation flag for wPAYGU taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.</p>
wPAYN	<p>This converts employees' last wage or salary payment after tax and other deductions in current main job (wPAYNL) to a monthly amount. If net pay was missing, but gross pay was present, then net pay is estimated from gross pay, on the basis of information about marital status, partner's activity, and pension scheme membership.</p> <p>Uses wPAYGW wPAYGL wPAYNW wPAYNL wPAYNW ASPJB wMLSTAT ASEX wJBPENM on Record wINDRESP.</p>
wPAYNLI	<p>Imputation flag for wPAYNLY taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.</p>
wPAYNLY	<p>This measures the monthly net payment of wage, salary or self-employment income received at 1.9.9LY. If current job spell started before this date, then for employees the answer to wPAYLY is used, converted from gross to net where necessary, and for the self-employed the current pay or profit, converted to a net amount. If the current job spell started after 1.9.9LY, then this variable is equal to the value of wJHNPAY for the job spell at this date.</p> <p>Uses wJBPENM wMLSTAT wSEX wJBOFF wJBHAS wJBSEMP wJSACCS wJSPRF wJSPRBM wJSPRBY wJSPREM wJSPAYL wJSPYBM wJSPYBY wJSPYEM wJSPYEY wPAYLY wPAYLYW wPAYLYG wCJSBLY wSPJB wJLYID wPAYNU on Record wINDRESP. Uses wJHSTAT wJHNPAY on Record wJOBHIST.</p>
wPAYNTI	<p>Imputation flag for wPAYNTY taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.</p>
wPAYNTY	<p>This measures the monthly net payment of wage, salary or self-employment income received at 1.9.9TY. If current job spell started before this date, then for employees wPAYNU is used, and for the self-employed the current pay or profit, converted to a net amount. If the current job spell started after 1.9.9TY, then this variable is equal to the value of wJHNPAY for the job spell at this date.</p> <p>Uses wJBHAS wJBOFF wJBSEMP wJSACCS wJSPROF wJSPAYG wJBPENM wMLSTAT wSEX wPAYNU wJTYID on Record wINDRESP. Uses wJHSTAT wJHNPAY on Record wJOBHIST</p>

wPAYNU This measures usual monthly wage or salary payment after tax and other deductions in current main job for employees. If the last net payment was the usual, then this is used. If last net pay was missing, but gross pay was present, and this was usual, then net pay is estimated from gross pay, on the basis of information about marital status, partner's activity, and pension scheme membership. If last payment was not the usual, then if usual payment is given net, this is used. Otherwise, if usual payment is given gross, then this is converted as above.
Uses wJBPENM wPAYUSL wPAYN wPAYG wPAYUG wPAYU wPAYUW wMLSTAT wSEX wSPJB wJBSEMP on Record wINDRESP.

wPAYNUI Imputation flag for wPAYNU taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation earlier in this manual.

wPRFITBI Imputation flag for wPRFITB taking the missing value code of the original variable (e.g. Don't know, refuse, etc.) if imputed, and 0 if not imputed, or -8 if the variable was inapplicable.

wQFACHI The definition of categories in terms of the input variables wQFA to wQFN and wQFEDA to wQFEDS is as follows, with respondents allocated to the highest category into which they fall, or into category 7 if no academic qualifications:

1. Higher Degree is held (wQFM)
2. 1st Degree (wQFL)
3. Higher National Certificate/Diploma (wQFH) or teaching qualifications (wQFJ)
4. A Levels (wQFEDJ), Scottish Higher Grades (wQFEDO), Scottish School Leaving Certificate Higher Grade (wQFEDR), Scottish Certificate of Sixth Year Studies (wQFEDP), Higher School Certificate (wQFEDH), Ordinary National Certificate/Diploma, BEC/TEC/BTEC National/General Certificate or Diploma (wQFG) or City & Guilds Certificate (Advanced/Final/Part II) (wQFE)
5. O Levels (pre 1975) (wQFEDF), O Level grades A-c (1975 or later) (wQFEDG), GCSE grades A-C (wQFEDE), CSE grade 1 (wQFEDC), Scottish O Grades (pass or bands A-C or 1-3) (wQFEDL), Scottish School Leaving Certificate Lower Grade (wQFEDQ), School Certificate or Matric (wQFEDJ), Scottish Standard Grade Level 1-3 (wQFEDN) or City & Guilds Certificate (Craft/Intermediate/Ordinary/Part I) (wQFD)
6. CSE Grades 2-5 (wQFEDB), O Level grades D-E (wQFEDH), GCSE grades D-G (wQFEDD), Scottish SCE Ordinary Grade bands D-E or 4-5 (wQFEDK) or Scottish Standard Grade levels 4-7 (wQFEDM)

The data in this variable is up-dated each year to include the most recent qualifications of new entrants and existing panel members. The variable shows the current status of the respondent and there is no need for the user to add the recently acquired qualifications to the first, or any subsequent, iteration of this variable.

Uses

wQFA	wQFB	wQFC	wQFD	wQFE	wQFF
wQFG	wQFH	wQFI	wQFJ	wQFK	wQFL
wQFM	wQFN	wQFED	wQFEDA	wQFEDB	wQFEDC
wQFEDD	wQFEDE	wQFEDF	wQFEDG	wQFEDH	wQFEDI
wQFEDJ	wQFEDK	wQFEDL	wQFEDM	wQFEDN	wQFEDO
wQFEDP	wQFEDQ	wQFEDR	wQFEDS	wQFEDHI	wQFXA
wQFXB	wQFXC	wQFXD	wQFXE	wQFXF	wQFXG
wQFXH	wQFXI	wQFXJ	wQFXK	wQFXL	wQFXM
wQFXN	wQFEDX	wQFEDXA	wQFEDXB	wQFEDXC	wQFEDXD
wQFEDXE	wQFEDXF	wQFEDXG	wQFEDXH	wQFEDXI	wQFEDXJ
wQFEDXK					

on Record wINDRESP. Uses (w-1)QFACHI on Record (w-1)INDRESP.

wQFEDHI The definition of categories is that used by the GHS. The definition of categories in terms of the input variables wQFA to wQFN and wQFEDA to wQFEDS is as follows, with respondents allocated to the highest category into which they fall, or into category 12 if no qualifications, and category 13 if no qualifications and still at school:

1. University or CNAA Higher Degree (wQFM)
2. University or CNAA First Degree (wQFL)
3. Teaching Qualifications (wQFJ)
4. City & Guilds Certificate (Full Technological/Part III) (wQFF), HNC, HND, BEC/TEC/BTEC Higher Certificate/Diploma (wQFH), University Diploma (wQFK), Any other technical, professional or higher qualifications (wQFN)
5. Nursing Qualifications (wQFI)
6. A Levels (wQFEDJ), Scottish Higher Grades (wQFEDO), Scottish School Leaving Certificate Higher Grade (wQFEDR), Scottish Certificate of Sixth Year Studies (wQFEDP), Higher School Certificate (wQFEDH), Ordinary National Certificate/Diploma, BEC/TEC/BTEC National/General Certificate or Diploma (wQFG) or City & Guilds Certificate (Advanced/Final/Part II) (wQFE)
7. O Levels (pre 1975) (wQFEDF), O Level grades A-C (1975 or later) (wQFEDG), GCSE grades A-C (wQFEDE), CSE grade 1 (wQFEDC), Scottish O Grades (pass or bands A-C or 1-3) (wQFEDL), Scottish School Leaving Certificate Lower Grade (wQFEDQ), School Certificate or Matric (wQFEDA), Scottish Standard Grade Level 1-3 (wQFEDN) or City & Guilds Certificate (Craft/Intermediate/Ordinary/Part I) (wQFD)
8. Clerical or Commercial Qualifications (wQFC)
9. CSE Grades 2-5 (wQFEDB), O Level grades D-E (wQFEDH), GCSE grades D-G (wQFEDD), Scottish SCE Ordinary Grade bands D-E or 4-5 (wQFEDK) or Scottish Standard Grade levels 4-7 (wQFEDM)
10. Recognised trade apprenticeship (wQFB)
11. Youth Training Certificate (wQFA) Any other qualifications (wQFEDS)

The data in this variable is up-dated each year to include the most recent qualifications of new entrants and existing panel members. The variable shows the current status of the respondent and there is no need for the user to add the recently acquired qualifications to the first iteration, or any subsequent, of this variable.

Uses

wSCNOW	wFENOW	wSCHOOL	wSCEND	wQFHAS	wQFA
wQFB	wQFC	wQFD	wQFE	wQFF	wQFG
wQFH	wQFI	wQFJ	wQFK	wQFL	wQFM
wQFN	wQFED	wQFEDA	wQFEDB	wQFEDC	wQFEDD
wQFEDE	wQFEDF	wQFEDG	wQFEDH	wQFEDI	wQFEDJ
wQFEDK	wQFEDL	wQFEDM	wQFEDN	wQFEDO	wQFEDP
wQFEDQ	wQFEDR	wQFEDS	wQFX	wQFXA	wQFXB
wQFXC	wQFXD	wQFXE	wQFXF	wQFXG	wQFXH
wQFXI	wQFXJ	wQFXK	wQFXL	wQFXM	wQFXN
wQFEDX	wQFEDXA	wQFEDXB	wQFEDXC	wQFEDXD	wQFEDXE
wQFEDXF	wQFEDXG	wQFEDXH	wQFEDXI	wQFEDXJ	wQFEDXK

on Record wINDRESP. Uses (w-1)QFEDHI on Record (w-1)INDRESP.

wQFVOC	<p>Coded 'Yes' if respondent has any of the following qualifications: a recognised trade apprenticeship (wQFB), a clerical or commercial qualification (wQFC), a nursing qualification (wQFI), City & Guilds Certificate (wQFD, wQFE, wQFF), Ordinary National Certificate/Diploma (wQFG), Higher National Certificate or Diploma (wQFH).</p> <p>The data in this variable is up-dated each year to include the most recent qualifications of new entrants and existing panel members. The variable shows the current status of the respondent and there is no need for the user to add the recently acquired qualifications to the first, or any subsequent, iteration of this variable.</p> <p>Uses</p> <table border="0"> <tr><td>wQFA</td><td>wQFB</td><td>wQFC</td><td>wQFD</td><td>wQFE</td><td>wQFF</td></tr> <tr><td>wQFG</td><td>wQFH</td><td>wQFI</td><td>wQFJ</td><td>wQFK</td><td>wQFL</td></tr> <tr><td>wQFM</td><td>wQFN</td><td>wQFED</td><td>wQFEDA</td><td>wQFEDB</td><td>wQFEDC</td></tr> <tr><td>wQFEDD</td><td>wQFEDE</td><td>wQFEDF</td><td>wQFEDG</td><td>wQFEDH</td><td>wQFEDI</td></tr> <tr><td>wQFEDJ</td><td>wQFEDK</td><td>wQFEDL</td><td>wQFEDM</td><td>wQFEDN</td><td>wQFEDO</td></tr> <tr><td>wQFEDP</td><td>wQFEDQ</td><td>wQFEDR</td><td>wQFEDS</td><td>wQFEDHI</td><td>wQFXA</td></tr> <tr><td>wQFXB</td><td>wQFXC</td><td>wQFXD</td><td>wQFXE</td><td>wQFXF</td><td>wQFXG</td></tr> <tr><td>wQFXH</td><td>wQFXI</td><td>wQFXJ</td><td>wQFXK</td><td>wQFXL</td><td>wQFXM</td></tr> <tr><td>wQFXN</td><td>wQFEDX</td><td>wQFEDXA</td><td>wQFEDXB</td><td>wQFEDXC</td><td>wQFEDXD</td></tr> <tr><td>wQFEDXE</td><td>wQFEDXF</td><td>wQFEDXG</td><td>wQFEDXH</td><td>wQFEDXI</td><td>wQFEDXJ</td></tr> <tr><td>wQFEDXK</td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>on Record wINDRESP. Uses (w-1)QFACHI on Record (w-1)INDRESP.</p>	wQFA	wQFB	wQFC	wQFD	wQFE	wQFF	wQFG	wQFH	wQFI	wQFJ	wQFK	wQFL	wQFM	wQFN	wQFED	wQFEDA	wQFEDB	wQFEDC	wQFEDD	wQFEDE	wQFEDF	wQFEDG	wQFEDH	wQFEDI	wQFEDJ	wQFEDK	wQFEDL	wQFEDM	wQFEDN	wQFEDO	wQFEDP	wQFEDQ	wQFEDR	wQFEDS	wQFEDHI	wQFXA	wQFXB	wQFXC	wQFXD	wQFXE	wQFXF	wQFXG	wQFXH	wQFXI	wQFXJ	wQFXK	wQFXL	wQFXM	wQFXN	wQFEDX	wQFEDXA	wQFEDXB	wQFEDXC	wQFEDXD	wQFEDXE	wQFEDXF	wQFEDXG	wQFEDXH	wQFEDXI	wQFEDXJ	wQFEDXK					
wQFA	wQFB	wQFC	wQFD	wQFE	wQFF																																																														
wQFG	wQFH	wQFI	wQFJ	wQFK	wQFL																																																														
wQFM	wQFN	wQFED	wQFEDA	wQFEDB	wQFEDC																																																														
wQFEDD	wQFEDE	wQFEDF	wQFEDG	wQFEDH	wQFEDI																																																														
wQFEDJ	wQFEDK	wQFEDL	wQFEDM	wQFEDN	wQFEDO																																																														
wQFEDP	wQFEDQ	wQFEDR	wQFEDS	wQFEDHI	wQFXA																																																														
wQFXB	wQFXC	wQFXD	wQFXE	wQFXF	wQFXG																																																														
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wQFEDXK																																																																			
wREGION	Copied variable. See entry in wINDALL.																																																																		
wSPJB	<p>Indicates if spouse of R is employed.</p> <p>Uses wHGSPN wHGEST wIVFIO on Record wINDALL. Uses wJBHAS wJBOFF on Record wINDRESP.</p>																																																																		
wSPJBHR	<p>This variable measures spouse's/partner's usual weekly hours of work excluding overtime. It is taken from wJBHRS if employee and wJSHRS if self-employed.</p> <p>Uses wJBSEMP wJBHRS wJSHRS on Record wINDRESP. Uses wHGSPN wIVFIO on Record wINDALL.</p>																																																																		
wSPJBOT	<p>This variable measures spouse's/partner's weekly overtime hours. It is only applicable where spouse is an employee.</p> <p>Uses wJBOT on Record wINDRESP. Uses wHGSPN wIVFIO on Record wINDALL.</p>																																																																		
wSPJBYR	<p>This variable measures whether spouse/partner had a job between 1.9.LY and 1.9.TY. It is taken from the value of wNJBSP.</p> <p>Uses wNJBSP on Record wINDRESP. Uses wHGSPN wIVFIO on Record wINDALL.</p>																																																																		
wSPPAYG	<p>This variable measures spouse's/partner's usual monthly gross pay, it is taken from wPAYGU, wJSPAYG or wJSPROF, depending on employment status.</p> <p>Uses wJBSEMP wPAYGU wJSACCS wJSPAYG wJSPROF on Record wINDRESP. Uses wHGSPN wIVFIO on Record wINDALL.</p>																																																																		
wSPPAYGI	<p>Imputation flag for wSPPAYG taking the value 1 if the variable was imputed, and 0 or -8 otherwise. See section on Imputation in this manual.</p>																																																																		
wSPSOC	<p>Computed using the CAMCON facility in CASOC. Uses wJBSOC on Record wINDRESP. Uses wHGSPN wIVFIO on Record wINDALL. For complete SOC coding frame see Appendix III.</p>																																																																		
wTENURE	Copied variable. See entry in wHHRESP.																																																																		
wVOTE	<p>This variable combines the information given in the variables wVOTE3 and wVOTE4.</p> <p>Uses wVOTE1 wVOTE2 wVOTE3 wVOTE4 on Record wINDRESP.</p>																																																																		

The adoption of CASOC (Computer Aided Standard Occupational Classification) has meant that we no longer needed to use our own algorithms to compute the social class variables for Goldthorpe (GOLD), Registrar General's (RGSC), or Socio-Economic Group (SEG) which are generated as a by-product of SOC coding. An added bonus is that the Hope-Goldthorpe Scale (HGS), Cambridge Scale (CSSF and CSSM) and International Standard Classification of Occupations (ISCO) coding are generated too. The following variables were derived via CASOC and the utilities within it.

on Record wINDRESP

wJBCSSF	wJBCSSM	wJBGOLD	wJBHGS	wJBISCO	wJBRGSC
wJBSEG	wJCECCSM	wJCECCSM	wJCEGOLD	wJCEHGS	wJCEISCO
wJCERGSC	wJCESEG	wJLCSSF	wJLCSSM	wJLGOLD	wJLHGS
wJLISCO	wJLRGSC	wJLSEG	wMACCSF	wMACCSM	wMAGOLD
wMAHGS	wMAISCO	wMARGSC	wMASEG	wPACCSF	wPACCSM
wPAGOLD	wPAHGS	wPAISCO	wPARGSC	wPASEG	

on Record wJOBHIST

wJHCSSF	wJHCSSM	wJHGOLD	wJHHGS	wJHISCO	wJHRGSC
wJHSEG					

on Record wLIFEJOB

wLJCSSF	wLJCSSM	wLJGOLD	wLJHGS	wLJISCO	wLJRGSC
wLJSEG					

wLRWGHT Longitudinal Respondent Weight. See section on Weighting earlier in this manual.

wLEWGHT Longitudinal Enumerated Individual Weight. See section on Weighting earlier in this manual.

wXRWGHT Cross-sectional Respondent Weight. See section on Weighting earlier in this manual.

wXEWGHT Cross-sectional Enumerated Individual Weight. See section on Weighting earlier in this manual.

2.6. RECORD TYPE wJOBHIST

wJHA9LY Whether job started after 1.9.9LY. This was a base variable at Wave One, but is computed at subsequent Waves.
Uses wJSPNO on Record wJOBHIST. Uses wJLYID on Record wINDRESP.

wJHENDD End date (day) of job history spell, computed as start date of following job spell. If spell number is 1, end date is taken as start date of current spell.
Uses wJSPNO wJHBGD wJHBGM wJHBGY on Record wJOBHIST. Uses wCJSBGD wCJSBGM wCJSBGY on Record wINDRESP.

wJHENDM End date (month) of job history spell, computed as start date of following job spell. If spell number is 1, end date is taken as start date of current spell.
Uses wJSPNO wJHBGD wJHBGM wJHBGY on Record wJOBHIST. Uses wCJSBGD wCJSBGM wCJSBGY on Record wINDRESP.

wJHENDY End date (year) of job history spell, computed as start date of following job spell. If spell number is 1, end date is taken as start date of current spell.
Uses wJSPNO wJHBGD wJHBGM wJHBGY on Record wJOBHIST; wCJSBGD wCJSBGM wCJSBGY on Record wINDRESP.

wJHSEG See notes on CASOC variables in Section wINDRESP.

wJHGOLD See notes on CASOC variables in Section wINDRESP.

wJHRGSC	See notes on CASOC variables in Section wINDRESP.
wJHSPW	This measures the number of weeks of job history spell falling in the reference year: 1 September 199LY - 31 August 199TY. This variable is used in the calculation of annual measures of duration in states and annual incomes. It is not the total spell length. The measure is exact (i.e. number of days divided by seven). Uses wJHBGD wJHBGM wJHBGY wJHENDD wJHENDM wJHENDY on Record wJOBHIST.
wJHGPAY	This measures gross monthly rate of wage, salary or self-employment income in the employment spell. It is based on the payment at the start date or at 1.9.LY, depending on which is available, converted from net to gross where necessary, based on information about sex, marital status, spouse's employment status and pension membership. The start date is used to determine the appropriate tax and National Insurance regime. Uses wSEX wMLSTAT wJBPENM wSPJB wCJSBLY on Record wINDRESP. Uses wJHA9LY wJHPAYL wJHPYLW wJHPYLG wJHPAYS wJHPYSW wJHPYSG wJHSPW wJHSTAT wJHBGD wJHBGM wJHBGY on Record wJOBHIST.
wJHNPAY	This measures net monthly rate of wage, salary or self-employment income in the employment spell. It is based on the payment at the start date or at 1.9.LY, depending on which is available, converted from gross to net where necessary, based on information about sex, marital status, spouse's employment status and pension membership. The start date is used to determine the appropriate tax and National Insurance regime. Uses wSEX wMLSTAT wJBPENM ASPJB wCJSBLY on Record wINDRESP. Uses wJHA9LY wJHPAYL wJHPYLW wJHPYLG wJHPAYS wJHPYSW wJHPYSG wJHSPW wJHSTAT wJHBGD wJHBGM wJHBGY on Record wJOBHIST.

2.7. RECORD TYPE WINCOME

wFIM01T	See variable wFIM09L
wFIM02T	See variable wFIM09L
wFIM03T	See variable wFIM09L
wFIM04T	See variable wFIM09L
wFIM05T	See variable wFIM09L
wFIM06T	See variable wFIM09L
wFIM07T	See variable wFIM09L
wFIM08T	See variable wFIM09L
wFIM09L	This variable calculates the estimated personal income from the income source referred to on the current record received in the month of September 199LY. In many cases the variable is simply the amount received converted to a monthly rate. However the following exceptions are made: Where the income is jointly received, the amount is divided by two. (The data have been edited to ensure that as far as possible all references to joint receipt are consistently recursive. However where two joint recipients gave different amounts, these have been left. In this case, at the household level, the amount given will be the mean value.)

For state benefits received in April 1991 and after, it is assumed that the amount given as received is at the new rate, and amounts before this will be at a lower rate. These figures have been adjusted using percentage factors for the different benefits derived from *Social Security Statistics 1991*, (HMSO, 1992). For payments only received before April 1991, it is assumed that the amount given is at the appropriate earlier rate, and the figures are not adjusted.

Periods of receipt less than one week are treated as single one-off payments, unless the payment is income support, in which case it is treated as a weekly amount.

Uses wFICODE wFRALL wFR01 wFR02 wFR03 wFR04 wFR05 wFR06 wFR07 wFR08 wFR09 wFR10 wFR11 wFR12 wFR13 wFR14 wFR15 wFR16 wFRVAL wFRW wFRJT wFRJTPN on Record wINCOME. Uses wOPNO wREL on Record wEGOALT. Uses wDEPCHL on Record wINDALL

wFIM09T See variable wFIM09L

wFIM10L See variable wFIM09L

wFIM10T See variable wFIM09L

wFIM11L See variable wFIM09L

wFIM11T See variable wFIM09L

wFIM12L See variable wFIM09L

wFIM12T See variable wFIM09L

wFIM01N See variable wFIM09L

wFRJTVF Joint receipt verification flag. This variable is used in the computation of income measures from the financial receipts grids. There is some inconsistency between household members in their reporting of income receipts, and if they reported receipt, whether it was reported as sole or joint receipt. This variable is a recomputation of wFRJT. It takes the value 1 if the current payment is not matched to any other with complete information about payment amounts, 2 if it is matched to another, where either both have complete information or both are missing information, and 3 if the current record has missing information, but is matched to a record with complete information.
Uses wFRJT wFRJTPN on Record wINCOME.

2.8. RECORD TYPE wEGOALT

wBLWSTAT Alter's residence at Wave $w - 1$. This variable indicates whether Alter was resident in the same household at Wave $w - 1$. It is intended to enable measures of household composition change to be computed.
Uses wHID wPNO wOPNO wREL on Record wEGOALT. Uses PID wSAMPST wMOVEST on Record wINDALL. Uses wVVFHO on Record XWAVEID.

wNWSTAT Alter's residence at Wave $w+1$. This variable indicates whether Alter was resident in the same household at Wave $w+1$. It is intended to enable measures of household composition change to be computed. It is only available in the database after the following years data becomes available. That is, ANWSTAT appeared on the database with the release of the Wave Two dataset.

wREL Relationship of Ego to Alter, Person to Other
Uses wPNO wHGR2R wHGSEX wMASTAT wHGSPN wHGFNO wHGMNO from Record wINDALL

2.9. RECORD TYPE BLIFEMST

- BLESHSM** Month lifetime employment history status started. This variable is computed as the month the previous spell ended including date when respondent first left full-time education.
Uses BLESHNO on Record BLIFEMST. Uses BLEDENDM on Record BINDRESP.
- BLESHSY** Year lifetime employment history status started. This variable is computed as the year the previous spell ended including date when respondent first left full-time education.
Uses BLESHNO on Record BLIFEMST. Uses BLEDENDY on Record BINDRESP.
- BLESLEN** Length of employment history spell (months). In the computation of this length, it is assumed that 'winter' corresponds to January, 'spring' to April, 'summer' to July and 'autumn' to October.
Uses BLESHNO BLESHEM BLESHEY BLESHNE BLESHSM BLESHSY on Record BLIFEMST. Uses BDOIM on Record BINDRESP.

2.10. RECORD TYPE CLIFEJOB

- CLJSEQ** This is the index number of **employment** spells only. Compare with CLJESFN.
- CLJSEG** CASOC computes the Socio-Economic Group for jobs, based on the 3 digit Standard Occupational Classification (SOC), and employment status variables See the Section on Data Collection and Fieldwork, and Appendix III.
- CLJGOLD** CASOC computes the Goldthorpe social class classification for jobs, based on the 3 digit Standard Occupational Classification (SOC), and employment status variables. to Vol. A for details. See the Section on Data Collection and Fieldwork, and Appendix III.
- CLJRGSC** CASOC computes Registrar General's Social Class for jobs based on the 3 digit Standard occupational classification (SOC), and employment status variables. See the Section on Data collection and Fieldwork, and Appendix in Volume A.
- CLJISCO** This is a 'STRING' variable - an alphanumeric. Computed using CASOC. See the Section on Data Collection and Fieldwork, and coding frame for ISCO in Appendix to Vol. A. International Labour Office (1990) *International Standard Classification of Occupations: ISCO 88*. Geneva: International Labour Office.
- CLJCSSM** Computed using CASOC. See the Section on Data Collection and Fieldwork Vol. A. See also Prandy K (1990) *The Revised Cambridge Scale of Occupations*, Sociology 24, pp 629-655.
- CLJCSSF** Computed using CASOC. See the Section on Data Collection and Fieldwork Vol. A. See also Prandy K (1990) *Revised Cambridge Scale of Occupations*, Sociology 24, pp 629-655.
- CLJHGS** Computed using CASOC. See the Section on Data Collection and Fieldwork Vol. A. See also Goldthorpe, JH and Hope, K (1974) *The Social Grading of Occupations: A New Approach and Scale*, Oxford: Clarendon Press.
- CLJLEN** The following assumptions are made in calculating spell length Winter corresponds to January, Spring to April, Summer to July and Autumn to October. If month or season missing, assumed July if before 199LY, else missing.
Uses CHID CPNO CLJBGM CLJBGY CLJLFTM CLJLFTY on Record CLIFEJOB

CLJENST Status type for last job history records - this makes it possible to determine whether information about other jobs is to be expected in any of the panel records, and what information should be expected on the current record.
Uses CHID CPNO CLJNREC CLJHAD on Record CINDRESP. Uses CHID CPNO CLJSEQ CLJSOC CLJOTHJ on Record CLIFEJOB.

2.11. RECORD TYPE BMARRIAG

BMRMSEQ Sequence number of most recent marriage. This variable indicates whether the most recent marriage, i.e. where BMARNO equals 4, is a first or subsequent marriage.
Uses BMARNO on Record BMARRIAG. Uses BNMAR on Record BINDRESP.

Appendix 3. Coding Frames

3.1. Interview outcomes

3.1.1. Final household interview outcome - wIVFHO

10	Every eligible member interviewed
11	Some interviews some proxies
12	Some interviewed or proxied some non-contacts / refusals
13	Household composition form and questionnaire only
14	Household composition form only
15	Proxy taken at original address
16	Telephone interview only
17	Youth interview only
39	Documents missing or unusable
40	Demolished or derelict
41	Used only for business purposes
42	Temporary accommodation only
43	Empty at first call
44	New building not yet completed
45	Institution with no private households
50	Address not found
51	Address occupied but no contact
60	Refusal to Research Centre
61	Refusal to interviewer
62	Language problems
63	No interview: Age, infirmity or disability
70	Moved to previous wave address
80	Institutionalised: Won't be followed
81	Moved out of scope
90	Whole household deceased
91	Only XXXs resident
92	Adamant refusal
93	Long-term untraced, withdrawn
96	Withdrawn before field

3.1.2. Individual interview outcome - wIVFIO, LRIO, ASTAT

1	Full Interview
2	Proxy interview
3	Telephone interview
10	Adult: Refusal
11	Adult: Other non-interview
12	Moved
20	Child under 16 years
21	Youth interview
22	Youth: Refusal
23	Youth: Other non-interview
24	Child under 11 years
30	Adult: Refusal / non-interview household
31	Adult: Other non-interview / non-interview household
32	Moved / non-interview household
40	Child under 16 years / non-interview household
41	Youth: Refusal / non-interview household
42	Youth: Other non-interview / non-interview household
43	Child under 11 years / non-interview household
50	Adult: Refusal / non-contact household
51	Adult: Language Problems / non-contact household

52	Adult: Age, infirmity or disability / non-contact household
53	Adult: Non-contact / non-contact household
54	Adult: Out-of-scope / non-contact household
55	Adult: Institutionalised / non-contact household
56	Adult: Other mover / non-contact household
60	Child under 16 years : Refusal / non-contact household
61	Child under 16 years : Language Problems / non-contact household
62	Child under 16 years : Age, infirmity or disability / non-contact household
63	Child under 16 years : Non-contact / non-contact household
64	Child under 16 years : Out-of-scope / non-contact household
65	Child under 16 years : Institutionalised / non-contact household
66	Child under 16 years : Other mover / non-contact household
80	Isolated Temporary Sample Member
81	Previous Wave Adamant Refusal
82	Long-term untraced, withdrawn
98	Other Retiring
99	Dead

3.2. Reasons for Refusing

3.2.1 Whole household refusal reasons (wIVRREFH) First Occurrence W3

Competence of respondent(s)

- 01 Too ill
- 02 Too elderly
- 03 R(s) is senile or otherwise incompetent
- 04 R(s) does not speak English
- 05 Stressful family situation (eg bereavement, divorce)

Too busy

- 10 Looking after ill/elderly
- 11 Looking after child(ren)
- 12 R(s) almost never home
- 13 R(s) are temporarily away/absent
- 14 Too busy (not elsewhere specified)

Personal reasons

- 20 Unhappy about confidentiality
- 21 Questions too personal

Attitudes towards survey

- 30 R(s) doesn't want to be bothered
- 31 Nothing has changed since last year
- 32 Survey is too long
- 33 Survey is a waste of time/suspicious of survey/opposed to survey
- 34 Previous bad experience with surveys (in general)
- 35 Have had problems with LIB voucher payment(s) in past

Family pressure

- 40 Other family member(s) oppose participation
- 41 One family member refuses on behalf of all R(s) (no reason specified)

Other

- 94 Address occupied - no contact
- 95 R(s) have moved out-of scope/institutionalised
- 96 Other
- 99 No reason given

3.2.2 Individual within household refusal reasons (wIVRREF) First Occurrence W2

Competence of respondent

- 01 Too ill
- 02 Too elderly
- 03 R is senile or otherwise incompetent
- 04 R does not speak English
- 05 Stressful family situation (eg bereavement, divorce)

Too busy

- 10 Looking after ill/elderly
- 11 Looking after child(ren)
- 12 R almost never home
- 13 R is temporarily absent
- 14 Too busy (not elsewhere specified)

Personal reasons

- 20 Unhappy about confidentiality
- 21 Questions too personal

Attitudes towards survey

- 30 R doesn't want to be bothered
- 31 Nothing has changed since last year
- 32 Survey is too long

Individual Within Household Refusal Reasons (Continued)

- 33 Survey is a waste of time/suspicious of survey/opposed to survey
- 34 Previous bad experience with surveys (in general)
- 35 Has had problems with LIB voucher payment in past

Family pressure

- 40 Other family member opposes R's participating/includes refusal of parental permission.
- 41 Someone has convinced R to refuse
- 42 Other household member refuses on behalf of R.
- 43 Never interviewed - pressure may jeopardise other interviews in hhold

Other

- 96 Other
- 99 No reason given

3.3. Relationship to HRP

HOUSEHOLD GRID

Relationship to Reference Person Codes (wHGR2R) also used for wREL on wEGOALT
First Occurrence W1

- 01 Reference person
- 02 Lawful spouse (husband/wife)
- 03 Live-in partner (common-law husband/wife, cohabitee) (include same sex partner)
- 04 Natural child
- 05 Adopted child
- 06 Foster child
- 07 Step-child
- 08 Partner's child
- 09 Daughter/son-in-law
- 10 Natural brother/sister (half brother/sister)
- 11 Other brother/sister (adopted, step)
- 12 Brother/sister-in-law
- 13 Natural parent
- 14 Other parent (adopted/foster/step)
- 15 Mother/father-in-law
- 16 Any grand parent (incl of partner)
- 17 Any grand child (incl of partner)
- 18 Any cousin (incl of partner)
- 19 Any aunt/uncle (incl of partner)
- 20 Any nephew/niece (incl of partner)
- 21 Any other relative
- 22 Employee (e.g. nanny)
- 23 Lodger/boarder
- 24 Unrelated sharer
- 30 Other

3.4. Reasons for Moving

3.4.1 Main Reason for Preference to Move – (wLKMOVY) First Occurrence W1

HOUSING RELATED REASONS

- 01 Wants larger accommodation (other than reference solely to garden / garage)
- 02 Wants smaller/cheaper accommodation
- 03 Wants accommodation of their own / to form their own household (other than wanting to purchase accommodation)
- 04 To buy somewhere
- 05 Health reasons (eg house too damp, house not healthy) (other than needing accommodation without stairs)
- 06 To bungalow / accommodation with no stairs / ground floor flat
- 07 Wants other specific type of accommodation (eg detached house) (This code used only if no reference to larger / better or smaller / cheaper accommodation)
- 08 Wants change in other aspects of the property (eg wants a garden, larger garden, garage)
- 09 Dislikes current house / flat (not elsewhere specified)
- 10 Wants better accommodation (not elsewhere specified)

AREA RELATED REASONS

- 11 Dislikes isolation / absence of facilities
- 12 Wants move **to** a more rural environment
- 13 Dislike of urban environment (not elsewhere specified)
- 14 Dislikes traffic (include noise or danger from traffic)
- 15 Dislikes crime, vandalism, etc. / area unsafe
- 16 Noise (other than traffic)
- 17 Unfriendly area / Dislikes neighbours
- 18 Wants to move to specific place (not elsewhere specified)
- 19 Dislikes area (not elsewhere specified)

OTHER REASONS

- 21 Wants to move for new job / to find work
- 22 Wants to move to reduce commuting time
- 23 Wants to move because of retirement (If retirement is specifically mentioned, this code takes precedence over other codes)
- 24 Wants to be closer to family / friends
- 25 Wants more privacy
- 26 Wants a change

- 96 Other
- 97 No Reason (written in)

3.4.2 Other reasons for move (1st & 2nd) –(wMOVY1 and wMOVY2) First Occurrence W2

PERSONAL REASONS

- 01 To marry / move in with partner
- 02 To separate / divorce/split up from spouse / partner
- 03 Moved in with family / moved back with family (other than 01)
- 04 Moved away from family (other than 02)
- 05 Moved in with friends
- 06 Moved to be closer to family / friends

EDUCATIONAL/EMPLOYMENT RELATED REASONS

- 10 Moved to / be closer to / for term-time accommodation / college or university
- 11 Left education / ended course
- 12 Job related reason for self, include commuting time (not elsewhere specified)
- 13 Job related reason for other (include commuting time)
- 14 Retirement (self or spouse) (NB if retirement is specifically mentioned, this code takes precedence over other codes)

FORCED MOVES

- 15 Evicted from rented accommodation / repossessed / other forced moves

HOUSING RELATED REASONS

- 21 Wanted larger accommodation (other than reference solely to garden / garage)
- 22 Wanted smaller / cheaper accommodation
- 23 Wanted accommodation of their own / to form their own household / setting up house with partner (other than wanting to purchase accommodation)
- 24 To buy somewhere
- 25 Health reasons (eg house too damp, house not healthy) (other than needing accommodation without stairs)
- 26 To bungalow / accommodation with no stairs / ground floor flat
- 27 To sheltered accommodation / institution (needed care)
- 28 Wanted other specific type of accommodation (eg detached house, wanted a garden, larger garden, garage) (Only used if no reference to larger, better or smaller / cheaper accommodation)
- 29 Disliked previous house / flat (not elsewhere specified)
- 30 Wanted better accommodation (not elsewhere specified)
- 31 Wanted more privacy / previous accommodation overcrowded
- 32 Wants a change (not elsewhere specified)

AREA RELATED REASONS

- 41 Disliked isolation / absence of facilities
- 42 Wanted to move to a more rural environment
- 43 Disliked urban environment (not elsewhere specified)
- 44 Disliked traffic (include noise or danger from traffic)
- 45 Disliked crime, vandalism, etc. / area unsafe
- 46 Noise (other than traffic)
- 47 Unfriendly area / Disliked neighbours
- 48 Wanted to move to specific place
- 49 Disliked area (not elsewhere specified)

- 96 Other (include being nearer to children's school)
- 97 No other reason (written in)

3.5. Coding Frame for GCITZN1, GCITZN2, present citizenship / Wave 7

3 Digit Citizenship (wCITZN1 and CITZN2)

First Occurrence W7

Code both if dual citizenship

- 01 French
- 02 Belgian
- 03 Dutch
- 04 German (East and West)
- 05 Italian
- 06 British (UK)
- 07 Irish (Republic of / Southern)
- 08 Danish
- 09 Greek

- 10 Portuguese
- 11 Spanish
- 12 Luxembourg
- 14 Monaco
- 15 San Marino

- 24 Icelandic
- 28 Norwegian

- 30 Swedish
- 32 Finish
- 36 Swiss
- 37 Liechtenstein
- 38 Austrian

- 41 Faroe Islander
- 43 Andorra
- 44 Gibraltar
- 45 Vatican City State
- 46 Maltese

- 52 Turkish
- 53 Estonian
- 54 Latvian
- 55 Lithuanian

- 60 Polish
- 61 Czech
- 63 Slovak
- 64 Hungarian
- 66 Romanian
- 68 Bulgarian

- 70 Albanian
- 72 Ukrainian
- 73 Belarussian
- 74 Moldavian
- 75 Russian
- 76 Georgian
- 77 Armenian
- 78 Azerbaijani
- 79 Kazakhstani

- 80 Turkmenistan
- 81 Uzbek
- 82 Tadjikistani
- 83 Kyrgyzstani

- 91 Slovenian
- 92 Croatian
- 93 Bosnian
- 94 Serbian (formally Yugoslavian)
- 96 Macedonian

- 204 Moroccan
- 208 Algerian
- 212 Tunisian
- 216 Libyan
- 220 Egyptian
- 224 Sudanese

- 228 Mauritanian
- 232 Mali
- 236 Burkina Faso
- 240 Niger
- 244 Chad
- 247 Cape Verde
- 248 Senegalese
- 252 Gambian
- 257 Guinea-Bissau
- 260 Guinea
- 264 Sierra Leone
- 268 Liberian
- 272 Ivory Coast
- 276 Ghanain
- 280 Togo
- 284 Benin
- 288 Nigerian
- 302 Cameroon
- 306 Central Africa

- 310 Equatorial Guinea
- 311 Sao Tome and Principe
- 314 Gabon
- 318 Congolese
- 322 Zairean
- 324 Rwandan
- 328 Burundian
- 329 St.Helena
- 330 Angolan
- 334 Ethiopian
- 338 Djibouti
- 342 Somalian
- 346 Kenyan
- 350 Ugandan
- 352 Tanzanian

- 355 Seychelles
- 357 British Indian Ocean Territory
- 366 Mozambique
- 370 Madagascan
- 372 Reunion
- 373 Mauritian
- 375 Comorose
- 377 Mayotte

378 Zambian
382 Zimbabwe
386 Malawian
388 South African
389 Namibian
391 Botswana
393 Swaziland
395 Lesotho

400 American
401 Puerto Rican
404 Canadian
406 Greenlander
408 St.Pierre and Miguelon
412 Mexican
413 Bermuda

416 Guatemalan
421 Belize
424 Honduras
428 El Salvador
432 Nicaraguan
436 Costa Rican
442 Panama
446 Anguilla
448 Cuban
449 St.Christopher and Nevis
452 Haitian
453 Bahamas
454 Turks and Caicos Island
456 Dominican Republic
457 Virgin Islands of the US
458 Guadeloupe
459 Antigua and Barbuda
460 Dominica
461 British Virgin Islands and Montserrat
462 Martinique
463 Cayman Island
464 Jamaican
465 St Lucian
467 St Vincent
469 Barbados
472 Trinidad and Tobago
473 Grenada
474 Aruba
478 Netherlands Antilles

480 Colombian
484 Venezuelan
488 Guyanese
492 Surinam
496 French Guiana
500 Ecuadorian
504 Peruvian
508 Brazilian
512 Chilean
516 Bolivian
520 Paraguay
524 Uruguay
528 Argentinian
529 Falkland Islands

600 Cypriot
604 Lebanese
608 Syrian
612 Iraqi
616 Iranian
624 Israeli
628 Jordanian
632 Saudi
636 Kuwaiti

640 Bahrain
644 Qatar
647 United Arab Emirates
649 Oman
653 Yemeni

660 Afghani
662 Pakistani
664 Indian
666 Bangladeshi
667 Maldives
669 Sri Lanka
672 Nepalese
675 Bhutan

676 Myanmar
680 Thai
684 Laos
690 Vietnamese
696 Cambodian (Kampuchean)
700 Indonesian
701 Malaysian
703 Brunei
706 Singapore
708 Philippino
716 Mongolian
720 Chinese
724 North Korean
728 South Korean
732 Japanese
736 Taiwanese
740 Hong Kong
743 Macao

800 Australian
801 Papua New Guinea
802 Australian Oceania
803 Nauru
804 New Zealand
806 Solomon Island
807 Tuvalu
809 New Caledonian
810 American Oceania
811 Wallis and Futuna
812 Kiribati
813 Pitcairn
814 New Zealand Oceania
815 Fiji
816 Vanuatu
817 Tonga
819 Western Samoan
822 French Polynesian

- 823 States of Micronesia
- 824 Marshall Island
- 890 Polar region

- 900 EUROPEAN
- 901 European Community
- 902 Other European countries

- 910 AFRICAN
- 911 North African
- 912 West African
- 913 Central, East and South African
- 921 North American
- 922 Central and South American

- 930 ASIAN
- 931 Near and Middle Eastern
- 932 Other Asian countries

- 940 AUSTRALIAN,OCEANIA

- 990 ANY OTHER COUNTRY /

3.6. Main Attraction of Respondent's Current Job

Main thing attracted respondent about current job (wJBLKY)

First Occurrence W1

READ WHOLE ANSWER BUT CODE ONLY ONE MENTION

PRIORITY CODE (Lower numbered codes have priority over higher numbers)

- 01 More/better **money**
- 02 Better **promotion** or **career prospects**
- 03 More **responsibility**
- 04 New job **more secure**
- 05 Work in new job **more interesting**
- 06 To do **specific type** of work (eg. is what I want to do, like working with elderly/young people etc)

- 07 Given chance **to be own boss** (NB Self-employed only)
- 08 More opportunity to **work on/use own initiative** (other than self-employed)
- 09 Closer to home - less **travelling time** to work or while working
- 10 **Shorter/fewer hours**
- 11 **More flexible hours** (eg work when I want to, flexitime)
- 12 **Health reasons** (eg changed jobs because of health problems associated with conditions of previous employment)
- 13 New job better suited to respondent's **qualifications, training** or **experience** (eg what R had been trained for, what R used to do)
- 14 Work **less demanding/easier** than previous job (other than health reason)
- 15 Preferred to previous job (not elsewhere specified)
- 16 New job better (not elsewhere specified)

- 96 Other
- 98 Don't know
- 99 Refused/Not available

3.7. Standard Industrial Classification 1980 (SIC)

Used at Waves 1 - 12 (not available from W13 onwards)

The *Standard Industrial Classification* (SIC) is broken down into 4 areas; the *divisions*, the *classes*, the *groups*, and the *activity units*. At the most detailed level the units are distinguished with a 4 digit classification. Each unit is allocated to a group (3 digits). Each group is allocated to a class (2 digits) and each class allocated to a division (1 digit).

In the four digit activity units, the first digit denotes the division in which the unit is contained. The first 2 digits denote the class and the first 3 digits denote the group classification.

In the **British Household Panel Survey**, we have coded to SIC activity level. Where it was impossible to classify an industry in this detail, the broader category was filled out with trailing 0s. This means that "2400", for example, corresponds to Class "24" and so on.

Source: *Quarterly Labour Force Survey, March-May 1992: User Guide*, September 1992

1: DIVISIONS¹

- 0 Agriculture, forestry & fishing
- 1 Energy & water supplies
- 2 Extraction of minerals & ores other than fuels; manufacture of metals, mineral products & chemicals
- 3 Metal goods, engineering & vehicles industries
- 4 Other manufacturing industries
- 5 Construction
- 6 Distribution, hotels & catering (repairs)
- 7 Transport & communication
- 8 Banking, finance, insurance, business services & leasing
- 9 Other services

2: CLASSES

- 01 Agriculture & horticulture
- 02 Forestry
- 03 Fishing
- 11 Coal extraction & manufacture of solid fuels
- 12 Coke ovens
- 13 Extraction of mineral oil & natural gas
- 14 Mineral oil processing
- 15 Nuclear fuel production
- 16 Production & distribution of electricity, gas & other forms of energy
- 17 Water supply industry
- 21 Extraction & preparation of metalliferous ores
- 22 Metal manufacturing
- 23 Extraction of minerals not elsewhere specified
- 24 Manufacture of non-metallic mineral products
- 25 Chemical industry
- 26 Production of man-made fibres
- 31 Manufacture of metal goods not elsewhere specified
- 32 Mechanical engineering
- 33 Manufacture of office machinery & data processing equipment
- 34 Electrical & electronic engineering
- 35 Manufacture of motor vehicles & parts thereof
- 36 Manufacture of other transport equipment
- 37 Instrument engineering
- 41/42 Food, drink & tobacco manufacturing industries

1. In the following, "nec" means "not elsewhere classified".

43	Textile industry
44	Manufacture of leather & leather goods
45	Footwear & clothing industries
46	Timber & wooden furniture industries
47	Manufacture of paper & paper products; printing & publishing
48	Processing of rubber & plastics
49	Other manufacturing industries
50	Construction
61	Wholesale distribution (except dealing in scrap & waste materials)
62	Dealing in scrap & waste materials
63	Commission agents
64/65	Retail distribution
66	Hotels & catering
67	Repair of consumer goods & vehicles
71	Railways
72	Other inland transport
74	Sea transport
75	Air transport
76	Supporting services to transport
77	Miscellaneous transport services & storage nec
79	Postal services & telecommunications
81	Banking & finance
82	Insurance, except for compulsory social security
83	Business services
84	Renting of movables
85	Owning & dealing in real estate
91	Public administration, national defence & compulsory social security
92	Sanitary services
93	Education
94	Research & development

3: GROUPS

010	agriculture & horticulture
020	forestry
030	fishing
111	coal extraction & manufacture of solid fuels
120	coke ovens
130	extraction of mineral oil & natural gas
140	mineral oil processing
152	nuclear fuel production
161	production & distribution of electricity
162	public gas supply
163	production & distribution of other forms of energy
170	water supply industry
210	extraction & preparation of metalliferous ores
221	iron & steel industry
222	steel tubes
223	drawing, cold rolling & cold forming of steel
224	non-ferrous metals industry
231	extraction of stone, clay, sand & gravel
233	salt extraction & refining
239	extraction of other minerals nec
241	structural clay products
242	cement, lime & plaster
243	building products of concrete, cement or plaster
244	asbestos goods
245	working of stone & other non-metallic minerals nec
246	abrasive products
247	glass & glassware

248	refractory & ceramic goods
251	basic industrial chemicals
255	paints, varnishes & printing ink
256	specialised chemical products mainly for industrial & agricultural purposes
257	pharmaceutical products
258	soap & toilet preparations
259	specialised chemical products mainly for household & office use
260	production of man-made fibres
311	foundries
312	forging, pressing & stamping
313	bolts, nuts etc; springs; non precision chains; metals treatment
314	metal doors, windows etc
316	hand tools & finished metal goods
320	industrial plant & steelwork
321	agricultural machinery & tractors
322	metal-working machine tools & engineer's tools
323	textile machinery
324	machinery for the food, chemical & related industries; process engineering contractors
325	mining machinery, construction & mechanical handling equipment
326	mechanical power transmission equipment
327	machinery for the printing, paper, wood, leather, rubber, glass & related industries; laundry & dry cleaning equipment
328	other machinery & mechanical equipment
329	ordnance, small arms & ammunition
330	manufacture of office machinery & data processing equipment
341	insulated wires & cables
342	basic electrical equipment
343	electrical equipment for industrial use & batteries & accumulators
344	telecommunication equipment, electrical measuring equipment, electronic capital goods & passive electronic components
345	other electronic equipment
346	domestic-type electric appliances
347	electric lamps & other electric lighting equipment
348	electrical equipment installation
351	motor vehicles & their engines
352	motor vehicle bodies, trailers & caravans
353	motor vehicle parts
361	shipbuilding & repairing
362	railway & tramway vehicles
363	cycles & motor cycles
364	aerospace equipment manufacturing & repairing
365	other vehicles
371	measuring, checking & precision instruments & apparatus
372	medical & surgical equipment & orthopaedic appliances
373	optical precision instruments & photographic equipment
374	clocks, watches & other timing devices
411	organic oils & fats (other than crude animal fats)
412	slaughtering of animals & production of meat & by-products
413	preparation of milk & milk products
414	processing of fruit & vegetables
415	fish processing
416	grain milling
418	starch
419	bread, biscuits & flour confectionery
420	sugar & sugar by-products
421	ice cream, cocoa, chocolate & sugar confectionery
422	animal feeding stuffs
423	miscellaneous foods
424	spirit distilling & compounding
426	wines, cider & perry
427	brewing & malting
428	soft drinks

429	tobacco industry
431	woollen & worsted industry
432	cotton & silk industries
433	throwing, texturing, etc of continuous filament yarn
434	spinning & weaving of flax, hemp & ramie
435	jute & polypropylene yarns & fabrics
436	hosiery & other knitted goods
437	textile finishing
438	carpets & other textile floor coverings
439	miscellaneous textiles
441	leather (tanning & dressing) & fellmongery
442	leather goods
451	footwear
453	clothing, hats & gloves
455	household textiles & other made-up textiles
456	fur goods
461	sawmilling, planing, etc of wood
462	manufacture of semi-finished wood products & further processing & treatment of wood
463	builders' carpentry & joinery
464	wooden containers
465	other wooden articles (except furniture)
466	articles of cork & plaiting materials, brushes & brooms
467	wooden & upholstered furniture and shop & office fittings
471	pulp, paper & board
472	conversion of paper & board
475	printing & publishing
481	rubber products
482	retreading & specialist repairing of rubber tyres
483	processing of plastics
491	jewellery & coins
492	musical instruments
493	photographic & cinematographic processing laboratories
494	toys & sports goods
495	miscellaneous manufacturing industries
500	general construction & demolition work
501	construction & repair of buildings
502	civil engineering
503	installation of fixtures & fittings
504	building completion work
611	wholesale distribution of agricultural raw materials, live animals, textile raw materials & semi-manufactures
612	wholesale distribution of fuels, ores, metals & industrial materials
613	wholesale distribution of timber & building materials
614	Wholesale distribution of machinery, industrial equipment & vehicles
615	wholesale distribution of household goods, hardware & ironmongery
616	wholesale distribution of textiles, clothing, footwear & leather goods
617	wholesale distribution of food, drink & tobacco
618	wholesale distribution of pharmaceutical, medical & other chemist's goods
619	other wholesale distribution including general wholesalers
621	dealing in scrap metals
622	dealing in other scrap materials, or general dealers
630	commission agents
641	food retailing
642	confectioners, tobacconists & newsagents; off-licences
643	dispensing & other chemists
645	retail distribution of clothing
646	retail distribution of footwear & leather goods
647	retail distribution of furnishing fabrics & household textiles
648	retail distribution of household goods, hardware & ironmongery
651	retail distribution of motor vehicles & parts
652	filling stations (motor fuel & lubricants)
653	retail distribution of books, stationery & office supplies

654	other specialised retail distribution (non food)
656	mixed retail businesses
661	restaurants, snack bars, cafes & other eating places
662	public houses & bars
663	night clubs & licensed clubs
664	canteen & messes
665	hotel trade
667	other tourist or short-stay accommodation
671	repair & servicing of motor vehicles
672	repair of footwear & leather goods
673	repair of other consumer goods
710	railways
721	scheduled road passenger transport & urban railways
722	other road passenger transport
723	road haulage
726	transport nec
740	sea transport
750	air transport
761	supporting services to inland transport
763	supporting services to sea transport
764	supporting services to air transport
770	miscellaneous transport services & storage nec
790	postal services & telecommunications
814	banking & bill-discounting
815	other financial institutions
820	insurance, except for compulsory social security
831	activities auxiliary to banking & finance
832	activities auxiliary to insurance
834	house & estate agents
835	legal services
836	accountants, auditors, tax experts
837	professional & technical services nec
838	advertising
839	business services
841	hiring out agricultural & horticultural equipment
842	hiring out construction machinery & equipment
843	hiring out office machinery & furniture
846	hiring out consumer goods
848	hiring out transport equipment
849	hiring out movables
850	owning & dealing in real estate
911	national government service nec
912	justice
913	police
914	fire services
915	national defence
919	social security
921	refuse disposal, sanitation & similar services
923	cleaning services
931	higher education
932	school education (nursery, primary & secondary)
933	education nec & vocational training
936	driving & flying schools
940	research & development
951	hospitals, nursing homes etc
952	other medical care institutions
953	medical practices
954	dental practices
955	agency & private midwives, nurses etc
956	veterinary practices & animal hospitals
961	social welfare, charitable & community services
963	trade unions, business & professional associations

966	religious services & other cultural services
969	tourist offices & other community services
971	film production, distribution & exhibition
974	radio & television services, theatres etc
976	authors, music composers & other own account artists nec
977	libraries, museums, art galleries etc
979	sport & other recreational services
981	laundries, dyers & dry cleaners
982	hairdressing & beauty parlours
989	personal services nec
990	domestic services
000	diplomatic representation, international organisations, allied armed forces

4: UNITS

0100	agriculture & horticulture
0200	forestry
0300	fishing
1113	deep coal mines
1114	opencast coal working
1115	manufacture of solid fuels
1200	coke ovens
1300	extraction of mineral oil & natural gas
1401	mineral oil refining
1402	other treatment of petroleum products (excluding petrochemical manufacture)
1520	nuclear fuel production
1610	production & distribution of electricity
1620	public gas supply
1630	production & distribution of other forms of energy
1700	water supply industry
2100	extraction & preparation of metalliferous ores
2210	iron & steel industry
2220	steel tubes
2234	drawing & manufacture of steel wire & steel wire products
2235	other drawing, cold rolling & cold forming of steel
2245	aluminium & aluminium alloys
2246	copper, brass & other copper alloys
2247	other non-ferrous metals & their alloys
2310	extraction of stone, clay, sand & gravel
2330	salt extraction & refining
2396	extraction of other minerals nec
2410	structural clay products
2420	cement, lime & plaster
2436	ready mixed concrete
2437	other building products of concrete, cement or plaster
2440	asbestos goods
2450	working of stone & other non-metallic minerals nec
2460	abrasive products
2471	flat glass
2478	glass containers
2479	other glass products
2481	refractory goods
2489	ceramic goods
2511	inorganic chemicals except industrial gases
2512	basic organic chemicals except specialised pharmaceutical chemicals
2513	fertilisers
2514	synthetic resins & plastics materials
2515	synthetic rubber
2516	dyestuffs & pigments
2551	paints, varnishes & painters' fillings

2552	printing ink
2562	formulated adhesives & sealants
2563	chemical treatment of oils & fats
2564	essential oils & flavouring materials
2565	explosives
2567	miscellaneous chemical products for industrial use
2568	formulated pesticides
2569	adhesive film, cloth & foil
2570	pharmaceutical products
2581	soap & synthetic detergents
2582	perfumes, cosmetics & toilet preparations
2591	photographic materials & chemicals
2599	chemical products nec
2600	production of man-made fibres
3111	ferrous metal foundries
3112	non-ferrous metal foundries
3120	forging, pressing & stamping
3137	bolts, nuts, washers, rivets, springs & non-precision chains
3138	heat & surface treatment of metals, including sintering
3142	metal doors, windows etc
3161	hand tools & implements
3162	cutlery, spoons, forks & similar tableware; razors
3163	metal storage vessels (mainly non-industrial)
3164	packaging products of metal
3165	domestic heating & cooking appliances (non-electrical)
3166	metal furniture & safes
3167	domestic & similar utensils of metal
3169	finished metal products nec
3204	fabricated constructional steelwork
3205	boilers & process plant equipment
3211	agricultural machinery
3212	wheeled tractors
3221	metal-working machine tools
3222	engineers' small tools
3230	textile machinery
3244	food, drink & tobacco processing machinery; packaging & bottling machinery
3245	chemical industry machinery; furnaces & kilns; gas, water & waste treatment plant
3246	process engineering contractors
3251	mining machinery
3254	construction & earth moving equipment
3255	mechanical lifting & handling equipment
3261	precision chains & other mechanical power transmission equipment
3262	ball, needle & roller bearings
3275	machinery for working wood, rubber, plastics, leather & making paper, glass, bricks & similar materials; laundry & dry cleaning machinery
3276	printing, bookbinding & paper goods machinery
3281	internal combustion engines (except for road vehicles, wheeled tractors primarily for agricultural purposes & aircraft) & other prime movers
3283	compressors & fluid power equipment
3284	refrigerating machinery, space heating, ventilating & air conditioning equipment
3285	scales, weighing machinery & portable power tools
3286	other industrial & commercial machinery
3287	pumps
3288	industrial valves
3289	mechanical, marine & precision engineering nec
3290	ordnance, small arms & ammunition
3301	office machinery
3302	electronic data processing equipment
3410	insulated wires & cables
3420	basic electrical equipment
3432	batteries & accumulators
3433	alarms & signalling equipment

3434	electrical equipment for motor vehicles, cycles & aircraft
3435	electrical equipment for industrial use nec
3441	telegraph & telephone apparatus & equipment
3442	electrical instruments & control systems
3443	radio & electronic capital goods
3444	components other than active components, mainly for electronic equipment
3452	gramophone records & pre-recorded tapes
3453	active components & electronic sub-assemblies
3454	electronic consumer goods & other electronic equipment nec
3460	domestic-type electric appliances
3470	electric lamps & other electric lighting equipment
3480	electrical equipment installation
3510	motor vehicles & their engines
3521	motor vehicle bodies
3522	trailers & semi-trailers
3523	caravans
3530	motor vehicle parts
3610	shipbuilding & repairing
3620	railway & tramway vehicles
3633	motor cycles & parts
3634	pedal cycles & parts
3640	aerospace equipment manufacturing & repairing
3650	other vehicles
3710	measuring, checking & precision instruments & apparatus
3720	medical & surgical equipment & orthopaedic appliances
3731	spectacles & unmounted lenses
3732	optical precision instruments
3733	photographic & cinematographic equipment
3740	clocks, watches & other timing devices
4115	margarine & compound cooking fats
4116	processing organic oils & fats (other than crude animal fat production)
4121	slaughterhouses
4122	bacon curing & meat processing
4123	poultry slaughter & processing
4126	animal by-product processing
4130	preparation of milk & milk products
4147	processing of fruit & vegetables
4150	fish processing
4160	grain milling
4180	starch
4196	bread & flour confectionery
4197	biscuits & crispbread
4200	sugar & sugar by-products
4213	ice cream
4214	cocoa, chocolate & sugar confectionery
4221	compound animal feeds
4222	pet foods & non-compound animal feeds
4239	miscellaneous foods
4240	spirit distilling & compounding
4261	wines, cider & perry
4270	brewing & malting
4283	soft drinks
4290	tobacco industry
4310	woollen & worsted industry
4321	spinning & doubling on the cotton system
4322	weaving of cotton, silk & man-made fibres
4336	throwing, texturing, etc of continuous filament yarn
4340	spinning & weaving of flax, hemp & ramie
4350	jute & polypropylene yarns & fabrics
4363	hosiery & other weft knitted goods & fabrics
4364	warp knitted fabrics
4370	textile finishing

4384	pile carpets, carpeting & rugs
4385	other carpets, carpeting, rugs & matting
4395	lace
4396	rope, twine & net
4398	narrow fabrics
4399	other miscellaneous textiles
4410	leather (tanning & dressing) & fellmongery
4420	leather goods
4510	footwear
4531	weatherproof outerwear
4532	men's & boys' tailored outerwear
4533	women's & girls' tailored outerwear
4534	work clothing & men's & boys' jeans
4535	men's & boys' shorts, underwear & nightwear
4536	women's & girls' light outerwear, lingerie & infants' wear
4537	hats, caps & millinery
4538	gloves
4539	other dress industries
4555	soft furnishings
4556	canvas goods, sacks & other made-up textiles
4557	household textiles
4560	fur goods
4610	sawmilling, planing, etc of wood
4620	manufacture of semi-finished wood products & further processing & treatment of wood
4630	builders' carpentry & joinery
4640	wooden containers
4650	other wooden articles (except furniture)
4663	brushes & brooms
4664	articles of cork & basketware, wickerwork & other plaiting materials
4671	wooden & upholstered furniture
4672	shop & office fitting
4710	pulp, paper & board
4721	wall coverings
4722	household & personal hygiene products of paper
4723	stationery
4724	packaging products of paper & pulp
4725	packaging products of board
4728	other paper & board products
4751	printing & publishing of newspapers
4752	printing & publishing of periodicals
4753	printing & publishing of books
4754	other printing & publishing
4811	rubber tyres & inner tubes
4812	other rubber products
4820	retreading & specialist repairing of rubber tyres
4831	plastic coated textile fabric
4832	plastics semi-manufactures
4833	plastics floor coverings
4834	plastics building products
4835	plastics packaging products
4836	plastics products nec
4910	jewellery & coins
4920	musical instruments
4930	photographic & cinematographic processing laboratories
4941	toys & games
4942	sports goods
4954	miscellaneous stationers' goods
4959	other manufactures nec
5000	general construction & demolition work
5010	construction & repair of buildings
5020	civil engineering
5030	installation of fixtures & fittings

5040	building completion work
6110	wholesale distribution of agricultural raw materials, live animals, textile raw materials & semi-manufactures
6120	wholesale distribution of fuels, ores, metals & industrial materials
6130	wholesale distribution of timber & building materials
6148	wholesale distribution of motor vehicles & parts & accessories
6149	wholesale distribution of machinery, industrial equipment & transport equipment other than motor vehicles
6150	wholesale distribution of household goods, hardware & ironmongery
6160	wholesale distribution of textiles, clothing, footwear & leather goods
6170	wholesale distribution of food, drink & tobacco
6180	wholesale distribution of pharmaceutical, medical & other chemist's goods
6190	other wholesale distribution including general wholesalers
6210	dealing in scrap & waste materials
6220	dealing in scrap & waste materials
6300	commission agents
6410	food retailing
6420	confectioners, tobacconists & newsagents; off-licences
6430	dispensing & other chemists
6450	retail distribution of clothing
6460	retail distribution of footwear & leather goods
6470	retail distribution of furnishing fabrics & household textiles
6480	retail distribution of household goods, hardware & ironmongery
6510	retail distribution of motor vehicles & parts
6520	filling stations (motor fuel & lubricants)
6530	retail distribution of books, stationery & office equipment
6540	other specialised retail distribution (non food)
6560	mixed retail businesses
6611	eating places supplying food for consumption on the premises
6612	take-away food shops
6620	public houses & bars
6630	night clubs & licensed clubs
6640	canteen & messes
6650	hotel trade
6670	other tourist or short-stay accommodation
6710	repair & servicing of motor vehicles
6720	repair of footwear & leather goods
6730	repair of other consumer goods
7100	railways
7210	scheduled road passenger transport & urban railways
7220	other road passenger transport
7230	road haulage
7260	transport nec
7400	sea transport
7500	air transport
7610	supporting services to inland transport
7630	supporting services to sea transport
7640	supporting services to air transport
7700	miscellaneous transport services & storage nec
7901	postal services
7902	telecommunications
8140	banking & bill-discounting
8150	other financial institutions
8200	insurance, except for compulsory social security
8310	activities auxiliary to banking & finance
8320	activities auxiliary to insurance
8340	house & estate agents
8350	legal services
8360	accountants, auditors, tax experts
8370	professional & technical services nec
8380	advertising
8394	computer services

8395	business services nec
8396	central offices not allocable elsewhere
8410	hiring out agricultural & horticultural equipment
8420	hiring out construction machinery & equipment
8430	hiring out office machinery & furniture
8460	hiring out consumer goods
8480	hiring out transport equipment
8490	hiring out movables
8500	owning & dealing in real estate
9111	national government service nec
9112	local government service nec
9120	justice
9130	police
9140	fire services
9150	national defence
9190	social security
9211	refuse disposal, street cleaning, fumigation etc
9212	sewage disposal
9230	cleaning services
9310	higher education
9320	school education (nursery, primary & secondary)
9330	education nec & vocational training
9360	driving & flying schools
9400	research & development
9510	hospitals, nursing homes etc
9520	other medical care institutions
9530	medical practices
9540	dental practices
9550	agency & private midwives, nurses etc
9560	veterinary practices & animal hospitals
9611	social welfare, charitable & community services
9631	trade unions, business & professional associations
9660	religious services & other cultural services
9690	tourist offices & other community services
9711	film production, distribution & exhibition
9741	radio & television services, theatres etc
9760	authors, music composers & other own account artists nec
9770	libraries, museums, art galleries etc
9791	sport & other recreational services
9811	laundries
9812	dry cleaning & allied services
9820	hairdressing & beauty parlours
9890	personal services nec
9900	domestic services
0000	diplomatic representation, international organisations, allied armed forces

3.8. Standard Industrial Classification 92 (SIC92)

Used at Waves 4, 7, 11 and 12 onwards

In the **British Household Panel Study** this coding frame applies to one variable only **DJBASIC92**. We have included this to enable comparison with our usual coding i.e. to SIC 1980. The SIC 92 coding frame is identical to **NACE** - European Community Classification of Economic Activities. For further details see **Standard Industrial Classification of economic activities 1992**. (London CSO/GSS/HMSO 1992).

Source: *Labour Force Survey User's Guide, Volume 5 LFS Classifications, 1995*

Note the data in DJBASIC92 is coded to 4 digits without the decimal points shown in the table below. Note also, any case with 3 digits is missing a **leading** zero. This means that "501" should be read as 05.01 .

UK STANDARD INDUSTRIAL CLASSIFICATION OF ECONOMIC ACTIVITIES - SIC 92

The 1992 SIC is broken down into 17 main alphabetical sections, 14 sub-sections, 60 divisions, 222 groups, 503 classes and 142 subclasses; these are set out in the following pages:

The 17 main Divisions in the 1992 SIC are:

A	Agriculture, Hunting and Forestry
B	Fishing
C	Mining and Quarrying
D	Manufacturing
E	Electricity, Gas and Water Supply
F	Construction
G	Wholesale and Retail Trade: Repair of Motor Vehicles, Motorcycles and Personal Household Goods
H	Hotels and Restaurants
I	Transport, Storage and Communication
J	Financial Intermediation
K	Real Estate, Renting and Business Activities
L	Public Administration and Defence: Compulsory Social Security
M	Education
N	Health and Social Work
O	Other Community, Social and Personal Service Activities
P	Private Households with Employed Persons
Q	Extra-Territorial Organisations and Bodies

Detailed breakdown of the full 1992 Standard Industrial Classification

<i>Division</i>	<i>Class</i>	<i>Class and sub class</i>	<i>Description</i>
SECTION A			AGRICULTURE, HUNTING AND FORESTRY
01			AGRICULTURE, HUNTING AND RELATED SERVICE ACTIVITIES
	01.1		Growing of crops; market gardening; horticulture
		01.11	Growing of cereals and other crops not elsewhere classified
		01.12	Growing of vegetables, horticultural specialties and nursery products
		01.13	Growing of fruit, nuts, beverage and spice crops
	01.2		Farming of animals
		01.21	Farming of cattle, dairy farming
		01.22	Farming of sheep, goats, horses, asses, mules and hinnies
		01.23	Farming of swine
		01.24	Farming of poultry
		01.25	Other farming of animals

01.3	01.30	Growing of crops combined with farming of animals (mixed farming) Growing of crops combined with farming of animals (mixed farming)
01.4		Agricultural and animal husbandry service activities, except veterinary activities
	01.41	Agricultural service activities
	01.42	Animal husbandry service activities, except veterinary activities
01.5		Hunting, trapping and game propagation including related service activities
	01.50	Hunting, trapping and game propagation including related service activities
02		FORESTRY, LOGGING AND RELATED SERVICE ACTIVITIES
02.0		Forestry, logging and related service activities
	02.01	Forestry and logging
	02.02	Forestry and logging related service activities
SECTION B		FISHING
05		FISHING, OPERATION OF FISH HATCHERIES AND FISH FARMS; SERVICE ACTIVITIES INCIDENTAL TO FISHING
05.0		Fishing 9, operation of fish hatcheries and fish farms; service activities incidental to fishing
	05.01	Fishing
	05.02	Operation of fish hatcheries and fish farms
SECTION C		MINING AND QUARRYING
Subsection CA		MINING AND QUARRYING OF ENERGY PRODUCING MATERIALS
10		MINING OF COAL AND LIGNITE; EXTRACTION OF PEAT
10.1	10.10	Mining and agglomeration of hard coal Mining and agglomeration of hard coal
10.2	10.20	Mining and agglomeration of lignite Mining and agglomeration of lignite
10.3	10.30	Extraction and agglomeration of peat Extraction and agglomeration of peat
11		EXTRACTION OF CRUDE PETROLEUM AND NATURAL GAS; SERVICE ACTIVITIES INCIDENTAL TO OIL AND GAS EXTRACTION EXCLUDING SURVEYING
11.1	11.10	Extraction of crude petroleum and natural gas Extraction of crude petroleum and natural gas
11.2	11.20	Service activities incidental to oil and gas extraction excluding surveying Service activities incidental to oil and gas extraction excluding surveying
12		MINING OF URANIUM AND THORIUM ORES
	12.0	Mining of uranium and thorium ores
	12.00	Mining of uranium and thorium ores
Subsection CB		MINING AND QUARRYING EXCEPT ENERGY PRODUCING MATERIALS
13		MINING OF METAL ORES
	13.1	Mining of iron ores

	13.10	Mining of iron ores
13.2	13.20	Mining of non-ferrous metal ores, except uranium and thorium ores Mining of non-ferrous metal ores, except uranium and thorium ores
14		OTHER MINING AND QUARRYING
14.1	14.11 14.12 14.13	Quarrying of stone Quarrying of stone for construction Quarrying of limestone, gypsum and chalk Quarrying of slate
14.2	14.21 14.22	Quarrying of sand and clay Operation of gravel and sand pits Mining of clays and kaolin
14.3	14.30	Mining of chemical and fertilizer minerals Mining of chemical and fertilizer minerals
14.4	14.40	Production of salt Production of salt
14.5	14.50	Other mining and quarrying not elsewhere classified Other mining and quarrying not elsewhere classified
SECTION D		MANUFACTURING
Subsection DA		MANUFACTURE OF FOOD PRODUCTS; BEVERAGES AND TOBACCO
15		MANUFACTURE OF FOOD PRODUCTS AND BEVERAGES
15.1	15.11 15.12 15.13	Production, processing and preserving of meat and meat products Production and preserving of meat Production and preserving of poultry meat Production of meat and poultry meat products
15.2	15.20	Processing and preserving of fish and fish products Processing and preserving of fish and fish products
15.3	15.31 15.32 15.33	Processing and preserving of fruit and vegetables Processing and preserving of potatoes Manufacture of fruit and vegetable juice Processing and preserving of fruit and vegetables not elsewhere classified
15.4	15.41 15.42 15.43	Manufacture of vegetable and animal oils and fats Manufacture of crude oils and fats Manufacture of refined oils and fats Manufacture of margarine and similar edible fats
15.5	15.51 15.52	Manufacture of dairy products Operation of dairies and cheese making Manufacture of ice cream
15.6	15.61 15.62	Manufacture of grain mill products, starches and starch products Manufacture of grain mill products Manufacture of starches and starch products
15.7	15.71 15.72	Manufacture of prepared animal feeds Manufacture of prepared feeds for farm animals Manufacture of prepared pet foods
15.8	15.81 15.82 15.83	Manufacture of other food products Manufacture of bread; manufacture of pastry goods and cakes Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes Manufacture of sugar

	15.84	Manufacture of cocoa; chocolate and sugar confectionary
	15.85	Manufacture of macaroni, noodles, couscous and similar farinaceous products
	15.86	Processing of tea and coffee
	15.87	Manufacture of condiments and seasonings
	15.88	Manufacture of homogenised food preparations and dietetic food
	15.89	Manufacture of other foods products not elsewhere specified
15.9		Manufacture of beverages
	15.91	Manufacture of distilled potable alcoholic beverages
	15.92	Production of ethyl alcohol from fermented materials
	15.93	Manufacture of wines
	15.94	Manufacture of cider and other fruit wines
	15.95	Manufacture of other non-distilled fermented beverages
	15.96	Manufacture of beer
	15.97	Manufacture of malt
	15.98	Production of mineral waters and soft drinks
16		MANUFACTURE OF TOBACCO PRODUCTS
16.0		Manufacture of tobacco products
	16.00	Manufacture of tobacco products
Subsection DB		MANUFACTURE OF TEXTILES AND TEXTILE PRODUCTS
17		MANUFACTURE OF TEXTILES
17.1		Preparation and spinning of textile fibres
	17.11	Preparation and spinning of cotton-type fibres
	17.12	Preparation and spinning of woollen-type fibres
	17.13	Preparation and spinning of worsted-type fibres
	17.14	Preparation and spinning of flax-type fibres
	17.15	Throwing and preparation of silk including from noils and throwing and texturing of synthetic or artificial filament yarns
	17.16	Manufacture of sewing threads
	17.17	Preparation and spinning of other textile fibres
17.2		Textile weaving
	17.21	Cotton type weaving
	17.22	Woollen type weaving
	17.23	Worsted type weaving
	17.24	Silk type weaving
	17.25	Other textile weaving
17.3		Finishing of textiles
	17.30	Finishing of textiles
17.4		Manufacture of made-up textile articles, except apparel
	17.40	Manufacture of made-up textile articles, except apparel
17.5		Manufacture of other textiles
	17.51	Manufacture of carpets and rugs
	17.52	Manufacture of cordage, rope, twine and netting
	17.53	Manufacture of non-wovens and articles made from non-wovens, except apparel
	17.54	Manufacture of other textiles not elsewhere specified
17.6		Manufacture of knitted and crocheted fabrics
	17.60	Manufacture of knitted and crocheted fabrics
17.7		Manufacture of knitted and crocheted articles
	17.71	Manufacture of knitted and crocheted hosiery
	17.72	Manufacture of knitted and crocheted pullovers, cardigans and similar articles
18		MANUFACTURE OF WEARING APPAREL; DRESSING AND DYING OF FUR

18.1		Manufacture of leather clothes
	18.10	Manufacture of leather clothes
18.2		Manufacture of wearing apparel and accessories
	18.21	Manufacture of workwear
	18.22	Manufacture of other outerwear
	18.23	Manufacture of underwear
	18.24	Manufacture of other wearing apparel and accessories not elsewhere specified
18.3		Dressing and dyeing of fur; manufacture of articles of fur
	18.30	Dressing and dyeing of fur; manufacture of articles of fur
Subsection DC		MANUFACTURE OF LEATHER AND LEATHER PRODUCTS
19		TANNING AND DRESSING OF LEATHER; MANUFACTURE OF LUGGAGE, HANDBAGS, SADDLERY, HARNESS AND FOOTWEAR
19.1		Tanning and dressing of leather
	19.10	Tanning and dressing of leather
19.2		Manufacture of luggage, handbags and the like, saddlery and harness
	19.20	Manufacture of luggage, handbags and the like, saddlery and harness
19.3		Manufacture of footwear
	19.30	Manufacture of footwear
Subsection DD		MANUFACTURE OF WOOD AND WOOD PRODUCTS
20		MANUFACTURE OF WOOD AND OF PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; MANUFACTURE OF ARTICLES OF STRAW AND PLAITING MATERIALS
20.1		Sawmilling and planing of wood, impregnation of wood
	20.10	Sawmilling and planing of wood, impregnation of wood
20.2		Manufacture of veneer sheets; manufacture of plywood, laminboard, particle board, fibre board and other panels and boards
	20.20	Manufacture of veneer sheets; manufacture of plywood, laminboard, particle board, fibre board and other panels and boards
20.3		Manufacture of builders' carpentry and joinery
	20.30	Manufacture of builders' carpentry and joinery
20.4		Manufacture of wooden containers
	20.40	Manufacture of wooden containers
20.5		Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials
	20.51	Manufacture of other products of wood
	20.52	Manufacture of articles of cork, straw and plaiting materials
Subsection DE		MANUFACTURE OF PULP, PAPER AND PAPER PRODUCTS; PUBLISHING AND PRINTING
21		MANUFACTURE OF PULP, PAPER AND PAPER PRODUCTS
21.1		Manufacture of pulp, paper and paperboard
	21.11	Manufacture of pulp
	21.12	Manufacture of paper and paperboard
21.2		Manufacture of articles of paper and paperboard
	21.21	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
	21.22	Manufacture of household and sanitary goods and of toilet requisites
	21.23	Manufacture of paper stationery

	21.24	Manufacture of wallpaper
	21.25	Manufacture of other articles of paper and paperboard not elsewhere classified
22		PUBLISHING, PRINTING AND REPRODUCTION OF RECORDED MEDIA
	22.1	Publishing
	22.11	Publishing of books
	22.12	Publishing of newspapers
	22.13	Publishing of journals and periodicals
	22.14	Publishing of sound recordings
	22.15	Other publishing
	22.2	Printing and service activities related to printing
	22.21	Printing of newspapers
	22.22	Printing not elsewhere classified
	22.23	Bookbinding and finishing
	22.24	Composition and plate-making
	22.25	Other activities related to printing
	22.3	Reproduction of recorded media
	22.31	Reproduction of sound recording
	22.32	Reproduction of video recording
	22.33	Reproduction of computer media
Subsection DF		MANUFACTURE OF COKE, REFINED PETROLEUM PRODUCTS AND NUCLEAR FUEL
23		MANUFACTURE OF COKE, REFINED PETROLEUM PRODUCTS AND NUCLEAR FUEL
	23.1	Manufacture of coke oven products
	23.10	Manufacture of coke oven products
	23.2	Manufacture of refined petroleum products
	23.20	Manufacture of refined petroleum products
	23.3	Processing of nuclear fuel
	23.30	Processing of nuclear fuel
Subsection DG		MANUFACTURE OF CHEMICALS, CHEMICAL PRODUCTS AND MAN-MADE FIBRES
24		MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS
	24.1	Manufacture of basic chemicals
	24.11	Manufacture of industrial gases
	24.12	Manufacture of dyes and pigments
	24.13	Manufacture of other inorganic basic chemicals
	24.14	Manufacture of other organic basic chemicals
	24.15	Manufacture of fertilizers and nitrogen compounds
	24.16	Manufacture of plastics in primary forms
	24.17	Manufacture of synthetic rubber in primary forms
	24.2	Manufacture of pesticides and other agro-chemical products
	24.20	Manufacture of pesticides and other agro-chemical products
	24.3	Manufacture of paints, varnishes and similar coatings, printing ink and mastics
	24.30	Manufacture of paints, varnishes and similar coatings, printing ink and mastics
	24.4	Manufacture of pharmaceuticals, medicinal chemicals and botanical products
	24.41	Manufacture of basic pharmaceutical products
	24.42	Manufacture of pharmaceutical preparations

24.5		Manufacture of soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations
	24.51	Manufacture of soap and detergents, cleaning and polishing preparations
	24.52	Manufacture of perfumes and toilet preparations
24.6		Manufacture of other chemical products
	24.61	Manufacture of explosives
	24.62	Manufacture of glues and gelatine
	24.63	Manufacture of essential oils
	24.64	Manufacture of photographic chemical material
	24.65	Manufacture of prepared unrecorded media
	24.66	Manufacture of other chemical products not elsewhere classified
24.7		Manufacture of man-made fibres
	24.70	Manufacture of man-made fibres
Subsection DH		MANUFACTURE OF RUBBER AND PLASTIC PRODUCTS
25		MANUFACTURE OF RUBBER AND PLASTIC PRODUCTS
25.1		Manufacture of rubber products
	25.11	Manufacture of rubber tyres and tubes
	25.12	Retreading and rebuilding of rubber tyres
	25.13	Manufacture of other rubber products
25.2		Manufacture of plastic products
	25.21	Manufacture of plastic plates, sheets, tubes and profiles
	25.22	Manufacture of plastic packing goods
	25.23	Manufacture of builders' ware of plastic
	25.24	Manufacture of other plastic products
Subsection DI		MANUFACTURE OF OTHER NON-METALLIC MINERAL PRODUCTS
26		MANUFACTURE OF OTHER NON-METALLIC MINERAL PRODUCTS
26.1		Manufacture of glass and glass products
	26.11	Manufacture of flat glass
	26.12	Shaping and processing of flat glass
	26.13	Manufacture of hollow glass
	26.14	Manufacture of glass fibres
	26.15	Manufacture and processing of other glass including technical glassware
26.2		Manufacture of non-refractory ceramic goods other than for construction purposes; manufacture of refractory ceramic products
	26.21	Manufacture of ceramic household and ornamental articles
	26.22	Manufacture of ceramic sanitary fixtures
	26.23	Manufacture of ceramic insulators and insulating fittings
	26.24	Manufacture of other technical ceramic products
	26.25	Manufacture of other ceramic products
	26.26	Manufacture of refractory ceramic products
26.3		Manufacture of ceramic tiles and flags
	26.30	Manufacture of ceramic tiles and flags
26.4		Manufacture of bricks, tiles and construction products, in baked clay
	26.40	Manufacture of bricks, tiles and construction products, in baked clay
26.5		Manufacture of cement, lime and plaster
	26.51	Manufacture of cement
	26.52	Manufacture of lime
	26.53	Manufacture of plaster
26.6		Manufacture of articles of concrete, plaster and cement
	26.61	Manufacture of concrete products for construction purposes

	26.62	Manufacture of plaster products for construction purposes
	26.63	Manufacture of ready-mixed concrete
	26.64	Manufacture of mortars
	26.65	Manufacture of fibre cement
	26.66	Manufacture of other articles of concrete, plaster and cement
26.7		Cutting, shaping and finishing of stone
	26.70	Cutting, shaping and finishing of stone
26.8		Manufacture of other non-metallic mineral products
	26.81	Production of abrasive products
	26.82	Manufacture of other non-metallic mineral products not elsewhere classified
Subsection DJ		MANUFACTURE OF BASIC METALS AND FABRICATED METAL PRODUCTS
27		MANUFACTURE OF BASIC METALS
27.1		Manufacture of basic iron and steel and of ferro-alloys (ECSC)
	27.10	Manufacture of basic iron and steel and of ferro-alloys (ECSC)
27.2		Manufacture of tubes
	27.21	Manufacture of cast iron tubes
	27.22	Manufacture of steel tubes
27.3		Other first processing of iron and steel and production of non-ECSC ferro-alloys
	27.31	Cold drawing
	27.32	Cold rolling of narrow strip
	27.33	Cold forming or folding
	27.34	Wire drawing
	27.35	Other first processing of iron and steel not elsewhere classified; production of non-ECSC ferro-alloys
27.4		Manufacture of basic precious and non-ferrous metals
	27.41	Precious metals production
	27.42	Aluminium production
	27.43	Lead, zinc and tin production
	27.44	Copper production
	27.45	Other non-ferrous metal production
27.5		Casting of metals
	27.51	Casting of iron
	27.52	Casting of steel
	27.53	Casting of light metals
	27.54	Casting of other non-ferrous metals
28		MANUFACTURE OF FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT
28.1		Manufacture of structural metal products
	28.11	Manufacture of metal structures and parts of structures
	28.12	Manufacture of builders' carpentry and joinery of metal
28.2		Manufacture of tanks, reservoirs and containers of metal; manufacture of central heating radiators and boilers
	28.21	Manufacture of tanks, reservoirs and containers of metal
	28.22	Manufacture of central heating radiators and boilers
28.3		Manufacture of steam generators, except central heating hot water boilers
	28.30	Manufacture of steam generators, except central heating hot water boilers
28.4		Forging, pressing, stamping and roll forming of metal; powder metallurgy
	28.40	Forging, pressing, stamping and roll forming of metal; powder

		metallurgy
28.5	28.51 28.52	Treatment and coating of metals; general mechanical engineering Treatment and coating of metals General mechanical engineering
28.6	28.61 28.62 28.63	Manufacture of cutlery, tools and general hardware Manufacture of cutlery Manufacture of tools Manufacture of locks and hinges
28.7	28.71 28.72 28.73 28.74 28.75	Manufacture of other fabricated metal products Manufacture of steel drums and similar containers Manufacture of light metal packaging Manufacture of wire products Manufacture of fasteners, screw machine products, chain and springs Manufacture of other fabricated metal products not elsewhere classified
Subsection DK		MANUFACTURE OF MACHINERY AND EQUIPMENT NOT ELSEWHERE CLASSIFIED
29		MANUFACTURE OF MACHINERY AND EQUIPMENT NOT ELSEWHERE CLASSIFIED
29.1	29.11 29.12 29.13 29.14	Manufacture of machinery for the production and use of mechanical power, except aircraft, vehicle and cycle engines Manufacture of engines and turbines, except aircraft, vehicle and cycle engines Manufacture of pumps and compressors Manufacture of taps and valves Manufacture of bearings, gears, gearing and driving elements
29.2	29.21 29.22 29.23 29.24	Manufacture of other general purpose machinery Manufacture of furnaces and furnace burners Manufacture of lifting and handling equipment Manufacture of non-domestic cooling and ventilation equipment Manufacture of other general purpose machinery not elsewhere classified
29.3	29.31 29.32	Manufacture of agricultural and forestry machinery Manufacture of agricultural tractors Manufacture of other agricultural and forestry machinery
29.4	29.40	Manufacture of machine tools Manufacture of machine tools
29.5	29.51 29.52 29.53 29.54 29.55 29.56	Manufacture of other special purpose machinery Manufacture of machinery for metallurgy Manufacture of machinery for mining, quarrying and construction Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of machinery for paper and paperboard production Manufacture of other special purpose machinery not elsewhere classified
29.6	29.60	Manufacture of weapons and ammunition Manufacture of weapons and ammunition
29.7	29.71 29.72	Manufacture of domestic appliances not elsewhere classified Manufacture of electric domestic appliances Manufacture of non-electric domestic appliances
Subsection DL		MANUFACTURE OF ELECTRICAL AND OPTICAL EQUIPMENT
30		MANUFACTURE OF OFFICE MACHINERY AND COMPUTERS
30.0		Manufacture of office machinery and computers

	30.01	Manufacture of office machinery
	30.02	Manufacture of computers and other information processing equipment
31		MANUFACTURE OF ELECTRICAL MACHINERY AND APPARATUS NOT ELSEWHERE CLASSIFIED
	31.1	Manufacture of electric motors, generators and transformers
	31.10	Manufacture of electric motors, generators and transformers
	31.2	Manufacture of electricity distribution and control apparatus
	31.20	Manufacture of electricity distribution and control apparatus
	31.3	Manufacture of insulated wire and cable
	31.30	Manufacture of insulated wire and cable
	31.4	Manufacture of accumulators, primary cells and primary batteries
	31.40	Manufacture of accumulators, primary cells and primary batteries
	31.5	Manufacture of lighting equipment and electric lamps
	31.50	Manufacture of lighting equipment and electric lamps
	31.6	Manufacture of electrical equipment not elsewhere classified
	31.61	Manufacture of electrical equipment for engines and vehicles not elsewhere classified
	31.62	Manufacture of other electrical equipment not elsewhere classified
32		MANUFACTURE OF RADIO, TELEVISION AND COMMUNICATION EQUIPMENT AND APPARATUS
	32.1	Manufacture of electronic valves and tubes and other electronic components
	32.10	Manufacture of electronic valves and tubes and other electronic components
	32.2	Manufacture of television and radio transmitters and apparatus for line telephony and line telegraphy
	32.20	Manufacture of television and radio transmitters and apparatus for line telephony and line telegraphy
	32.3	Manufacture of television and radio receivers, sound or video recording or reproducing apparatus and associated goods
	32.30	Manufacture of television and radio receivers, sound or video recording or reproducing apparatus and associated goods
33		MANUFACTURE OF MEDICAL, PRECISION AND OPTICAL INSTRUMENTS, WATCHES AND CLOCKS
	33.1	Manufacture of medical and surgical equipment and orthopaedic appliances
	33.10	Manufacture of medical and surgical equipment and orthopaedic appliances
	33.2	Manufacture of instruments and appliances for measuring, checking, testing, navigating and other purposes, except industrial process control equipment
	33.20	Manufacture of instruments and appliances for measuring, checking, testing, navigating and other purposes, except industrial process control equipment
	33.3	Manufacture of industrial process control equipment
	33.30	Manufacture of industrial process control equipment
	33.4	Manufacture of optical instruments and photographic equipment
	33.40	Manufacture of optical instruments and photographic equipment
	33.5	Manufacture of watches and clocks
	33.50	Manufacture of watches and clocks

Subsection DM		MANUFACTURE OF TRANSPORT EQUIPMENT
34		MANUFACTURE OF MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS
34.1	34.10	Manufacture of motor vehicles Manufacture of motor vehicles
34.2	34.20	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
34.3	34.30	Manufacture of parts and accessories for motor vehicles and their engines Manufacture of parts and accessories for motor vehicles and their engines
35		MANUFACTURE OF OTHER TRANSPORT EQUIPMENT
35.1	35.11 35.12	Building and repairing of ships and boats Building and repairing of ships Building and repairing of pleasure and sporting boats
35.2	35.20	Manufacture of railway and tramway locomotives and rolling stock Manufacture of railway and tramway locomotives and rolling stock
35.3	35.30	Manufacture of aircraft and spacecraft Manufacture of aircraft and spacecraft
35.4	35.41 35.42 35.43	Manufacture of motorcycles and bicycles Manufacture of motorcycles Manufacture of bicycles Manufacture of invalid carriages
35.5	35.50	Manufacture of other transport equipment not elsewhere classified Manufacture of other transport equipment not elsewhere classified
Subsection DN		MANUFACTURING NOT ELSEWHERE CLASSIFIED
36		MANUFACTURE OF FURNITURE; MANUFACTURING NOT ELSEWHERE CLASSIFIED
36.1	36.11 36.12 36.13 36.14 36.15	Manufacture of furniture Manufacture of chairs and seats Manufacture of other office and shop furniture Manufacture of other kitchen furniture Manufacture of other furniture Manufacture of mattresses
36.2	36.21 36.22	Manufacture of jewellery and related articles Striking of coins and medals Manufacture of jewellery and related articles not elsewhere classified
36.3	36.30	Manufacture of musical instruments Manufacture of musical instruments
36.4	36.40	Manufacture of sports goods Manufacture of sports goods
36.5	36.50	Manufacture of games and toys Manufacture of games and toys
36.6	36.61 36.62 36.63	Miscellaneous manufacturing not elsewhere classified Manufacture of imitation jewellery Manufacture of brooms and brushes Other manufacturing not elsewhere classified

37		RECYCLING
37.1	37.10	Recycling of metal waste and scrap Recycling of metal waste and scrap
37.2	37.20	Recycling of non-metal waste and scrap Recycling of non-metal waste and scrap
SECTION E		ELECTRICITY, GAS AND WATER SUPPLY
40		ELECTRICITY, GAS, STEAM AND HOT WATER SUPPLY
40.1	40.10	Production and distribution of electricity Production and distribution of electricity
40.2	40.20	Manufacture of gas; distribution of gaseous fuels through mains Manufacture of gas; distribution of gaseous fuels through mains
40.3	40.30	Steam and hot water supply Steam and hot water supply
41		COLLECTION, PURIFICATION AND DISTRIBUTION OF WATER
41.0	41.00	Collection, purification and distribution of water Collection, purification and distribution of water
SECTION F		CONSTRUCTION
45		CONSTRUCTION
45.1	45.11 45.12	Site preparation Demolition and wrecking of buildings; earth moving Test drilling and boring
45.2	45.21 45.22 45.23 45.24 45.25	Building of complete constructions or parts thereof-, civil engineering General construction of buildings and civil engineering works Erection of roof covering and frames Construction of highways, roads, airfields and sport facilities Construction of water projects Other construction work involving special trades
45.3	45.31 45.32 45.33 45.34	Building installation Installation of electrical wiring and fittings Insulation work activities Plumbing Other building installation
45.4	45.41 45.42 45.43 45.44 45.45	Building completion Plastering Joinery installation Floor and wall covering Painting and glazing Other building completion
45.5	45.50	Renting of construction or demolition equipment with operator Renting of construction or demolition equipment with operator
SECTION G		WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES, MOTORCYCLES AND PERSONAL AND HOUSEHOLD GOODS
50		SALE, MAINTENANCE AND REPAIR OF MOTOR VEHICLES AND MOTORCYCLES; RETAIL SALE OF AUTOMOTIVE FUEL
50.1	50.10	Sale of motor vehicles Sale of motor vehicles

50.2	50.20	Maintenance and repair of motor vehicles Maintenance and repair of motor vehicles
50.3	50.30	Sale of motor vehicle parts and accessories Sale of motor vehicle parts and accessories
50.4	50.40	Sale, maintenance and repair of motorcycles and related parts and accessories Sale, maintenance and repair of motorcycles and related parts and accessories
50.5	50.50	Retail sale of automotive fuel Retail sale of automotive fuel
51		WHOLESALE TRADE AND COMMISSION TRADE, EXCEPT OF MOTOR VEHICLES AND MOTORCYCLES
51.1	51.11	Wholesale on a fee or contract basis Agents involved in the sale of agricultural raw materials, live animals, textile raw materials and semi-finished goods
	51.12	Agents involved in the sale of agricultural raw materials, live animals, textile raw materials and semi-finished goods
	51.13	Agents involved in the sale of agricultural raw materials, live animals, textile raw materials and semi-finished goods
	51.14	Agents involved in the sale of machinery, industrial equipment, ships and aircraft
	51.15	Agents involved in the sale of furniture, household goods, hardware and ironmongery
	51.16	Agents involved in the sale of textiles, clothing, footwear and leather goods
	51.17	Agents involved in the sale of food, beverages and tobacco
	51.18	Agents specialising in the sale of particular products or ranges of products not elsewhere classified
	51.19	Agents involved in the sale of a variety of goods
51.2	51.21	Wholesale of agricultural raw materials and live animals
	51.22	Wholesale of grain, seeds and animal feeds
	51.23	Wholesale of flowers and plants
	51.24	Wholesale of live animals
	51.25	Wholesale of hides, skins and leather
	51.25	Wholesale of unmanufactured tobacco
51.3	51.31	Wholesale of food, beverages and tobacco
	51.32	Wholesale of fruit and vegetables
	51.33	Wholesale of meat and meat products
	51.33	Wholesale of dairy produce, eggs and edible oils and fats
	51.34	Wholesale of alcoholic and other beverages
	51.35	Wholesale of tobacco products
	51.36	Wholesale of sugar and chocolate and sugar confectionery
	51.37	Wholesale of coffee, tea, cocoa and spices
	51.38	Wholesale of other food including fish, crustaceans and molluscs
	51.39	Non-specialised wholesale of food, beverages and tobacco
51.4	51.41	Wholesale of household goods
	51.41	Wholesale of textiles
	51.42	Wholesale of clothing and footwear
	51.43	Wholesale of electrical household appliances and radio and television goods
	51.44	Wholesale of china and glassware, wallpaper and cleaning materials
	51.45	Wholesale of perfume and cosmetics
	51.46	Wholesale of pharmaceutical goods
	51.47	Wholesale of other household goods
51.5	51.51	Wholesale of non-agricultural intermediate products, waste and scrap
	51.51	Wholesale of solid, liquid and gaseous fuels and related products
	51.52	Wholesale of metals and metal ores
	51.53	Wholesale of wood, construction materials and sanitary equipment

	51.54	Wholesale of hardware, plumbing and heating equipment and supplies
	51.55	Wholesale of chemical products
	51.56	Wholesale of other intermediate products
	51.57	Wholesale of waste and scrap
51.6		Wholesale of machinery, equipment and supplies
	51.61	Wholesale of machine tools
	51.62	Wholesale of construction machinery
	51.63	Wholesale of machinery for the textile industry, and of sewing and knitting machines
	51.64	Wholesale of office machinery and equipment
	51.65	Wholesale of other machinery for use in industry, trade and navigation
	51.66	Wholesale of agricultural machinery and accessories and implements, including tractors
51.7		Other wholesale
	51.70	Other wholesale
52		RETAIL TRADE, EXCEPT OF MOTOR VEHICLES AND MOTORCYCLES; REPAIR OF PERSONAL AND HOUSEHOLD GOODS
52.1		Retail sale in non-specialised stores
	52.11	Retail sale in non-specialised stores with food, beverages or tobacco predominating
	52.12	Other retail sale in non-specialised stores
52.2		Retail sale of food, beverages and tobacco in specialised stores
	52.21	Retail sale of fruit and vegetables
	52.22	Retail sale of meat and meat products
	52.23	Retail sale of fish, crustaceans and molluscs
	52.24	Retail sale of bread, cakes, flour confectionery and sugar confectionery
	52.25	Retail sale of alcoholic and other beverages
	52.26	Retail sale of tobacco products
	52.27	Other retail sale of food, beverages and tobacco in specialised stores
52.3		Retail sale of pharmaceutical and medical goods, cosmetic and toilet articles
	52.31	Dispensing chemists
	52.32	Retail sale of medical and orthopaedic goods
	52.33	Retail sale of cosmetic and toilet articles
52.4		Other retail sale of new goods in specialised stores
	52.41	Retail sale of textiles
	52.42	Retail sale of clothing
	52.43	Retail sale of footwear and leather goods
	52.44	Retail sale of furniture, lighting equipment and household articles not elsewhere classified
	52.45	Retail sale of electrical household appliances and radio and television goods
	52.46	Retail sale of hardware, paints and glass
	52.47	Retail sale of books, newspapers and stationery
	52.48	Other retail sale in specialised stores
52.5		Retail sale of second-hand goods in stores
	52.50	Retail sale of second-hand goods in stores
52.6		Retail sale not in stores
	52.61	Retail sale via mail order houses
	52.62	Retail sale via stalls and markets
	52.63	Other non-store retail sale
52.7		Repair of personal and household goods
	52.71	Repair of boots, shoes and other articles of leather
	52.72	Repair of electrical household goods

	52.73	Repair of watches, clocks and jewellery
	52.74	Repair not elsewhere classified
SECTION H		HOTELS AND RESTAURANTS
55		HOTELS AND RESTAURANTS
55.1		Hotels
	55.11	Hotels and motels, with restaurant
	55.12	Hotels and motels, without restaurant
55.2		Camping sites and other provision of short-stay accommodation
	55.21	Youth hostels and mountain refuges
	55.22	Camping sites, including caravan sites
	55.23	Other provision of lodgings not elsewhere classified
55.3		Restaurants
	55.30	Restaurants
55.4		Bars
	55.40	Bars
55.5		Canteens and catering
	55.51	Canteens
	55.52	Catering
SECTION I		TRANSPORT, STORAGE AND COMMUNICATION
60		LAND TRANSPORT; TRANSPORT VIA PIPELINES
60.1		Transport via railways
	60.10	Transport via railways
60.2		Other land transport
	60.21	Other scheduled passenger land transport
	60.22	Taxi operation
	60.23	Other passenger land transport
	60.24	Freight transport by road
60.3		Transport via pipelines
	60.30	Transport via pipelines
61		WATER TRANSPORT
61.1		Sea and coastal water transport
	61.10	Sea and coastal water transport
61.2		Inland water transport
	61.20	Inland water transport
62		AIR TRANSPORT
62.1		Scheduled air transport
	62.10	Scheduled air transport
62.2		Non-scheduled air transport
	62.20	Non-scheduled air transport
62.3		Space transport
	62.30	Space transport
63		SUPPORTING AND AUXILIARY TRANSPORT ACTIVITIES; ACTIVITIES OF TRAVEL AGENCIES
63.1		Cargo handling and storage
	63.11	Cargo handling
	63.12	Storage and warehousing
63.2		Other supporting transport activities

	63.21	Other supporting land transport activities
	63.22	Other supporting water transport activities
	63.23	Other supporting air transport activities
63.3		Activities of travel agencies and tour operators; tourist assistance activities not elsewhere classified
	63.30	Activities of travel agencies and tour operators; tourist assistance activities not elsewhere classified
63.4		Activities of other transport agencies
	63.40	Activities of other transport agencies
64		POST AND TELECOMMUNICATIONS
64.1		Post and courier activities
	64.11	National post activities
	64.12	Courier activities other than national post activities
64.2		Telecommunications
	64.20	Telecommunications
SECTION J		FINANCIAL INTERMEDIATION
65		FINANCIAL INTERMEDIATION, EXCEPT INSURANCE AND PENSION FUNDING
65.1		Monetary intermediation
	65.11	Central banking
	65.12	Other monetary intermediation
65.2		Other financial intermediation
	65.21	Financial leasing
	65.22	Other credit granting
	65.23	Other financial intermediation not elsewhere classified
66		INSURANCE AND PENSION FUNDING, EXCEPT COMPULSORY SOCIAL SECURITY
66.0		Insurance and pension funding, except compulsory social security
	66.01	Life insurance
	66.02	Pension funding
	66.03	Non-life insurance
67		ACTIVITIES AUXILIARY TO FINANCIAL INTERMEDIATION
67.1		Activities auxiliary to financial intermediation, except insurance and pension funding
	67.11	Administration of financial markets
	67.12	Security broking and fund management
	67.13	Activities auxiliary to financial intermediation not elsewhere classified
67.2		Activities auxiliary to insurance and pension funding
	67.20	Activities auxiliary to insurance and pension funding
SECTION K		REAL ESTATE, RENTING AND BUSINESS ACTIVITIES
70		REAL ESTATE ACTIVITIES
70.1		Real estate activities with own property
	70.11	Development and selling of real estate
	70.12	Buying and selling of own real estate
70.2		Letting of own property
	70.20	Letting of own property
70.3		Real estate activities on a fee or contract basis
	70.31	Real estate agencies
	70.32	Management of real estate on a fee or contract basis

71		RENTING OF MACHINERY AND EQUIPMENT WITHOUT OPERATOR AND OF PERSONAL AND HOUSEHOLD GOODS
71.1	71.10	Renting of automobiles Renting of automobiles
71.2	71.21 71.22 71.23	Renting of other transport equipment Renting of other land transport equipment Renting of water transport equipment Renting of air transport equipment
71.3	71.31 71.32 71.33 71.34	Renting of other machinery and equipment Renting of agricultural machinery and equipment Renting of construction and civil engineering machinery and equipment Renting of office machinery and equipment including computers Renting of other machinery and equipment not elsewhere classified
71.4	71.40	Renting of personal and household goods not elsewhere classified Renting of personal and household goods not elsewhere classified
72		COMPUTER AND RELATED ACTIVITIES
72.1	72.10	Hardware consultancy Hardware consultancy
72.2	72.20	Software consultancy and supply Software consultancy and supply
72.3	72.30	Data processing Data processing
72.4	72.40	Data base activities Data base activities
72.5	72.50	Maintenance and repair of office, accounting and computing machinery Maintenance and repair of office, accounting and computing machinery
72.6	72.60	Other computer related activities Other computer related activities
73		RESEARCH AND DEVELOPMENT
73.1	73.10	Research and experimental development on natural sciences and engineering Research and experimental development on natural sciences and engineering
73.2	73.20	Research and experimental development on social sciences and humanities Research and experimental development on social sciences and humanities
74		OTHER BUSINESS ACTIVITIES
74.1	74.11 74.12 74.13 74.14 74.15	Legal, accounting, book-keeping and auditing activities; tax consultancy; market research and public opinion polling; business and management consultancy; holdings Legal activities Accounting, book-keeping and auditing activities; tax consultancy Market research and public opinion polling Business and management consultancy activities Management activities of holding companies
74.2		Architectural and engineering activities and related technical

	74.20	consultancy Architectural and engineering activities and related technical consultancy
74.3	74.30	Technical testing and analysis Technical testing and analysis
74.4	74.40	Advertising Advertising
74.5	74.50	Labour recruitment and provision of personnel Labour recruitment and provision of personnel
74.6	74.60	Investigation and security activities Investigation and security activities
74.7	74.70	Industrial cleaning Industrial cleaning
74.8	74.81 74.82 74.83 74.84	Miscellaneous business activities not elsewhere classified Photographic activities Packaging activities Secretarial and translation activities Other business activities not elsewhere classified
SECTION L		PUBLIC ADMINISTRATION AND DEFENCE; COMPULSORY SOCIAL SECURITY
75		PUBLIC ADMINISTRATION AND DEFENCE; COMPULSORY SOCIAL SECURITY
75.1	75.11 75.12 75.13 75.14	Administration of the State and the economic and social policy of the community General (overall) public service activities Regulation of the activities of agencies that provide health care, education, cultural services and other social services excluding social security Regulation of and contribution to more efficient operation of business Supporting service activities for the government as a whole
75.2	75.21 75.22 75.23 75.24 75.25	Provision of services to the community as a whole Foreign affairs Defence activities Justice and judicial activities Public security, law and order activities Fire service activities
75.3	75.30	Compulsory social security activities Compulsory social security activities
SECTION M		EDUCATION
80		EDUCATION
80.1	80.10	Primary education Primary education
80.2	80.21 80.22	Secondary education General secondary education Technical and vocational secondary education
80.3	80.30	Higher education Higher education
80.4	80.41 80.42	Adult and other education Driving school activities Adult and other education not elsewhere classified

SECTION N		HEALTH AND SOCIAL WORK
85		HEALTH AND SOCIAL WORK
85.1		Human health activities
	85.11	Hospital activities
	85.12	Medical practice activities
	85.13	Dental practice activities
	85.14	Other human health activities
85.2		Veterinary activities
	85.20	Veterinary activities
85.3		Social work activities
	85.31	Social work activities with accommodation
	85.32	Social work activities without accommodation
SECTION O		OTHER COMMUNITY, SOCIAL AND PERSONAL SERVICE ACTIVITIES
90		SEWAGE AND REFUSE DISPOSAL, SANITATION AND SIMILAR ACTIVITIES
90.0		Sewage and refuse disposal, sanitation and similar activities
	90.00	Sewage and refuse disposal, sanitation and similar activities
91		ACTIVITIES OF MEMBERSHIP ORGANISATIONS NOT ELSEWHERE CLASSIFIED
91.1		Activities of business, employers and professional organisations
	91.11	Activities of business and employers organisations
	91.12	Activities of professional organisations
91.2		Activities of trade unions
	91.20	Activities of trade unions
91.3		Activities of other membership organisations
	91.31	Activities of religious organisations
	91.32	Activities of political organisations
	91.33	Activities of other membership organisations not elsewhere classified
92		RECREATIONAL, CULTURAL AND SPORTING ACTIVITIES
92.1		Motion picture and video activities
	92.11	Motion picture and video production
	92.12	Motion picture and video production
	92.13	Motion picture projection
92.2		Radio and television activities
	92.20	Radio and television activities
92.3		Other entertainment activities
	92.31	Artistic and literary creation and interpretation
	92.32	Operation of arts facilities
	92.33	Fair and amusement park activities
	92.34	Other entertainment activities not elsewhere classified
92.4		News agency activities
	92.40	News agency activities
92.5		Library, archives, museums and other cultural activities
	92.51	Library and archives activities
	92.52	Museum activities and preservation of historical sites and buildings
	92.53	Botanical and zoological gardens and nature reserves activities
92.6		Sporting activities
	92.61	Operation of sports arenas and stadiums
	92.62	Other sporting activities

92.7		Other recreational activities
	92.71	Gambling and betting activities
	92.72	Other recreational activities not elsewhere classified
93		OTHER SERVICE ACTIVITIES
93.0		Other service activities
	93.01	Washing and dry cleaning of textile and fur products
	93.02	Hairdressing and other beauty treatment
	93.03	Funeral and related activities
	93.04	Physical well-being activities
	93.05	Other service activities not elsewhere classified
SECTION P		PRIVATE HOUSEHOLDS WITH EMPLOYED PERSONS
95		PRIVATE HOUSEHOLDS WITH EMPLOYED PERSONS
95.0		Private households with employed persons
	95.00	Private households with employed persons
SECTION Q		EXTRA-TERRITORIAL ORGANISATIONS AND BODIES
99		EXTRA-TERRITORIAL ORGANISATIONS AND BODIES
99.0		Extra-territorial organisations and bodies
	99.00	Extra-territorial organisations and bodies

3.9. Standard Occupational Classification 1990 (SOC)

Available at all waves

Occupational coding was carried out using the CASOC system. See Section on Sampling and Survey Methods for more details.

The *Standard Occupational Classification 1990* (SOC) is broken down into 3 areas; the *major groups*, the *minor groups* and the constituent *unit groups*. At the most detailed level of classification 374 unit groups are distinguished, each with a 3 digit classification. Each occupation unit group is allocated to a minor group (two digit), of which there are 77 and a major group (one digit) of which there are 9. The major group structure is a set of broad occupational categories which are designed be useful in bringing together unit groups which are similar in terms of the qualifications, training, skills and experience.

In the 3 digit unit group codes, the first digit denotes the major group classification in which it is contained. The first 2 digits of the unit group codes denote the minor group classification.

Source: *Quarterly Labour Force Survey, March-May 1992: User Guide*, September 1992.

1: MAJOR GROUPS

- 1 Managers & administrators
- 2 Professional occupations
- 3 Associate professional & technical occupations
- 4 Clerical & secretarial occupations
- 5 Craft & related occupations
- 6 Personal & protective service occupations
- 7 Sales occupations
- 8 Plant & machine operatives
- 9 Other occupations

2: MINOR GROUPS²

- 10 General managers & administrators in national & local Government, large companies & organisations
- 11 Production managers in manufacturing, construction, mining & energy industries
- 12 Specialist managers
- 13 Financial institution & office managers, civil service executive officers
- 14 Managers in transport & storing
- 15 Protective service officers
- 16 Managers in farming, horticulture, forestry & fishing
- 17 Managers & proprietors in service industries
- 19 Managers & administrators nec
- 20 Natural scientists
- 21 Engineers & technologists
- 22 Health professionals
- 23 Teaching professionals
- 24 Legal professionals
- 25 Business & financial professionals
- 26 Architects, town planners & surveyors
- 27 Librarians & related professionals
- 29 Professional occupations nec
- 30 Scientific technicians
- 31 Draftspersons, quantity & other surveyors
- 32 Computer analyst/programmers
- 33 Ship & aircraft officers, air traffic planners & controllers

2. In the following, "nec" means "not elsewhere classified".

34	Health associate professionals
35	Legal associate professionals
36	Business & financial associate professionals
37	Social welfare associate professionals
39	Associate professional & technical occupations nec
40	Administrative/clerical officers & assistants in civil service & local government
41	Numerical clerks & cashiers
42	Filing & records clerks
43	Clerks (not otherwise specified)
44	Stores & despatch clerks, storekeepers
45	Secretaries, personal assistants, typists, word processor operators
46	Receptionists, telephonists & related occupations
49	Clerical & secretarial occupations nec
50	Construction trades
51	Metal machining, fitting & instrument making trades
52	Electrical/electronic trades
53	Metal forming, welding & related trades
54	Vehicle trades
55	Textiles, garments & related trades
56	Printing & related trades
57	Woodworking trades
58	Food preparation trades
59	Other craft & related occupations nec
60	NCOs & other ranks, armed forces
61	Security & protective service occupations
62	Catering occupations
63	Travel attendants & related occupations
64	Health & related occupations
65	Childcare & related occupations
66	Hairdressers, beauticians & related occupations
67	Domestic staff & related occupations
69	Personal & protective service occupations nec
70	Buyers, brokers & related agents
71	Sales representatives
72	Sales assistants & check-out operators
73	Mobile market & door-to-door salespersons & agents
79	Sales occupations nec
80	Food, drink & tobacco process operatives
81	Textiles & tannery process operatives
82	Chemicals, paper, plastics & related process operatives
83	Metal making & treating process operatives
84	Metal working process operatives
85	Assemblers/lineworkers
86	Other routine process operatives
87	Road transport operatives
88	Other transport & machinery operatives
89	Plant & machine operatives nec
90	Other occupations in agriculture, forestry & fishing
91	Other occupations in mining & manufacture
92	Other occupations in construction
93	Other occupations in transport
94	Other occupations in communication
95	Other occupations in sales & service
99	Other occupations nec

3: UNIT GROUPS

- 100 General administrators; nation government (Assistant Secretary/Grade 5 & above)
- 101 General managers;large companies & organisations
- 102 Local government officers (administrative & executive functions)
- 103 General administrators; national government (HEO to Senior Principal/Grade 6)
- 110 Production, works & maintenance managers
- 111 Managers in building & contracting
- 112 Clerks of works
- 113 Managers in mining & energy industries
- 120 Treasurers & company financial managers
- 121 Marketing & sales managers
- 122 Purchasing managers
- 123 Advertising & public relations managers
- 124 Personnel, training & industrial relations managers
- 125 Organisation & methods & work study managers
- 126 Computer systems & data processing managers
- 127 Company secretaries
- 130 Credit controllers
- 131 Bank, Building Society & Post Office managers (except self-employed)
- 132 Civil Service executive officers
- 139 Other financial institution & office managers nec
- 140 Transport managers
- 141 Stores controllers
- 142 Managers in warehousing & other materials handling
- 150 officers in UK armed forces
- 151 Officers in foreign & Commonwealth armed forces
- 152 Police officers (inspector & above)
- 153 Fire service officers (station officer & above)
- 154 Prison officers (principal officer 7 above)
- 155 Customs & excise, immigration service officers (customs: chief preventive officer & above; excise: surveyor & above)
- 160 Farm owners & managers, horticulturists
- 169 Other managers in farming, horticulture, forestry & fishing nec
- 170 Property & estate managers
- 171 Garage managers & proprietors
- 172 Hairdressers' & barbers' managers & proprietors
- 173 Hotel & accommodation managers
- 174 Restaurant & catering managers
- 175 Publicans, innkeepers & club stewards
- 176 Entertainment & sports managers
- 177 Travel agency managers
- 178 Managers & proprietors of butchers & fishmongers
- 179 Managers & proprietors in service industries nec
- 190 Officials of trade associations, trade unions, professional bodies & charities
- 191 Registrars & administrators of educational establishments
- 199 Other managers & administrators nec
- 200 Chemists
- 201 Biological scientists & biochemists
- 202 Physicists, geologists & meteorologists
- 209 Other natural scientists nec
- 210 Civil, structural, municipal, mining & quarry engineers
- 211 mechanical engineers
- 212 Electrical engineers
- 213 Electronic engineers
- 214 Software engineers
- 215 Chemical engineers
- 216 Design & development engineers
- 217 Process & production engineers
- 218 Planning & quality control engineers

219	Other engineers & technologists nec
220	Medical practitioners
221	Pharmacists/pharmacologists
222	Ophthalmic opticians
223	Dental practitioners
224	Veterinarians
230	University & polytechnic teaching professionals
231	Higher & further education teaching professionals
232	Education officers, school inspectors
233	Secondary (& middle school deemed secondary) education teaching professionals
234	Primary (& middle school deemed primary) & nursery education teaching professionals
235	Special education teaching professionals
239	Other teaching professionals nec
240	Judges & officers of the court
241	Barristers & advocates
242	Solicitors
250	Chartered & certified accountants
251	Management accountants
252	Actuaries, economists & statisticians
253	Management consultants, business analysts
260	Architects
261	Town planners
262	Building, land, mining & 'general practice' surveyors
270	Librarians
271	Archivists & curators
290	Psychologists
291	Other social & behavioural scientists
292	Clergy
293	Social workers, probation officers
300	Laboratory technicians
301	Engineering technicians
302	Electrical/electronic technicians
303	Architectural & town planning technicians
304	Building & civil engineering technicians
309	Other scientific technicians nec
310	Draughtspersons
311	Building inspectors
312	Quantity surveyors
313	Marine, insurance & other surveyors
320	Computer analyst/programmers
330	Air traffic planners & controllers
331	Aircraft flight deck officers
332	Ship & hovercraft officers
340	Nurses
341	Midwives
342	Medical radiographers
343	Physiotherapists
344	Chiroprodists
345	Dispensing opticians
346	Medical technicians, dental auxiliaries
347	Occupational & speech therapists, psychotherapists, therapists nec
348	Environmental health officers
349	Other health associate professionals nec
350	Legal service & related occupations
360	Estimators, valuers
361	Underwriters, claims assessors, brokers, investment analysts
362	Taxation experts
363	Personnel & industrial relations officers
364	Organisation & methods & work study officers
370	Matrons, houseparents
371	Welfare, community & youth workers
380	Authors, writers, journalists

381	Artists, commercial artists, graphic designers
382	Industrial designers
383	Clothing designers
384	Actors, entertainers, stage managers, producers & directors
385	Musicians
386	Photographers, camera, sound and video equipment operators
387	Professional athletes, sports officials
390	Information officers
391	Vocational & industrial trainers
392	Careers advisers & vocational guidance specialists
393	Driving instructors (excluding HGV)
394	Inspectors of factories, utilities & trading standards
395	Other statutory & similar inspectors nec
396	Occupational hygienists & safety officers (health & safety)
399	Other associate professional & technical occupations nec
400	Civil Service administrative officers & assistants
401	Local government clerical officers & assistants
410	Accounts & wages clerks, book-keepers, other financial clerks
411	Counter clerks & cashiers
412	Debt, rent & other cash collectors
420	Filing, computer & other records clerks (inc. legal conveyancing)
421	Library assistants/clerks
430	Clerks (nec)
440	Stores, despatch & production control clerks
441	Storekeepers & warehousemen/women
450	Medical secretaries
451	Legal secretaries
452	Typists & word processor operators
459	Other secretaries, personal assistants, typists, word processor operators nec
460	Receptionists
461	Receptionist/telephonists
462	Telephone operators
463	Radio & telegraph operators, other office communication system operators
490	Computer operators, data processing operators, other office machine operators
491	Tracers, drawing office assistants
500	Bricklayers, masons
501	Roofers, slaters, tilers, sheeters, cladders
502	Plasterers
503	Glaziers
504	Builders, building contractors
505	Scaffolders, staggers, steeplejacks, riggers
506	Floorers, floor coverers, carpet fitters & planners, floor & wall tilers
507	Painters & decorators
509	Other construction trades nec
510	Centre, capstan, turret & other lathe setters & setter-operators
511	Boring & drilling machine setters & setter-operators
512	Grinding machine setters & setter-operators
513	Milling machine setters & setter-operators
514	Press setters & setter-operators
515	Tool makers, tool fitters & markers-out
516	Metal working production & maintenance fitters
517	Precision instrument makers & repairers
518	Goldsmiths, silversmiths, precious stone workers
519	Other machine tool setters & setter-operators nec (inc CNC setter-operators)
520	Production fitters (electrical/electronic)
521	Electricians, electrical maintenance fitters
522	Electrical engineers (not professional)
523	Telephone fitters
524	Cable jointers, lines repairers
525	Radio, TV & video engineers
526	Computer engineers, installation & maintenance
529	Other electrical/electronic trades nec

530	Smiths & forge workers
531	Moulders, core makers, die casters
532	Plumbers, heating & ventilating engineers & related trades
533	Sheet metal workers
534	Metal plate workers, shipwrights, riveters
535	Steel erectors
536	Barbenders, steel fixers
537	Welding trades
540	Motor mechanics, auto engineers (inc. road patrol engineers)
541	Coach & vehicle body builders
542	Vehicle body repairers, panel beaters
543	Auto electricians
544	Tyre & exhaust fitters
550	Weavers
551	Knitters
552	Warp preparers, bleachers, dyers & finishers
553	Sewing machinists, menders, darners & embroiderers
554	Coach trimmers, upholsterers & mattress makers
555	Shoe repairers, leather cutters & sewers, footwear lasters, makers & finishers, other leather making & repairing
556	Tailors & dressmakers
557	Clothing cutters, milliners, furriers
559	Other textiles, garments & related trades nec
560	Originators, compositors & print preparers
561	Printers
562	Bookbinders & print finishers
563	Screen printers
569	Other printing & related trades nec
570	Carpenters & joiners
571	Cabinet makers
572	Case & box makers
573	Pattern makers (moulds)
579	Other woodworking trades nec
580	Bakers, flour confectioners
581	Butchers, meat cutters
582	Fishmongers, poultry dressers
590	Glass product & ceramics makers
591	Glass product & ceramics finishers & decorators
592	Dental technicians
593	Musical instrument makers, piano tuners
594	Gardeners, groundsmen/groundswomen
595	horticultural trades
596	Coach painters, other spray painters
597	Face trained coalmining workers, shotfirers & deputies
598	Other machinery mechanics
599	Other craft & related occupations nec
600	NCOs & other ranks, UK armed forces
601	NCOs & other ranks, foreign & Commonwealth armed forces
610	Police officers (sergeant & below)
611	Fire service officers (leading fire officer & below)
612	Prison service officers (below principal officer)
613	Customs & excise officers, immigration officers (customs: below chief preventive officer; excise: below surveyor)
614	Traffic wardens
615	Security guards & related occupations
619	Other security & protective service occupations nec
620	Chefs, cooks
621	Waiters, waitresses
622	Bar staff
630	Travel & flight attendants
631	Railway station staff
640	Assistant nurses, nursing auxiliaries

641	Hospital ward assistants
642	Ambulance staff
643	Dental nurses
644	Care assistants & attendants
650	Nursery nurses
651	Playgroup leaders
652	Educational assistants
659	Other childcare & related occupations nec
660	Hairdressers, barbers
661	Beauticians & related occupations
670	Domestic housekeepers & related occupations
671	Housekeepers (non domestic)
672	Caretakers
673	Launderers, dry cleaners, pressers
690	Undertakers
691	Bookmakers
699	Other personal & protective service occupations nec
700	Buyers (retail trade)
701	Buyers & purchasing officers (not retail)
702	Importers & exporters
703	Air, commodity & ship brokers
710	Technical & wholesale sales representatives
719	Other sales representatives nec
720	Sales assistants
721	Retail cash desk & check-out operators
722	Petrol pump forecourt attendants
730	Collector salespersons & credit agents
731	Roundsmen/women & van salespersons
732	Market & street traders & assistants
733	Scrap dealers, scrap metal merchants
790	Merchandisers
791	Window dressers, floral arrangers
792	Telephone salespersons
800	Bakery & confectionery process operatives
801	Brewery & vinery process operatives
802	Tobacco process operatives
809	Other food, drink & tobacco process operatives nec
810	Tannery production operatives
811	Preparatory fibre processors
812	Spinners, doublers, twisters
813	Winders, reelers
814	Other textiles processing operatives
820	Chemical, gas & petroleum process plant operatives
821	Paper, wood & related process plant operatives
822	Cutting & slitting machine operatives (paper products etc)
823	Glass & ceramics furnace operatives, kilnsetters
824	Rubber process operatives, moulding machine operatives, tyre builders
825	Plastics process operatives, moulders & extruders
826	Synthetic fibre makers
829	Other chemicals, paper, plastics & related process operatives nec
830	Furnace operatives (metal)
831	Metal drawers
832	Rollers
833	Annealers, hardeners, temperers (metal)
834	Electroplaters, galvanisers, colour coaters
839	Other metal making & treating process operatives nec
840	Machine tool operatives (inc CNC machine tool operatives)
841	Press stamping & automatic machine operatives
842	Metal polishers
843	Metal dressing operatives
844	Shot blasters
850	Assemblers/lineworkers (electrical/electronic goods)

851	Assemblers/lineworkers (vehicles & other metal goods)
859	Other assemblers/lineworkers nec
860	Inspectors, viewers & testers (metal & electrical goods)
861	Inspectors, viewers, testers & examiners (other manufactured goods)
862	Packers, bottlers, canners, fillers
863	Weighers, graders, sorters
864	Routine laboratory testers
869	Other routine process operatives nec
870	Bus inspectors
871	Road transport depot inspectors & related occupations
872	Drivers of road goods vehicles
873	Bus & coach drivers
874	Taxi, cab drivers & chauffeurs
875	Bus conductors
880	Seafarers (merchant navy); barge, lighter & boat operatives
881	Rail transport inspectors, supervisors & guards
882	Rail engine drivers & assistants
883	Rail signal operatives & crossing keepers
884	Shunters & points operatives
885	Mechanical plant drivers & operatives (earth moving & civil engineering)
886	Crane drivers
887	Fork lift & mechanical truck drivers
889	Other transport & machinery operatives nec
890	Washers, screeners & crushers in mines & quarries
891	Printing machine minders & assistants
892	Water & sewerage plant attendants
893	Electrical, energy, boiler & related plant operatives & attendants
894	Oilers, greasers, lubricators
895	Mains & service pipe layers, pipe jointers
896	Construction & related operatives
897	Woodworking machine operatives
898	Mine (excluding coal) & quarry workers
899	Other plant & machine operatives nec
900	Farm workers
901	Agricultural machinery drivers & operatives
902	All other occupations in farming & related
903	Fishing & related workers
904	Forestry workers
910	Coal mine labourers
911	Labourers in foundries
912	Labourers in engineering & allied trades
913	Mates to metal/electrical & related fitters
919	Other labourers in making & processing industries nec
920	Mates to woodworking trades workers
921	Mates to building trades workers
922	Rail construction & maintenance workers
923	Road construction & maintenance workers
924	Paviors, kerb layers
929	Other building & civil engineering labourers nec
930	Stevedores, dockers
931	Goods porters
932	Slingers
933	Refuse & salvage collectors
934	Driver's mates
940	Postal workers, mail sorters
941	Messengers, couriers
950	Hospital porters
951	Hotel porters
952	Kitchen porters, hands
953	Counterhands, catering assistants
954	Shelf fillers
955	Lift & car park attendants

956	Window cleaners
957	Road sweepers
958	Cleaners, domestics
959	Other occupations in sales & services nec
990	All other labourers & related workers
999	All others in miscellaneous occupations nec

3.10. Standard Occupational Classification 2000 (SOC2000)

Used from Wave 11 onwards

Standard Occupational Classification 2000 (SOC2000)

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Summary of Structure

The Standard Occupational Classification consists of the following major groups:

- 1 Managers and Senior Officials
- 2 Professional Occupations
- 3 Associate Professional and Technical Occupations
- 4 Administrative and Secretarial Occupations
- 5 Skilled Trades Occupations
- 6 Personal Service Occupations
- 7 Sales and Customer Service Occupations
- 8 Process, Plant and Machine Operatives
- 9 Elementary Occupations

The sub-major, minor group and unit group structure of these major groups is defined as follows:

Major Group	Sub-Major Group	Minor Group	Unit Group	Group Title
1				MANAGERS AND SENIOR OFFICIALS
	11			CORPORATE MANAGERS
		111		Corporate Managers And Senior Officials
			1111	Senior officials in national government
			1112	Directors and chief executives of major organisations
			1113	Senior officials in local government
			1114	Senior officials of special interest organisations
		112		Production Managers
			1121	Production, works and maintenance managers
			1122	Managers in construction
			1123	Managers in mining and energy
		113		Functional Managers
			1131	Financial managers and chartered secretaries
			1132	Marketing and sales managers
			1133	Purchasing managers
			1134	Advertising and public relations managers
			1135	Personnel, training and industrial relations managers
			1136	Information and communication technology managers
			1137	Research and development managers

114	Quality And Customer Care Managers
	1141 Quality assurance managers
	1142 Customer care managers
115	Financial Institution And Office Managers
	1151 Financial institution managers
	1152 Office managers
116	Managers In Distribution, Storage And Retailing
	1161 Transport and distribution managers
	1162 Storage and warehouse managers
	1163 Retail and wholesale managers
117	Protective Service Officers
	1171 Officers in armed forces
	1172 Police officers (inspectors and above)
	1173 Senior officers in fire, ambulance, prison and related services
	1174 Security managers
118	Health And Social Services Managers
	1181 Hospital and health service managers
	1182 Pharmacy managers
	1183 Healthcare practice managers
	1184 Social services managers
	1185 Residential and day care managers
12	MANAGERS AND PROPRIETORS IN AGRICULTURE AND SERVICES
121	Managers In Farming, Horticulture, Forestry And Fishing
	1211 Farm managers
	1212 Natural environment and conservation managers
	1219 Managers in animal husbandry, forestry and fishing n.e.c.
122	Managers And Proprietors In Hospitality And Leisure Services
	1221 Hotel and accommodation managers
	1222 Conference and exhibition managers
	1223 Restaurant and catering managers
	1224 Publicans and managers of licensed premises
	1225 Leisure and sports managers
	1226 Travel agency managers
123	Managers And Proprietors In Other Service Industries
	1231 Property, housing and land managers
	1232 Garage managers and proprietors
	1233 Hairdressing and beauty salon managers and proprietors
	1234 Shopkeepers and wholesale/retail dealers
	1235 Recycling and refuse disposal managers
	1239 Managers and proprietors in other services n.e.c.

Major Group	Sub-Major Group	Minor Group	Unit Group	Group Title
2				PROFESSIONAL OCCUPATIONS
	21			SCIENCE AND TECHNOLOGY PROFESSIONALS
		211		Science Professionals
			2111	Chemists
			2112	Biological scientists and biochemists
			2113	Physicists, geologists and meteorologists
		212		Engineering Professionals
			2121	Civil engineers
			2122	Mechanical engineers
			2123	Electrical engineers
			2124	Electronics engineers
			2125	Chemical engineers
			2126	Design and development engineers
			2127	Production and process engineers
			2128	Planning and quality control engineers
			2129	Engineering professionals n.e.c.
		213		Information And Communication Technology Professionals
			2131	IT strategy and planning professionals
			2132	Software professionals
	22			HEALTH PROFESSIONALS
		221		Health Professionals
			2211	Medical practitioners
			2212	Psychologists
			2213	Pharmacists/pharmacologists
			2214	Ophthalmic opticians
			2215	Dental practitioners
			2216	Veterinarians
	23			TEACHING AND RESEARCH PROFESSIONALS
		231		Teaching Professionals
			2311	Higher education teaching professionals
			2312	Further education teaching professionals
			2313	Education officers, school inspectors
			2314	Secondary education teaching professionals
			2315	Primary and nursery education teaching professionals
			2316	Special needs education teaching professionals
			2317	Registrars and senior administrators of educational establishments
			2319	Teaching professionals n.e.c.
		232		Research Professionals
			2321	Scientific researchers
			2322	Social science researchers
			2329	Researchers n.e.c.

24		BUSINESS AND PUBLIC SERVICE PROFESSIONALS
	241	Legal Professionals
	2411	Solicitors and lawyers, judges and coroners
	2419	Legal professionals n.e.c.
	242	Business And Statistical Professionals
	2421	Chartered and certified accountants
	2422	Management accountants
	2423	Management consultants, actuaries, economists and statisticians
	243	Architects, Town Planners, Surveyors
	2431	Architects
	2432	Town planners
	2433	Quantity surveyors
	2434	Chartered surveyors (not quantity surveyors)
	244	Public Service Professionals
	2441	Public service administrative professionals
	2442	Social workers
	2443	Probation officers
	2444	Clergy
	245	Librarians And Related Professionals
	2451	Librarians
	2452	Archivists and curators

Major Group	Sub-Major Group	Minor Group	Unit Group	Group Title
3				ASSOCIATE PROFESSIONAL AND TECHNICAL OCCUPATIONS
	31			SCIENCE AND TECHNOLOGY ASSOCIATE PROFESSIONALS
		311		Science And Engineering Technicians
			3111	Laboratory technicians
			3112	Electrical/electronics technicians
			3113	Engineering technicians
			3114	Building and civil engineering technicians
			3115	Quality assurance technicians
			3119	Science and engineering technicians n.e.c.
		312		Draughtspersons And Building Inspectors
			3121	Architectural technologists and town planning technicians
			3122	Draughtspersons
			3123	Building inspectors
		313		IT Service Delivery Occupations
			3131	IT operations technicians
			3132	IT user support technicians
	32			HEALTH AND SOCIAL WELFARE ASSOCIATE PROFESSIONALS
		321		Health Associate Professionals
			3211	Nurses
			3212	Midwives
			3213	Paramedics
			3214	Medical radiographers
			3215	Chiropodists
			3216	Dispensing opticians
			3217	Pharmaceutical dispensers
			3218	Medical and dental technicians
		322		Therapists
			3221	Physiotherapists
			3222	Occupational therapists
			3223	Speech and language therapists
			3229	Therapists n.e.c.
		323		Social Welfare Associate Professionals
			3231	Youth and community workers
			3232	Housing and welfare officers
	33			PROTECTIVE SERVICE OCCUPATIONS
		331		Protective Service Occupations
			3311	NCOs and other ranks
			3312	Police officers (sergeant and below)
			3313	Fire service officers (leading fire officer and below)

	3314	Prison service officers (below principal officer)
	3319	Protective service associate professionals n.e.c.
34		CULTURE, MEDIA AND SPORTS OCCUPATIONS
	341	Artistic And Literary Occupations
	3411	Artists
	3412	Authors, writers
	3413	Actors, entertainers
	3414	Dancers and choreographers
	3415	Musicians
	3416	Arts officers, producers and directors
	342	Design Associate Professionals
	3421	Graphic designers
	3422	Product, clothing and related designers
	343	Media Associate Professionals
	3431	Journalists, newspaper and periodical editors
	3432	Broadcasting associate professionals
	3433	Public relations officers
	3434	Photographers and audio-visual equipment operators
	344	Sports And Fitness Occupations
	3441	Sports players
	3442	Sports coaches, instructors and officials
	3443	Fitness instructors
	3449	Sports and fitness occupations n.e.c.
35		BUSINESS AND PUBLIC SERVICE ASSOCIATE PROFESSIONALS
	351	Transport Associate Professionals
	3511	Air traffic controllers
	3512	Aircraft pilots and flight engineers
	3513	Ship and hovercraft officers
	3514	Train drivers
	352	Legal Associate Professionals
	3520	Legal associate professionals
	353	Business And Finance Associate Professionals
	3531	Estimators, valuers and assessors
	3532	Brokers
	3533	Insurance underwriters
	3534	Finance and investment analysts/advisers
	3535	Taxation experts
	3536	Importers, exporters
	3537	Financial and accounting technicians
	3539	Business and related associate professionals n.e.c.
	354	Sales And Related Associate Professionals
	3541	Buyers and purchasing officers
	3542	Sales representatives

	3543	Marketing associate professionals
	3544	Estate agents, auctioneers
355		Conservation Associate Professionals
	3551	Conservation and environmental protection officers
	3552	Countryside and park rangers
356		Public Service And Other Associate Professionals
	3561	Public service associate professionals
	3562	Personnel and industrial relations officers
	3563	Vocational and industrial trainers and instructors
	3564	Careers advisers and vocational guidance specialists
	3565	Inspectors of factories, utilities and trading standards
	3566	Statutory examiners
	3567	Occupational hygienists and safety officers (health and safety)
	3568	Environmental health officers

Major Group	Sub-Major Group	Minor Group	Unit Group	Group Title
4				ADMINISTRATIVE AND SECRETARIAL OCCUPATIONS
	41			ADMINISTRATIVE OCCUPATIONS
		411		Administrative Occupations: Government And Related Organisations
			4111	Civil Service executive officers
			4112	Civil Service administrative officers and assistants
			4113	Local government clerical officers and assistants
			4114	Officers of non-governmental organisations
		412		Administrative Occupations: Finance
			4121	Credit controllers
			4122	Accounts and wages clerks, book-keepers, other financial clerks
			4123	Counter clerks
		413		Administrative Occupations: Records
			4131	Filing and other records assistants/clerks
			4132	Pensions and insurance clerks
			4133	Stock control clerks
			4134	Transport and distribution clerks
			4135	Library assistants/clerks
			4136	Database assistants/clerks
			4137	Market research interviewers
		414		Administrative Occupations: Communications
			4141	Telephonists
			4142	Communication operators
		415		Administrative Occupations: General
			4150	General office assistants/clerks
	42			SECRETARIAL AND RELATED OCCUPATIONS
		421		Secretarial And Related Occupations
			4211	Medical secretaries
			4212	Legal secretaries
			4213	School secretaries
			4214	Company secretaries
			4215	Personal assistants and other secretaries
			4216	Receptionists
			4217	Typists

Major Group	Sub-Major Group	Minor Group	Unit Group	Group Title
5				SKILLED TRADES OCCUPATIONS
	51			SKILLED AGRICULTURAL TRADES
		511		Agricultural Trades
			5111	Farmers
			5112	Horticultural trades
			5113	Gardeners and groundsman/groundswomen
			5119	Agricultural and fishing trades n.e.c.
	52			SKILLED METAL AND ELECTRICAL TRADES
		521		Metal Forming, Welding And Related Trades
			5211	Smiths and forge workers
			5212	Moulders, core makers, die casters
			5213	Sheet metal workers
			5214	Metal plate workers, shipwrights, riveters
			5215	Welding trades
			5216	Pipe fitters
		522		Metal Machining, Fitting And Instrument Making Trades
			5221	Metal machining setters and setter-operators
			5222	Tool makers, tool fitters and markers-out
			5223	Metal working production and maintenance fitters
			5224	Precision instrument makers and repairers
		523		Vehicle Trades
			5231	Motor mechanics, auto engineers
			5232	Vehicle body builders and repairers
			5233	Auto electricians
			5234	Vehicle spray painters
		524		Electrical Trades
			5241	Electricians, electrical fitters
			5242	Telecommunications engineers
			5243	Lines repairers and cable jointers
			5244	TV, video and audio engineers
			5245	Computer engineers, installation and maintenance
			5249	Electrical/electronics engineers n.e.c.
	53			SKILLED CONSTRUCTION AND BUILDING TRADES
		531		Construction Trades
			5311	Steel erectors
			5312	Bricklayers, masons
			5313	Roofers, roof tilers and slaters
			5314	Plumbers, heating and ventilating engineers
			5315	Carpenters and joiners
			5316	Glaziers, window fabricators and fitters
			5319	Construction trades n.e.c.

532	Building Trades
5321	Plasterers
5322	Floorers and wall tilers
5323	Painters and decorators
54	TEXTILES, PRINTING AND OTHER SKILLED TRADES
541	Textiles And Garments Trades
5411	Weavers and knitters
5412	Upholsterers
5413	Leather and related trades
5414	Tailors and dressmakers
5419	Textiles, garments and related trades n.e.c.
542	Printing Trades
5421	Originators, compositors and print preparers
5422	Printers
5423	Bookbinders and print finishers
5424	Screen printers
543	Food Preparation Trades
5431	Butchers, meat cutters
5432	Bakers, flour confectioners
5433	Fishmongers, poultry dressers
5434	Chefs, cooks
549	Skilled Trades n. e. c.
5491	Glass and ceramics makers, decorators and finishers
5492	Furniture makers, other craft woodworkers
5493	Pattern makers (moulds)
5494	Musical instrument makers and tuners
5495	Goldsmiths, silversmiths, precious stone workers
5496	Floral arrangers, florists
5499	Hand craft occupations n.e.c.

Major Group	Sub-Major Group	Minor Group	Unit Group	Group Title
6				PERSONAL SERVICE OCCUPATIONS
	61			CARING PERSONAL SERVICE OCCUPATIONS
		611		Healthcare And Related Personal Services
			6111	Nursing auxiliaries and assistants
			6112	Ambulance staff (excluding paramedics)
			6113	Dental nurses
			6114	Houseparents and residential wardens
			6115	Care assistants and home carers
		612		Childcare And Related Personal Services
			6121	Nursery nurses
			6122	Childminders and related occupations
			6123	Playgroup leaders/assistants
			6124	Educational assistants
		613		Animal Care Services
			6131	Veterinary nurses and assistants
			6139	Animal care occupations n.e.c.
	62			LEISURE AND OTHER PERSONAL SERVICE OCCUPATIONS
		621		Leisure And Travel Service Occupations
			6211	Sports and leisure assistants
			6212	Travel agents
			6213	Travel and tour guides
			6214	Air travel assistants
			6215	Rail travel assistants
			6219	Leisure and travel service occupations n.e.c.
		622		Hairdressers And Related Occupations
			6221	Hairdressers, barbers
			6222	Beauticians and related occupations
		623		Housekeeping Occupations
			6231	Housekeepers and related occupations
			6232	Caretakers
		629		Personal Services Occupations n. e. c.
			6291	Undertakers and mortuary assistants
			6292	Pest control officers

Major Group	Sub-Major Group	Minor Group	Unit Group	Group Title
7				SALES AND CUSTOMER SERVICE OCCUPATIONS
	71			SALES OCCUPATIONS
		711		Sales Assistants And Retail Cashiers
			7111	Sales and retail assistants
			7112	Retail cashiers and check-out operators
			7113	Telephone salespersons
		712		Sales Related Occupations
			7121	Collector salespersons and credit agents
			7122	Debt, rent and other cash collectors
			7123	Roundsmen/women and van salespersons
			7124	Market and street traders and assistants
			7125	Merchandisers and window dressers
			7129	Sales related occupations n.e.c.
	72			CUSTOMER SERVICE OCCUPATIONS
		721		Customer Service Occupations
			7211	Call centre agents/operators
			7212	Customer care occupations

Major Group	Sub-Major Group	Minor Group	Unit Group	Group Title
8				PROCESS, PLANT AND MACHINE OPERATIVES
	81			PROCESS, PLANT AND MACHINE OPERATIVES
		811		Process Operatives
			8111	Food, drink and tobacco process operatives
			8112	Glass and ceramics process operatives
			8113	Textile process operatives
			8114	Chemical and related process operatives
			8115	Rubber process operatives
			8116	Plastics process operatives
			8117	Metal making and treating process operatives
			8118	Electroplaters
			8119	Process operatives n.e.c.
		812		Plant And Machine Operatives
			8121	Paper and wood machine operatives
			8122	Coal mine operatives
			8123	Quarry workers and related operatives
			8124	Energy plant operatives
			8125	Metal working machine operatives
			8126	Water and sewerage plant operatives
			8129	Plant and machine operatives n.e.c.
		813		Assemblers And Routine Operatives
			8131	Assemblers (electrical products)
			8132	Assemblers (vehicles and metal goods)
			8133	Routine inspectors and testers
			8134	Weighers, graders, sorters
			8135	Tyre, exhaust and windscreen fitters
			8136	Clothing cutters
			8137	Sewing machinists
			8138	Routine laboratory testers
			8139	Assemblers and routine operatives n.e.c.
		814		Construction Operatives
			8141	Scaffolders, staggers, riggers
			8142	Road construction operatives
			8143	Rail construction and maintenance operatives
			8149	Construction operatives n.e.c.
	82			TRANSPORT AND MOBILE MACHINE DRIVERS AND OPERATIVES
		821		Transport Drivers And Operatives
			8211	Heavy goods vehicle drivers
			8212	Van drivers
			8213	Bus and coach drivers
			8214	Taxi, cab drivers and chauffeurs
			8215	Driving instructors
			8216	Rail transport operatives
			8217	Seafarers (merchant navy); barge, lighter and boat operatives
			8218	Air transport operatives

8219 Transport operatives n.e.c.

822 Mobile Machine Drivers And Operatives

8221 Crane drivers

8222 Fork-lift truck drivers

8223 Agricultural machinery drivers

8229 Mobile machine drivers and operatives n.e.c.

Major Group	Sub-Major Group	Minor Group	Unit Group	Group Title
9				ELEMENTARY OCCUPATIONS
	91			<i>ELEMENTARY TRADES, PLANT AND STORAGE RELATED OCCUPATIONS</i>
		911		Elementary Agricultural Occupations
		9111		Farm workers
		9112		Forestry workers
		9119		Fishing and agriculture related occupations n.e.c.
		912		Elementary Construction Occupations
		9121		Labourers in building and woodworking trades
		9129		Labourers in other construction trades n.e.c.
		913		Elementary Process Plant Occupations
		9131		Labourers in foundries
		9132		Industrial cleaning process occupations
		9133		Printing machine minders and assistants
		9134		Packers, bottlers, canners, fillers
		9139		Labourers in process and plant operations n.e.c.
		914		Elementary Goods Storage Occupations
		9141		Stevedores, dockers and slingers
		9149		Other goods handling and storage occupations n.e.c.
	92			<i>ELEMENTARY ADMINISTRATION AND SERVICE OCCUPATIONS</i>
		921		Elementary Administration Occupations
		9211		Postal workers, mail sorters, messengers, couriers
		9219		Elementary office occupations n.e.c.
		922		Elementary Personal Services Occupations
		9221		Hospital porters
		9222		Hotel porters
		9223		Kitchen and catering assistants
		9224		Waiters, Waitresses
		9225		Bar staff
		9226		Leisure and theme park attendants
		9229		Elementary personal services occupations n.e.c.

3.11. International Standard Classification of Occupations ISCO-88

Available at all waves.

The ISCO-88 has a hierarchical structure, with ten major groups at the top level of aggregation, subdivided into 28 major sub-groups, 116 minor groups, and 390 unit groups. The **BHPS** is coded to the four digit level. Coding has been done using CASOC; the resulting variable is a string variable, unlike SOC coding. For further details, see section on Sampling and Survey Methods or the publication on CASOC referenced there.

Source: International Labour Organisation³

MAJOR, SUB-MAJOR, MINOR AND UNIT GROUP TITLES

MAJOR GROUP 1

LEGISLATORS, SENIOR OFFICIALS AND MANAGERS

- 11 LEGISLATORS AND SENIOR OFFICIALS
 - 111 LEGISLATORS
 - 1110 Legislators
 - 112 SENIOR GOVERNMENT OFFICIALS
 - 1120 Senior government officials
 - 113 TRADITIONAL CHIEFS AND HEADS OF VILLAGES
 - 1130 Traditional chiefs and heads of villages
 - 114 SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS
 - 1141 Senior officials of political-party organisations
 - 1142 Senior officials of employers', workers' and other economic-interest organisations
 - 1143 Senior officials of humanitarian and other special-interest organisations
- 12 CORPORATE MANAGERS (This group is intended to include persons who - as directors, chief executives or department managers - manage enterprises or organisations, or departments, requiring a total of three or more managers.)
 - 121 DIRECTORS AND CHIEF EXECUTIVES
 - 1210 Directors and chief executives

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- 122 PRODUCTION AND OPERATIONS DEPARTMENT MANAGERS
 - 1221 Production and operations department managers in agriculture, hunting, forestry and fishing
 - 1222 Production and operations department managers in manufacturing
 - 1223 Production and operations department managers in construction
 - 1224 Production and operations department managers in wholesale and retail trade
 - 1225 Production and operations department managers in restaurants and hotels
 - 1226 Production and operations department managers in transport, storage and communications
 - 1227 Production and operations department managers in business services
 - 1228 Production and operations department managers in personal care, cleaning and related services
 - 1229 Production and operations department managers not elsewhere classified

- 123 OTHER DEPARTMENT MANAGERS
 - 1231 Finance and administration department managers
 - 1232 Personnel and industrial relations department managers
 - 1233 Sales and marketing department managers
 - 1234 Advertising and public relations department managers
 - 1235 Supply and distribution department managers
 - 1236 Computing services department managers
 - 1237 Research and development department managers
 - 1239 Other department managers not elsewhere classified

- 13 GENERAL MANAGERS (This group is intended to include persons who manage enterprises, or in some cases organisations, on their own behalf, or on behalf of the proprietor, with some non-managerial help and the assistance of no more than one other manager who should also be classified in this sub- major group as, in most cases, the tasks will be broader than those of a specialised manager in a larger enterprise or organisation. Non-managerial staff should be classified according to their specific tasks.)
 - 131 GENERAL MANAGERS
 - 311 General managers in agriculture, hunting, forestry/ and fishing
 - 1312 General managers in manufacturing
 - 1313 General managers in construction
 - 1314 General managers in wholesale and retail trade
 - 1315 General managers of restaurants and hotels

- 1316 General managers in transport, storage and communications
- 1317 General managers of business services
- 1318 General managers in personal care, cleaning and related services
- 1319 General managers not elsewhere classified

MAJOR GROUP 2

PROFESSIONALS

21 PHYSICAL, MATHEMATICAL AND ENGINEERING SCIENCE PROFESSIONALS

211 PHYSICISTS, CHEMISTS AND RELATED PROFESSIONALS

2111 Physicists and astronomers

2112 Meteorologists

2113 Chemists

2114 Geologists and geophysicists

212 MATHEMATICIANS, STATISTICIANS AND RELATED PROFESSIONALS

2121 Mathematicians and related professionals

2122 Statisticians

213 COMPUTING PROFESSIONALS

2131 Computer systems designers and analysts

2132 Computer programmers

2139 Computing professionals not elsewhere classified

214 ARCHITECTS, ENGINEERS AND RELATED PROFESSIONALS

2141 Architects, town and traffic planners

2142 Civil engineers

2143 Electrical engineers

2144 Electronics and telecommunications engineers

2145 Mechanical engineers

2146 Chemical engineers

2147 Mining engineers, metallurgists and related professionals

2148 Cartographers and surveyors

2149 Architects, engineers and related professionals not elsewhere classified

- 22 LIFE SCIENCE AND HEALTH PROFESSIONALS
- 221 LIFE SCIENCE PROFESSIONALS
- 2211 Biologists, botanists, zoologists and related professionals
- 2212 Pharmacologists, pathologists and related professionals
- 2213 Agronomists and related professionals

- 222 HEALTH PROFESSIONALS (except nursing)
- 2221 Medical doctors
- 2222 Dentists
- 2223 Veterinarians
- 2224 Pharmacists
- 2229 Health professionals (except nursing) not elsewhere classified

- 223 NURSING AND MIDWIFERY PROFESSIONALS
- 2230 Nursing and midwifery professionals

- 23 TEACHING PROFESSIONALS
- 231 COLLEGE, UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS
- 2310 College, university and higher education teaching professionals

- 232 SECONDARY EDUCATION TEACHING PROFESSIONALS
- 2320 Secondary education teaching professionals

- 233 PRIMARY AND PRE-PRIMARY EDUCATION TEACHING PROFESSIONALS
- 2331 Primary education teaching professionals
- 2332 Pre-primary education teaching professionals

- 234 SPECIAL EDUCATION TEACHING PROFESSIONALS
- 2340 Special education teaching professionals
- 235 OTHER TEACHING PROFESSIONALS
- 2351 Education methods specialists
- 2352 School inspectors
- 2359 Other teaching professionals not elsewhere classified

- 24 OTHER PROFESSIONALS
- 241 BUSINESS PROFESSIONALS
 - 2411 Accountants
 - 2412 Personnel and careers professionals
 - 2419 Business professionals not elsewhere classified
- 242 LEGAL PROFESSIONALS
 - 2421 Lawyers
 - 2422 Judges
 - 2429 Legal professionals not elsewhere classified
- 243 ARCHIVISTS, LIBRARIANS AND RELATED INFORMATION PROFESSIONALS
 - 2431 Archivists and curators
 - 2432 Librarians and related information professionals
- 244 SOCIAL SCIENCE AND RELATED PROFESSIONALS
 - 2441 Economists
 - 2442 Sociologists, anthropologists and related professionals
 - 2443 Philosophers, historians and political scientists
 - 2444 Philologists, translators and interpreters
 - 2445 Psychologists
 - 2446 Social work professionals
- 245 WRITERS AND CREATIVE OR PERFORMING ARTISTS
 - 2451 Authors, journalists and other writers
 - 2452 Sculptors, painters and related artists
 - 2453 Composers, musicians and singers
 - 2454 Choreographers and dancers
 - 2455 Film, stage and related actors and directors
- 246 RELIGIOUS PROFESSIONALS
 - 2460 Religious professionals

MAJOR GROUP 3

TECHNICIANS AND ASSOCIATE PROFESSIONALS

31 PHYSICAL AND ENGINEERING SCIENCE ASSOCIATE PROFESSIONALS

311 PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS

3111 Chemical and physical science technicians

3112 Civil engineering technicians

3113 Electrical engineering technicians

3114 Electronics and telecommunications engineering technicians

3115 Mechanical engineering technicians

3116 Chemical engineering technicians

3117 Mining and metallurgical technicians

3118 Draughtspersons

3119 Physical and engineering science technicians not elsewhere classified

312 COMPUTER ASSOCIATE PROFESSIONALS

3121 Computer assistants

3122 Computer equipment operators

3123 Industrial robot controllers

313 OPTICAL AND ELECTRONIC EQUIPMENT OPERATORS

3131 Photographers and image and sound recording equipment operators

3132 Broadcasting and telecommunications equipment operators

3133 Medical equipment operators

3139 Optical and electronic equipment operators not elsewhere classified

314 SHIP AND AIRCRAFT CONTROLLERS AND TECHNICIANS

3141 Ships' engineers

3142 Ships' deck officers and pilots

3143 Aircraft pilots and related associate professionals

3144 Air traffic controllers

3145 Air traffic safety technicians

315 SAFETY AND QUALITY INSPECTORS

- 3151 Building and fire inspectors
- 3152 Safety, health and quality inspectors

- 32 LIFE SCIENCE AND HEALTH ASSOCIATE PROFESSIONALS
- 321 LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROFESSIONALS
- 3211 Life science technicians
- 3212 Agronomy and forestry technicians
- 3213 Farming and forestry advisers

- 322 MODERN HEALTH ASSOCIATE PROFESSIONALS (except nursing)
- 3221 Medical assistants
- 3222 Sanitarians
- 3223 Dieticians and nutritionists
- 3224 Optometrists and opticians
- 3225 Dental assistants
- 3226 Physiotherapists and related associate professionals
- 3227 Veterinary assistants
- 3228 Pharmaceutical assistants
- 3229 Modern health associate professionals (except nursing) not elsewhere classified

- 323 NURSING AND MIDWIFERY ASSOCIATE PROFESSIONALS
- 3231 Nursing associate professionals
- 3232 Midwifery associate professionals

- 324 TRADITIONAL MEDICINE PRACTITIONERS AND FAITH HEALERS
- 3241 Traditional medicine practitioners
- 3242 Faith healers

- 33 TEACHING ASSOCIATE PROFESSIONALS
- 331 PRIMARY EDUCATION TEACHING ASSOCIATE PROFESSIONALS
- 3310 Primary education teaching associate professionals

- 332 PRE-PRIMARY EDUCATION TEACHING ASSOCIATE PROFESSIONALS
- 3320 Pre-primary education teaching associate professionals

- 333 SPECIAL EDUCATION TEACHING ASSOCIATE PROFESSIONALS
- 3330 Special education teaching associate professionals
- 334 OTHER TEACHING ASSOCIATE PROFESSIONALS
- 3340 Other teaching associate professionals
- 34 OTHER ASSOCIATE PROFESSIONALS
- 341 FINANCE AND SALES ASSOCIATE PROFESSIONALS
- 3411 Securities and finance dealers and brokers
- 3412 Insurance representatives
- 3413 Estate agents
- 3414 Travel consultants and organisers
- 3415 Technical and commercial sales representatives
- 3416 Buyers
- 3417 Appraisers, valuers and auctioneers
- 3419 Finance and sales associate professionals not elsewhere classified
- 342 BUSINESS SERVICES AGENTS AND TRADE BROKERS
- 3421 Trade brokers
- 3422 Clearing and forwarding agents
- 3423 Employment agents and labour contractors
- 3429 Business services agents and trade brokers not elsewhere classified
- 343 ADMINISTRATIVE ASSOCIATE PROFESSIONALS
- 3431 Administrative secretaries and related associate professionals
- 3432 Legal and related business associate professionals
- 3433 Bookkeepers
- 3434 Statistical, mathematical and related associate professionals
- 3439 Administrative associate professionals not elsewhere classified
- 344 CUSTOMS, TAX AND RELATED GOVERNMENT ASSOCIATE PROFESSIONALS
- 3441 Customs and border inspectors
- 3442 Government tax and excise officials

- 3443 Government social benefits officials
- 3444 Government licensing officials
- 3449 Customs, tax and related government associate professionals not elsewhere classified

- 345 POLICE INSPECTORS AND DETECTIVES
- 3450 Police inspectors and detectives
- 346 SOCIAL WORK ASSOCIATE PROFESSIONALS
- 3460 Social work associate professionals

- 347 ARTISTIC, ENTERTAINMENT AND SPORTS ASSOCIATE PROFESSIONALS
- 3471 Decorators and commercial designers
- 3472 Radio, television and other announcers
- 3473 Street, night-club and related musicians, singers and dancers
- 3474 Clowns, magicians, acrobats and related associate professionals
- 3475 Athletes, sportspersons and related associate professionals

- 348 RELIGIOUS ASSOCIATE PROFESSIONALS
- 3480 Religious associate professionals

MAJOR GROUP 4

CLERKS

- 41 OFFICE CLERKS
- 411 SECRETARIES AND KEYBOARD-OPERATING CLERKS
- 4111 Stenographers and typists
- 4112 Word-processor and related operators
- 4113 Data entry operators
- 4114 Calculating-machine operators
- 4115 Secretaries

- 412 NUMERICAL CLERKS
- 4121 Accounting and bookkeeping clerks
- 4122 Statistical and finance clerks

- 413 MATERIAL-RECORDING AND TRANSPORT CLERKS

- 4131 Stock clerks
- 4132 Production clerks
- 4133 Transport clerks

- 414 LIBRARY, MAIL AND RELATED CLERKS
- 4141 Library and filing clerks
- 4142 Mail carriers and sorting clerks
- 4143 Coding, proof-reading and related clerks
- 4144 Scribes and related workers

- 419 OTHER OFFICE CLERKS
- 4190 Other office clerks

- 42 CUSTOMER SERVICES CLERKS
- 421 CASHIERS, TELLERS AND RELATED CLERKS
- 4211 Cashiers and ticket clerks
- 4212 Tellers and other counter clerks
- 4213 Bookmakers and croupiers
- 4214 Pawnbrokers and money-lenders
- 4215 Debt-collectors and related workers

- 422 CLIENT INFORMATION CLERKS
- 4221 Travel agency and related clerks
- 4222 Receptionists and information clerks
- 4223 Telephone switchboard operators

MAJOR GROUP 5

SERVICE WORKERS AND SHOP AND MARKET SALES WORKERS

- 51 PERSONAL AND PROTECTIVE SERVICES WORKERS
- 511 TRAVEL ATTENDANTS AND RELATED WORKERS
- 5111 Travel attendants and travel stewards
- 5112 Transport conductors
- 5113 Travel guides

- 512 HOUSEKEEPING AND RESTAURANT SERVICES WORKERS
 - 5121 Housekeepers and related workers
 - 5122 Cooks
 - 5123 Waiters, waitresses and bartenders

- 513 PERSONAL CARE AND RELATED WORKERS
 - 5131 Child-care workers
 - 5132 Institution-based personal care workers
 - 5133 Home-based personal care workers
 - 5139 Personal care and related workers not elsewhere classified

- 514 OTHER PERSONAL SERVICES WORKERS
 - 5141 Hairdressers, barbers, beauticians and related workers
 - 5142 Companions and valets
 - 5143 Undertakers and embalmers
 - 5149 Other personal services workers not elsewhere classified

- 515 ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS
 - 5151 Astrologers and related workers
 - 5152 Fortune-tellers, palmists and related workers

- 516 PROTECTIVE SERVICES WORKERS
 - 5161 Fire-fighters
 - 5162 Police officers
 - 5163 Prison guards
 - 5169 Protective services workers not elsewhere classified

- 52 MODELS, SALESPERSONS AND DEMONSTRATORS
 - 521 FASHION AND OTHER MODELS
 - 5210 Fashion and other models
 - 522 SHOP SALESPERSONS AND DEMONSTRATORS
 - 5220 Shop salespersons and demonstrators
 - 523 STALL AND MARKET SALESPERSONS

5230 Stall and market salespersons

MAJOR GROUP 6

SKILLED AGRICULTURAL AND FISHERY WORKERS

61 MARKET-ORIENTED SKILLED AGRICULTURAL AND FISHERY WORKERS

611 MARKET GARDENERS AND CROP GROWERS

6111 Field crop and vegetable growers

6112 Tree and shrub crop growers

6113 Gardeners, horticultural and nursery growers

6114 Mixed-crop growers

612 MARKET-ORIENTED ANIMAL PRODUCERS AND RELATED WORKERS

6121 Dairy and livestock producers

6122 Poultry producers

6123 Apiarists and sericulturists

6124 Mixed-animal producers

6129 Market-oriented animal producers and related workers not elsewhere classified

613 MARKET-ORIENTED CROP AND ANIMAL PRODUCERS

6130 Market-oriented crop and animal producers

614 FORESTRY AND RELATED WORKERS

6141 Forestry workers and loggers

6142 Charcoal burners and related workers

615 FISHERY WORKERS, HUNTERS AND TRAPPERS

6151 Aquatic-life cultivation workers

6152 Inland and coastal waters fishery/ workers

6153 Deep-sea fishery workers

6154 Hunters and trappers

62 SUBSISTENCE AGRICULTURAL AND FISHERY WORKERS

621 SUBSISTENCE AGRICULTURAL AND FISHERY WORKERS

6210 Subsistence agricultural and fishery/ workers

MAJOR GROUP 7

CRAFT AND RELATED TRADES WORKERS

- 71 EXTRACTION AND BUILDING TRADES WORKERS
- 711 MINERS, SHOTFIRERS, STONE CUTTERS AND CARVERS
 - 7111 Miners and quarry workers
 - 7112 Shotfirers and blasters
 - 7113 Stone splitters, cutters and carvers
- 712 BUILDING FRAME AND RELATED TRADES WORKERS
 - 7121 Builders, traditional materials
 - 7122 Bricklayers and stonemasons
 - 7123 Concrete placers, concrete finishers and related workers
 - 7124 Carpenters and joiners
 - 7129 Building frame and related trades workers not elsewhere classified
- 713 BUILDING FINISHERS AND RELATED TRADES WORKERS
 - 7131 Roofers
 - 7132 Floor layers and tile setters
 - 7133 Plasterers
 - 7134 Insulation workers
 - 7135 Glaziers
 - 7136 Plumbers and pipe fitters
 - 7137 Building and related electricians
- 714 PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED TRADES WORKERS
 - 7141 Painters and related workers
 - 7142 Varnishers and related painters
 - 7143 Building structure cleaners
- 72 METAL, MACHINERY AND RELATED TRADES WORKERS
 - 721 METAL MOULDERS, WELDERS, SHEET-METAL WORKERS, STRUCTURAL-METAL PREPARERS, AND RELATED TRADES WORKERS
 - 7211 Metal moulders and coremakers

- 7212 Welders and flamecutters
- 7213 Sheet metal workers
- 7214 Structural-metal preparers and erectors
- 7215 Riggers and cable splicers
- 7216 Underwater workers

- 722 BLACKSMITHS, TOOL-MAKERS AND RELATED TRADES WORKERS
- 7221 Blacksmiths, hammer-smiths and forging-press workers
- 7222 Tool-makers and related workers
- 7223 Machine-tool setters and setter-operators
- 7224 Metal wheel-grinders, polishers and tool sharpeners

- 723 MACHINERY MECHANICS AND FITTERS
- 7231 Motor vehicle mechanics and fitters
- 7232 Aircraft engine mechanics and fitters
- 7233 Agricultural- or industrial-machinery mechanics and fitters

- 724 ELECTRICAL AND ELECTRONIC EQUIPMENT MECHANICS AND FITTERS
- 7241 Electrical mechanics and fitters
- 7242 Electronics fitters
- 7243 Electronics mechanics and servicers
- 7244 Telegraph and telephone installers and servicers
- 7245 Electrical line installers, repairers and cable jointers

- 73 PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES WORKERS
- 731 PRECISION WORKERS IN METAL AND RELATED MATERIALS
- 7311 Precision-instrument makers and repairers
- 7312 Musical instrument makers and tuners
- 7313 Jewellery and precious-metal workers

- 732 POTTERS, GLASS-MAKERS AND RELATED TRADES WORKERS
- 7321 Abrasive wheel formers, potters and related workers
- 7322 Glass makers, cutters, grinders and finishers

- 7323 Glass engravers and etchers
- 7324 Glass, ceramics and related decorative painters

- 733 HANDICRAFT WORKERS IN WOOD, TEXTILE, LEATHER AND RELATED MATERIALS
- 7331 Handicraft workers in wood and related materials
- 7332 Handicraft workers in textile, leather and related materials

- 734 PRINTING AND RELATED TRADES WORKERS
- 7341 Compositors, typesetters and related workers
- 7342 Stereotypers and electrotypers
- 7343 Printing engravers and etchers
- 7344 Photographic and related workers
- 7345 Bookbinders and related workers
- 7346 Silk-screen, block and textile printers

- 74 OTHER CRAFT AND RELATED TRADES WORKERS
- 741 FOOD PROCESSING AND RELATED TRADES WORKERS
- 7411 Butchers, fishmongers and related food preparers
- 7412 Bakers, pastry-cooks and confectionery makers
- 7413 Dairy-products makers
- 7414 Fruit, vegetable and related preservers
- 7415 Food and beverage tasters and graders
- 7416 Tobacco preparers and tobacco products makers

- 742 WOOD TREATERS, CABINET-MAKERS AND RELATED TRADES WORKERS
- 7421 Wood treaters
- 7422 Cabinet makers and related workers
- 7423 Woodworking machine setters and setter-operators
- 7424 Basketry weavers, brush makers and related workers

- 743 TEXTILE, GARMENT AND RELATED TRADES WORKERS
- 7431 Fibre preparers
- 7432 Weavers, knitters and related workers
- 7433 Tailors, dressmakers and hatters

- 7434 Furriers and related workers
- 7435 Textile, leather and related pattern-makers and cutters
- 7436 Sewers, embroiderers and related workers
- 7437 Upholsterers and related workers

- 744 PELT, LEATHER AND SHOEMAKING TRADES WORKERS
- 7441 Pelt dressers, tanners and fellmongers
- 7442 Shoe-makers and related workers

MAJOR GROUP 8

PLANT AND MACHINE OPERATORS AND ASSEMBLERS

- 81 STATIONARY-PLANT AND RELATED OPERATORS
- 811 MINING- AND MINERAL-PROCESSING PLANT OPERATORS
- 8111 Mining-plant operators
- 8112 Mineral-ore- and stone-processing-plant operators
- 8113 Well drillers and borers and related workers

- 812 METAL-PROCESSING-PLANT OPERATORS
- 8121 Ore and metal furnace operators
- 8122 Metal melters, casters and rolling-mill operators
- 8123 Metal-heat-treating-plant operators
- 8124 Metal drawers and extruders

- 813 GLASS, CERAMICS AND RELATED PLANT OPERATORS
- 8131 Glass and ceramics kiln and related machine operators
- 8139 Glass, ceramics and related plant operators not elsewhere classified

- 814 WOOD-PROCESSING- AND PAPERMAKING-PLANT OPERATORS
- 8141 Wood-processing-plant operators
- 8142 Paper-pulp plant operators
- 8143 Papermaking-plant operators

- 815 CHEMICAL-PROCESSING-PLANT OPERATORS
- 8151 Crushing-, grinding- and chemical-mixing machinery operators

- 8152 Chemical-heat-treating-plant operators
- 8153 Chemical-filtering- and separating-equipment operators
- 8154 Chemical-still and reactor operators (except petroleum and natural gas)
- 8155 Petroleum- and natural-gas-refining-plant operators
- 8159 Chemical-processing-plant operators not elsewhere classified

- 816 POWER-PRODUCTION AND RELATED PLANT OPERATORS
- 8161 Power-production plant operators
- 8162 Steam-engine and boiler operators
- 8163 Incinerator, water-treatment and related plant operators

- 817 AUTOMATED-ASSEMBLY-LINE AND INDUSTRIAL-ROBOT OPERATORS
- 8171 Automated-assembly-line operators
- 8172 Industrial-robot operators

- 82 MACHINE OPERATORS AND ASSEMBLERS
- 821 METAL- AND MINERAL-PRODUCTS MACHINE OPERATORS
- 8211 Machine-tool operators
- 8212 Cement and other mineral products machine operators

- 822 CHEMICAL-PRODUCTS MACHINE OPERATORS
- 8221 Pharmaceutical- and toiletry-products machine operators
- 8222 Ammunition- and explosive-products machine operators
- 8223 Metal finishing-, plating- and coating-machine operators
- 8224 Photographic-products machine operators
- 8229 Chemical-products machine operators not elsewhere classified

- 823 RUBBER- AND PLASTIC-PRODUCTS MACHINE OPERATORS
- 8231 Rubber-products machine operators
- 8232 Plastic-products machine operators

- 824 WOOD-PRODUCTS MACHINE OPERATORS
- 8240 Wood-products machine operators

- 825 PRINTING-, BINDING- AND PAPER-PRODUCTS MACHINE OPERATORS
- 8251 Printing-machine operators
- 8252 Bookbinding-machine operators
- 8253 Paper-products machine operators

- 826 TEXTILE-, FUR- AND LEATHER-PRODUCTS MACHINE OPERATORS
- 8261 Fibre-preparing-, spinning- and winding machine operators
- 8262 Weaving- and knitting-machine operators
- 8263 Sewing machine operators
- 8264 Bleaching-, dyeing- and cleaning-machine operators
- 8265 Fur and leather-preparing-machine operators
- 8266 Shoemaking- and related machine operators
- 8269 Textile-, fur- and leather-products machine operators not elsewhere classified

- 827 FOOD AND RELATED PRODUCTS MACHINE OPERATORS
- 8271 Meat- and fish-processing-machine operators
- 8272 Dairy-products machine operators
- 8273 Grain- and spice-milling-machine operators
- 8274 Baked-goods, cereal and chocolate-products machine operators
- 8275 Fruit-, vegetable- and nut-processing-machine operators
- 8276 Sugar production machine operators
- 8277 Tea-, coffee-, and cocoa-processing-machine operators
- 8278 Brewers-, wine and other beverage machine operators
- 8279 Tobacco production machine operators

- 828 ASSEMBLERS
- 8281 Mechanical-machinery assemblers
- 8282 Electrical-equipment assemblers
- 8283 Electronic-equipment assemblers
- 8284 Metal-, rubber- and plastic-products assemblers
- 8285 Wood and related products assemblers
- 8286 Paperboard, textile and related products assemblers

- 829 OTHER MACHINE OPERATORS AND ASSEMBLERS
- 8290 Other machine operators and assemblers

- 83 DRIVERS AND MOBILE-PLANT OPERATORS
- 831 LOCOMOTIVE-ENGINE DRIVERS AND RELATED WORKERS
- 8311 Locomotive-engine drivers
- 8312 Railway brakemen, signallers and shunters

- 832 MOTOR-VEHICLE DRIVERS
- 8321 Motor-cycle drivers
- 8322 Car, taxi and van drivers
- 8323 Bus and tram drivers
- 8324 Heavy truck and lorry drivers

- 833 AGRICULTURAL AND OTHER MOBILE-PLANT OPERATORS
- 8331 Motorised farm and forestry plant operators
- 8332 Earth-moving- and related plant operators
- 8333 Crane, hoist and related plant operators
- 8334 Lifting-truck operators

- 834 SHIPS' DECK CREWS AND RELATED WORKERS
- 8340 Ships' deck crews and related workers

MAJOR GROUP 9

ELEMENTARY OCCUPATIONS

- 91 SALES AND SERVICES ELEMENTARY OCCUPATIONS
- 911 STREET VENDORS AND RELATED WORKERS
- 9111 Street food vendors
- 9112 Street vendors, non-food products
- 9113 Door-to-door and telephone salespersons

- 912 SHOE CLEANING AND OTHER STREET SERVICES ELEMENTARY OCCUPATIONS
- 9120 Shoe cleaning and other street services elementary occupations

- 913 DOMESTIC AND RELATED HELPERS, CLEANERS AND LAUNDERERS

- 9131 Domestic helpers and cleaners
- 9132 Helpers and cleaners in offices, hotels and other establishments
- 9133 Hand-laundurers and pressers

- 914 BUILDING CARETAKERS, WINDOW AND RELATED CLEANERS
- 9141 Building caretakers
- 9142 Vehicle, window and related cleaners

- 915 MESSENGERS, PORTERS, DOORKEEPERS AND RELATED WORKERS
- 9151 Messengers, package and luggage porters and deliverers
- 9152 Doorkeepers, watchpersons and related workers
- 9153 Vending-machine money collectors, meter readers and related workers

- 916 GARBAGE COLLECTORS AND RELATED LABOURERS
- 9161 Garbage collectors
- 9162 Sweepers and related labourers

- 92 AGRICULTURAL, FISHERY AND RELATED LABOURERS
- 921 AGRICULTURAL, FISHERY AND RELATED LABOURERS
- 9211 Farm-hands and labourers
- 9212 Forestry labourers
- 9213 Fishery, hunting and trapping labourers

- 93 LABOURERS IN MINING, CONSTRUCTION, MANUFACTURING AND TRANSPORT
- 931 MINING AND CONSTRUCTION LABOURERS
- 9311 Mining and quarrying labourers
- 9312 Construction and maintenance labourers: roads, dams and similar constructions
- 9313 Building construction labourers

- 932 MANUFACTURING LABOURERS
- 9321 Assembling labourers
- 9322 Hand packers and other manufacturing labourers

- 933 TRANSPORT LABOURERS AND FREIGHT HANDLERS

- 9331 Hand or pedal vehicle drivers
- 9332 Drivers of animal-drawn vehicles and machinery
- 9333 Freight handlers

MAJOR GROUP 0

ARMED FORCES

- 01 ARMED FORCES
- 011 ARMED FORCES
- 0110 Armed forces

3.12. National Statistics Socio-economic Classification (NS-SEC)

Table 2

Analytic Classes	Operational Categories and Sub-Categories	
1.1	L1 L2	Employers in large organisations Higher managerial occupations
1.2	L3	Higher professional occupations L3.1 'Traditional' employees L3.2 'New' employees L3.3 'Traditional' self-employed L3.4 'New' self-employed
2	L4	Lower professional and higher technical occupations L4.1 'Traditional' employees L4.2 'New' employees L4.3 'Traditional' self-employed L4.4 'New' self-employed
	L5	Lower managerial occupations
	L6	Higher supervisory occupations
3	L7	Intermediate occupations L7.1 Intermediate clerical and administrative L7.2 Intermediate sales and service L7.3 Intermediate technical and auxiliary L7.4 Intermediate engineering
4	L8	Employers in small organisations L8.1 Employers in small organisations (non-professional) L8.2 Employers in small organisations (agriculture)
	L9	Own account workers L9.1 Own account workers (non-professional) L9.2 Own account workers in (agriculture)
5	L10	Lower supervisory occupations
	L11	Lower technical occupations L11.1 Lower technical craft L11.2 Lower technical process operative
6	L12	Semi-routine occupations L12.1 Semi-routine sales L12.2 Semi-routine service L12.3 Semi-routine technical L12.4 Semi-routine operative L12.5 Semi-routine agricultural L12.6 Semi-routine clerical L12.7 Semi-routine childcare
7	L13	Routine occupations L13.1 Routine sales and service L13.2 Routine production L13.3 Routine technical L13.4 Routine operative L13.5 Routine agricultural

8	L14	Never worked and long-term unemployed L14.1 Never worked L14.2 Long-term unemployed
*	L15	Full-time Students
*	L16	Occupations not stated or inadequately described
*	L17	Not classifiable for other reasons

* For complete coverage, categories L15, L16 and L17 are added as 'Not Classified'. The composition of 'Not Classified' will be dependent on the data source.

3.13. Advantages / Disadvantages to Living as a Couple

3.13.1 Advantages to living as a couple (wCOHADV1 and wCOHADV2) First Occurrence W8

- 01 Trial marriage inc. get to know each other/try out compatibility before marriage/ before commitment of marriage and/or kids/less risk of divorce in future
- 02 No legal ties inc. easier to split up/separate if doesn't work out/simpler/safer than marriage/ can walk away/ less responsibility/ informal rather than formal relationship
- 03 Improves relationship inc. makes you work harder at relationship/don't take partner for granted/ more respect/ get on better/ less arguments
- 04 Bad experience marriage inc. previously married so prefers cohabitation this time/ marriage changes people/ seen bad marriages
- 05 Personal independence inc.no commitment/ personal freedom/ not ready for marriage/ keep own privacy
- 06 Financial inc. tax advantages/ no expense of wedding or divorce
- 07 Companionship inc. someone to share things with
- 08 Prefer cohabitation (n.e.s) inc. convenience

- 96 Other (n.e.s)
- 98 Don't know
- 99 Refused
- 00 Nothing written (blank)

3.13.2 Disadvantages of living as a couple (wCOHDIS1 and wCOHDIS2) First Occurrence W8

- 01 Lack of financial security inc. tax/pensions/benefit system favours marrieds/no discounts/no equal rights with marrieds
- 02 No legal status inc. difficult to split-up/ no automatic inheritance if partner dies/ division of assets difficult
- 03 Hard on children inc. affects children
- 04 Uncommitted relationship inc. lack of security/no recognition of lasting relationship for life/marriage would be better
- 05 Social stigma inc. embarrassment/ awkward social situations/ surname problems

- 96 Other (n.e.s)
- 98 Don't know
- 99 Refused
- 00 Nothing written (blank)

3.14. Reasons not to go onto Further Education

What are the main reasons you might not go on to further full-time education? (wFEDNT1 and wFEDNT2)

First Occurrence W12

- 01 School level qualifications enough/all that is needed
- 02 Decided on specific career/job/apprenticeship/other training
- 03 Wants to work/get a job/earn money
- 04 Cost of education/too expensive/financial reasons/don't want debt
- 05 Depends on grades/may fail exams
- 06 Not academic enough/work too hard/no concentration
- 07 Just don't want to/Can't be bothered
- 08 Want to travel
- 09 Undecided/unsure at the moment
- 10 Other

- 97 Blank
- 98 Don't know
- 99 Refused

3.15. Why Financial Situation Changed

Why Financial Situation Changed (wFISITY)

First Occurrence W3

Reasons better/worse off.

- 01 Earned income has increased (more pay, new/better job)
- 02 Benefits have increased (include pensions/child benefit)
- 03 Investment/asset income increased (higher interest rates/profit on selling shares/property)
- 04 Less expenses; spending reduced (lower bills, taxes, mortgages etc) prices fallen.
- 05 Had 'windfall' payment eg. inheritance, gifts, redundancy payments.
- 11 Earned income decreased (lost job, pay reduced, less hours)
- 12 Benefits reduced/stopped
- 13 Investment/asset income decreased (lower interest rates/losses on selling shares/property)
- 14 More expenses; spending increased; cost of living up/inflation (higher bills, taxes, mortgages etc) prices higher.
- 15 Unexpected/'one-off' expenditure eg. wedding, moved house.
- 21 Combination of income down and expenses down
- 22 Combination of income up and expenses up/inflation
- 23 Combination of benefits down and expenses up
- 24 Combination of benefits up and expenses up/inflation
- 25 Savings down but standard of living the same
- 26 Good management, thrift
- 27 No change in income/benefits/expenses (not elsewhere specified)
- 31 Other reasons for being better off (not elsewhere specified)
- 32 Other reasons for being worse off (not elsewhere specified)
- 33 Other reasons neither better **nor** worse off (not elsewhere specified)
- 96 Other
- 98 Don't know
- 99 Refused

3.16. Purpose of Saving

Purpose of Savings (wSAVEY1 and wSAVEY2)

First Occurrence W3

- 01 Holidays
- 02 Old age/retirement specifically mentioned (include pension schemes/plans
- 03 Car
- 04 Child(ren) (include children's education, and if buying shares to invest in children's education)
- 05 Housing/property purchase inc. land purchase
- 06 Home improvements
- 07 Household bills (eg TV license, etc.; also include motor maintenance such as car/bike insurance, tax, servicing)
- 08 Special events (eg weddings, burials, Christmas)
- 09 No particular reason specified (eg just saving for a rainy day, to be safe, emergencies, just in case)
- 10 Shares schemes
- 11 Own education
- 12 Grandchild
- 96 Other (include shares not elsewhere specified)
- 98 Don't know
- 99 Refused / Not available

Appendix 3.17. Counties and Unitary Authorities

Coding frame for wLADUA found in Record Types wHHSAMP from Wave 9 onwards reflects the Boundary Commission changes introduced during the 1990's.

Please note that this is a string or alphanumeric variable

AA	City of London
AB	Barking & Dagenham
AC	Barnet
AD	Bexley
AE	Brent
AF	Bromley
AG	Camden
AH	Croydon
AJ	Ealing
AK	Enfield
AL	Greenwich
AM	Hackney
AN	Hammersmith & Fulham
AP	Haringey
AQ	Harrow
AR	Havering
AS	Hillingdon
AT	Hounslow
AU	Islington
AW	Kensington & Chelsea
AX	Kingston upon Thames
AY	Lambeth
AZ	Lewisham
BA	Merton
BB	Newham
BC	Redbridge
BD	Richmond upon Thames
BE	Southwark
BF	Sutton
BG	Tower Hamlets
BH	Waltham Forest
BJ	Wandsworth
BK	Westminster
BL	Bolton
BM	Bury
BN	Manchester
BP	Oldham
BQ	Rochdale
BR	Salford
BS	Stockport
BT	Tameside
BU	Trafford
BW	Wigan
BX	Knowsley
BY	Liverpool
BZ	St. Helens
CA	Sefton
CB	Wirral
CC	Barnsley
CE	Doncaster
CF	Rotherham
CG	Sheffield
CH	Gateshead
CJ	Newcastle upon Tyne

CK	North Tyneside
CL	South Tyneside
CM	Sunderland
CN	Birmingham
CQ	Coventry
CR	Dudley
CS	Sandwell
CT	Solihull
CU	Walsall
CW	Wolverhampton
CX	Bradford
CY	Calderdale
CZ	Kirklees
DA	Leeds
DB	Wakefield
HA	Bath & NE Somerset
EX	Blackburn w Darwen
EY	Blackpool
HN	Bournemouth
MA	Bracknell Forest
ML	Brighton & Hove
HB	City of Bristol
EH	Darlington
FK	Derby
FB	E Riding - Yorkshire
ET	Halton
EB	Hartlepool
GA	Herefordshire County
MW	Isle of Wight
FA	Kingston upon Hull
FN	Leicester
KA	Luton
LC	Medway
EC	Middlesbrough
MG	Milton Keynes
FC	NE Lincolnshire
FD	North Lincolnshire
HC	North Somerset
FY	Nottingham
JA	Peterborough
HG	Plymouth
HP	Poole
MR	Portsmouth
MC	Reading
EE	Redcar & Cleveland
FP	Rutland
MD	Slough
MS	Southampton
KF	Southend-on-Sea
HD	S Gloucestershire
EF	Stockton-on-Tees
GL	Stoke-on-Trent
GF	Telford & Wrekin
HX	Swindon
KG	Thurrock
HH	Torbay
EU	Warrington
MB	West Berkshire
ME	Windsor & Maidenhead
MF	Wokingham
FF	York
NA	Isle of Anglesey

PL	Blaenau Gwent
PB	Bridgend
NC	Gwynedd
PK	Caerphilly
PT	Cardiff
NU	Carmarthenshire
NQ	Ceredigion
NE	Conwy
NG	Denbighshire
NJ	Flintshire
PH	Merthyr Tydfil
PP	Monmouthshire
NZ	Neath Port Talbot
PR	Newport
NS	Pembrokeshire
NN	Powys
PF	Rhondda, Cynon, Taff
NX	Swansea
PD	Vale of Glamorgan
PM	Torfaen
NL	Wrexham
QA	Aberdeen City
QB	Aberdeenshire
QC	Angus
QD	Argyll & Bute
QE	The Scottish Borders
QF	Clackmannanshire
QG	West Dunbartonshire
QH	Dumfries & Galloway
QJ	Dundee City
QK	East Ayrshire
QL	East Dunbartonshire
QM	East Lothian
QN	East Renfrewshire
QP	City of Edinburgh
QQ	Falkirk
QR	Fife
QS	Glasgow City
QT	Highland
QU	Inverclyde
QW	Midlothian
QX	Moray
QY	North Ayrshire
QZ	North Lanarkshire
RA	Orkney Islands
RB	Perth & Kinross
RC	Renfrewshire
RD	Shetland Islands
RE	South Ayrshire
RF	South Lanarkshire
RG	Stirling
RH	West Lothian
RJ	Eilean Siar
09	Bedfordshire
11	Buckinghamshire
12	Cambridgeshire
13	Cheshire
15	Cornwall & Scilly Isles
16	Cumbria
17	Derbyshire
18	Devon
19	Dorset

20	Durham
21	East Sussex
22	Essex
23	Gloucestershire
24	Hampshire
26	Hertfordshire
29	Kent
30	Lancashire
31	Leicestershire
32	Lincolnshire
33	Norfolk
34	Northamptonshire
35	Northumberland
36	North Yorkshire
37	Nottinghamshire
38	Oxfordshire
39	Shropshire
40	Somerset
41	Staffordshire
42	Suffolk
43	Surrey
44	Warwickshire
45	West Sussex
46	Wiltshire
47	Worcestershire

3.18. To Whom External Payments Made

To Whom Payments Made (wFTEXA ; wFTEXB wFTEXAC)

First Occurrence W1

CODE PERSONS 1 - 3

- 01 Parent(s) (if both mentioned eg 'Mum and Dad' code once only)
- 02 Child (inc step/adopted)
- 03 Current (separated) spouse
- 04 Ex-spouse
- 05 Parents-in-law
- 06 Other relative
- 07 Other individual
- 08 Organisation (but code maintenance payments or alimony paid into court or to DSS/CSA as 2 - 4 above as apply)
- 96 Other

3.19. The Verbatim Coded Final Question (Individual Questionnaire)

From Wave Two onwards, an open ended question was placed as the final question on the individual questionnaire. To date, there have been five different questions used at varying intervals. These are detailed in the coding frames which follow. All of these verbatim questions are coded at the Essex Institute.

Important Events

The first of these questions asked people to state in their own words what "has happened to you (or your family) which has stood out as important". Answers were recorded verbatim. Verbatim responses can not be made available for public release, because of confidentiality concerns. However, a numeric code was developed to capture the full range of events mentioned. Up to four events are coded for each response. Along with the events mentioned, code 97 has been retained for "nothing happened". This is sometimes a substantive response as people indicate that little of consequence occurred, although in the vast majority of cases, the answer is probably the equivalent of "don't know" (code -1). Missing data is assigned -9.

As would be expected, people's answers include not only events that happened to them personally but also events that happened to other family members or friends. Each event is therefore assigned a "subject code," with 20 being used if no subject is specified. The pertinent "subject code" where ambiguous is indicated by the event frame (e.g. code 40 pregnancy / birth indicates the subject is the parent). The subject code frame includes mentions of pets (code 18). For further details, see chapter 11 in Buck et al (1994).

For this question, coding was done at the Essex Institute, using specially trained coders. An inter-coder reliability check was carried out on 10% of the sample. For Wave Two, inter-coder reliability was 97% for subject mentions, over 90% for the specific category of events, 90% and 95% for the 12 major categories (health, caring, education, employment, leisure / political, non-familial, family, financial, consumption, residential move, crime and religion).

3.19.1 Would you please tell me anything that has happened to you (or your family) which has stood out as important? This might be things you've done, or things that have been of interest or concern. Just whatever comes to mind as important to you. (MENTIONS: wEVENT1 - wEVENT4; SUBJECTS: wEVENT1S - wEVENT4S

First Occurrence W2

HEALTH MENTIONS

- 01 Ill Health / Concern about Health
- 02 Hospitalisation / Operation
- 03 Accident (Involving Injury)
- 04 Health Tests (Positive & Negative)
- 05 Loss of Mobility / House-Bound
- 06 Recovery / Continuing Good Health
- 09 Health (nec)

CARING

- 10 Caring Responsibilities - Not Childcare (i.e. Who is Cared For?)
- 11 Babysitting (ie Who is the Sitter?)

EDUCATION

- 12 Starting / In School
- 13 Leaving School
- 14 Starting / In Further Education (inc. Sixth Form)
- 15 Leaving Further Education

- 16 Studying For / Passing Educational / Vocational Qualifications / Acquiring Skills Training (nec)
- 17 Travel Related to Study
- 19 Education (nec)

EMPLOYMENT

- 20 Change of Job (inc. Hours, Status) / Starting Own Business
- 21 Planned / Possible Change of Job
- 22 Getting Job (Following Economic Inactivity)
- 23 Work-related Training (inc. Apprenticeship / HGV Licence / Work Experience)
- 24 Redundancy / Unemployment (Threat of or Actual)
- 25 Retirement
- 26 Travel Related to Work (Who Travels?)
- 27 Work-related Problems (Recession and / or Personal - Whose Job?)
- 29 Jobs / Careers (nec)

LEISURE / POLITICAL

- 30 Vacation / Travel (nec)
- 31 Leisure Activities
- 32 Learning to Drive / Passing Test (not HGV)
- 33 Political Participation / Voluntary Work (inc Committee Work)
- 34 Reference to National / World Events (who is Concerned by Event?)

NON-FAMILIAL RELATIONSHIPS

- 35 Began Friendship (including Girl / Boy Friend)
- 36 End Friendship (including Girl / Boy Friend)
- 37 Spending Time with / Visiting Friends (Coded as Holiday as Appropriate)
- 38 Problems with Neighbours (Who Has the Problem?)
- 39 Non-Family Relationship (nec)

FAMILY EVENTS

- 40 Pregnancy / Birth (Identity of Parent?)
- 41 Cohabitation
- 42 Engagements / Weddings
- 43 Separation / Divorce / End of Cohabitation
- 44 Leaving Parental Home
- 45 Death (Who Died?)
- 46 Wedding Anniversaries
- 47 Birthday Celebrations
- 48 Becoming Godparent
- 50 Spending Time / Visits with Relatives (Not Within Household)
- 51 Day-to-day Family Life
- 52 Family Problems (Person Causing Problems?)
- 53 Domestic Incident (eg Fire / Burst Pipes, etc)
- 54 Pets / Animals (Pet Coded)
- 59 Family Event / Family Reference (nec)

FINANCIAL MATTERS

- 60 Money Problems / Drop in Income / Debt
- 61 Forced Move (Repossession / Eviction (Residential Move Not Included)
- 62 Improved Financial Situation
- 63 Received Money (Inheritance / Compensation / Pools)
- 69 Financial Other (nec)

CONSUMPTION

- 70 Bought / Buying Vehicle (Car, Caravan, etc)
- 71 Bought / Buying / Building House

- 72 Household Repairs / Improvements / Appliances
- 73 Won Prize (Not Cash) / Award
- 74 Received Present (from whom ?)
- 79 Other Purchases (nec)

RESIDENTIAL MOVE

- 80 Moved In Past Year
- 81 Future Intention to Move
- 82 Move into Residential Home (Nursing / Retirement, etc)
- 83 Move into Respondent's Household (Who is Moving In?)

CRIME

- 90 Victim of Crime (Burglary ,etc)
- 91 Committed Crime / In Trouble with Police

RELIGION

- 92 Joined / Changed Religion
- 93 Other Religious Reference (Not Confirmation / Baptism of Children)

- 94 Plan Not Fulfilled/ Something That Didn't Happen (eg Didn't Have a Holiday)
- 95 Civil Court Action / Battles with Bureaucracy
- 96 Other Occurrence (nec) given low priority
- 97 Nothing Happened
- 1 Don't Know
- 9 Missing

SUBJECT OF EVENT TOPIC

- 00 Not Mentioned
- 01 'We'/ Household
- 02 Self (Explicit or Inferred or No Pronoun)
- 03 Spouse /Partner
- 04 Daughter(s)
- 05 Son(s)
- 06 Child(ren) (nec)
- 07 Son / Daughter in-law
- 08 Mother
- 09 Father
- 10 Parents (both or not specified)
- 11 Parent(s) in-law
- 12 Siblings (sister / brother)
- 13 Sister-in-law / Brother-in-law
- 14 Grandparent(s)
- 15 Grandchild(ren)
- 16 Other Family Members / Family Members Unspecified
- 17 Friend / Colleague / Neighbour / Employer
- 18 Other
- 19 Pet
- 20 Not Specified

Child faces different world today

- 3.19.2 Do you think children born today will face a very different world than you did when you were growing up? CODE UP TO FOUR MENTIONS (wDFWLD1; wDFWLD2; wDFWLD3 ; wDFWLD4
First Occurrence W6**

OPTIMISTIC / POSITIVE TONE

Individual Level

01. More leisure, less work/ more free time
02. Increased freedom for the individual, freedom of speech, sexual freedom, etc.
03. More opportunities, e.g. travel

Societal Level

11. Technological improvements beyond household. Emphasis on excitement, progress, advantages generally. Include mention of computers, space exploration and the like. Science, scientific advancements/contributions (see also 13)
12. Technological improvements: life will be easier or better or more convenient. (Include mention of technology here if it is given as emphasis or convenience (and there is no elaboration or examples that place it in 11 above)
13. Medical and health improvements. Emphasis on life being healthier, people living longer, etc. New medical drugs, new medical procedures.
14. Improvement in education. Children/people will be smarter, will know/learn more. Education better, more widely available/more educational opportunities
15. More jobs. Working conditions easier
16. More (economic) opportunities. People will have more money
17. Political Improvements.

Global Level

21. Peace/absence of war.
22. Improved Environmental awareness.
29. Other positive.

PESSIMISTIC / NEGATIVE TONE

Individual Level

31. Kids grow up too fast. E.g. Kids into sex, drugs etc. at a much earlier age. Kids are more sophisticated worldly wise; peer pressure.
32. Lack of discipline: Disrespect. Loss of respect for adults, for older people, for parents, for authority, for law, for others.
33. Too Individualistic. Lack of close relatives; anonymity. People don't think of others, just of themselves. (if emphasis on lack of community code 45)
34. Too Materialistic. Money all important; Too much money; Too much emphasis on consumption pressure to buy designer fashions
35. Life 'too cushy', have higher expectations. Want immediate gratification (see also 34)
36. More pressure. Too competitive; More complicated (technically or economically). Include need more education in order to compete; education more demanding.

Family/Household Level

38. Family breakdown. Increase in divorce, loss of family values; breakdown in extended family
39. Parents working/absent from home. mothers not at home, etc.

Societal Level

40. Media influence. Exerts strong influence, has negative consequences (if specific consequence is increased crime/drugs/sex code 42/43/44 also)
41. Less safe society. (code 42 if crime mentioned) violence more accepted/kids have to be restricted - can't play out because of danger
42. Increased crime; fear of crime.
43. Increased drugs, alcohol.(if emphasis is on children's early exposure code 31, also)

44. Increased sex, promiscuity, pornography. (if emphasis is on children's early exposure code 31, also)
45. Moral Breakdown general; loss of religion.
46. Loss of Community (if emphasis on too individualistic code 33)
47. Increased Unemployment. job insecurity; fewer jobs/ more unemployment (see also code 52)
48. Other economic. E.g. huge deficit; incomes lower, prices too high; economy worse - widening gap between have/have-nots; housing market collapse
49. Decline in Welfare state.
50. Decline in Education. Poor quality of education, decline in standards. Less availability (excl. due to cost, code 48); cuts in grants/loans
51. Increased Health Risks. E.g. AIDS, Bird Flu
52. Technological Change with bad consequences. e.g. 'with calculators people become less self-reliant'
53. Political Problems. Government not doing its job; dominance by Brussels

Global Level

60. Urbanisation - loss of countryside.
61. Environmental Problems.
62. War/ Conflicts. Threat of war/nuclear weapons
77. Life will be harder - LOW PRIORITY. Not codable elsewhere
79. Other negative.

NEUTRAL, MIXED, UNCLEAR IN VALENCE

i.e. objective statement that has no indication of whether R feels positively or negatively about change

81. Technological Change. No clear evaluation of change
82. Life has a faster pace. No clear evaluation
83. Neutral-individual level.
84. Neutral family/household level.
85. Neutral-societal level.
86. Neutral-global level.
89. Other neutral, mixed.
99. Not codable/Missing (FIRST MENTION ONLY)

Quality of life

3.19.3 Would you take a moment to think about what 'quality of life' means to you, and tell me what things you consider are important for your own quality of life? ((wQUALLIF1, wQUALLIF2, wQUALLIF3, wQUALLIF4)

First Occurrence W7

The two responses are coded together, with up to four mentions coded. Often the second response elaborates the first and makes clear under what category the response belongs. Most answers are positive but the few that are negative need to be distinguished by using the 70s codes.

POSITIVE MENTIONS

Personal characteristics

- 01 good health / mobility / living & breathing / personal welfare
- 02 freedom / independence
- 03 happiness / peace of mind / security
- 04 safety; lack of fear (see also 54 below)
- 05 time for self / not too overworked / life in balance / sleep / no stress

- 09 Other personal characteristics (not elsewhere specified) / love / sense of humour / personal cleanliness

Material characteristics

- 11 finances / money / standard of living
- 12 consumption / shopping / getting new things
- 13 home comforts / roof over head / regular meals / domestic hygiene
- 14 employment / job satisfaction
- 15 car - transport
- 16 education (own / children's / standards of system in general)

- 19 Other material benefits (not elsewhere codable)

Leisure and pleasure activities

- 21 food - cooking (if stress on having enough food-code as 12 above) / having a drink
- 22 music / radio / theatre
- 23 sports
- 24 walking / exercise
- 25 TV
- 26 gardening / nature in general
- 27 reading / writing / painting
- 28 travel incl. holidays abroad / getting out and about (going places generally)

- 29 Other leisure/pleasure activities (not elsewhere codable) / exercising

Spiritual/Moral/Community Aspects

- 31 religion
- 32 treating others well/ equality/ tolerance
- 33 helping others/voluntary work/community participation
- 34 political activities

- 39 other spiritual / moral / community aspects / law & order

Other People (includes pets)

- 41 children and grandchildren
- 42 partner / marriage
- 43 Other family members/family in general
- 44 neighbours
- 45 friends/friendship

- 46 pets
- 49 Other relationships (not elsewhere codable) / A relationship

Aspects of Locality and Environment

- 51 good recreational facilities
- 52 neighbourhood - specific rural / urban benefits
- 53 neighbourhood - general mention / likes area or neighbourhood
- 54 environment - lack of pollution / general mention of environment
- 55 crime - lack of ; safe area
- 56 climate/weather

- 59 Other local / environment mentions (not elsewhere codable) / news & current affairs

- 67 Other Positive Mentions (not elsewhere codable)

NEGATIVE MENTIONS: (this could be by implication i.e. need more/better....)

- 70 need better personal characteristics - less worry; better health; more happiness
- 71 need better material characteristics - more money, better job etc.
- 72 more leisure - recreation
- 73 more morality/ spiritual /community spirit
- 74 better relationships
- 75 improvements in locality/environment e.g. less crime; less crowds etc.

- 77 Other Negative Mentions (not elsewhere codable) / need more time

- 97 Other (not clear whether positive or negative - use as last code after positive codes)
- 98 Don't know (use only if nothing else is mentioned)
- 99 Missing

Attitudes to local neighbourhood

3.19.4 What makes your neighbourhood a good/bad place to live? (wNEIGH1, wNEIGH2, wNEIGH3, wNEIGH4, wNEIGH5, wNEIGH6)

First Occurrence W8

Positive Responses

Family, friends, neighbours, people

- 01 People friendly/ people in area generally friendly/helpful/ approachable/ nice people / decent people/ shopkeepers friendly/ no yobbos
- 02 Neighbours friendly/ helpful/ good neighbours
- 03 Family/ some/all extended family live in area
- 04 Friends live in area/ children have friends in area/ good social life
- 05 Privacy/ people keep themselves to themselves/ respect privacy/ don't interfere/ live and let live/ left to own devices
- 06 Community/ people know each other/ community spirit/ people trust each other/ people help each other/ do odd jobs for each other/ village life
- 07 Racial diversity/ like multi-cultural aspect of area/ no racial discrimination
- 08 Kids well behaved/ no problems with youngsters, children, teenagers
- 09 Mixture of types of people/ different classes, ages, occupations etc./cosmopolitan
- 10 White area
- 11 Long-standing connection to area/ childhood area/ brought up in area as child/lived in area whole life/ know area well

Local facilities and services/ access to facilities

- 12 Good public transport/ near to, easy access to public transport/ convenient for bus, train etc.
- 13 Good shopping facilities/ near to, easy access to shopping/ convenient for shops/ post office
- 14 Entertainment/ plenty of/ good/ interesting restaurants, cafes cinemas, clubs, pubs, bingo/ can go out to eat, drink locally
- 15 Leisure facilities/ not too far from/ plenty of/ good/ sporting /leisure facilities (inc. libraries) / leisure centres/swimming pools/ ice rink/ tennis/ bowls/recreation ground/ village hall / cricket ground etc.
- 16 Open spaces/ has parks/ green open spaces/ commons/ green and leafy/ places to walk/ places for children to play
- 17 Schools/ has primary school/ secondary school/ schools nearby/ convenient/ good school(s) in area
- 18 Church/ has Church (that R attends)/ good churches
- 19 Medical facilities/ doctor's surgery nearby/ hospital close/ health centre, clinic nearby/ easy to get to
- 20 Good local facilities/ amenities/ lots of things to do in area (n.e.s)

Crime and security

- 21 Feels safe/ can walk safely at night / good street lighting/ Police station nearby
- 22 Not many/ no drugs
- 23 Not much/ no physical violence/ muggings
- 24 Not much/ no car crime (car specifically mentioned)
- 25 Not much/ no burglary/ break-ins/ theft
- 26 Not much/ no vandalism/ graffiti
- 27 Not much/ no crime/never any / not much trouble (n.e.s)

Other positive area characteristics

- 28 Area quiet/ peaceful/relaxed/ low noise levels/ no noisy neighbours/ no noisy animals/ no wild parties
- 29 Good area for children/ kids/ inc. safe for children

- 30 City centre (town) accessible/ close to town/ can get to the city easily/ nicely situated/ good position
- 31 Accessible to London/central London/ West End / the City (London specifically mentioned)
- 32 Easy access to rest of country/ close to major roads/ motorways/ national rail links
- 33 Rural surroundings/ close to/ can get to countryside / in rural village/ like being in countryside, living by sea/ nice views of country, sea
- 34 Employment/ near to work/ handy for work/ easy to get to work/ employment in area/ good for commuting to work
- 35 Affluent area/ well off / Middle class area
- 36 No traffic problems/ Not too much traffic/ good for bikes and pedestrians
- 37 Car parking/ Can park car/ has parking available/ free parking
- 38 No pollution/ from traffic, industry/ clean air/ clean and tidy
- 39 No housing problems/ houses well maintained by council / houses and gardens maintained well by residents/ small, good development of houses/ space around and between houses/ not too built up
- 40 Like architecture and buildings in area/ Conservation area/ pretty buildings
- 41 Like house where living/ nice views / own house has a nice garden/ well maintained /used to living in current house
- 42 House a good investment/ will sell easily in this area
- 43 Desirable area/ exclusive area/
- 44 Area improved in recent years/ nicer/ better atmosphere/ area more upmarket now/ new,decent people have moved into the area/ more professional people /got rid of troublemakers/ crime reduced
- 45 Like the area/ nice neighbourhood/ nice, good environment / good area (n.e.s)
- 46 'Other' positive aspect (n.e.s)

Negative responses

Family, friends, neighbours, people

- 47 People unfriendly/ rough/ rude/ unpleasant/ no respect for others/ snobbish/ yobbos/ shopkeepers unfriendly
- 48 Neighbours unfriendly/ don't talk to you/ problem neighbours (noise, alcohol, abuse, drugs, arguments, several cars)
- 49 No family living in area
- 50 No friends living in area/ no social life in area
- 51 No privacy/ lack of privacy/ people too nosy/ gossip/ no respect for privacy
- 52 No sense of community/ no common interests among neighbours/ people don't help each other/ I don't fit in
- 53 Racial mix/ a lot of/ too many non white/non-British people in area/ illegal immigrants/ a lot of non-whites moving in
- 54 Problems with youngsters, teenagers, children, youths/ no respect from youngsters/ cheeky/ bullies/ rude/ generally cause trouble/ drinking and smoking/hang on street corner/too many on street/ no parental control
- 55 Use of bad language, spitting and swearing

Local facilities and services

- 56 Poor/ no public transport/ poor access to public transport/ inconvenient for bus, train etc.
- 57 Poor/ no shopping facilities/ not close to shops/ inconvenient for shops/ shops closing down / no Post Office nearby
- 58 Poor/ no entertainment/ not many restaurants, cafes cinemas, clubs, pubs, bingo/ can't go out to eat
- 59 Poor/ no leisure facilities/ not many sporting /leisure facilities (inc. libraries) / leisure centres/ swimming pools/ ice rink/ tennis/ bowls/recreation ground/ village hall etc.
- 60 Lack of/ no open spaces/ no parks, green open spaces/ commons/ no places to walk/ no places for children to play
- 61 Poor/ no schools/ no schools nearby/ local schools bad, poor
- 62 No church/ has no Church (that R attends)/ no good churches

- 63 Poor/ no medical facilities/ no doctor's surgery nearby/ no hospital close/ no health centre, clinic nearby/ not easy to get to
64 Poor/ no local facilities/ nothing to do / boring area (n.e.s)

Crime and security

- 65 Not safe environment/ don't feel safe/ poorly lit/ feels less secure now than before/ bad atmosphere/ no Police Station nearby/ no police presence
66 Drugs, drug addicts, drug dealers on street/in area
67 Physical violence/ muggings, stabbings, beatings
68 Car crime/ joy-riders/ theft/ vandalism (car specifically mentioned)
69 Burglary/ theft/ petty crime break-ins
70 Vandalism/ graffiti
71 Crime/ crime rate high/ lot of crime (n.e.s)
72 Alcohol/ drunken behaviour/ homeless alcoholics on street
73 Gangs on street/ children in gangs (gangs specifically mentioned)
74 Police involvement/ often calling on houses in area/ police raids/ dog vans etc.

Other negative area characteristics

- 75 Noise problems/ too much traffic noise/ trains/ people generally noisy/ environmental noise/ noise from pubs or clubs
76 Not good area for children/ not safe for children/ can't play outside because of traffic
77 Unemployment in area/ no work
78 Area deprived and poor/ lot of people on benefits/ low incomes/ lone parents on benefits
79 Traffic problems/ busy main road/ too much traffic/ worsening traffic/ roads and footpaths not maintained
80 Lack of parking facilities/ difficult to park car/ no parking/ nowhere safe to park car
81 Pollution and dirt/ filth/ pollution from industry, traffic/dog dirt / roads not swept/ rubbish dumped and not collected/ getting more polluted
82 Housing problems/ housing in poor condition/ housing cramped/ no gardens/ too built up/ poor quality housing / derelict properties/ DSS bed-sit housing close by/ housing over crowded/ gardens not maintained/ local housing authority/ association not maintaining properties/
83 Over population/ too many people / too crowded
84 Area has become, is getting worse/more run-down/ turning into a rough area / bad element moving in
85 Don't like area/ dreadful/ terrible/ hate area / bad environment (n.e.s)
86 'Other' negative aspect (n.e.s)

Neutral responses

- 87 Good and bad people/ some okay, some not
88 Good and bad aspects of neighbourhood/ area
89 Average area/ no strong views either way/ is just where I live
90 Other neutral (n.e.s)

95 Blank/ nothing written in/ missing
96 Other
98 Don't know
99 Refused

Advantages / disadvantages of current age

3.19.5 What are the main advantages or disadvantages of being aged {R's age} as far as you are concerned?

wAGEAD1, wAGEAD2, wAGEAD3, wAGEAD4

First Occurrence W11

- 0 Not mentioned
- 1 Happy with work
- 2 Unhappy with work
- 3 Ageism in respect of work
- 4 More job opportunities
- 5 Advantages of (semi)retirement
- 6 Dissatisfaction with retirement
- 7 Mentions of education
- 9 Other work related mentions
- 10 Secure financially
- 11 Insecure financially
- 12 Financial concessions
- 13 Financial penalties
- 14 More financial responsibilities
- 15 Less financial responsibilities
- 16 Cost of education
- 19 Other money mentions
- 20 Happy with partner
- 21 Problems with partner
- 22 Mentions of children
- 23 Mentions of grandchildren
- 24 Happy with family
- 25 Family problems
- 26 Living alone
- 27 Happy with friends
- 28 Lack of friends/social life
- 29 Other family/friends mentions
- 30 More leisure time
- 31 Pressures on time
- 32 Reached legal drinking age
- 39 Other mentions of leisure/time
- 40 Good (physical) health
- 41 Complaints about (physical) health
- 42 Good psychological health
- 43 Problems with memory/depression
- 49 Other health mentions
- 50 More mature/experienced
- 51 Life slipping by
- 52 Stability/established
- 53 Greater freedom
- 54 Constraints of current age
- 55 Looking forward to future
- 56 Uncertain future
- 57 Fewer responsibilities
- 58 More responsibilities
- 59 Concerns of aging body
- 60 Positive with respect to body fitness
- 61 Towards end of life
- 69 Other issues of aging
- 70 Age not important
- 71 Other ages less desirable
- 72 Other ages more desirable

73	Likes current age
74	Dislikes current age
75	More respect shown
76	Less respect shown
77	Generally happy with life
90	No disadvantages
91	No advantages
96	Other reason (not elsewhere specified)
97	Nothing/blank
-1	Don't know
-2	Refused
-8	Not applicable
-9	Missing

3.20. Relationship of Closest Friend

Relationship of closest friend (wSSUPR2R)

First Occurrence W3

- 01 Partner/husband/wife
- 02 Child (natural, adopted, step or foster)
- 03 Sibling (brother, sister)
- 04 Parent
- 05 Grandparent
- 06 Grandchild
- 07 Aunt/Uncle/Cousin
- 08 Other eg (in-laws)
- 09 Friend

If left blank by respondent code 00

3.21. Why Wants Specific Job when Leaves School

Why wants specified job when leaves school (wEYPSOCY) on record wYOUTH

First Occurrence W5

If more than one reason given, code first mention

REWARDS

01 Money/well paid

02 Good job/high status

APTITUDE/VOCATION

03 Have always wanted to do/be/ambition or career

04 Following family footsteps

SPECIFIC SKILLS OR APPEAL

05 Like/good at computing

06 Like/good at art/music/writing/theatre

07 Like/want to travel

08 Like/good at sports

09 Like/want to be working with people

10 Like/want to be working with hands/cars/want a trade

11 Has other specific skill (nes)

CARING/ETHICAL JOBS

12 Want to work with animals

13 Want to work with children

14 Want to help others/provide care/handicapped

15 General moral concern/environment/religion/law

GENERAL APPEAL

16 Job is interesting/would enjoy it/enjoy subject (at school)

UNKNOWN

17 Undecided/too young

97 Other

98 Don't know

99 Refused

00 Blank - nothing written in

3.22. Reason for not going on to Further/Higher Education

Reasons may not go on to further/higher education when finishes school (wYPNUNA wYPNUNB) on record wYOUTH

First Occurrence W12

CODE FIRST TWO MENTIONS

01 – Want to earn money/Get a job (inc. Less money when you're a student. If going to university after working mentioned CODE 02)

02 – Earn money first then go to university (inc. Work experience/gap year and then go to university. If 'going to university or college' NOT mentioned CODE 01 (want to earn money/get job)

03 – Want to get an apprenticeship/Waiting to do a modern apprenticeship (apprenticeship explicitly mentioned)

04 – Specific job/career planned (E.G. want to be a carpenter/want to be a model/want to be famous/play professional football/ want to join the RAF/Army/Royal Marines)

05 – No need for more qualifications (inc. Won't teach anything useful/ Already got qualifications/Educated enough already, have grades needed/Had enough of education)

06 – Hard work/ Too much work and hassle

07 – Not capable of work at university (inc. Can't do the work/Won't do very well/Might not get in to college or university)

08 – Hate school/college (inc. Don't like teachers/Can't handle anymore school/ Boring/Quicker leave school the better)

09 – Waste of time / Takes up too much time (time explicitly mentioned)

10 – Wants to/prefers to stay at (parental) home

11 – Want to set up own home/ have a family

12 – Get on with life/Be out in the world/to do different things

13 – Want to go abroad/travel

14 – Can't be bothered / Don't want to/Don't feel like it/ (inc. not wanting to get up early every morning)

15 – Not sure what to do when leave school (inc. Haven't thought about it/Not decided/ Don't know what job I want)

- 96 Other
- 97 Missing
- 98 Don't know/Pass (NES)
- 99 Refused

3.23. Coding Frames Youth Questionnaire Verbatim

Important Events

3.23.1 Please tell me anything that has happened to you (or your family) which has stood out as important. This might be things you've done or things that have been of interest or concern. Just whatever comes to mind as important to you. (wYPEVNT1, wYPEVNT2, wYPEVNT3, wYPEVNT4

First Occurrence W4

Codes 01 to 19 are for events mentioned in a positive way, and also the default for 'happy' events such as holidays, leisure, recovery from illness, spending time with friends, and starting a relationship with a boy/girlfriend. Codes 21 to 39 are for negative references or objectively 'bad' events - separation, death, illness, end of a relationship, etc. Codes 41 to 59 is the default for most other events which are neutral or ambiguous including school, births and getting a job. Where there is an orientation, this determines the coding - 'we have been blessed with a baby', etc. Similarly, where there is seemingly an indifference to a happy/sad event, the event is coded to neutral ('I have been in and out of relationships with three separate girls', 'gained/lost friends', etc.). A response is only coded as 'nothing' or 'don't know' if no event is subsequently mentioned.

Code up to four mentions.

SCHOOL

- 01 positive - passing exams, improving at school - also taking music exams.
- 21 negative - pressure, worries.
- 41 neutral default

FAMILY RELATIONS

- 02 positive - 'parents trust me more' etc.
- 22 negative - separation, divorce, death rows.
- 42 neutral - birthdays and family visits.

FAMILY EVENT

- 03 positive - recovery from illness (not youth's) and family holiday.
- 23 negative - illness (not youth's) and job loss.
- 43 neutral - birthdays and family visits.

LEISURE

- 04 default for all mentions of leisure. Also for holidays taken with friends, youth club or school.
- 24 negative mentions of leisure - none at Wave 4.

PEERS

- 05 making/spending time with friends.
- 25 being bullied or losing friends.
- 45 neutral - foreign exchange student visit and 'gained/lost friends'.

MONEY

- 06 positive reference to earning/handling own money.
- 26 negative reference to earning/handling own money - none at Wave 4.
- 46 default for earning/handling own money.

CONSUMPTION

- 07 default for buying or being given things - includes the family's new car.
- 27 loss/damage/theft of items.

JOB/WORK EXPERIENCE

- 08 positive reference to own job or work experience.
- 28 negative reference - none at Wave 4.
- 48 default reference.

BOY/GIRLFRIENDS

- 10 starting/maintaining a relationship with a boy/girlfriend.
- 30 end of a relationship.
- 50 visible indifference to the start/end of a relationship.

OWN HEALTH

- 11 improvement in a long term health condition.
- 31 youth's ill health or accident.
- 51 default

CAREER

- 14 positive reference to future career or long-term plans.
- 34 negative reference - none at Wave 4.
- 54 default for reference to future career or long-term plans.

PETS

- 33 death of pet.
- 53 reference to pet.

HOUSE MOVES

- 12 positive reference - none at Wave 4.
- 32 negative reference - none at Wave 4.
- 52 default

OTHER EVENT

- 19 other positive event.
- 39 other negative event.
- 59 other neutral event.

- 97 nothing happened
- 98 don't know
- 99 missing

One change to life

3.23.2 If you could change just one thing to make your life better, what would you change? (wYPDFLA, wYPDFLB, wYPDFLC, wYPDFLD)

First Occurrence W7

CODE FIRST TWO MENTIONS

Self Image and Attributes

- 01 Appearance / weight
- 02 Personality/self-confidence/less worries/more social skills etc.
- 03 Age (include wanting to be older for specific purpose e.g. driving)
- 04 Academic ability/performance (e.g. want to work harder to get good qualifications; more brains etc.)
- 05 Health
- 06 Give up Smoking
- 07 Sporting ability / fitness
- 08 More Independence/ freedom (having/being given)
- 09 Other Changes in self and self attributes (not elsewhere specified)

Relationship of Self and Others

- 11 Girl-friend/boy-friend; opposite sex - easier / better / new relationship
- 12 Other friends / peer-group mentions (NB mentions of bullying code 31)

Family Relationship / Household Change

- 13 Relationships of self and family members
- 14 Parental relations (with each other)
- 15 Living arrangements (who lives with whom)
- 16 Family relationship problems (include bereavement)
- 17 Other family problems/changes (health; financial; job etc.)

Material Improvement / Life Style Change

- 21 Getting Job /Better Job
- 22 More money for self
- 23 More money for family
- 24 Bigger or better accommodation (house/room/garden)
- 25 New possessions
- 26 Animal/pet
- 27 Other life style changes (not elsewhere specified)

School and Community

- 31 Being bullied (knowing bullies)
- 32 School circumstances (teacher, class etc.)
- 33 Leaving school
- 35 Change area/location - live somewhere else; change existing features
- 37 Other school/community changes

General Well-Being of People / Planet

- 41 Less violence/ people happier / less suffering
- 42 Environmental improvement - less pollution; saving wildlife
- 47 Other societal world improvements

Other

- 50 NO CHANGE - everything OK /good now
- 51 NO CHANGE / NOTHING (no elaboration)

- 97 Other changes (not elsewhere specified)
- 98 Don't know (code only if no substantive response given)
- 99 No answer - BLANK

Future plans

3.23.3 What would you like to be doing with your life in about ten year's time from now? (wYPFUTA, wYPFUTB)

First Occurrence W12

Career

- 01 have a particular career
- 02 have a good job (well paid / enjoyable / interesting / successful / secure)
- 03 have own particular business

Education

- 10 pass my exams / get good qualifications
- 11 go to / have finished university or college / get a particular degree

Family

- 20 be married / have a partner / stable relationship
- 21 be married / have a partner AND children (includes: have a family / children)
- 22 be married / have a partner NO children
- 23 not settle down yet / not be married / be single
- 24 be in contact / get on well with family

Material ownership

- 30 have own car
- 31 have own house / flat / move out / leave home
- 32 have a lot of money (if not specified elsewhere)

Leisure / general

- 40 play sports
- 41 play music / be in a band
- 42 travel
- 43 have good friends / have a good social life
- 44 be happy / enjoy life / have fun
- 45 give money to charity / help society (others) / be involved in church
- 46 have financial security / no worries
- 47 move abroad

- 96 other / uncodable
- 97 missing/blank
- 98 don't know
- 99 refused

Appendix 4.

Help For Old Friends: Modifications Since Seventeenth Release

This section is intended for the use of those who have already worked with the fifteenth release of BHPS data for Waves One to Seventeen, or earlier releases. It lists the specific changes which have been made in data for those earlier waves since that release and should be studied before repeating earlier analyses on this new release of the data.

At this release there have been some major changes and enhancements going back to wave 1. The following new variables have been added:

At all waves, wherever there is a variable wREGION, there is new variable wREGION2: 'Government Office Region'

On wINDSAMP, wINDALL, wINDRESP for all waves from wave 2 onwards, there is a new variable wDISTMOV 'Distance of residential move'

Wherever there is a coding of International Standard Classification of Occupations e.g. wJBISCO, there is a new variable with the values converted to numeric format – names are of the form wJBISCON

There are two new classification of education qualification variables on wINDRESP at each wave: wCASMIN and wSCED.

There is a new cross-wave file XIVDATA contain some information on interviewer characteristics.

For Wave 16 and 17, the values of derived variables relating to the job history over the previous year have been recalculated.

The scaling of weight variables in Northern for waves 12, 16 and 17 has been modified,

In addition, imputations for Wave Seventeen which form part of cross-wave imputation schemes have been updated.

Appendix 5. Related Publications and documentation

5.1. Research Centre Publications

A book has been published containing initial results from the first two waves of the **BHPS**:

Changing Households: The British Household Panel Survey 1990-1992.

Nick Buck, Jonathan Gershuny, David Rose and Jacqueline Scott (1994)

In this book, researchers from the Research Centre analyse the data from the first two years of the study. Each chapter examines a different aspect of change in people's lives and the introduction provides an overview of longitudinal surveys in general and the BHPS in particular.

Copies can be ordered from the Research Centre.

Other documents which you might find useful can be ordered from the ESRC Research Centre at the address below. Among these are:

Technical Paper Number 1	British Household Panel Study Questionnaire Mainstage Wave One 1991
Technical Paper Number 2	British Household Panel Study Interviewer Instructions Mainstage Wave One 1991
Technical Paper Number 3	British Household Panel Study Technical Report Mainstage Wave One 1991
Technical Paper Number 4	British Household Panel Study Questionnaire Mainstage Wave Two 1992
Technical Paper Number 5	British Household Panel Study Wave One: Outline of the British Household Panel Study Documentation System. Marcia Freed Taylor, Elaine C.A. Prentice and John Brice. (1992)
Technical Paper Number 6	British Household Panel Study Questionnaire Mainstage Wave Three 1993.
Technical Paper Number 7	British Household Panel Study Technical Report Mainstage Two 1994
Technical Paper Number 8	Panel Study of Manufacturing Establishments - First Stage. Andrew K.G. Hildreth and Nigel Tremlett. (1994)
Technical Paper Number 9	British Household Panel Study Questionnaire Mainstage Wave Four 1994.

Technical Paper Number 10	British Household Panel Study Technical Report Mainstage Three 1995
Technical Paper Number 11	British Household Panel Study Questionnaire Mainstage Wave Five 1995
Technical Paper Number 12	British Household Panel Study Questionnaire Mainstage Wave Six 1996
Technical Paper Number 13	Unified BHPS Work-life Histories: Combining Multiple Sources into a User-friendly Format. Brendan Halpin (1997)
Technical Paper Number 14	British Household Panel Study Wave Four Technical Report 1994. ESRC Research Centre on Micro-social Change (1997)
Technical Paper Number 15	British Household Panel Study Wave Five Technical Report 1995. ESRC Research Centre on Micro-social Change (1997)
Technical Paper Number 16	British Household Panel Study Questionnaire Mainstage Wave Seven 1997 ESRC Research Centre on Micro-social Change (1998)
Technical Paper Number 17	British Household Panel Study Questionnaire Mainstage Wave Eight 1998 ESRC Research Centre on Micro-social Change (1998)

For information on research design and methodology, the following Research Papers can also be obtained:

Working Paper 1	Micro-social change in Britain: an outline of the role and objectives of the British Household Panel Study. David Rose et al.
Working Paper 2	Design issues in the British Household Panel Study. David Rose, Nick Buck and Louise Corti.
Working Paper 3	Sample design issues in a panel survey: the case of the British Household Panel Study. A P M Coxon (ed).
Working Paper 21	Micro-social Change in Britain: Current and Future Research Using the British Household Panel Study, David Rose et al. (1992)
Working Paper 23	Methodological Issues in the Design of the British Household Panel Survey, Pamela C. Campanelli and Louise Corti (1993)
Working Paper 25	Using Household Panels to Study Micro-social Change, Jacqueline Scott (1993)

Other **Research Papers of the ESRC Research Centre** which might be of interest are:

Working Paper 4	The Use of Panel Data in Econometric Analysis: A Survey. Gordon Kemp. (1991)
Working Paper 5	Methodological Issues in the Study of Household Allocative Systems. Heather Laurie. (1991)
Working Paper 6	Household Allocative Systems, Gender and Class Analysis. David Rose and Heather Laurie. (1991)
Working Paper 7	Combining Qualitative and Quantitative Data in the Longitudinal Study of Household Allocations. Heather Laurie and Oriel Sullivan. (1991)
Working Paper 8	Gender Differences in Living Arrangements, Employment and Stress: Comparison of Britain and the USA. Jacqueline Scott and Louise Corti. (1991)
Working Paper 9	A Cross-national Comparison of Gender-role Attitudes: Is the Working Mother Selfish? Jacqueline Scott and Jean Duncombe. (1991)
Working Paper 10	Visions of the Future: A Computer Content Analysis of Open Ended Survey Data. Jacqueline Scott, David Fan, Howard Schuman and Carol Shaffer. (1991)
Working Paper 11	The Reliability of Recall Data: A Literature Review. Shirley Dex. (1991)
Working Paper 12	Spell Incidence, Spell Duration and the Measurement of Unemployment. A. F. Shorrocks. (1992)
Working Paper 13	Response Contamination by Third Parties in a Household Interview Survey. Louise Corti and Karin M. Clissold. (1992)
Working Paper 14	Comparative Analysis Using Large Scale National Data Sources of Women's Employment. Shirley Dex and Heather Laurie. (1992)
Working Paper 15	Rooms, Relatives and Relationships: Household Density and Mental Health. Duane F. Alwin and Jacqueline Scott. (1992)
Working Paper 16	She's Leaving Home: But Why? An Analysis of Young People Leaving the Parental Home. Nick Buck and Jacqueline Scott. (1992)
Working Paper 17	Social Polarisation in Britain and Germany: The Impacts of Household and Labour Market Change. Nick Buck.
Working Paper 18	Generations, Collective Memory and Events in Europe. Jacqueline Scott and Lilian Zac. (1992)
Working Paper 19	Modelling Household Dissolution: An Event History Analysis of Young People Leaving Home. Nick Buck and Jacqueline Scott. (1992)

Working Paper 20	On the Hart Measure of Income Mobility. A.F. Shorrocks. (1992)
Working Paper 24	Labour Mobility in a Household Perspective. Shirley Dex. (1993)
Working Paper 26	Earnings, Independence or Unemployment: Why become Self-employed? Mark P. Taylor. (1994)
Working Paper 27	Semi-Markov and Markov Labour Histories. Ken Burdett and Mark P. Taylor (1994)
Working Paper 95-1	Did the Middle Class Shrink During the 1980's? UK Evidence from Kernel Density Estimates. Stephen P. Jenkins (1995)
Working Paper 95-2	Child Care Costs and Lone Mothers' Employment Rates: UK Evidence. Stephen P. Jenkins and Elizabeth J. Symons (1995)
Working Paper 95-3	Homeworkers in Britain: Using BHPS Wave One Data. Heather Laurie and Mark P. Taylor (1995)
Working Paper 95-4	Distribution of Qualifications: Using BHPS Wave One Data. Andrew Clark (1995)
Working Paper 95-5	Distribution of Earnings: Using BHPS Wave One Data. Mark P. Taylor (1995)
Working Paper 95-6	Employment Mobility: Using BHPS Wave One Data. Shirley Dex and Mark P. Taylor (1995)
Working Paper 95-7	Why Go Out To Work? An Analysis Drawn From BHPS Wave One Data. Andrew Clark (1995)
Working Paper 95-8	Tax Systems and Married Women's Labour Force Participation: A Seven Country Comparison. Hedwig Vermeulen, Shirley Dex, Tim Callan, Ben Dankmeyer, Siv Gustafsson, M. Laysten, Nina Smith, Gunther Schmaus, Jan Dirk Vlasblom (1995)
Working Paper 95-9	Quitting Externalities, Employment Cyclicity and Firing Costs. Alison Booth and Gylfi Zoega (1995)
Working Paper 95-10	The Employment Implications of State-Mandated Firing Costs. Alison Booth (1995)
Working Paper 95-11	An Economic Analysis of the Leaving Home Decision. John Ermisch and Pamela Di Salvo (1995)
Working Paper 95-12	A Model of the Dynamics of Housing Tenure Choice. Pamela Di Salvo and John Ermisch (1995)
Working Paper 95-13	Totally Fuzzy and Relative Measures of Poverty in Dynamic Context. An Application to the British Household Panel Survey, 1991-1992. Bruno Cheli (1995)

Working Paper 95-14	Count Data Models of Work-Related Training: A Study of Young Men in Britain. Alison Booth, Wiji Arulampalam and Peter Elias (1995)
Working Paper 95-15	Training and Contracts. Alison Booth, Monojit Chatterji (1995)
Working Paper 95-16	Seniority, Earnings and Unions. Alison Booth and Jeff Frank (1995)
Working Paper 95-17	Pre-Marital Cohabitation, Childbearing and the Creation of One Parent Families. John Ermisch (1995)
Working Paper 95-18	Work-related Training and Earnings Growth for Young Men in Britain. S.Wiji Arulampalam, Alison L. Booth and Peter Elias (1995)
Working Paper 95-19	Assessing Income Distribution Trends: What Lessons from the UK?. Stephen P. Jenkins (1995)
Working Paper 95-20	Poverty Dominance, Poverty Gaps, and Poverty Lines. Stephen P. Jenkins and Peter J. Lambert (1995)
Working Paper 95-21	Husbands and Wives: Family Income Inequality and Assortative Mating in the United States. Marco Francesconi (1995)
Working Paper 95-22	A Dynamic Structural Analysis of Female Labor Supply and Fertility: The Role of Part-Time Work. Part 1 & 2 Marco Francesconi (1995)
Working Paper 95-23	Labor Force Transitions of Married Women in the United States. Marco Francesconi (1995)
Working Paper 96-1	Analysis of Leaving the Parental Home and Returning to it using Panel Data. John Ermisch (1996)
Working Paper 96-2	Quitting Externalities with Uncertainty about Future Productivity. Alison L Booth, and Gylfi Zoega (1996)
Working Paper 96-3	Firing Costs, Unions and Employment. Alison L Booth, and Andrew McCulloch (1996)
Working Paper 96-4	Who Gets Over the Training Hurdle? Wiji Arulampalam and Alison L Booth
Working Paper 96-5	Class Careers as Sequences: An Optimal Matching Analysis of Work-life Histories. Brendan Halpin and Tak Wing Chan (1996)
Working Paper 96-6	Surprises and Housing Tenure Decisions. John Ermisch and Pamela Di Salvo (1996)
Working Paper 96-7	Trends in Real Income in Britain: A Microeconomic Analysis. Stephen P Jenkins (1996)

Working Paper 96-8	Where in the World is the Middle Class? A Cross-National Comparison of the Vanishing Middle Class using Kernel Density Estimates. Richard V Burkhauser, Amy D Crews, Mary C Daly and Stephen P Jenkins (1996)
Working Paper 96-9	New Men and New Women: Is There Convergence in Patterns of Labour Market Transition? Alison L Booth, Carlos Garcia-Serrano and Stephen P Jenkins (1996)
Working Paper 96-10	Partnership Formation and Dissolution in Great Britain. John Ermisch and Marco Francesconi (1996)
Working Paper 96-11	The Increasing Complexity of Family Relationships: Lifetime Experience of Single Motherhood and Stepfamilies in Great Britain. John Ermisch and Marco Francesconi (1996)
Working Paper 96-12	Job Tenure: Does History Matter? Alison L Booth, M Francesconi and C Garcia-Serrano (1996)
Working Paper 96-13	Unions and Efficient Training. Alison L Booth and M Chatterji (1996)
Working Paper 96-14	Performance Related Pay. Alison L Booth and Jeff Frank (1996)
Working Paper 96-15	Unemployment Insurance and Unemployment Duration. Carlos Garci-Serrano (1996)
Working Paper 96-16	Educational Mismatch and Internal Labour Markets: Is There Any Relationship? Carlos Garci-Serrano and Miguel A Malo Oca_a (1996)
Working Paper 96-17	On Worker and Job Turnover. Carlos Garcia-Serrano (1996)
Working Paper 96-18	The Changing Picture of Male Unemployment in Britain. Mark P Taylor and Alison L Booth (1996)
Working Paper 96-19	Changing Places: Income Mobility and Poverty Dynamics in Britain. Sarah Jarvis and Stephen P Jenkins (1996)
Working Paper 96-20	On the Specification of Labour Supply and Household Production Models. P F Apps, M Killingsworth and R Rees (1996)
Working Paper 96-21	Human Capital, Household Production and Prices in Models of Family Labour Supply. P F Apps, M Killingsworth and R Rees (1996)
Working Paper 97-1	Family Matters. John Ermisch and Marco Francesconi (1997)
Working Paper 97-2	Women and Social Class: Towards a More Complete Picture. Gunn Elisabeth Birkelund and David Rose (1997)
Working Paper 97-3	Young People and Smoking. Malcolm Brynin (1997)
Working Paper 97-4	Marital Splits and Income Changes: Evidence for Britain. Sarah Jarvis and Stephen P Jenkins (1997)

Working Paper 97-5	Instruments and Measurement Error in the Estimation of Union Wage Effect for Covered Members and Non-Members in Great Britain. Andrew K G Hildreth (1997)
Working Paper 97-6	Educational Choice, Families and Young People's Earnings. John Ermisch and Marco Francesconi (1997)
Working Paper 97-8	Exit, Voice and Suffering: Do Couples Adapt To Changing Employment Patterns? Jonathan Gershuny, Michael Bittman and John Brice (1997)
Working Paper 97-9	The Changing Picture of Self-Employment in Britain. Mark Taylor (1997)
Working Paper 97-10	Imputing Council Tax for Households in the British Household Panel Study. Gerry Redmond (1997)
Working Paper 97-11	Converting to CAPI in a Longitudinal Panel Survey. Heather Laurie (1997)
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Working Paper 97-13	Is Class Changing? Evidence from BHPS Retrospective Work-life Histories. Brendan Halpin (1997)
Working Paper 97-14	Criterion Validation of a Proposed Revision of Government Social Classifications. Karen O'Reilly and David Rose (1997)
Working Paper 97-15	Who are the Irish in Britain? Evidence from Large-scale Surveys. Brendan Halpin (1997)
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Working Paper 97-19	Who Forgot They Were Unemployed? Peter Elias (1997)
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Working Paper 97-21	Career Mobility in Britain. Alison L Booth and Marco Francesconi (1997)
Working Paper 97-22	Housing Adjustment in Later Life: Evidence from the British Household Panel Survey. John F Ermisch and Stephen P Jenkins (1997)
Working Paper 97-23	Unemployment: Blame the Victim? Jonathan Gershuny and Carmel Hannan

Working Paper 97-24	Gender and Dynamics of Poverty: The Cases of (West) Germany and Great Britain Elisabetta Ruspini (1997)
Working Paper 97-25	Social Divisions and Labour Market Change in London: National, Urban and Global Factors. Nick Buck (1997)
Working Paper 98-1	Cohabitation in Great Britain: Not for Long, but Here to Stay. John Ermisch and Marco Francesconi (1998)
Working Paper 98-2	A Joint Dynamic Model of Fertility and Work of Married Women. Marco Francesconi (1998)
Working Paper 98-3	Mother's Behaviour and Children's Achievements. Marco Francesconi and John Ermisch (1998)
Working Paper 98-4	The Concept of Validity in Relation to the ESRC Review of Government Social Classifications. Karen O'Reilly (1998)
Working Paper 98-5	The Driving Forces Behind Working Time Reductions: Explaining Employers' and Employees' Preferences Concerning the 36 Hours Working Week in the Dutch Banking Sector. Kea G. Tjzens (1998)
Working Paper 98-6	Gender Roles and Labour Use Strategies in Explanations of Women's Part-Time Work in the European Union. Kea G. Tjzens (1998)
Working Paper 98-7	The Exchange Rate Market Efficiency and the Risk Premium: An Empirical Analysis on Three Exchange Rates. Oreste Napolitano (1998)
Working Paper 98-8	Analysis of the Dynamics of Lone Parent Families. René Böheim and John Ermisch (1998)
Working Paper 98-9	Mother's Employment, Lone Motherhood and Children's Achievements as Young Adults. Marco Francesconi and John Ermisch (1998)
Working Paper 98-10	On the Estimation of Latent Variable Models of Health, with an Application to the Health-Investment Behaviour of the British Elderly. Cristain P. Herrera-Salas (1998)
Working Paper 98-11	Intertemporal Equivalence Scales and Cost of Children Using BHPS. Gianni Betti (1998)
Working Paper 98-12	Modelling the Dynamics of Health and Death Among the British Elderly. Cristian P. Herrera-Salas (1998)
Working Paper 98-13	Young People in Europe: Two Models of Household Formation Maria Iacovou (1998)
Working Paper 98-14	Employment Status Mobility in the Life-cycle: An Exploratory Analysis Miguel A Malo (1998)
Working Paper 99-1	Modelling Household Income Dynamics. Stephen P. Jenkins (1999)

Working Paper 99-2	Education and the Natural Rate of Unemployment. Marco Francesconi, J. Michael Orszag, Edmund S. Phelps and Gylfi Zoega (1999)
Working Paper 99-3	Leisure in the UK Across the 20th Century. Jonathan Gershuny and Kimberly Fisher (1999)
Working Paper 99-4	The Covariance Structure of Earnings in Great Britain: 1991-1995. Xavier Ramos (1999)
Working Paper 99-5	The Dynamics of Lone Mothers' Incomes: Public and Private Income Sources Compared. René Böheim, John Ermisch and Stephen P. Jenkins (1999)
Working Paper 99-6	The Determinants of Promotions in Britain: Evidence from the Panel Data. Marco Francesconi (1999)
Working Paper 99-7	Beyond Networks: 'Social Cohesion' and Unemployment Exit Rates. Carmel Hannan (1999)
Working Paper 99-8	Earnings Inequality and Earnings Mobility in Great Britain: Evidence from the BHPS, 1991-94. Xavier Ramos (1999)
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Working Paper 99-12	Patterns of Labour Market Exit in Germany and the UK. Christiane Oswald (1999)
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Working Paper 99-19	Criterion Validity and Occupational Classification: The Seven Economic Relations and the NS-SEC. Anthony P.M. Coxon and Kimberly Fisher (1999)
Working Paper 99-20	Are Secondary Part-Time Jobs Marginalized? Job Characteristics Of Women Employed less than 20 hours per week in the European Union. Kea G. Tijdens (1999)
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Working Paper 99-22	Trends in the UK Income Distribution. Stephen P. Jenkins (1999)
Working Paper 99-23	Poverty Among British Children: Chronic or Transitory? Martha S. Hill and Stephen P. Jenkins (1999)
Working Paper 99-24	Social Position from Narrative Data. Jonathan Gershuny (1999)
Working Paper 99-25	Documentation for Derived Current and Annual Net Household Income Variables, BHPS Waves 1-7. Elena Bardasi, Stephen P. Jenkins and John A. Rigg (1999)
Working Paper 99-26	Job Mobility in 1990s Britain: Does Gender Matter? Alison L. Booth and Marco Francesconi (1999)
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5.2. A List of Publications Based on BHPS Data

Aassve, Arnstein, Francesco C Billari and Fausta Ongaro, (2001) 'The impact of income and employment status on leaving home: evidence from the Italian ECHP sample', **MPIDR Working Paper Series**, 2000-012. Rostock, Ger.

Aassve Arnstein, Francesco C Billari, Raffaella Piccarreta (2007) 'Strings of adulthood: a sequence analysis of young British women's work-family trajectories', **European Journal Of Population**, 23 (3-4):369-388.

- Aassve A, S Burgess, C Propper, M Dickson (2004 Apr.) 'Employment, family union, and childbearing decisions in Great Britain', **CASEpapers**, CASE/84. London: STICERD.
- Aassve Arnstein, Simon Burgess, Matt Dickson, Carol Propper (2005 Nov.) 'Modelling poverty by not modelling poverty: an application of a simultaneous hazards approach to the UK', **ISER Working Papers**, 2005-26. Colchester: Institute for Social and Economic Research: University of Essex.
- Abbott, Pamela, Marion McDonald and Roger Sapsford (1999) "Women and health checks: making sense of differential uptake" **Critical Public Health**, 9, no.3, 233-250. Taylor & Francis.
- Adams Nick, Valerie Christian, Nick Herbert, George Johnson (ed.) (2007) 'Households Below Average Income:1994/5- 2005/06', 18th Rev. ed. London: Department for Work and Pensions.
- Adams Nick, George Johnson, Peter Matejic, Charlotte Murray, Nicolas Toufexis, Julia Whatley, (ed.) (2008) 'Households Below Average Income:an analysis of the income distribution 1994/5-2006/07', 19th London: Department for Work and Pensions.
- Adams Nick, George Johnson, Peter Matejic, Rupesh Vekaria, Julia Whatley (eds.) (2009) 'Households Below Average Income: an analysis of the income distribution 1994/5- 2007/08', 20th London: Department for Work and Pensions.
- Adelman, Laura, S Middleton, K Ashworth, (2003 July) 'Britain's poorest children: severe and persistent poverty and social exclusion', London: Save the Children.
- Adihetty, Sue, C Gray, S Lunn, A Ramyeed, C Read (ed.) (2004) 'Households Below Average Income:1994/5- 2002/03', London: Department for Work and Pensions.
- Ajayi-Obe Olufunmilola, Simon C Parker (2005) 'The changing nature of work among the self-employed in the 1990's: evidence from Britain', **Journal Of Labor Research**, 26 (3):501-517.
- Alcock Ian (2007) 'Progress towards the development of a scale for agency -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Alcock Pete (2004) 'The influence of dynamic perspectives on poverty analysis and anti-poverty policy in the UK', **Journal Of Social Policy**, 33 (3):395-416.
- Allanson Paul, Ulf-G Gerdtham, Dennis Petrie (2008) 'Longitudinal analysis of income-related health inequality', Dundee Discussion Papers In Economics, 214. Dundee: University of Dundee. Department of Economic Studies.
- Allin Sara (2005) 'Equity and inequality in health care use among older people in the United Kingdom' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- Andersen Signe Hald (2009) 'Unemployment and subjective well-being: a question of class?', **Work and Occupations**, 36 (1):3-25.
- Anderson B, A McWilliam, E Clucas, J Gershuny (1999) "Family Life in the Digital Home: Domestic Telecommunications at the end of the 20th Century" **BT Technology Journal**, 14, no 1,85-97. Kluwer Academic
- Andres A R (2004) 'Determinants of self-reported mental health using the British Household Panel Survey', **Journal Of Mental Health Policy And Economics**, 7 (3):99-106.
- Andres, Martyn J. (1998) 'The estimation of union wage differentials and the impact of methodological choices', **Labour Economics**, 5, no.4, 449-474.

- Andrew, Mark and Geoffrey Meen (1999) "Housing market choice and unemployment: empirical evidence for London and the South East", **University Of Reading Department Of Economics Discussion Papers**, 139. Reading: University of Reading.
- Andrews Martyn, Ken Clark William Whittaker (2007) 'The employment and earnings of migrants in the UK', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Andrews Martyn J, Kenneth Clark, William Whittaker (2007) 'The employment and earnings of migrants in Great Britain', **IZA Discussion Papers**, 3068. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Andrews Martyn J; Ken Clark, William Whittaker (2008) 'The determinants of regional migration in Great Britain: a duration approach', **IZA Discussion Papers**, 3783. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Andrews M J, M B Stewart, J K Swaffield and R Upward (1999) "The estimation of union wage differentials and the impact of methodological choices" **Labour Economics**, 5(4), 449-474.
- Andrew M (2004) 'A permanent change in the route to owner occupation?', **Scottish Journal Of Political Economy**, 51:1(Feb.), 24-48.
- Antolin P, T-T Dang and H Oxley (1999) "Poverty dynamics in four OECD countries", **OECD Economics Department Working Papers**, No.212.
- Anand Paul, Graham Hunter, Ron Smith (2005) 'Capabilities and well-being: evidence based on the Sen-Nussbaum approach to welfare', **Social Indicators Research**, 74 (1):9-55.
- Andrietti Vincenzo (2004 Jul.) 'Pension choices and job mobility in the UK', **Universidad Carlos III De Madrid: Departamento De Economia Working Papers (Economics Series 13)**, 04-37. Madrid: Universidad Carlos III de Madrid: Departamento de Economia.
- Antolin P. (2008) 'Coverage of funded pension plans', OCED Working Papers On Insurance and Private Pensions, 19. Paris: OECD.
- Apouey B. (2007) 'Measuring health polarization with self-assessed health data', **Health Economics**, 16 (9):875-894.
- Arber, Sara, K Perren, K Davidson, (2002) 'Involvement in social organizations in later life: variations by gender and class', in Lars Anderson (ed.) **Cultural Gerontology**, Westport, Conn: Auburn House
- Arksey, Hilary, Michael Hirst, (2001) 'Taking care of the carers', *General Practitioner*, 27th April :36-37.
- Arksey, Hilary, Michael Hirst, (2001) 'Why GPs are best placed to support the work of carers', *General Practitioner*, 20th April :34-35.
- Arksey Hilary, Michael Hirst (2005) 'Unpaid carers' access to and use of primary care services' **Primary Health Care Research And Development**, 6: 101-116.
- Arnaud Chevalier and Ian Walker (2001) `Further results on the returns to education in the UK' in **Education and Earnings**, in Europe, Colm Harmon, Ian walker and Niels Westergaard-Nielsen (Eds) Edward Elgar
- Arulampalam W (2001) "Is unemployment really scarring? Effects of unemployment experiences on wages", **The Economic Journal**, 111 (November), F585-606. [Leverhulme funded]

- Arulampalam Wiji (2002 Nov.) 'State dependence in unemployment incidence: evidence for British men revisited', *Iza Discussion Papers*, 630. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Arulampalam W and A L Booth (1998) 'Training and Labour Market Flexibility: Is there a trade off?' *British Journal of Industrial Relations*, 36 (4), p.521-536. This paper was presented at the British Association for the Advancement of Science Meetings (Economics section), Leeds, 10-11 Sept. 1997. [Leverhulme funded]
- Arulampalam Wiji, A L Booth, M L Bryan, (2002) 'Work-related training and the new National Minimum Wage in Britain', *IZA Discussion Papers*, 595. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Arulampalam Wiji, Alison L Booth, Mark L Bryan, (2003 Mar.) 'Work-related training and the new national minimum wage in Britain -ISER Working Paper-', *ISER Working Papers*, 2003-5. Colchester: Institute for Social and Economic Research: University of Essex.
- Arulampalam Wiji, Alison L Booth, Mark L Bryan (2004) 'Training and the new minimum wage', *Economic Journal*, 114 (494):C87-C94.
- Arulampalam Wiji, A L Booth, M P Taylor (2000) "Unemployment persistence" *Oxford Economic Papers*, Vol.52, 24-50. Oxford University Press.
- Arulampalam Wiji, A L Booth, M P Taylor, (2003 July) 'Unemployment scarring: a European perspective using micro data', *BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference, 3-5 July 2001, Colchester, UK*,
- Ascari Guido, Juan A Garcia (2004) 'Relative wage concern: the missing piece in the contract multiplier?' *Research In Economics*, 58: 343-369.
- Ashworth, K and R Walker (1994) "Measuring Claimant Populations: Time, fractals and Social Security" in N Buck et al. (Eds) *Changing Households: BHPS 1990-1992*. Colchester: University of Essex/ESRC.
- Ascari G, J A Garcia (2004) 'Relative wage concern: the missing piece in the contract multiplier?', *Research In Economics*, 58: 343-369.
- Ashworth, K, R Walker and P Trinder (1997) "The Dynamics of Income Support and Unemployment Benefit" *Loughborough: Centre for Research in Social Policy Working Paper*, CRSP242S.
- Ashworth, K, R Walker and P Trinder (1997) "BHPS: An evaluation for the purposes of studying benefit receipt" *Loughborough: Centre for Research in Social Policy Working Paper*, CRSP248S.
- Ashworth Karl and R Walker (1998) 'Analysing social security provisions: the case for longitudinal data' *Department of Social Security Social Research Branch In-house Reports*, 38. London: Department of Social Security. Analytical Services Division.
- Ashworth K, R Walker and P Trinder (1998) "Benefit dynamics in Britain: routes on and off income support" *Centre for Research in Social Policy, Working Papers*, CRSP253S: Loughborough University Centre for Research
- Ashworth, K and Walker, R (1997) Analysing Social Security Provisions: The case for longitudinal data. *Loughborough: Centre for Research in Social Policy, Working Paper*, 287s
- Ashworth K. (1997) Practical Applications of Longitudinal Analysis in Social Security Research: Income Support dynamics. London: HMSO. *Department of Social Security Research Yearbook 1996/7*. (Forthcoming).

- Atkinson Adele, Andrea Finney, Stephen McKay (2007) 'Health, disability, caring and employment: longitudinal analysis', **Department For Work And Pensions Research Reports**, 461. Leeds: Corporate Document Services.
- Attanasio Orazio, James Banks, Matthew Wakefield ([nd]) 'Effectiveness of tax incentives to boost (retirement) saving: theoretical motivation and empirical evidence' **IFS Working Paper Series, Wp04/33**. London: Institute for Fiscal Studies.
- Attwood Gaynor, Paul Croll (2006) 'Truancy in secondary school pupils: prevalence, trajectories and pupil perspectives', **Research Papers In Education**, 21 (4):467-484.
- Baldock John, Jan Hadlow (2004) 'Managing the family: productivity, scheduling and the male veto', **Social Policy & Administration**, 38 (6):706-720.
- Baldwin Sally, Michael Hirst (2002) 'Children as carers', In *The well-being of children in the UK*, by Jonathan Bradshaw (ed.), Ch.10 :153-166. London: Save the Children.
- Ballas D (2004) 'Simulating trends in poverty and income inequality on the basis of 1991 and 2001 census data: a tale of two cities' **AREA**, 36.2: 146-163.
- Ballas Dimitris, Graham Clarke, John Dewhurst (2006) 'Modelling the socio-economic impacts of major job loss or gain at the local level: a spatial microsimulation framework', **Spatial Economic Analysis**, 1 (1):127-146.
- Ballas D, G P Clarke and D Dorling (2001) 'SimYork: a spatial microsimulation approach to modelling space-time population dynamic processes', **EWGLA Conference, Volos, Greece November 28-December 2, 2001**, paper abstracts 2
- Ballas Dimitris, G P Clarke, D Dorling (2006) 'Using a spatial microsimulation model for the estimation of the geographical impact of British national government policies' In *Spatial evolution and modelling*, by Peter Nijkamp and Aura Reggiani (eds), Cheltenham: Edward Elgar: 367-402.
- Ballas Dimitris, Graham Clarke, Danny Dorling, David Rossiter (2007) 'Using SimBritain to model the geographical impact of national government policies', **Geographical Analysis**, 39 (1):44-77.
- Ballas Dimitris, Danny Dorling (2007) 'Measuring the impact of major life events upon happiness', **International Journal Of Epidemiology**, 36 (6):1244-1252.
- Ballas Dimitris, Danny Dorling, Mary Shaw (2007) 'Societal inequality, health and well-being', *Well-being: individual, community and social perspectives* by John Haworth and Graham Hart (eds.), Basingstoke: Palgrave Macmillan. Ch. 9, 163-186.
- Ballas Dimitris, R Kingston, John Stillwell (2004) 'Using a spatial microsimulation decision support system for policy scenario analysis' In *Recent advances in design and decision support systems in architecture and urban planning*, by J. van Leeuwen and H. Timmermans (eds), Dordrecht: Kluwer Academic: 177-192.
- Ballas Dimitris, Richard Kingston, John Stillwell, Jianhui Jin (2007) 'Building a spatial microsimulation-based planning support system for local policy making', **Environment And Planning: A**, 39 (10):2482-2499.
- Ballas Dimitris, M Tranmer (2008) 'Happy places or happy people? A multi-level modelling approach to the analysis of happiness and well-being', Bristol: IOP Publishing Ltd..
- Balloch S, T Andrew, J Ginn, J McLean, J Pahl, and J Williams (1995) **Working in the Social Services**. London: National Institute for Social Work Research Unit
- Baltagi Badi H. (2004) 'Introduction', **Empirical Economics**, 29 (1):1-4.

- Bandyopadhyay Sanghamitra, Frank A Cowell (2007) 'Modelling vulnerability in the UK', **Sticerd Distributional Analysis Research Programme Discussion Paper Series** -DARP-, 89. London: STICERD.
- Bandyopadhyay Sanghamitra, Frank A Cowell, (2007) 'Modelling vulnerability in the UK', **University Of Oxford: Department Of Economics Discussion Paper Series**, 313. Oxford: University of Oxford.
- Banks James (2000) 'Wealth portfolios in the UK and the US' **BHPS–2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK
- Banks J, R Blundell, R Disney and C Emmerson (2002) "Retirement, pension and the adequacy of saving" **IFS Briefing Note No 29**
- Banks J, R Blundell and J P Smith "The distribution of wealth in the UK and US" **IFS Working paper 00/20**
- Banks James, Arie Kapteyn, James P Smith, Arthur Van Soest (2005 Aug.) 'Work disability is a pain in the ****, especially in England, the Netherlands, and the United States', **NBER Working Paper Series**, 11558. Cambridge, Mass.: National Bureau of Economic Research.
- Banks James, Z Smith, M Wakefield, (2002 Nov.) 'The distribution of financial wealth in the UK evidence from 2000 BHPS data', **IFS Working Paper Series**, WP02/21. London: Institute for Fiscal Studies.
- Banks James, Zoe Smith (2003) 'Financial wealth in later life: evidence from BHPS data', **Royal Economic Society Annual Conference 2003**, 14. Royal Economic Society.
- Banks Randy and H Laurie (1999) 'From PAPI to CAPI while staying happy: the case of the British Household Panel Study' Paper presented at the ASC '99, University of Edinburgh Sept 22-24, 1999
- Bardasi E and M Francesconi (2000) 'The effect of non-standard employment on mental health in Britain' **IZA Discussion Papers**, 232. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labour.
- Bardasi E, M Francesconi (2004) 'The impact of atypical employment on individual wellbeing: evidence from a panel of British workers ', **Social Science And Medicine**, 58: 1671-1688.
- Bardasi Elena, Mark P Taylor (2005 Jan.) 'Marriage and wages', **ISER Working Papers**, 2005-1. Institute for Social and Economic Research: University of Essex.
- Bardasi Elena, Mark Taylor (2007) 'Marriage and wages: a test of the specialization hypothesis', **Economica**, [OnlineEarly Article].
- Barrett Alan, Yvonne McCarthy (2008) 'Immigrants and welfare programmes: exploring the interactions between immigrant characteristics, immigrant welfare dependence, and welfare policy', **Oxford Review of Economic Policy**, 24 (3):542-559.
- Barrientos A. (2003) 'The labour market and economic risk: 'friend' or 'foe'?', **Applied Economics**, 35: no.10(July): 1209-1217
- Barron David N, Elizabeth West (2005) 'Leaving nursing: an event-history analysis of nurses' careers', **Journal Of Health Services Research And Policy**, 10 (3):150-157.
- Barron David N Elizabeth West (2007) 'The emotional costs of caring incurred by men and women in the British labour market', **Social Science And Medicine**, 65 (10):2160-2171.

- Bartley M, A Sacker, P Clarke (2004) 'Employment status, employment conditions, and limiting illness: prospective evidence from the British Household Panel Survey 1991-2001', **Journal Of Epidemiology And Community Health**, 58:6 (June), 501-506.
- Bassanini Andrea, Alison L Booth, Maria De Paola, Edwin Leuven (2005) 'Training in imperfect labour markets: evidence from Europe', **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK, Colchester:
- Bassanini, Andrea, Danielle Venn, (2007) 'Assessing the impact of labour market policies on productivity: a difference-in differences approach', OECD Social, Employment And Migration Working Papers, 54. Paris: OECD.
- Bassanini Andrea, Jorn Henrik Rasmussen, Stefano Scarpetta (1999) 'The economic effects of employment-conditional income support schemes for the low-paid: an illustration from a CGE model applied to four OECD countries', **OECD Economics Department Working Papers**, 224. Paris: OECD.
- Batchelor Paul (2004) 'Changes in self-reported attendance of British adults for dental check-ups between 1991 and 2000', **Primary Dental Care**, 11 (4):125-130.
- Barwell Richard, Orla May, Silvia Pezzini (2006) 'The distribution of assets, income and liabilities across UK households: results from the 2005 NMG Research survey', **Bank Of England Quarterly Bulletin**, 46 (1):35-44.
- Batten Dennis, Miles Corak, Wen-Hao Chen (2002) 'The dynamics of low income in four countries', **Statistics Canada Symposium Series**, 2002. Ottawa: Statistics Canada.
- Battu, Harminder; Ada Ma, Euan Phimister, (2008) 'Housing tenure, job mobility and unemployment in the UK', **Economic Journal**, 118 (527):311-328.
- Becchetti Leonardo, Luisa Corrado, Fiammetta Rossetti (2008) 'Easterlin-types and frustrated achievers: the heterogeneous effects of income changes on life satisfaction', **Ceis Tor Vergata Research Papers Series**, 127. Rome: University of Rome 'Tor Vergata': Centre for Economic and International Studies.
- Bechtel Timothy G (2007) 'The pursuit of happiness', **Survey Research Methods**, 1 (2):109-120.
- Bell David, Robert F Elliott, Ada Ma, Anthony Scott, Elizabeth Roberts (2007) 'The pattern and evolution of geographical wage differentials in the public and private sectors in Great Britain', **Manchester School**, 75 (4) **Special Issue On Public Sector Pay Structures And Regional Competitiveness**: 386-421.
- Bell D N F, A Gaj, R A Hart, O Hubler, W Schwerdt, (2001) 'Unpaid work in the workplace: a comparison of Germany and the UK', London: Anglo-German Foundation.
- Bell David, Axel Heitmueller, 'The Disability Discrimination Act in the UK: helping or hindering employment among the disabled?', **Journal Of Health Economics** (2008), doi: 10.1016/j.jhealeco.2008.10.006
- Bell David N F, Gregor Jack, Robert E Wright (2004) 'Micro-level data sources for Scottish policy studies', **Scottish Journal Of Political Economy**, 51 (1):143-147.
- Belot Michele (2008) 'Gender differences in close friendship networks over the life cycle', In *Changing relationships*, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.3: 44-58.
- Belot Michele, John Ermisch, 'Friendship ties and geographical mobility: evidence from Great Britain', **Journal Of The Royal Statistical Society Series A (Statistics In Society)** (2008), doi: 10.1111/j.1467-985X.2008.00566.x

- Benito A (1997) "Public sector wage differentials in Great Britain" **Warwick Economic Research Paper** 485
- Benito A (2000) "Inter-industry wage differentials in Great Britain" **Oxford Bulletin of Economic and Statistics**, vol. 62, (Special Issue) pp. 727-746.
- Benito Andrew (2006) 'Does job insecurity affect household consumption?', **Oxford Economic Papers**, 58 (1):157-181.
- Benito Andrew (2006) 'How does the down-payment constraint affect the UK housing market?', **Bank Of England Working Paper Series**, 294. London: Bank of England.
- Benito Andrew (2007) 'Housing equity as a buffer: evidence from UK households', **Bank Of England Working Paper Series**, 324. London: Bank of England.
- Benito Andrew, Haroon Mumtaz (2006) 'Consumption excess sensitivity, liquidity constraints and the collateral role of housing', **Bank Of England Working Paper Series**, 306. London: Bank of England.
- Benito A and A J Oswald (2000) "Commuting in Great Britain in the 1990s" **Warwick Economic Research Paper** No. 560
- Benito Andrew, Jamie Thompson, Matt Waldron, Rob Wood (2006) 'House prices and consumer spending', **Bank Of England Quarterly Bulletin**, 46 (2):142-154.
- Benito Andrew, Matt Waldron, Garry Young, Fabrizio Zampolli (2007) 'The role of household debt and balance sheets in the monetary transmission mechanism', **Bank Of England Quarterly Bulletin**, 47 (1):70-78.
- Benito Andrew, Robert Wood (2005 Summer) 'How important is housing market activity for durables spending?' **Bank Of England Quarterly Bulletin**, Bank of England. 153-159.
- Bentolila Samuel, Andrea Ichino (2007) 'Unemployment and consumption near and far away from the Mediterranean', **Journal Of Population Economics**, [Online First].
- Benz Matthias (2005) 'Not for the profit, but for satisfaction? - Evidence on worker well-being in non-profit firms', **KYKLOS: International Review For Social Sciences**, 58 (2):155-176.
- Benz M, B S Frey (2004 June) 'Being independent raises happiness at work', **London: Centre For Economic Performance**. 11: no.2, 479-501
- Benz Matthias, Bruno S Frey, (2007) 'Being independent is a great thing: subjective evaluations of self-employment and hierarchy', **Economica**, [OnlineEarly Article].
- Benzeval Michaela (2000) 'Income and health: the time dimension' **Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK
- Bergman Manfred Max, Kenneth Prandy (2005) 'Leisurely moments or lifetimes: the longitudinal context in the study of leisure, consumption and stratification' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK
- Bernardi F, A Schizzerotto, R Layte and S Jacobs (forthcoming) "Who exits unemployment? Institutional features, individual characteristics and the chances of getting a job. A comparison of Britain and Italy" **EPUSE Project Working Paper**: Oxford.
- Berridge Damon M, Roger Penn, Mojtaba Ganjali (2009) 'Changing attitudes to gender roles: a longitudinal analysis of ordinal response data from the British Household Panel Study', **International Sociology**, 24 (3):346-367.

- Berrington A (2004) 'Perpetual postponers? women's, men's and couple's fertility intentions and subsequent fertility behaviour', **Population Trends**, 117(Autumn), 9-19.
- Berrington Ann, Yongjian Hu, Peter W F Smith, Patrick Sturgis (2008) 'A graphical chain model for reciprocal relationships between women's gender role attitudes and labour force participation', **Journal Of The Royal Statistical Society Series A (Statistics In Society)**, 171 (1):89-108.
- Berthoud, Richard (2003) 'Multiple disadvantage in employment: a quantitative analysis', York: Joseph Rowntree Foundation.
- Berthoud Richard (2006) 'The employment rates of disabled people', **Department For Work And Pensions Research Reports**, 298. Leeds: Corporate Document Services.
- Berthoud Richard (2008) 'Are the poor always with us? Inequality persists in the face of prosperity', **Britain In 2009**: 46. Swindon: ESRC.
- Berthoud, Richard and Jonathan Gershuny (ed) (2000(Nov.)) 'Seven years in the lives of British families: evidence on the dynamics of social change from the British Household Panel Survey' Bristol: Policy Press.
- Berthoud R, M Bryan, E Bardasi, (2004) 'The dynamics of deprivation: the relationship between income and material deprivation over time: Families and Children Strategic Analysis Programme', **Department For Work And Pensions Research Reports**, 219. London: Corporate Document Services.
- Betti G and B Cheli (1998) "Panel and pseudo panel techniques for living condition analysis following a fuzzy approach" **Statistica Applicata** 10, No.4, 557-570. Associazione per la Statistica Applicata.
- Betti G and B Cheli (1998) 'Proper multiple imputation: an application on BHPS' **Statistica Applicata**, 10, no 4, 585-594. Associazione per la Statistica Applicata.
- Bevan M, S Cameron, M G Coombes, T Merridew and S Raybould (2001) "Social housing in rural areas" **Chartered Institute of Housing**, Coventry [ISBN 1-903208-10-6]
- Bevan Mark, Karen Croucher (2006) 'Delivering services for older people in rural areas', The ageing countryside: the growing older population of rural England, by Philip Lowe and Lydia Speakman (eds), London: Age Concern England. Ch. 8: 147-163.
- Bielenberg, Andy (ed.) (2000) The Irish Diaspora **Harlow: Longman**.
- Biesta G, Flora Macleod, I Goodson P Hodkinson, J Field, M Tedder, Paul Lambe, N Adair, I Malcolm, H Lynch, Geoff Ford, R Hawthorn (2008 Jul.) 'Learning lives: learning, identity and agency in the life course', **Teaching and Learning Research Briefing**, 51. London: Institute of Education. University of London.
- Biewen Martin, Stephen P Jenkins (2005) 'A framework for the decomposition of poverty differences with an application to poverty differences between countries', **Empirical Economics**, 30 (2):331-358.
- Binder Martin, Tom Broekel, (2008 (Mar.)) 'Conversion efficiency as a complementing measure of welfare in capability space', **MPRA Papers**, 7583. Munich: Munich University Library (Munich Personal RePEc Archive).
- Binder Martin, Alex Coad (2009 Apr.) 'An examination of the dynamics of happiness using vector autoregressions', **Papers on Economics and Evolution**, 0904. Jena, Germany: Max Planck Institute of Economics: Evolutionary Economics Group.

- Bines W (1994) *The Health of Single Homeless People*. Centre for Housing Policy, University of York
- Bird E J (1998) 'Does the Welfare State induce risk-taking?' *Comparative Research on Household Panel Studies Research Papers*, 25. Luxembourg: CEPS/INSTEAD.
- Birkland G E, L A Goodman and D Rose (1996) 'Latent structure of job characteristics of men and women' *American Journal of Sociology*, 102 (Jul), 80-113
- Blackaby D, S Drinkwater, D Leslie and P Murphy (1999) "Ethnic differences in labour market transitions: an exploration using the British Household Panel Survey" *Applied Economics Letters* Vol 6, 463-466. Routledge – Taylor and Francis Ltd
- Blackburn M L 'The impact of internal migration on married couples' earnings in Britain', *Economica*, (2009), doi: 10.1111/j.1468-0335.2008.00772.x
- Blanchflower David G, Chris Shadforth, (2007) 'Entrepreneurship in the UK', Boston: Now Publishers Inc..
- Blanden Jo, Paul Gregg, Stephen Machin (2005) 'Intergenerational mobility in Europe and North America. A report supported by the Sutton Trust', London: Centre for Economic Performance.
- Blanden Jo, Stephen Machin (2007) 'Recent changes in intergenerational mobility in Britain', London: Sutton Trust.
- Blanden Jo, Patrick Sturgis, Franz Buscha, Peter Unwin (2009) 'The effect of lifelong learning on intra-generational social mobility: evidence from longitudinal data in the United Kingdom', *DIUS Research Reports*, 09 04. Runcorn: Great Britain. Department for Innovation, Universities and Skills.
- Blekesaune Morten (2008) 'Unemployment and partnership dissolution', ISER Working Papers, 2008-21. Colchester: University of Essex.
- Blekesaune Morten (2008) 'Unemployment and partnership dissolution', In Changing relationships, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.12: 202-216.
- Blekesaune Morten (2008) 'Partnership transitions and mental distress: investigating temporal order', *Journal Of Marriage And The Family*, 70 (4):879-890.
- Blekesaune Morten, Mark L Bryan and Mark P Taylor, (2008) 'Life-course events and later-life employment', *Department For Work And Pensions Research Reports*, 502. London: Department for Work and Pensions.
- Blossfeld Hans Peter, Erik Klijzing, Karen Kurz, Melinda Mills (ed.) (2005) 'Globalization, uncertainty and youth in society: the losers in a globalizing world', *Advances In Sociology*, 15. London: Routledge.
- Blossfeld Hans Peter, Melinda Mills and Fabrizio Bernardi, (ed.) (2008) 'Globalization, uncertainty and men's careers: an international comparison', Cheltenham: Edward Elgar.
- Blossfeld, Hans Peter, A Timm, (ed.) (2003 Nov.) 'Who marries whom? educational systems as marriage markets in modern societies', Dordrecht: Kluwer Academic.
- Blow Laura, Andrew Leicester, Frank Windmeijer (2005 May) 'Parental income and children's smoking behaviour: evidence from the British Household Panel Survey' *IFS Working Paper Series, WP05/10*. London: Institute for Fiscal Studies.

- Blundell Richard, Mike Brewer, Marco Francesconi (2004 Dec.) 'Job changes, hours changes and labour market flexibility: panel data evidence for Britain', ***IFS Working Paper Series***, WP05/12. London: Institute for Fiscal Studies.
- Blundell Richard, Mike Brewer and Marco Francesconi, (2008) 'Job changes and hours changes: understanding the path of labor supply adjustment', ***Journal Of Labor Economics***, 26 (3):421-453.
- Blundell Richard; Amanda Gosling, Hidehiko Ichimura; Costas Meghir (2007) 'Changes in the distribution of male and female wages accounting for employment composition using bounds', ***Econometrica***, 75 (2):323-363.
- Boeri Tito, Daniela Del Boca, Christopher Pissarides (ed.) (2005) 'Women at work: an economic perspective', Oxford: Oxford University Press.
- Boggess, Scott, Mary Corcoran and Stephen P Jenkins (1999) "Cycles of disadvantage?" ***Wellington: Institute of Policy Studies***
- Boheim Rene, Stephen P Jenkins (2007) 'A comparison of current and annual measures of income in the British Household Panel Survey', ***Journal Of Official Statistics***, 22 (4): 712-733.
- Böheim Rene and M P Taylor (2000) "My home was my castle: evictions and repossessions in Britain" ***Journal of Housing Economics***, Vol. 9(4), 287-319.
- Boheim, Rene and M P Taylor (2003) 'Option or obligation? the determinants of labour supply preferences in Britain', ***Manchester School***, 71, no.2, 113-131.
- Boheim, Rene, M P Taylor, (2003 June) 'The dynamics of second job holding in the UK', *BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference, 3-5 July 2001, Colchester, UK*,
- Boheim, Rene, M P Taylor, (2004) 'Actual and preferred working hours', ***British Journal Of Industrial Relations***, 42: no.1, 149-166.
- Boheim Rene, Mark P Taylor (2007) 'From the dark end of the street to the bright side of the road? The wage returns to migration in Britain', ***Labour Economics***, 14 (1):99-117.
- Böheim Rene and M P Taylor (forthcoming) "Tied down or room to move? Investigating relationships between housing tenure, employment status and residential mobility in Britain", ***Scottish Journal of Political Economy***.
- Böheim Rene and J F Ermisch (2001) "Partnership dissolution in the UK: the role of economic circumstances" ***Oxford Bulletin of Economics and Statistics***, Vol. 63(2), 197-208.
- Bolster Anne, Simon Burgess, Ron Johnston, Kelvyn Jones, Carol Propper, Rebecca Sarker (2007) 'Neighbourhoods, households and income dynamics: a semi-parametric investigation of neighbourhood effects', ***Journal Of Economic Geography***, 7 (1):1-38.
- Bond S and J Sales (2001) 'Household work in the UK: an analysis if the British Household Panel Survey 1994' ***Work Employment and Society***, 15, no 2, 233-250. Cambridge University Press
- Bonney Norman, Alison McCleery and Emma Forster, (1999) 'Migration, marriage and the life course: commitment and residential mobility'. In *Migration and gender in the developed world* by Paul Boyle and Keith Halfacree (eds.), Abingdon: Routledge. Ch. 8, 136-150.
- Booth Alison L, Mark L Bryan (2005) 'Testing some predictions of human capital theory: new training evidence from Britain', ***Review Of Economics And Statistics***, 87 (2):391-394.

- Booth Alison L; Mark L Bryan (2007) 'Who pays for general training in private sector Britain?', Aspects of worker well-being, by Soloman W. Polachek and Olivier Bargain (eds) **Research In Labor Economics**, 26. Amsterdam: Elsevier JAI. 85-124.
- Booth Alison L, Mark L Bryan (2007) 'Training, minimum wages and the distribution of earnings', Inequality and poverty re-examined, by Stephen P. Jenkins and John Mickelwright (eds.), Oxford: Oxford University Press. Ch. 12: 250-267.
- Booth Alison, M Francesconi (2000) 'Collectivism versus individualism: performance related pay and union coverage for non-standard workers in Britain' **Institute for Labour Research University of Essex Discussion Paper**, Series 00/61. Colchester: University of Essex: Institute for Labour Research.
- Booth Alison, M Francesconi (2000) 'Job mobility in 1990s Britain: does gender matter?' article, **Research in Labour Economics**, 19, 173-189. Elsevier Science Ltd.
- Booth A L, M Francesconi (2003) 'Union coverage and non-standard work in Britain', **Oxford Economic Papers**, 55: no.3,(July), 383-416.
- Booth Alison, M Francesconi and J Frank (1998) "Glass ceilings or sticky floors?" **Institute for Labour Research, Discussion Paper**, Series 98/23: University of Essex
- Booth, Alison, M Francesconi, J Frank, (2002 Dec.) 'Labour as a buffer: do temporary workers suffer?', **IZA Discussion Papers**, 673. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Booth, Alison, M Francesconi, J Frank, (2003) 'A sticky floors model of promotion, pay, and gender ', **European Economic Review**, 47: 295-322. University of Essex.
- Booth, Alison, M Francesconi, C Garcia-Serrano (1999) "Job tenure and job mobility in Britain" **Industrial And Labour Relations Review**, vol.53, no.1: Cornell University Press
- Booth, Alison, M Francesconi, G Zoega (1999) "Training, rent-sharing and unions" **Institute For Labour Research Discussion Paper Series, 99/36**: Colchester: University of Essex: Institute for Labour Research.
- Booth, Alison, M Francesconi, G Zoega, (2003 Oct.) 'Unions, work-related training, and wages: evidence for British men', **Industrial And Labour Relations Review**, 57:1.
- Booth, Alison, J Frank (1995) "Coverage by Incremental Scales", **CEPR Discussion Paper** (Number 1097)
- Booth, Alison, J Frank (1996) "Seniority, Earnings and Unions", **Economica**, V.63;673-86
- Booth Alison L and Jeff Frank, (2005) 'Gender and work-life flexibility in the labour market'. In *Work-life balance in the 21st century*, by Diane M. Houston (ed.), Basingstoke: Palgrave Macmillan. Ch. 2: 11-28.
- Booth Alison L, Hiau Joo Kee 'Birth order matters: the effect of family size and birth order on educational attainment', **Journal Of Population Economics** (2008), doi: 10.1007/s00148-007-0181-4
- Booth Alison L, Hiau Joo Kee (2009) 'Intergenerational transmission of fertility patterns', **Oxford Bulletin Of Economics And Statistics**, 71 (2):183-208.
- Booth, Alison, S P Jenkins, C G Serrano, (1999) 'New men and new women? a comparison of paid work propensities from a panel data perspective', **Oxford Bulletin Of Economics And Statistics**, 61:2.

- Booth Alison L, Jan C van Ours (2007) 'Job satisfaction and family happiness: the part-time work puzzle', **Cepr Discussion Paper Series**, 6471. London: Centre for Economic Policy Research.
- Booth Alison L and Jan C van Ours, (2008) '**Job** satisfaction and family happiness: the part-time work puzzle', **Economic Journal**, 118 (526):F77-F99.
- Booth, Alison, G Zoega (1999) "Do quits cause under-training?" **Oxford Economic Papers**, 51, 374-386: Oxford University Press
- Boreham Richard, James Lloyd (2007) 'Asset accumulation across the life course: a report of research carried out by the National Centre for Social Research on behalf of the International Longevity Centre - UK', London: International Longevity Centre UK.
- Borooah, Vani K and F P Forsythe (1997) 'Gender and the earnings gap: unequal treatment or unequal workers? an analysis of the Northern Ireland Labour Force Surveys, 1993 and 1994', Belfast: Equal Opportunities Commission.
- Bottazzi, Renata (2002 Dec.) 'Labour market participation and mortgage-related borrowing constraints –preliminary version-', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Bourque Linda B, Vernon Gayle, Robert E Wright (2005) 'Decline of religion', Changing Scotland: evidence from the British Household Panel Survey by John F. Ermisch and Robert E. Wright (eds.), Ch. 17. Bristol: Policy Press. 261-276.
- Bowlus Audra J, Louise Grogan 'Gender wage differentials, job search, and part-time employment in the UK', **Oxford Economic Papers** (2008), doi: 10.1093/oen/gpn038
- Boyce Christopher J, Gordan D A Brown (2008) 'Income rank and upward comparisons', **Warwick Economics Research Papers**, 883. Warwick: University of Warwick: Department of Economics.
- Boyce Christopher J, Andrew J Oswald (2008 Dec.) 'Do people become healthier after being promoted?', **Iza Discussion Papers**, 3894. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Boyle, Paul, A Cullis, R Flowerdew, V Gayle, (2003 July) 'A longitudinal analysis of the impact of family migration on women's labour market status in Britain, 1991-2000', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Boyle Paul, Zhiqiang Feng, Vernon Gayle (2009) 'A new look at family migration and women's employment status', **Journal Of Marriage And The Family**, 71 (2):417-431.
- Boyle P, P Norman, P Rees (2002) 'Does migration exaggerate the relationship between deprivation and limiting long-term illness? Scottish analysis', **Social Science And Medicine**, 55, no.1, 21-31.
- Boyle P, P Norman, P Rees (2004) 'Changing places: do changes in the relative deprivation of areas influence limiting long-term illness and mortality among non-migrant people living in non-deprived households?', **Social Science And Medicine**, 58:12(June), 2459-2471.
- Braakmann Nils (2008) 'The smoking wage penalty in the United Kingdom: regression and matching evidence from the British Household Panel Survey', **University Of Luneburg Working Paper Series In Economics**, 96. Luneburg: University of Luneburg. Institute of Economics.
- Bradbury B, S Jenkins, J Micklewright (2000 Dec.) 'Child poverty dynamics in seven nations', **Social Policy Research Centre Discussion Papers**, 108.

- Bradley Steve, Robert Crouchley, Gholamereza Oskrochi (2003) 'Social exclusion and labour market transitions: a multi-state multi-spell analysis using the BHPS', *Labour Economics*, 10 (6):659-679.
- Brand Christian (2005) 'How is individual welfare distributed in Britain?' *BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference*, 30 June -2 July 2005, Colchester, UK
- Bratti Massimiliano, Stefano Staffolani (2005 Jan.) 'Effort-based career opportunities and working time', *IZA Discussion Papers*, 1474. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Bratti Massimiliano, Stefano Staffolani (2007) 'Effort-based career opportunities and working time', *International Journal Of Manpower*, 28 (6):489-512.
- Braun M, J Scott and D F Alwin (1994) "Economic necessity or self-actualisation? Attitudes towards women's labour-force participation in the East and West" *ESRC Research Centre on Micro-social Change, Occasional Paper 9*: University of Essex
- Brelivet, Sheila, Geraldine Barker, Ruth Hancock, Gillian Parker, Gillian, Nicky Spiers and Carol Jagger, (2000) 'Population forecasting for long-term care needs in old age: a programme of secondary analysis', Leicester: University of Leicester: Nuffield Community Care Studies Unit.
- Brewer Mike, James Browne, Carl Emmerson, Alissa Goodman, Alastair Muriel, Gemma Tetlow (2007) 'Pensioner poverty over the next decade: what role for tax and benefit reform?', London: Institute for Fiscal Studies.
- Brewer Mike, Cormac O'Dea, Gillian Paull, Luke Sibieta (2009) 'The living standards of families with children reporting low incomes', *Department For Work And Pensions Research Reports*, 577. Norwich: HMSO.
- Brewer Mike, Gillian Paull (2005 Dec.) 'The consistency and reliability of the activity history data in the Families and Children Study', *Department For Work And Pensions Working Paper Series*, 25. London: Corporate Document Services.
- Brewer Mike, Gillian Paull (2006) 'Newborns and new schools: critical times in women's employment', *Department For Work And Pensions Research Reports*, 308. Leeds: Corporate Document Services.
- Bridges Sarah, Richard Disney (2004) 'Use of credit and arrears on debt among low-income families in the United Kingdom', *Fiscal Studies*, 25 (1):1-25.
- Bridges Sarah, Richard Disney Andrew Henley (2006? Forthcoming) 'Housing wealth and the accumulation of financial debt: evidence from UK households', *MIT Press*.
- Brimblecombe, N, D Dorling and M Shaw (1999) "Mortality and migration in Britain - first results from the British household panel survey". *Social Science and Medicine*. 49(7): 981-988.
- Brimblecombe, N, D Dorling and M Shaw (2000) "Migration and geographical inequalities in health in Britain: an exploration of the lifetime socio-economic characteristics of migrants", *Social Science and Medicine*, 50(6): 861-878.
- Broeckel Miriam (2005) 'The economic consequences of partnership dissolution in Germany and Great Britain' *BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference*, 30 June -2 July 2005, Colchester, UK,

- Brown Andrew, Andy Charlwood, Chris Forde, David Spencer (2007) 'Job quality and the economics of New Labour: a critical appraisal using subjective survey data', **Cambridge Journal Of Economics**, 31 (6):941-971.
- Brown Sarah, Gaia Garino, Karl Taylor, Stephen Wheatley Price (2005) 'Debt and financial expectations: an individual- and household-level analysis', **Economic Inquiry**, 43 (1):100-120.
- Brown Sarah, Jennifer Roberts, Karl Taylor (2008) 'Reservation wages, labour market participation and health', **Sheffield Economic Research Paper Series**, 2008002. Sheffield: University of Sheffield. Department of Economics.
- Brown Sarah, Karl Taylor (2002) 'Wage growth, human capital and risk preference: evidence from the British Household Panel Survey', **University Of Leicester: Department Of Economics Discussion Papers**, 02/14. Leicester: University of Leicester: Department of Economics.
- Brown Sarah, Karl Taylor (2008) 'Expectations, reservation wages and employment: evidence from British panel data', **Sheffield Economic Research Paper Series**, 2008008. Sheffield: University of Sheffield. Department of Economics.
- Brown Sarah, Karl Taylor (2005) 'Wage growth, human capital and financial investment', **Manchester School** (1998), 73 (6):686-708.
- Brown Sarah and Karl Taylor, (2008) 'Household debt and financial assets: evidence from Germany, Great Britain and the USA', **Journal Of The Royal Statistical Society Series A** (STATISTICS IN SOCIETY), 171 (3):615-643.
- Brown Sarah, Karl Taylor (2009 Jan.) 'Reservation wages, expected wages and the duration of unemployment: evidence from British panel data', **IZA Discussion Papers**, 3981. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Brown Sarah, Karl Taylor (2009 Jan.) 'Reservation wages, expected wages and the duration of unemployment: evidence from British panel data', **Sheffield Economic Research Paper Series**, 2009001. Sheffield: University of Sheffield. Department of Economics.
- Brown Sarah, Karl Taylor, Stephen Wheatley Price (2005) 'Debt and distress: evaluating the psychological cost of credit', **Journal Of Economic Psychology**, 26 (5):642-663.
- Brune Lasse F (2007) 'The smoker's wage penalty puzzle: evidence from Britain', **ISER Working Papers**, 2007-31. Colchester: University of Essex.
- Brunello Giorgio, Francesca Gambarotto (2007) 'Do spatial agglomeration and local labor market competition affect employer-provided training? Evidence from the UK', **Regional Science And Urban Economics**, 37 (1):1-21.
- Brunello Giorgio, Pierre-Carl Michaud, Anna Sanz-de-Galdeano (2008) 'The rise in obesity across the Atlantic: an economic perspective', **DELSA Seminar Series A.**, Paris: Organisation for Economic Co-operation and Development.
- Brunet Carole, Andrew E Clark, Jean-Yves Lesueur (2006) 'Statut résidentiel et durée de chômage: une comparaison microéconométrique entre la Grande-Bretagne et la France', **Gate Working Papers**, 06-13. Écully: Groupe d'Analyse et de Théorie Economique GATE.
- Brunet Carole, Andrew E Clark, Jean-Yves Lesueur (2007) 'Statut résidentiel et durée de chômage en France et au Royaume-Uni', **Revue Française D'économie**, 22 (2):165-190.
- Bryan Mark L (2005) 'Essays in labour market behaviour', PhD Thesis, Colchester: Institute for Social and Economic Research: University of Essex.

- Bryan Mark L (2007) 'Free to choose? Differences in the hours determination of constrained and unconstrained workers', ***Oxford Economic Papers***, 59 (2):226-252.
- Bryan Mark L, Elena Bardasi (2005) 'The dynamics of deprivation' ***BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference***, 30 June -2 July 2005, Colchester, UK,
- Bryan Mark L, Almudena Sevilla Sanz (2007) 'Does housework lower wages and why? Evidence for Britain', **BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference**, 5 July -7 July 2007, Colchester, UK,
- Bryan Mark L and Almudena Sevilla Sanz, (2008) 'Does housework lower wages and why? Evidence for Britain', ***ISER Working Papers***, 2008-03. Colchester: University of Essex.
- Bryan Mark L, Mark P Taylor (2006) 'Identifying and explaining patterns of NMW receipt in Britain 1999-2004: report prepared for the Low Pay Commission', London: Low Pay Commission.
- Brynin M (1992) "Relating people by computer" book chapter in Westlake, A (ed) ***Survey and statistical computing: proceedings of an international conference organised by the Study Group on Computers in Survey Analysis, Bristol, UK***, September 1992: 99-108
- Brynin M, (1999) "Smoking behaviour: predisposition or adaptation?", ***Journal Of Adolescence***, 22, 636-646
- Brynin Malcolm, John Ermisch (eds.) (2008) 'Changing relationships', Routledge Advances in Sociology, New York: Routledge.
- Brynin M, M Francesconi (2004) 'The material returns to partnership: the effects of educational matching on labour market outcomes and gender equality', ***European Sociological Review***, 20:4 (Sept.), 363-377.
- Brynin Malcolm, Simonetta Longhi, Alvaro Martinez Perez (2008) 'The social significance of homogamy', ***ISER Working Papers***, 2008-32. Colchester: University of Essex.
- Brynin Malcolm, Simonetta Longhi, Alvaro Martinez Perez (2008) 'How close are couples?', In **Changing relationships**, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.6: 91-110.
- Brynin Malcolm, Simonetta Longhi, Alvaro Martinez Perez (2008) 'The social significance of homogamy', In **Changing relationships**, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.5: 73-90.
- Brynin M, K Newton, (2003) 'The National press and voting turnout: British General Elections of 1992 and 1997', ***Political Communication***, 20: 59-77.
- Brynin M, D Sanders (1997) "Party identification, political preferences and material conditions: evidence from the British Household Panel Survey, 1991-2" ***Party Politics***: 3,(1): 53-77.
- Brynin M, J Schupp, (1999) "Education, employment, and gender inequality amongst couples: a comparative analysis of British and German Household Panel data" ***EPAG Working Papers***, 2: Colchester: University of Essex.
- Brynin, M and J Scott (1996) "Young People, Health and the Family", ***Health Education Authority, Family Health Research Report***
- Brynin, M and R Smith (1994) "Mapping the Household" ***Journal of Social and Economic Measurement*** 20: p1-17

- Brynin M and A S Zuckerman (2001) 'Is there a Middle England?' Institute for Social and Economic Research: University of Essex.
- Buchel F and J Frick (2000) 'Immigrants in the UK and in West Germany: relative income positions, income portfolio, and redistribution effects' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Brzinsky-Fay Christian (2007) 'The long and winding road: extent, patterns and outcomes of contingent employment in the UK -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Buchel F and J Frick (2001) 'Immigrants in the UK and in West Germany: relative income positions, income portfolio, and redistribution effects' working paper, **EPAG Working Papers**, 20. Colchester: University of Essex.
- Buchel F, J R Frick (2004) 'Immigrants in the UK and in West Germany: relative income position, income portfolio, and redistribution effects', **Journal Of Population Economics**, 17:3, (Aug.), 553-581.
- Buchel F, J Frick (2005) 'Immigrants' economic performance across Europe: does immigration policy matter?', **Population Research And Policy Review**, 24: 175-212.
- Buck N and J Ermisch (1995) 'Cohabitation in Britain' **Changing Britain**, 3, 3-5. ESRC
- Buck N and J Gershuny (1996) 'Changing families in changing circumstances' Market Research Society.
- Buck Nick, Ian Gordon, Peter Hall, Michael Harloe, Mark Kleinman (2002) 'Working capital: life and labour in contemporary London', London: Routledge.
- Buck Nick, Ian Gordon, Alan Harding, Ivan Turok (eds.) (2005) 'Changing cities: rethinking urban competitiveness, cohesion and governance', Basingstoke: Palgrave Macmillan.
- Buggin A (1998) 'Analisi empirica dell'offerta di lavoro domestica e di mercato della donna in Gran Bretagna' Verona: University of Verona
- Burchardt T (1997), "What price Security? Assessing private insurance for long term care, income replacement during incapacity, and unemployment for mortgarors" **STICERD Working Paper**, 129
- Burchardt T (2000) "Social exclusion: concepts and evidence" in D. Gordon and P. Townsend (eds): Breadline Europe, Policy Press
- Burchardt T (2000) "Enduring Economic Exclusion: disabled people, income and work". York Publishing Services
- Burchardt, T (2000) "The dynamics of being disabled" **Journal of Social Policy** 29(4): 645-668
- Burchardt T (2000) 'Moving in, staying in, falling out: employment transitions of disabled people' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Burchardt Tania (2005) 'Are one man's rags another man's riches? Identifying adaptive expectations using panel data', **Social Indicators Research**, 74 (1):57-102.
- Burchardt T, J Hills (1997), "Private welfare insurance and social security: Pushing the Boundaries." Joseph Rowntree\YPS

- Burchardt T, J Hills (1997 Feb) "Mortgage protection: replacing state provision?" **Housing Finance** No. 33: 24-31
- Burchardt T, J Hills, C Propper (1999) 'Private Welfare and Public Policy' York: York Publishing Services
- Burchardt T, T LeGrand, D Piachaud, (1999) 'Social exclusion in Britain 1991-1995', **Social Policy And Administration**, 33, no.3, 227-244.
- Burchardt T, C Propper (1999) "Does the UK have a private welfare class?" **Journal of Social Policy** 28(4): 643-665
- Burchell B, D Day, M Hudson, D Ladipo, R Mankelow, JP Nolan, H Reed, IC Wichert and F Wilkinson (1999) "**Job Insecurity and Work Intensification: Flexibility and the Changing Boundaries of Work**" York Publishing Services Ltd (book)
- Burgess, Simon, Karen Gardiner, Stephen P Jenkins, and Carol Propper (2000) "Measuring income risk" **CASEpapers**, 40: London: STICERD
- Burgess S, K Gardiner and C Propper (2001) 'Why rising tides don't lift all boats? an explanation of the relationship between poverty and unemployment in Britain' **CASEpapers**, CASE/46. London: STICERD.
- Burkhauser, Richard , V, D R Lillard, M Valenti Paola (2001) "Long-Term Labor Force Exit and Economic Well-Being: A Cross-National Comparison." **Proceedings of the 2000 Fourth International Conference of German Socio-Economic Panel Study Users** (GSOEP 2000) Vierteljahrshefte zur Wirtschaftsforschung Heft 1 (70): pp 146-152. Duncker and Humblot, Berlin.
- Burkhauser, Richard V, B A Butrica, M C Daly, D R Lillard (2000) "The Cross-National Equivalent File: A product of cross-national research." manuscript. **Department of Policy Analysis and Management**. Cornell University.
- Burkhauser, Richard, V, Dean R Lillard and M Valenti Paola (2001) "How exits from the labor force or death impact household income: a four country comparison of public and private income support." **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Burkhauser, Richard, V, Dean R Lillard and M Valenti Paola (2001) "How exits from the labor force or death impact household income: a four country comparison of public and private income support." working paper. **Michigan Retirement Center** (MRRC). University of Michigan.
- Burkhauser, Richard V, T M Smeeding, (2001) 'The role of micro-level panel data in policy research', **Schmollers Jahrbuch**, 121, Heft 4, 469-500.
- Burkhauser, Richard V., P Giles, D R Lillard, J Schwarze, (2003) 'Changes in the economic well-being of widows following the death of their husband: a four country comparison', **IZA Reprint Series A**, 186/2003. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Burniaux Jean-Marc, Flavio Padrini and Nicola Brandt, (2006) 'Labour market performance, income inequality and poverty in OECD countries', **OECD Economics Department Working Papers**, 500. Paris: OECD.
- Burt, Keith B., J Scott, (2002 Apr.) 'Parent and adolescent gender role attitudes in 1990s Great Britain', **Sex Roles**, 46: nos.7/8, 239-245.

- Burton Jonathan, Heather Laurie, Nick Moon (1999) "Don't ask me nothin' about nothin', I just might tell you the truth'. The interaction between unit non-response and item non-response', International Conference on Survey Nonresponse, Portland, Oregon, October 28-31, 1999, Portland, Or.:
- Butcher T (1996) `Unemployment and vacancy stocks and flows: creating a data set for a panel of 'jobcentre travel-to-work' areas and a panel of regions in Great Britain' Colchester: Institute for Social and Economic Research
- Byers S RT Hon MP (2005) 'Centrepont 35th Anniversary Lecture speech, 8th February 2005 London, The Leathersellers Hall'
- Campanelli, P.C. , Sturgis, Patrick., Purdon, Susan (1997) "Can you hear me knocking: An investigation into the impact of Interviewers on Survey Response Rates". London:Survey Methods Centre at SCPR
- Campanelli P and C O'Muircheartaigh (1999) "Interviewers, Interviewer Continuity, and Panel Survey Nonresponse" **Quality & Quantity** 33, no 1, 59-76
- Campanelli Pamela C, Katarina Thomson, Nick Moon, Tessa Staples (1997) 'The quality of occupational coding in the United Kingdom' IN **Survey measurement and process quality**, edited by Lyberg, Lars et al, Ch. 19. New York: John Wiley. 437-456.
- Campbell, David (2001) 'Estimating the wage effects of job mobility in Britain', **Department of Economics Discussion Papers: University of Kent**, 01/17. Canterbury: University of Kent.
- Campbell David, Alan Carruth, Andrew Dickerson, Francis Green (2007) 'Job insecurity and wages', **Economic Journal**, 117 (518):544-566.
- Campbell, David and Francis Green (2002) 'The long term pay-off from working longer hours', **Department of Economics Discussion Papers: University of Kent**, 02/05. Canterbury: University of Kent.
- Campbell John Y; Joao F Cocco (2007) 'How do house prices affect consumption? Evidence from micro data', **Journal Of Monetary Economics**, 54 (3):591-621.
- Campbell N (1999) "The Decline of Employment Among Older People in Britain" **CASEpapers**, CASE/19. London: Centre for Analysis of Social Exclusion: an ESRC Research Centre.
- Cappellari, Lorenzo, S P Jenkins, (2003 Oct.) 'Transitions between unemployment and low pay', **Quaderni Dell'istituto Di Economia Dell'impresa E Del Lavoro Universit' Cattolica Del Sacro Cuore -Milano-**, 36.
- Cappellari Lorenzo, Stephen P Jenkins (2007) 'Summarizing multiple deprivation indicators', Inequality and poverty re-examined, by Stephen P. Jenkins and John Mickelwright (eds.), Oxford: Oxford University Press. Ch. 8: 166-184.
- Cappellari Lorenzo, Stephen P Jenkins (2008) 'Transitions between unemployment and low pay' In Work, earnings and other aspects of the unemployment relation, by S.W.Polachek and K. Tatsiramos (eds), Amsterdam: Elsevier: 57-79.
- Cappellari Lorenzo, Stephen P Jenkins, (2008) 'Estimating low pay transition probabilities accounting for endogenous selection mechanisms', **Journal Of The Royal Statistical Society Series C (APPLIED STATISTICS)**, 57 (2):165-186.
- Carey Sean (2002) 'Undivided loyalties: is national identity an obstacle to European integration?', **European Union Politics**, 3 (4):387-413.

- Carmichael, F. (2000) 'Intergenerational mobility and occupational status in Britain', *Applied Economics Letters*, 7, no.6, 391-396.
- Carmichael Fiona, Claire Hulme, Sally Sheppard, Gemma Connell (2008) 'Work - life imbalance: informal care and paid employment in the UK', *Feminist Economics*, 14 (2):3-35.
- Carroll C D, K E Dynan, S D Krane (2003) 'Unemployment risk and precautionary wealth: evidence from households' balance sheets', *Review Of Economics And Statistics*, 85: no.3 (Aug), 586-604.
- Carruth Alan, Bill Collier, A Dickerson (1999 Dec.) 'Inter-industry wage differences and individual heterogeneity: how competitive is wage setting in the UK?' *Studies In Economics: University Of Kent At Canterbury*, 99/14. Canterbury, Kent: University of Kent.
- Carruth A, W Collier, A Dickerson (2004) 'Inter-industry wage differences and individual heterogeneity', *Oxford Bulletin Of Economics And Statistics*, 66:5 (Dec), 811-846.
- Case Anne, Christina Paxson, Mahnaz Islam, (2008 (May)) 'Making sense of the labor market height premium: evidence from the British Household Panel Survey', *NBER Working Paper Series*, 14007. Cambridge, Mass.: National Bureau of Economic Research.
- Case Anne, Christina Paxson, Mahnaz Islam (2009) 'Making sense of the labor market height premium: evidence from the British Household Panel Survey', *Economics Letters*, 102 (3):174-176.
- Centre for Analysis of Social Exclusion (1998) 'Persistet poverty and lifetime inequality: the evidence: proceedings from a workshop held at H M Treasury, chaired by Professor John Hills, Director of the ESRC Research Centre for Analysis of Social Exclusion, LSE: 17th and 18th November 1998' *CASEReport*, 5. Lodnon: Centre for Analysis of Social Exclusion: an ESRC report.
- Chambers, R L and C J Skinner, eds, in Ch.14 (2001) "Analysis of Surveys". Wiley: Chichester
- Chan Tak Wing (2005) 'The structure of intergenerational exchange in Britain' *BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference*, 30 June -2 July 2005, Colchester, UK.
- Chan Tak Wing, John H Goldthorpe (2004) 'Is there a status order in contemporary British society? evidence from the occupational structure of friendship' *European Sociological Review*, 20:5, 383-401.
- Chan Tak Wing, John H Goldthorpe (2005) 'Class, status and party in contemporary British society', *International Sociological Association Research Committee 28 (RC28) on Social Stratification and Mobility Los Angeles Meeting, August 18-21, 2005*
- Chan Tak Wing, John H Goldthorpe (2007) 'Social status and newspaper readership', *American Journal Of Sociology*, 112 (4):1095-1134.
- Chan, Tak Wing, B Halpin, (2003) 'Who marries whom in Great Britain?', in *Hans-Peter Blossfeld et al (eds) Who marries whom? educational systems as marriage markets in modern societies* Dordrecht: Kluwer Academic.
- Chandola T, P Clarke, D Wiggins, M Bartley, (2003 June) 'Households: the missing level of analysis in multilevel epidemiological studies: the case for multiple membership models', *BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference*, 3-5 July 2001, Colchester, UK
- Chandola Tarani, Paul Clarke Richard D Wiggins, Mel Bartley (2005) 'Who you live with and where you live: setting the context for health using multiple membership multilevel models', *Journal Of Epidemiology And Community Health*, 59 (Feb):170-175.

- Chandola T, J Head, M Bartley (2004) 'Socio-demographic predictors of quitting smoking: how important are household factors?', **Addiction**, 99:6,(June), 770-7.
- Chapman, Polly, E Phimister, M Shucksmith, R Upward, E Vera-Toscano, (1997) 'The dynamics of low income and social exclusion in rural Britain: a preliminary study of rural households using the British Household Panel Survey', **The Arkleton Centre For Rural Development Research Working Paper Series**, 98/02. Aberdeen: The Arkleton Centre.
- Chapman P, E Phimister M Shucksmith R Upward and E Vera-Toscano (1998) "Poverty and exclusion in rural Britain: The Dynamics of low income and employment." Joseph Rowntree Foundation, 54 pages. **York Publishing Services**. York.
- Charlwood Andy (2007) 'The de-collectivisation of pay setting in Britain 1990-98: incidence, determinants and impact', **Industrial Relations Journal**, 38 (1):33-50.
- Chaudhuri, Sanjay, Marl S Handcock, Michael S Rendall (2005 May) 'Generalised linear models incorporating population level information: an empirical likelihood based approach', **University Of Washington: Center For Statistics And The Social Sciences Working Papers**, 48. Washington, DC: University of Washington: Center for Statistics and the Social Sciences.
- Chaudhuri Sanjay, Mark S Handcock and Michael S Rendall, (2008) 'Generalized linear models incorporating population level information: an empirical likelihood-based approach', **Journal Of The Royal Statistical Society Series B** (STATISTICAL METHODOLOGY), 70 (2):311-328.
- Cheli B (1995) "Totally fuzzy and relative measures of poverty in dynamic context" **METRON**: 53 (3/4) whole issue
- Cheli B (2000) 'Poverty dynamics in Great Britain, 1991-1997. A multidimensional, fuzzy and relative approach to analysis' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Chrysanthou Georgios Marios (2007) 'Determinants of trade union membership in Great Britain during 1991-2003', **University Of York Discussion Papers In Economics**, 2007/01. York: University of York: Department of Economics and Related Studies.
- Clark A (1996) "Women's Well-Being at Work", **New Economy**, vol.3, no.1, pp.25-28.
- Clark A (1996) "L'utilité est-elle relative? Analyse à l'aide de données sur les ménages" [Is Utility Relative? Evidence from Household Data], **Economie et Prévision**, no.121, pp.151-164.
- Clark A (1996) "Job Satisfaction in Britain", **British Journal of Industrial Relations**, vol.34, no.2, pp.189-217.
- Clark A (1997) "Job Satisfaction and Gender: Why are Women so Happy at Work?", **Labour Economics**, Vol.4, no.4, pp.341-372.
- Clark A (1999) "Are Wages Habit-Forming? Evidence from Micro Data", **Journal of Economic Behavior and Organization**, Vol.39, no.2, pp.179-200.
- Clark A (2000) "Utilité Relative ou Utilité Absolue ? État des Lieux", **Revue Economique**, Vol.51, no.3, pp.459-471.
- Clark A (2001) "What Really Matters in a Job? Hedonic Measurement Using Quit Data", **Labour Economics**, Vol 8, no 2, pp 223-242.
- Clark A (2001) "Interactions In Labour Force Status, As Revealed By Proxy Utility Data", **Annales d'Economie et de Statistique**, forthcoming.

- Clark A (2001) "Interactions In Labour Force Status, As Revealed By Proxy Utility Data", **Annales d'Economie et de Statistique** Vol 63-64 pp 21-37
- Clark, A E. (2003) 'Unemployment as a social norm: psychological evidence from panel data', **Journal Of Labor Economics**, 21, no.2, 323-351.
- Clark, Andrew, (2003 Jan.) 'Looking for labour market rents with subjective data', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Clark, Andrew, (2003 June) 'Inequality-aversion and income mobility: a direct test', **Delta Documents De Travail**, 2003-11. Paris: DELTA.
- Clark Andrew "Working And Well-Being: Some International Evidence", OECD, mimeo.
- Clark Andrew "Panel Estimation Using Ordinal Data, With an Application to Job Satisfaction" (with Arthur van Soest), University of Orléans, mimeo.
- Clark Andrew "Well-Being in Panels" (with Andrew Oswald), University of Orléans, mimeo.
- Clark Andrew "Looking for Rents using Subjective Labour Market Data" **DELTA** mimeo.
- Clark Andrew "Inter-Industry and Occupation Wage and Job Satisfaction Differentials", LEO, University of Orléans, mimeo.
- Clark Andrew "Inequality-Aversion or Inequality-Loving? Some Surprising Findings" DELTA, mimeo.
- Clark Andrew "Born to be mild: cohort effects in subjective well-being" **DELTA** mimeo.
- Clark Andrew E, Nathalie Colombier, David Masclet (2008) 'Never the same after the first time: the satisfaction of the second-generation self-employed', **International Journal Of Manpower**, 29 (7):591-609.
- Clark, Andrew, H Couprie, C Sofer, (2002 May) 'Household negotiation and labor supply: evidence from the BHPS', Marseille: Institut D'Economie Publique.
- Clark A E, H Couprie, C Sofer (2004) 'La modelisation collective de l'offre de travail: mise en perspective et application aux donnees britanniques', **Revue Economique**, 55: no.4(July), 767-790.
- Clark Andrew E, Nathalie Colombier and David Masclet, (2008 (Mar.)) 'Never the same after the first time: the satisfaction of the second-generation self-employed', **PSE Working Papers**, 2008-14. Paris: Paris-Jourdan Sciences Économiques.
- Clark A, S Dex, M Taylor, (1995) "Household Labour Supply" **Employment Department Research Series** No.43, January 1995.
- Clark A, S Dex, K Perren, D Rose, M Taylor, (1994) "Changes in Economic Activity" in **Changing Households**, N Buck, J Gershuny, D Rose and J Scott (eds.), ESRC Research Centre Press.
- Clark A, F Etilé, (1999) "The Effect of Health Information on Cigarette Consumption: Evidence from British Panel Data", TEAM, Université de Paris 1, Discussion Paper No.1999.90.
- Clark A, F Etilé, (2002) "Do health changes affect smoking? evidence from British Panel Data **Journal of Health Economics** Vol 21 No 4 pp 533-562.
- Clark A, F Etilé, "Don't give up on me baby: spousal correlation in smoking behaviour" **DELTA** mimeo. [Etilé](#)

- Clark A, Y Georgellis, "Kahneman meets the quitters: peak-end behaviour in the labour market" **DELTA** mimeo.
- Clark Andrew E, Yannis Georgellis (2007) 'Kahneman meets the quitters: peak-end behaviour in the labour market', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Clark Andrew E, Orsolya Lelkes (2005 Dec.) 'Deliver us from evil: religion as insurance', **PSE Working Papers**, 2005-43. Paris: Paris-Jourdan Sciences Économiques.
- Clark A, M Maurel (2001) "Well-Being and Wage Arrears in Russian Panel Data", **HSE Economic Journal**, Vol.5, no.2, pp.179-193.
- Clark Andrew, A Oswald, (1994) "Unhappiness and Unemployment" **Economic Journal**, Vol.104, No.424, pp.648-659.
- Clark A, A Oswald, P Warr, (1996) "Is job satisfaction U-shaped in Age?" **Journal of Occupational and Organizational Psychology**, Vol 69, no.1, pp. 57-81.
- Clark A, A Oswald, (1996) "Satisfaction and Comparison Income" **Journal of Public Economics**, Vol.61, no.3, pp.359-81.
- Clark A, A Oswald, (2002) "A simple statistical model for measuring how life events affect happiness" **Journal of Epidemiology** Vol 31, No 6, pp 1139-1144.
- Clark A, A Solaz, "The impact of unemployment on the separation risk of British couples" **DELTA** mimeo.
- Clark Stephen D (2009) 'Characterising and predicting car ownership using rough sets', **Transportation Research Part C: Emerging Technologies**, 17 (4):381-393.
- Clarke Harriet, Stephen McKay (2008) 'Exploring disability, family formation and break-up: reviewing the evidence', **Department For Work And Pensions Research Reports**, 514. Norwich: HMSO.
- Clarke L, E Cooksey, G Verropoulou and M Van Willigen (1996) "The Experience of Parenthood: Fathers and Mothers Compared in Britain and the United States" presented at the **BSPS conference**.
- Clarke L, M S Rendall, H E Peters, N Ranjit and G Verropoulou (1997) "Retrospective and Panel Underreporting of Male Fertility in the United States and Britain", **Population Association of America conference** The paper has also been accepted for the IUSSP conference in Beijing.
- Clarke L, E C Cooksey, G Verropoulou and M Van Willigen (1996) "The Experience of Parenthood: Fathers and Mothers Compared in Britain and the United States" by, presented at the **BSPS conference**.
- Clarke L, E C Cooksey and G Verropoulou (1998) "Fathers and Absent Fathers: Socio-demographic Similarities in Britain and the United States?" **Demography**, 35.2 May 217-228
- Clark, Tom and Carl Emmerson (2002) 'The tax and benefit system and the decision to invest in a stakeholder pension', **The Institute For Fiscal Studies Briefing Notes**, 28. Institute for Fiscal Studies.
- Clark W A V, Y Huang (2003) 'The life course and residential mobility in British housing markets', **Environment And Planning**, 35: 323-339.

- Clementi F, M Gallegati, G Kaniadakis (2007) 'k -generalized statistics in personal income distribution', ***European Physical Journal B: Condensed Matter And Complex Systems***, 57 (2):187-193.
- Coast Ernestina (2007) 'Currently cohabiting: relationship attitudes, intentions and behaviour -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Cockburn, T. 'Non-formal welfare: care and caring -mimeo-', Bradford: University of Bradford.
- Collier, Bill (2000) "The UK Wage Curve: New Evidence from the British Household Panel Survey", ***BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference***, 5-7 July 2001, Colchester, UK.
- Collier, W J C (2000) "The UK Wage Curve: New Evidence from the British Household Panel Survey", ***University of Kent Department of Economics Discussion Papers***, 00/11. Canterbury: University of Kent.
- Collier, W J C (2001) "Labour Market Heterogeneity: Wage Determination and Unemployment Duration", PhD Thesis, University of Kent.
- Conti Gabriella, Stephen Pudney (2008) 'If you're happy and you know it, clap your hands! Survey design and the analysis of satisfaction', ***ISER Working Papers***, 2008-39. Colchester: University of Essex.
- Connolly, S, M Gregory (2002) 'The National Minimum Wage and hours of work: implications for low paid women', ***Oxford Bulletin Of Economics And Statistics***, 64: 607-631.
- Connolly Sara, Mary Gregory (2007) 'Moving down: women's part-time work and occupational change in Britain 1991-2001', ***IZA Discussion Papers***, 3106. Bonn: Institute for the Study of Labor.
- Connolly Sara and Mary Gregory, (2008) 'Moving down: women's part-time work and occupational change in Britain 1991-2001', ***Economic Journal***, 118 (526):F52-F76.
- Contoyannis, Paul, A M Jones, R Leon-Gonzalez, (2004) 'Using simulation-based inference with panel data in health economics', ***Health Economics***, 13: 101-122.
- Contoyannis P, A M Jones, N Rice (2003 Apr.) 'The dynamics of health in the British Household Panel Survey', ***Journal Of Applied Econometrics***, 19(4), 473-503
- Contoyannis, Paul, A M Jones, N Rice (2004) 'Simulation-based inference in dynamic panel probit models: an application to health', ***Empirical Economics***, 29: 49-77.
- Contoyannis Paul, Andrew M Jones (2004) 'Socio-economic status, health and lifestyle', ***Journal Of Health Economics***, 23 (5):965-995.
- Contoyannis, Paul, N Rice, (2001) "The impact of health on wages: evidence from the British Household Survey" ***Empirical Economics***, 26: 599-622.
- Corden Anne and Michael Hirst, (2008) 'Implementing a mixed methods approach to explore the financial implications of death of a life partner', ***Journal Of Mixed Methods Research***, 2 (3):208-220.
- Corden Anne, Michael Hirst, Katharine Nice (2009 March) 'Financial implications of death of a partner', ***Research Works Research Findings From The Social Policy Research Unit***, 2009-01. York: Social Policy Research Unit. University of York.
- Corden A, S Hutton and R Sainsbury (1998) Self-employed people: a literature review for the contributions agency Department of Social Security: Social Research Branch

- Corti, Louise, P C Campanelli, (1992) "Utility of feeding forward earlier wave data for panel studies" book chapter in Westlake A (ed) **Survey and statistical computing: proceedings of an international conference organised by the Study Group on Computers in Survey analysis, Bristol, UK**, September 24-26 : 109-118
- Corti, Louise, H Laurie, S Dex, (1995) "Caring and Employment" London: **Employment Department Research Series No 39**
- Corti, Louise, S Dex, (1995) "Highly qualified women" **Employment Gazette (Mar)**: 103 no3:115-122
- Couprie Helene (2007) 'Time allocation within the family: welfare implications of life in a couple', **Economic Journal**, 117 (516):287-305.
- Courbage Christophe, Augustin de Coulon (2004) 'Prevention and private health insurance in the UK' **The Geneva Papers On Risk And Insurance**, 29: 4 (Oct.): 719-727.
- Cowling Marc, Mark P Taylor, Peter Mitchell (2004) 'Job creators', **Manchester School** (1998), 72 (5):601-617.
- Cox, Pru, J Whitley, P Brierley, (2002 Winter) 'Financial pressures in the UK household sector: evidence from the British Household Panel Survey', **Bank Of England Quarterly Bulletin**, 410-419.
- Crespi, Isabella (2003 July) 'Gender socialization within the family: a study on adolescents and their parents in Great Britain', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK,
- Crockett A., David Voas (2003) 'A divergence of views: attitude change and the religious crisis over homosexuality' **Sociological Research Online**, 8: no.4.
- Croll Paul (2004) 'Families, social capital and educational outcomes', **British Journal Of Educational Studies**, 52 (4):390-416.
- Croll Paul (2008 (Jan.)) 'Occupational choice, socio-economic status and educational attainment: a study of the occupational choices and destinations of young people in the British Household Panel Survey', **Research Papers In Education**, [Online Early].
- Croll, Peter, D Moses, (2003 June) 'Young people's trajectories into post-16 education and training', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Crook, Jonathan (2005) 'The measurement of household liabilities: conceptual issues and practice', **CRC Working Papers**, 05/1. Edinburgh: University of Edinburgh: School of Management: Credit Research Centre.
- Crook Jonathan N (2006) 'Household debt demand and supply: a cross-country comparison', In *The economics of consumer credit*, by G. Bertola, R. Disney, and C. Grant (eds.), Cambridge, Mass.: MIT Press. Ch.3 :63-92.
- Crouchley, Robert and Gholamereza Oskrochi (1999) 'Testing for sample selection bias in the labour market behaviour of respondents from the British Household Panel Survey', **Centre For Applied Statistics Working Paper Series**, 2000/02. Lancaster: Lancaster University.
- Crouchley R (2000) 'A random effects treatment of dropout in the multi-spell multi-state labour market panel data' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.

- Crouchley Robert, Gholamereza Oskrochi (1999) 'Testing for the ignorability of the spatial component of the sample design of the British Household Panel Survey for labour market behaviour' **Centre For Applied Statistics Lancaster University Working Paper Series**, 2000/02. Lancaster: Lancaster University.
- Crouchley, Robert, Steve Bradley and Gholamereza Oskrochi (2002) 'Evaluating the impact of missing data in social research: simulations and applications using the BHPS and the NCDS', *Centre For Applied Statistics Working Paper Series*, 2002/01. Lancaster: Lancaster University.
- Croudace Tim J (2007) 'Positive mental health versus emotional distress in the BHPS -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Curry, Chris and Alison O'Connell (2003) 'The pensions landscape', London: Pensions Policy Institute, Kings College.
- Cusworth Linda (2007) 'The impact of parental employment and unemployment on children and young people -PhD thesis-', Nottingham: Nottingham University. Faculty of Law and Social Science: School of Sociology and Social Policy.
- Dale Angela, M Egerton, (1997) "Highly educated women: evidence from the National Child Development Study" **Department for Education and Employment Research Studies 25:** Stationery Office
- Dale, Angela, M Elliot, (1998) 'A report on the disclosure risk of proposals for SARs from the 2001 Census', **CCSR Working Paper Series**, 5. Manchester: Cathie Marsh Centre for Census and Survey Research.
- Daly Mary C and Robert G Valletta, (2008) 'Cross-national trends in earnings inequality and instability', **Economics Letters**, 99 (2):215-219.
- Dargay Joyce M, Mark Hanly (2003 June) 'Travel to work: an investigation based on the British Household Panel Survey' **TSU Publications**, London: ESRC Transport Studies Unit.
- Dargay, Joyce M, Mark Hanly, (2003 July) 'A panel exploration of travel to work: an investigation based on the British Household Panel Survey', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Dargay, Joyce, M Hanly (2003 Oct.) 'A panel data exploration of travel to work', Presented at the European Transport Conference Strasbourg, France October 2003, ESRC Transport Studies Unit.
- Dargay, Joyce, Mark Hanly (2004 Feb.) 'Volatility of car ownership, commuting mode and time in the UK', For presentation at the World Conference on Transport Research Istanbul, Turkey, July 2004,
- Dargay Joyce, Mark Hanly (2007) 'Volatility of car ownership, commuting mode and time in the UK', **Transportation Research Part A: Policy & Practice**, 41 (10):934-948.
- Dargay Joyce M, Mark Hanly, Jean-Loup Madre, Laurent Hivert, Bastian Chlond (2003 Aug.) 'Demotorisation seen through panel surveys: a comparison of France, Britain and Germany' Moving through nets: the physical and social dimensions of travel: 10th International Conference on Travel Behaviour Research: Lucern, 10-15 August 2003.
- Davies H, H Joshi, (2001) "Who Bears the Cost of Britain's Children in the 1990's?" in K Vlemingckx, T M Smeeding (eds.) Child well-being in Modern Nations, The Policy Press, Bristol 299-320

- Davies H, H Joshi, M Killingsworth, R Peronaci, (2000) "How do couples spend their time? Hours of market and domestic work time in British partnerships" ***Gender and the labour market: econometric evidence on obstacles in achieving gender equality*** Siv Gustafsson and Danièle Meulders (eds.) Basingstoke; 226-259. Macmillan.2000, Ch 11. London
- Davies H, H Joshi and R Peronaci (1999) "Life-Cycle Income and Motherhood: Simulations for British Women of the 1990s" in J Tavares Bucher (ed) *Ageing in a Gendered World: Issues and Identify for Women*. INSTRAW/UN Publications. Santo Domingo.
- Davies H, H Joshi and R Peronaci (2000) "Forgone Income and Motherhood: What do recent British data tell us?" ***Population Studies***, 54,3, 293-305.
- Davies H, H Joshi and R Peronaci "Mrs. Typical II: the Foregone Earnings of Britain's Mothers in the 1990s" ***Birkbeck College Discussion Paper in Economics***, 7/98
- Davies H, H Joshi and R Peronaci "Dual and zero earner couples in Britain: longitudinal evidence on polarization and persistence" ***Birkbeck College Discussion Paper in Economics***, 8/98
- Davies H and R Peronaci (1997) "Male Wages and Living Arrangements: Recent Evidence for Britain" ***Birkbeck College Discussion Paper in Economics***, 5/97
- Davies H, R Peronaci, H Joshi, (1996) "Female Labour Force Participation in Britain, 1980 v 1994" ***Typescript, Birkbeck College***
- Davies H, R Peronaci, H Joshi, (1998) "The Gender Wage Gap and Partnership" ***Birkbeck College Discussion Paper in Economics***, 6/98. London: Birkbeck College: Department of Economics.
- Davies H, R Peronaci, H Joshi, (1998) "The wage gap between spouses" Typescript, ***Birkbeck College***. September.
- Davies H, K Rake, H Joshi and R R K Alami (ed) (2000) 'Women's incomes over their lifetime' London: Stationery Office.
- Davies, Rhys, P Elias, G Pierre, (2003 Feb.) 'European estimates of the family gap in pay: evidence from the ECHP, BHPS and GSOEP', ***EPUNet-2003 Conference: the conference of the European Panel Users Network***: 3-5 July 2003, Colchester,
- Dearden Lorraine, Emla Fitzsimons, Alissa Goodman and Greg Kaplan, (2008) 'Higher education funding reforms in England: the distributional effects and the shifting balance of costs', ***Economic Journal***, 118 (526):F100-F125.
- Dearden Lorraine, Emla Fitzsimons, Alissa Goodman, Greg Kaplan (2008 Feb.) 'Higher education funding reforms in England: the distributional effects and the shifting balance of costs', ***DIUS Research Brief***, CEE-08-01. Sheffield: Great Britain. Department for Innovation, Universities and Skills.
- Dearden, Lorraine, Julian McCrae and Jonathan Thomas (1999) 'Education, work-related training and labour market transitions in Britain', London: Institute for Fiscal Studies.
- Debels Annelies and Leen Vandecasteele, (2008) 'The time lag in annual household-based income measures: assessing and correcting bias', ***Review Of Income And Wealth***, 54 (1):71-88.
- Degenne Alain (2004) 'Researching social and economic change: the uses of household panel studies, edited by David Rose - book review -', ***European Sociological Review***, 20 (2):165-168.
- de Haan A and S Maxwell (1998) 'Poverty and social exclusion in north and south' Brighton: Institute of Development Studies

- De Henau Jerome and Susan Himmelweit, (2007 Oct.) 'Struggle over the pie? The gendered distribution of power and subjective financial well-being within UK households', **Open University Discussion Papers In Economics**, 66. Milton Keynes: Open University Press.
- Dekker R (2000) 'Unemployment durations in a 'flexible' career: evidence for Great Britain and Germany' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Dekker, Ronald (2001) 'Are flexworkers really being paid less? wage comparisons over time in Germany, the Netherlands and Great Britain', **Paper for the EEEG Conference**, July 2-4, 2001, University of Leicester.
- Dekker Ronald (2007) 'Non-standard employment and mobility in the Dutch, German and British labour market', Ridderkerk: Ridderprint.
- Dekker Ronald (2008 (Apr.)) 'Part-time work as a transitional phase? The role of preferences and institutions in Germany, Great Britain and The Netherlands.', **MPRA Papers**, 8029. Munich: Munich University Library (Munich Personal RePEc Archive).
- Dekker Ronald (2008 (Mar.)) 'Unemployment durations after temporary work: evidence for Great Britain and Germany', **MPRA Papers**, 7646. Munich: Munich University Library (Munich Personal RePEc Archive).
- Dekker, Ronald and Lutz C Kaiser (2000) "Atypical or flexible? how to define non-standard employment patterns: the cases of Germany, the Netherlands and the United Kingdom" **EPAG Working Papers**, 14. Colchester: University of Essex
- Del Boca Daniela, Cecile Wetzels (ed.) (2008) 'Social policies, labour markets and motherhood: a comparative analysis of European countries', Cambridge: Cambridge University Press.
- Del Bono Emilia, John Ermisch Marco Francesconi (2008) 'Intrafamily resource allocations: a dynamic model of birth weight', **ISER Working Papers**, 2008-27. Colchester: University of Essex.
- Della Giusta Marina, Uma Sarada Kambhampati (2008) 'Are we getting it right? Values and life satisfaction', **CIP Working Papers**, 2008-073. Reading: University of Reading: Centre for Institutional Performance.
- Del-Rio Ana, Garry Young (2005) 'The impact of unsecured debt on financial distress among British households', **Bank Of England Quarterly Bulletin**, 45 (2):186
- Del-Rio Ana, Garry Young (2005) 'The determinants of unsecured borrowing: evidence from the British Household Panel Survey', **Bank Of England Quarterly Bulletin**, 45 (2):187
- Del-Rio Ann, Garry Young (2006) 'The determinants of unsecured borrowing: evidence from the BHPS', **Applied Financial Economics**, Bank of England. 16 (15):1119-1144.
- Del-Rio Ana, Garry Young (2008) 'The impact of unsecured debt on financial pressure among British households', **Applied Financial Economics**, 18 (5):1209-1220.
- Department of Social Security (1998) **Households Below Average Income, A Statistical Analysis**, 1979 - 1996/97, HMSO
- Dermott Esther (2006) 'The effect of fatherhood on men's patterns of employment: ESRC end of award report RES-000-22-0636', Swindon: ESRC.
- Dermott Esther (2008) 'Intimate fatherhood: a sociological analysis', London: Routledge.

- Dessy Orietta (2004) 'Nominal wage flexibility and institutions: preliminary micro-evidence from the Europanel', **University Of Milan: Department Of Economics Working Papers**, 2004-17. Milan: University of Milan: Department of Economics.
- Destefanis Sergio, Vania Sena (2006) 'Health, capabilities and functionings: an empirical analysis for the UK', **Csef Working Papers**, 151. Fisciano: University of Salerno: Centre for Studies in Economics and Finance.
- Devicienti, Francesco (2002) 'Poverty persistence in Britain: a multivariate analysis using the BHPS, 1991-1997', **Journal Of Economics**, Suppl. 9: 307-340.
- Devicienti, Francesco (2003) 'Essays on earnings and poverty', Colchester: Institute for Social and Economic Research: University of Essex.
- Devine, Fiona and John Michael Roberts, (2002) "You get a committed core and then that core drags other people into it": some early findings on the informal and formal processes of mobilisation'. Political Studies Association Conference 2002.
- Dewilde Caroline (2004) 'The multidimensional measurement of poverty in Belgium and Britain: a categorical approach', **Social Indicators Research**, 68 (3):331-369.
- Dex, Shirley (2000) "Families and the labour market: trends, pressures and policies" London: Family Policy Studies Centre
- Dex, S, A Clark and M Taylor (1995) "Household labour supply" London: **Employment Department Research Series**, No 43
- Dex S and A McCulloch (1995) "Flexible employment in Britain: a statistical analysis" **EOC Research Discussion Series**, 15. Equal Opportunities Commission
- Dex, Shirley and Andrew McCulloch (1997) **Flexible employment: the future of Britain's jobs** Basingstoke Macmillan
- Dex S and H Laurie (1996) "Comparative analysis using large scale national data sources of women's employment" **BMS** (Sept) :52 :55-77
- Dickens, Richard (2000) 'Caught in a trap? wage mobility in Great Britain: 1975-1994', **Economica**, 67, 477-497.
- Dickens Richard and Stephin Machin, (1998) 'Minimum wage: maximum impact?', **Centrepiece**, 3 (3):10-13.
- Dickens Richard, Alan Manning (2004) 'Has the national minimum wage reduced UK wage inequality?', **Journal Of The Royal Statistical Society Series A (Statistics In Society)**, 167 (4):613-626.
- Dieckhoff Martina (2008) 'Skills and occupational attainment: a comparative study of Germany, Denmark and the UK', **Work Employment And Society**, 22 (1):89-108
- Dieckhoff Martina, Jean-Marie Jungblut, Philip J O'Connell (2007) 'Job-related training in Europe: do institutions matter?', In *Employment regimes and the quality of work*, by Duncan Gallie (ed.), Oxford: Oxford University Press. Ch.3 :77-103.
- Dillner Luisa (2009) 'Love by numbers: the hidden facts behind everyone's relationships', London: Profile Books.
- Disney, Richard (2000) 'Declining public pensions in an era of demographic ageing: will private provision fill the gap?', *University of Nottingham Discussion Papers in Economics*, 99/27. Nottingham: Nottingham University. School of Economics.

- Disney Richard, Sarah Bridges and John Gathergood, (2006) 'Housing wealth and household indebtedness: is there a household 'financial accelerator'?', **CNB Working Paper Series**, 12/2006. Prague: Czech National Bank.
- Disney Richard, C Emmerson, (2001) "Labour mobility and the choice of private pension in the UK" **IFS Working Paper No 02/09**
- Disney, Richard, C Emmerson, (2002 Apr.) 'Choice of pension scheme and job mobility in Britain', **IFS Working Paper Series**, WP02/09. London: Institute for Fiscal Studies.
- Disney Richard, C Emmerson, S Smith (2003, forthcoming) "Pension reform and economic performance in Britain in the 1980s and 1990s" in R Blundell, D Card and R Freeman (eds) **Creating a premier league economy, NBER**
- Disney, Richard, C Emmerson, M Wakefield, (2001) 'Pension reform and saving in Britain', **Oxford Review Of Economic Policy**, 17(1) pp7094.
- Disney, Richard, C Emmerson, M Wakefield, (2003 June) 'Ill-health and retirement in Britain: a panel data based analysis', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Disney Richard, John Gathergood 'Housing wealth, liquidity constraints and self-employment', **Labour Economics** (2008), doi: 10.1016/j.labeco.2008.05.002
- Disney Richard, A Goodman, A Gosling, C Trinder, (1998) 'Public pay in Britain in the 1990s' **Institute for Fiscal Studies Commentary** – series- 72. London: Institute for Fiscal Studies.
- Disney Richard, A Gosling (1998) 'Does it pay to work in the public sector?' **Fiscal Studies**, Vol 19, no 4, 347-374
- Disney, Richard, A Henley, D Jevons, (2002) 'House price shocks, negative equity and household consumption in the UK in the 1990s', **Royal Economic Society Annual Conference 2002**, 64. Royal Economic Society.
- Dittrich Regina, Brian Francis, Walter Katzenbeisser (2008 Jul.) 'Temporal dependence in longitudinal paired comparisons', **Vienna University Of Economics And Business: Department Of Statistics And Mathematics Research Report Series, 67**. Vienna: Vienna University of Economics and Statistics.
- Dixon, Sylvia (2003 May) 'Job relocations and employer-assisted migration', **Labour Market Trends**, 111: no.5, 239-246.
- Dobbelsteen, Simone, P Kooreman, (1997) 'Financial management, bargaining and efficiency within the household: an empirical analysis' **Economist**, 145(3): 345-366.
- Dolan Paul (n.d.) 'Finding a NICEr way to value health: from hypothetical preferences to real experiences', SMF Foresight, London: Social Market Foundation.
- Donnellan M. Brent, Richard E Lucas (2008) 'Age differences in the big five across the life span: evidence from two national samples', **Psychology And Aging**, 23 (3):558-566.
- Dorling, Daniel (2000) **What matters most to the people of Britain?** University of Bristol: School of Geographical Sciences
- Dornan Paul (2003) '**Guaranteeing** minimum income in old age? Means testing in the twenty-first century -PhD Thesis-', York: University of York.

- Duclos Jean-Yves David Sahn, Stephen D Younger (2007) 'Robust multidimensional poverty comparisons with discrete indicators of well-being', *Inequality and poverty re-examined*, by Stephen P. Jenkins and John Mickelwright (eds.), Oxford: Oxford University Press. Ch. 9: 185-206.
- Duffy Bobby (2004) 'Life satisfaction and trust in other people', London: MORI.
- Durkan, Joseph, Colm P Harmon and Jenny Hughes 'Health services utilisation in the UK : an empirical analysis using microdata', **Maynooth College Economics Department Working Papers Series**, N65/07/96. Kildare, Irl.:
- Dustmann Christian and Sonia C Pereira, (2008) 'Wage growth and job mobility in the United Kingdom and Germany', **Industrial And Labor Relations Review**, 61 (3):374-393.
- Dutta, Jayasri, J A Sefton and M R Weale (2001) 'Income distribution and income dynamics in the United Kingdom', **Journal Of Applied Econometrics**, 16, no.5, 599-617.
- d'Uva T B (2005) 'Latent class models for use of primary care: evidence from a British panel', **Health Economics**, 14 (8):873-892.
- d'Uva, T.M.M.B. (2006) 'Heterogeneity in econometric analyses of health and health care -PhD Thesis-', York: University of York.
- Eardley, Tony. Corden, Anne (1996) **Self employed earnings and income distribution: problems of measurement** University of York : Social Policy Research Unit
- Easaw Joshy, Saeed Heravi'Are household subjective forecasts of personal finances accurate and useful? A directional analysis of the British Household Panel Survey', **Journal Of Forecasting**, (2008), doi: 10.1002/for.1114
- Economic and Social Research Council (2008) 'Happiness: how being a man or a woman makes a difference', **Britain In 2009: The State Of The Nation**: 100-101.
- Egerton, Muriel (2002) 'Family transmission of social capital: differences by social class, education and public sector employment', **Sociological Research Online**, 7: no.3.
- Ehling M, U Rendtel (2004 Dec.) 'Harmonisation of panel surveys and data quality', **Wiesbaden: Statistisches Bundesamt**.
- Elias Peter (2004) 'Restructuring, reskilling and redundancy: a study of the dynamics of the UK labour market, 1990-1995', **Dados: Revista De Ciências Sociais**, 47 (3):419-471.
- Elliott R, V Gerova (2002) 'The distribution and structure of pay in Scotland and England', In John Ermisch and R E Wright *Living in Scotland: findings from the British Household Panel Survey*: University of Stirling, 4 October 2002, Stirling
- Emmerson C (2002 Oct.) 'Pension reform in the United Kingdom increasing the role of private provision?', **Oxford Institute Of Ageing Working Papers**, 402. Oxford: Oxford Institute of Ageing
- Emmerson Carl, Howard Reed, Andrew Shephard (2004 Dec.) 'An assessment of Pensim2', **IFS Working Paper Series**, WP04/21. Institute for Fiscal Studies.
- Emmerson C, M Wakefield (2002) "The saving gateway and the child trust fund: is asset-based welfare 'Well Fare'?" **Commentary No 85** London: Institute for Fiscal Studies
- Emmerson C, M Wakefield (2002) "Should we encourage saving among those with low(er) incomes?" **How people on low incomes manage their finances** ESRC

- Emmerson C, M Wakefield (2002) 'Getting the saving habit: should we encourage saving among those with low(er) incomes?', *How people on low incomes manage their finances*, Swindon: ESRC. 46-52.
- Ercolani M G and S P Jenkins (1998) "Polarisation of work and the distribution of income in Britain" *Institute for Labour Research, Discussion Paper 98/20*: University of Essex
- Ermisch J (1996) 'Parental support for human capital investment by young adults', *CEPR Discussion Papers*, 1536, London: Centre for Economic Policies Research.
- Ermisch J (1997) 'Premarital cohabitation, childbearing and the creation of one-parent families' *Economics of the family and family policies*, Ch 6, 119-138. London: Routledge.
- Ermisch J (2001) 'Parental support for young men', Colchester: Institute for Social and Economic Research: University of Essex.
- Ermisch John (2001) 'Births outside marriage: the real story', *The Edge*, 8.
- Ermisch John (2005) 'Comparison of living arrangements', *Changing Scotland: evidence from the British Household Panel Survey* by John F. Ermisch and Robert E. Wright (eds.), Ch. 4. Bristol: Policy Press. 47-62.
- Ermisch John (2005) 'The puzzling rise in childbearing outside marriage' IN *Understanding social change* by Anthony R. Heath, John Ermisch, and Duncan Gallie, eds, ch.2. Oxford: Oxford University Press., 23-54.
- Ermisch John (2007) 'Child support and non-resident fathers' contact with their children', *Journal Of Population Economics*, [Online First].
- Ermisch John (2008) 'An economic history of bastardy in England and Wales' In *Quantitative economic history: the good of counting*, by Joshua L. Rosenbloom (ed.), London: Routledge. Ch.2: 8-33.
- Ermisch John (2008) 'The new dynamics of family formation and the explosion of childbearing outside marriage' In *Women and employment: changing lives and new challenges*, by Jacqueline Scott, Shirley Dex and Heather Joshi (eds), Cheltenham: Edward Elgar. Ch.5: 133-155.
- Ermisch John (2008) 'Adult child-parent relationships', In *Changing relationships*, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.8: 127-145.
- Ermisch John (2008) 'Young child-parent relationships', In *Changing relationships*, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.7: 111-126.
- Ermisch John, Malcolm Brynin (2008) 'Introduction: the social significance of relationships', In *Changing relationships*, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.1: 3-28.
- Ermisch J, M Francesconi (1997) 'Educational choice, families and young people's earnings' *Journal of Human Resources*, 35, no 1, winter 2000. ESRC Research Centre on Micro-social Change: University of Essex.
- Ermisch J, M Francesconi, (1997) 'Family matters' *Centre for Economic Policy Research Discussion Papers*, 1591. London: Centre for Economic Policy Research.
- Ermisch J, M Francesconi, (2000) 'Cohabitation in Great Britain: not for long, but here to stay' *Journal Of The Royal Statistical Society Series A (Statistics In Society)*, 163, part 2, 153-171: Royal Statistical Society

- Ermisch J, M Francesconi, (2000) 'Increasing complexity of family relationships: lifetime experience of single motherhood and stepfamilies in Great Britain' article, ***European Journal of Population***, 16, 235-249. Kluwer Academic.
- Ermisch J, M Francesconi, (2000 Nov.) 'The effect of parents' employment on children's educational attainment', ***IZA Discussion Papers***, 215. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Ermisch J, M Francesconi, (2001) 'The effects of parents' employment on children's lives' York: Joseph Rowntree Foundation
- Ermisch J, M Francesconi, (2001) 'Family matters: impacts of family background on educational attainments' ***Economica***, 68, no 270, 137-156. London School of Economics and Political Science.
- Ermisch J, M Francesconi, (2001) 'Family structure and children's achievements' ***Journal of Population Economics***, 14, 249-270. Springer-Verlag
- Ermisch John, Marco Francesconi (2003) 'Family structure and children's achievements' In Family, household and work, by Klaus F. Zimmermann and Michael Vogler (eds), Berlin: Springer: 151-172.
- Ermisch J, M Francesconi (2004) 'Intergenerational mobility in Britain: new evidence from the British Household Panel Survey', IN Generational income mobility in North America and Europe, ch.7: 147-189. Cambridge: Cambridge University Press.
- Ermisch John, Marco Francesconi (2005) 'Parental employment and children's welfare' IN ***Women at work: an economic perspective***, by Boeri, Tito, Del Boca, Daniela and Pissarides, Christopher (eds), ch. 9. Oxford: Oxford University Press. 154-193.
- Ermisch John, Marco Francesconi, David J Pevalin (2001) 'Outcomes for children of poverty', ***Department For Work And Pensions Research Reports***, 158. London: Corporate Document Services.
- Ermisch J, M Francesconi, D J Pevalin, (2004) 'Parental partnership and joblessness in childhood and their influence on young people's outcomes', ***Journal Of The Royal Statistical Society: A***, 167, Part 1, 69-101.
- Ermisch John, Diego Gambetta, Thomas Siedler and S C Noah Uhrig (2007) 'Measuring people's trust', ***ISER Working Papers***, 2007-32. Colchester: University of Essex.
- Ermisch J, S P Jenkins, (1999) 'Retirement and housing adjustment in later life: evidence from the British Household Panel Survey', ***Labour Economics***, 6(2), 311-333.
- Ermisch John, Cheti Nicoletti (2005 Sept.) 'Intergenerational earnings mobility: changes across cohorts in Britain' ***ISER Working Papers, 2005-19. Colchester: Institute for Social and Economic Research***: University of Essex.
- Ermisch John and Cheti Nicoletti (2007) 'Intergenerational earnings mobility: changes across cohorts in Britain', ***The B.E. Journal Of Economic Analysis And Policy***, 7 (2):Article 9.
- Ermisch J, D J Pevalin (2004) 'Early childbearing and housing choices', ***Journal Of Housing Economics***, 13(Apr): 170-194.
- Ermisch John and Chiara Pronzato (2008) 'Intra-household allocation of resources: inferences from non-resident fathers' child support payments', ***Economic Journal***, 118 (527):347-362.
- Ermisch John, Thomas Siedler (2008) 'Living apart together', In Changing relationships, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.2: 29-43.

- ESRC (1996) 'Analysis of large and complex datasets (ALCD) research programme special issue' ***Journal of the Royal Statistical Society Series A (Statistics in Society)***, 159, part 2, 197-199. Blackwell Publishers.
- ESRC (1997) "Family change: demographic and attitudinal trends across nations and time" ***Research Results: ESRC Population and Household Change Research Programme***: (Jun) no1:whole issue
- ESRC (1997) "Intergenerational relationships and household change" ***Research Results: ESRC Population and Household Change Research Programme***: (Oct): no5: whole issue
- ESRC (1997) "One person households in England and Wales and France" ***Research Results: ESRC Population and Household Change Research Programme*** (Oct) :no7:whole issue
- ESRC Research Centre on Micro-social Change (1998) 'Work now – pay later? the impact of long work hours on health and family life' ***Insights***, Swindon: ESRC.
- ESRC Centre for Business Research (1999) "Job insecurity and work intensification: Queens' College, Cambridge, Thursday 9th September 1999: conference pack" Cambridge: ESRC Centre For Business Research.
- ESRC (1999) 'Happy to get on their bikes', *The Edge*, 2: 17.
- Etilé F (2000) 'The effect of health information on cigarette consumption: evidence from British panel data' ***BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference***, 5-7 July 2001, Colchester, UK.
- Evandrou, M, J Falkingham K Rake and A Scott (2001) 'The Dynamics of Living Arrangements in Later Life: preliminary findings' Discussion Paper 4 ***London: ESRC-SAGE research group***, London School of Economics.
- Evandrou, M, J Falkingham K Rake and A Scott (2001) 'The Dynamics of living arrangements in later life: evidence from the British Household Panel Survey' ***Population Trends*** no. 105 pp26-33.
- Evandrou, Maria, Jane Falkingham, Paul Johnson and Katherine Rake (2001 Feb.) 'Simulating social policy for an ageing society a research agenda', ***SAGE Discussion Paper Series***, 1. London: ESRC SAGE Research Group.
- Evandrou Maria, Karen Glaser (2004) 'Family, work and quality of life:changing economic and social roles through the lifecourse', ***Ageing And Society***, 24 (5):771-791.
- Fagan Colette, Brendan Halpin, Jacqueline O'Reilly (2005) 'Service sector employment in Germany and the UK', ***Schmollers Jahrbuch***, 125 (1):97-108.
- Fagg James (2007) 'Modelling trajectories of self-esteem in the British Household Panel Study - abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK.
- Felices Guillermo, David Tinsley (2004) 'Intertemporal substitution and household production in labour supply', ***Bank Of England Quarterly Bulletin***, 44 (4):458-458.
- Felstead Alan, Duncan Gallie (2004) 'For better or worse? Non-standard jobs and high involvement work systems', ***International Journal Of Human Resource Management***, 15 (7):1293-1316.
- Ferreira Priscila, Mark P Taylor (2008) 'Residential mobility, mobility preferences and psychological health', In *Changing relationships*, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.10: 161-179.

- Ferrer-i-Carbonell Ada, John M Gowdy (2005) 'Environmental awareness and happiness', **Rensselaer Working Papers In Economics**, 0503. Troy, N.Y.: Rensselaer Polytechnic Institute: Department of Economics.
- Ferrer-i-Carbonell Ada, John M Gowdy (2007) 'Environmental degradation and happiness', **Ecological Economics**, 60 (3):509-516.
- Ferri, Elsa, John Bynner and Michael Wadsworth (2003) 'Changing Britain, changing lives: three generations at the turn of the century', London: Institute of Education. University of London.
- Fevre Ralph (2007) 'Employment insecurity and social theory: the power of nightmares', **Work Employment And Society**, 21 (3):517-535.
- Ford, Janet and Jude England (2000) "Data and literature on mortgage interest: state provision and private insurance: an evaluation report and source book" **Department Of Social Security Social Research Branch In-House Reports**, 65: London: Department of Social Security. Analytical Services Division
- Ford Tania (2000) 'The household impacts of migration' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Fouarge, Didier and Ruud J A Muffels (2000) "Persistent poverty in the Netherlands, Germany and the UK: a model-based approach using panel data from the 1990s", **Epag Working Papers**, 15: Colchester: University of Essex.
- Francesconi Marco (2001) 'Determinants and consequences of promotions in Britain', **Oxford Bulletin Of Economics And Statistics**, Blackwell Publishers. 63, 3, 279-310.
- Francesconi Marco (2005) 'An evaluation of the childhood family structure measures from the sixth wave of the British Household Panel Survey' **Journal Of The Royal Statistical Society Series A (Statistics In Society)**, 168: part 3, 539-566.
- Francesconi, Marco (2007) 'Adult outcomes for children of teenage mothers', IZA DISCUSSION PAPERS, 2778. Bonn: Institute for the Study of Labor.
- Francesconi Marco (2008) 'Adult outcomes for children of teenage mothers', **Scandinavian Journal Of Economics**, 110 (1):93-117.
- Francesconi Marco, Carlos Garcia-Serrano (2004) 'Unions and flexible employment in Britain and Spain: a descriptive note', **Industrial Relations**, 43 (4):874-882.
- Francesconi Marco, Katrin Golsch (2005) 'The process of globalization and transitions to adulthood in Britain', In Hans-Peter Blossfeld, Erik Klijzing, Melinda Mills and Karin Kurz, eds Globalization, uncertainty and youth in society, London: Routledge. ch.10, 249-276.
- Francesconi Marco, Wilbert van der Klaauw (2007) 'The socioeconomic consequences of 'In-Work' benefit reform for British lone mothers', **Journal Of Human Resources**, 42 (1): 1-31.
- Francesconi, Marco, M J Orszag, E S Phelps, G Zoega (2000) "Education and the natural rate of unemployment", **Oxford Economic Papers**, 52, 204-223: Oxford University Press.
- Francesconi Marco, Helmut Rainer, Wilbert van der Klaauw (2007) 'The effects of in-work benefit reform in Britain on couples: theory and evidence', **IZA Discussion Papers**, 2980. Bonn: Institute for the Study of Labor.
- Francesconi Marco, Helmut Rainer, Wilbert van der Klaauw (2009) 'The effects of in-work benefit reform in Britain on couples: theory and evidence', **Economic Journal**, 119 (535):F66-F100.

- Francesconi Marco, Holly Sutherland, Francesca Zantomio (2009) 'A comparison of earnings measures from longitudinal and cross-sectional surveys: evidence from the UK', **ISER Working Papers**, 2009-14. Colchester: University of Essex.
- Fräßdorf Anna, Markus M Grabka, Johannes Schwarze (2008 Jun.) 'The impact of household capital income on income inequality: a factor decomposition analysis for Great Britain, Germany and the USA', **SOEP Papers on Multidisciplinary Panel Data Research**, 104. Berlin: Deutsches Institut für Wirtschaftsforschung.
- Frick, Joachim R, M Grabka, (2002 Jan.) 'The personal distribution of income and imputed rent: a cross-national comparison for the UK, West Germany, and the USA', **DIW Discussion Papers**, 271. Berlin: Deutsches Institut für Wirtschaftsforschung.
- Frick Joachim R, Stephen P Jenkins, Dean R Lillard Oliver Lipps and Mark Wooden (2007) 'The Cross-National Equivalent File (CNEF) and its member country household panel studies', **Schmollers Jahrbuch**, 127(4): 627-654.
- Frick Joachim R, Markus M Grabka (2007) 'Item non-response and imputation of annual labour income in panel surveys from a cross-national perspective -DRAFT do not quote without author's permission-', BHPs-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Frick Joachim R, Markus M Grabka (2007) 'Item non-response and imputation of annual labor income in panel surveys from a cross-national perspective', **DIW Discussion Papers**, 736. Berlin: Deutsches Institut für Wirtschaftsforschung.
- Future Foundation (2004 Jul.) 'Britain's hidden poor report. A project for Elizabeth Finn Trust', London: Future Foundation.
- Future Foundation, National Savings and Investments (2007 Jul.) '50 years of saving: yesterday, today and tomorrow: a research report for National Savings and Investments', London: Future Foundation.
- Future Foundation (2008 May) 'The singleton society. Targeting the Bridget Jones generation', London: Future Foundation.
- Gage H, F Lake and R Pope (2000) 'Nurse retention: an analysis using the British Household Panel Survey' Guildford: University of Surrey.
- Gage H (2001) 'Keeping nurses nursing: a quantitative analysis' **Nursing Times**, 97, no 7, 35-37.
- Gallie Duncan (ed.) (2007) 'Employment regimes and the quality of work', Oxford: Oxford University Press.
- Gallo F, S Mastrovita, I Siciliani (2004 June) 'The nature of sample attrition in the ECHP', **EPUNet Conference: The 2nd Annual Research Conference Of The European Panel Users' Network**, Berlin, 24-26 June 2004,
- Gangl Markus, Andrea Ziefle (2009) 'Motherhood, labor force behavior, and women's careers: an empirical assessment of the wage penalty for motherhood in Britain, Germany, and the United States', **Demography**, 46 (2):341-369.
- Gao Fei, Nan Luo, Julian Thumboo, Calvin Fones, Shu-Chuen Li, Yin Bun Cheung, (2004 (Nov)) 'Does the 12-item General Health Questionnaire contain multiple factors and do we need them?', **Health And Quality Of Life Outcomes**, 2 (63):1-7 (pages not for citation purposes).
- Garcia-Gomez Pilar, Andrew M Jones and Nigel Rice (2008) 'Health effects on labour market exits and entries', **HEDG Working Papers**, 08/03. York: University of York: Health, Econometrics and Data Group.

- Garcia-Gomez Pilar, Andrew M Jones, Nigel Rice 'Health effects on labour market exits and entries', ***Labour Economics***, (2009), doi: 10.1016/j.labeco.2009.04.004
- Gardiner K, H Hills (forthcoming) "Policy Implications of new data on income mobility" ***Economic Journal*** 109:2
- Gardner, Jonathan, A Oswald, (2002 Aug.) 'Is it money or marriage that keeps people alive?' mimeo, Warwick: University of Warwick: Department of Economics
- Gardner Jonathan, Andrew J Oswald (2006) 'Do divorcing couples become happier by breaking up?', ***Journal Of The Royal Statistical Society Series A (Statistics In Society)***, Blackwell Publishers. 169: no.2, 319-336.
- Gardner Jonathan, Andrew J Oswald (2007) 'Money and mental wellbeing: a longitudinal study of medium-sized lottery wins', ***Journal Of Health Economics***, 26 (1):49-60.
- Gardner Jonathan, Andrew Oswald 'How is mortality affected by money, marriage, and stress?', ***Journal Of Health Economics***, 23 (6):1181-1207.
- Garr, Jerry G., Anne S Pruitt-Logan, Leslie B Sims and Daniel D Denecke (2003) 'Preparing future faculty in the humanities and social sciences: a guide for change', Washington, DC: Council of Graduate Schools Association of American Colleges and Universities.
- Gasteen Ann and John Houston (2004 (Mar.)) 'Projecting the demand for qualifications in the Scottish economy to 2007 - full report', Research and Information Services Bulletin: Scottish Qualifications Authority, 8. Glasgow: Scottish Qualifications Authority.
- Gasteen Ann and John Houston (2005 (Aug.)) 'Projecting the demand for qualifications in the Scottish economy to 2009', Research and Information Services Bulletin: Scottish Qualifications Authority, 15. Glasgow: Scottish Qualifications Authority.
- Gasteen Ann and John Houston (2007 (Sept.)) 'Projecting the demand for qualifications in the Scottish economy to 2011', ***Research and Information Services Bulletin: Scottish Qualifications Authority***, 27. Glasgow: Scottish Qualifications Authority.
- Gasteen Ann and John Houston (2007 (Oct.)) 'Projecting the demand for qualifications: a review', ***Research and Information Services Bulletin: Scottish Qualifications Authority***, 29. Glasgow: Scottish Qualifications Authority.
- Gauthier, Anne H. (1999) 'Inequalities in children's environment: the case of Britain', ***Childhood***, 6(2): 243-260.
- Gayle Vernon (2003 July) 'Modelling a hierarchical event: an example of young people and academic qualifications using BHPS data', ***BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference***, 3-5 July 2001, Colchester, UK
- Gayle Vernon (2005) 'Youth transitions' IN ***Changing Scotland: evidence from the British Household Panel Survey*** by John F. Ermisch and Robert E. Wright (eds.), Ch. 3. Bristol: Policy Press. 33-46.
- Gayle Vernon, Gregor Jack, Robert E Wright (2005) 'Trends in absolute poverty' IN ***Changing Scotland: evidence from the British Household Panel Survey*** by John F. Ermisch and Robert E. Wright (eds.), Ch. 8. Bristol: Policy Press. 17-32.
- Georgellis Yannis, John G Sessions, Nikolaos Tsitsianis (2005) 'Windfalls, wealth, and the transition to self-employment', ***Small Business Economics***, 25 (5):407-428.

- Georgellis Yannis, John Sessions, Nikolaos Tsitsianis (2007) 'Pecuniary and non-pecuniary aspects of self-employment survival', **Quarterly Review Of Economics And Finance**, 47 (1):94-112.
- Georgellis Yannis, John G Sessions, Nikolaos Tsitsianis (2007 Sept.) 'Social capital and windfalls: empirical evidence', **Economics Letters**, (In press, Corrected proof).
- Gershuny Jonathan (1995) 'Change in the division of domestic work: micro-sociological evidence' **DIW Discussion Paper**, 107: Duetsches Institut fur Wirtschaftsforschung
- Gershuny Jonathan (1997) 'New perspectives on work in the 1990's: evidence from the British Household Panel Study' **ESRC Research Centre on Micro-social Change**: University of Essex mimeo
- Gershuny Jonathan (1999) 'The Work/Leisure Balance and the New Political Economy of Time' **Institute for Social and Economic Research** University of Essex (article)
- Gershuny, Jonathan (1999) 'Time budgets, life histories and social position' **Quality And Quantity**, Vol. 33, no. 3
- Gershuny Jonathan (2000) 'Social position from narrative data' article, **Sociological Review**, Blackwell Publishers.
- Gershuny, Jonathan (2003) 'Social mobility: dramatic growth in inequality of women's life chances: Social Science Week 23-27 June 2003: Cabinet Office London', Colchester: Institute for Social and Economic Research: University of Essex.
- Gershuny Jonathan (2004) 'Domestic equipment does not increase domestic work: a response to Bittman, Rice and Wajcman', **British Journal Of Sociology**, 55 (3):425-431.
- Gershuny Jonathan (2007) 'Conclusion: a slow start?', Information and Communication Technologies in Society: E-living in a digital Europe by Ben Anderson, Malcolm Brynin, Jonathan Gershuny and Yoel Raban (eds.), Abingdon, Oxon: Routledge. Ch.21, 274-280.
- Gershuny Jonathan (2007) 'Web-use and net-nerds: the impact of information technology in the home', Information and Communication Technologies in Society: E-living in a digital Europe by Ben Anderson, Malcolm Brynin, Jonathan Gershuny and Yoel Raban (eds.), Abingdon, Oxon: Routledge. Ch. 9, 119-135.
- Gershuny Jonathan (2007) 'The dynamics of social position: Altered and her parents' human capital -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Gershuny Jonathan, M Bittman, John Brice (2005) 'Exit, voice and suffering: do couples adapt to changing employment patterns?', **Journal Of Marriage And The Family**, 67 (3):656-665.
- Gershuny Jonathan, C Hannan, (1999) 'Unemployment: Blame the Victim?' **Institute for Labour Research** University of Essex (discussion paper)
- Geyer Johannes, Viktor Steiner (2007) 'Short-run and long-term effects of childbirth on mothers' employment and working hours across institutional regimes: an empirical analysis based on the European Community Household Panel', **IZA Discussion Papers**, 2693. Bonn: Institute for the Study of Labor.
- Gielen Anne C (2007) 'Working hours flexibility and older workers' labor supply', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Gielen Anne C 'Working hours flexibility and older workers' labor supply', **Oxford Economic Papers** (2008), doi: 10.1093/oeq/gpn035

- Gilbert Alana, Lorna Philip, Mark Shucksmith (2006) 'Rich and poor in the countryside', *The ageing countryside: the growing older population of rural England*, by Philip Lowe and Lydia Speakman (eds), London: Age Concern England. Ch. 4: 69-93.
- Gilbert A, E Phimister, I Theodossiou, (2001) "The Potential Impact of the Minimum Wage in Rural Areas" ***Regional Studies***, 35(8): 765-770
- Gilbert, A., E Phimister, I Theodossiou, (2003) 'Low pay and income in urban and rural areas: evidence from the British Household Panel Survey -forthcoming June 2003-', ***Urban Studies***,
- Ginn Jay, Sara Arber (2002) 'Degrees of freedom:do graduate women escape the motherhood gap in pensions?', ***Sociological Research Online***, 7 (2).
- Glaser Karen, Rachel Stuchbury, Cecilia Tomassini and Janet Askham (2008) 'The long-term consequences of partnership dissolution for support in later life in the United Kingdom', ***Ageing and Society***, 29 (3):329-351.
- Glaser Karen, Cecilia Tomassini, Filomena Racioppi, Rachel Stuchbury (2006) 'Marital disruptions and loss of support in later life: a longitudinal study of the United Kingdom', ***European Journal Of Ageing***, 3 (4):207-216.
- Glaser Karen, Cecilia Tomassini, Rachel Stuchbury (2008) 'Differences over time in the relationship between partnership disruptions and support in early old age in Britain', ***Journals Of Gerontology: Series B: Psychological Sciences & Social Sciences***, 63 (6):S359-S368.
- Glendinning, Anthony (2002) 'Self-esteem and smoking in youth: muddying the waters?', ***Journal Of Adolescence***, 25: 415-425.
- Goerke L and M Pannenberg (1998) `Social custom, free-riders, and trade union membership in Germany and Great Britain' Berlin: Deutsches Institut fur Wirtschaftsforschung.
- Goerres Achim (2007) 'Demands for welfare state provisions by a powerful generation: comparing British and German baby-boomers', European Consortium for Political Research Conference, 6-8 September 2007, Pisa, Italy.
- Goldthorpe John H, Abigail McKnight (2006) 'The economic basis of social class', *Mobility and inequality: frontiers of research in sociology and economics*, by Stephen L. Morgan, David B. Grusky, and Gary S. Fields (eds), Stanford: Stanford University. Ch. 5: 109-136.
- Goldthorpe John H, Colin Mills (2008) 'Trends in intergenerational class mobility in modern Britain: evidence from national surveys, 1972-2005', ***National Institute Economic Review***, 205 (1):83-100.
- Golsch, Katrin (2001) 'Transition to adulthood in Great Britain and the process of globalisation', ***Globalife Working Paper Series***, 17. Bielefeld, Ger.: University of Bielefeld.
- Golsch, Katrin (2002) 'Globalisation, labour market flexibility and job insecurity: a tale on Britain', ***Globalife Working Paper Series***, 36. Bielefeld, Ger.: University of Bielefeld.
- Golsch Katrin (2005) 'The impact of labour market insecurity on the work and family life of men and women. A comparison of Germany, Great Britain, and Spain', ***European University Studies: Series 22 Sociology***, 403. Frankfurt am Main: Peter Lang.
- Golsch Katrin (2008) 'Men's labor market mobility in Britain: globalization, labor market flexibility and job insecurity'. In *Globalization, uncertainty and men's careers: an international comparison by Hans-Peter Blossfeld, Melinda Mills and Fabrizio Bernardi (eds)*, Cheltenham: Edward Elgar. Ch.10: 299-327.

- Golsch Katrin (2008) 'Women's employment in Britain'. In *Globalization, uncertainty and women's careers: an international comparison* by Hans-Peter Blossfeld and Heather Hofmeister (eds), Cheltenham: Edward Elgar. Ch.11: 275-301.
- Goodchild Sophie (2008) 'Changing relationships', *BRITAIN IN 2009: THE STATE OF THE NATION*, :93-95.
- Goodman, Alissa, Johnson, Paul, Webb, Steven, (1997) ***Inequality in the UK*** .Oxford: Oxford University Press
- Goodwin Phil (2007) 'Effectiveness of transport policies in reducing car travel', Threats from car traffic to the quality of urban life, by Tommy Gärling and Linda Steg (eds), Amsterdam: Elsevier. 401-424.
- Gott, Ceri and Karl Johnston (2002) 'The migrant population in the UK: fiscal effects', ***RDS Occasional Paper***, 77. London: Home Office.
- Gosling, Amanda, Johnson, Paul , McCrae, Julian, Paull, Gillian (1997) ***Dynamics of low pay and unemployment in early 1990s Britain***. London: Institute for Fiscal Studies
- Grabka M (2000) `The personal distribution of income and imputed rent - a cross-national comparison for the UK, West Germany and the USA' ***BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference***, 5-7 July 2001, Colchester, UK.
- Graham H (1998) 'Promoting health against inequality' ***Health Education Journal*** 57, 4 292-302
- Graham H and G Der (1999) 'Influences on women's smoking status: the contribution of socio-economic status in adolescence and adulthood' ***European Journal of Public Health*** 41:2(Apr), 135-151
- Graham H and G Der (1999) 'Patterns and predictors of smoking cessation among women' ***Health Promotion International*** 14,3 pp231-39
- Graham H and G Der (1999) 'Patterns and predictors of tobacco consumption among women' ***Health Education Research*** 14, 5. pp 611-18
- Graham H and G Der (2000) ` Lifecourse inequality and priorities for policies to tackle health inequalities' in I Forbes (ed) ***Health Inequalities: Poverty and Policy***. London: Academy of Learned Societies for the Social Sciences, pp 44-49.
- Gray A (2005) 'The changing availability of grandparents as carers and its implications for childcare policy in the UK', ***Journal Of Social Policy***, 34 (4):557-577.
- Gray Anne (2009) 'The social capital of older people', ***Ageing and Society***, 29 (1):5-31.
- Great Britain. Office for National Statistics (1999) "Tracking people: a guide to longitudinal social sources", London: Office for National Statistics.
- Great Britain. Department of Health: Teenage Pregnancy Unit (2004 Mar.) 'Long-term consequences of teenage births for parents and their children', ***Teenage Pregnancy Research Programme Research Briefing***, 1. Department of Health: Teenage Pregnancy Unit.
- Great Britain. Department of Health (2004) 'The NHS improvement plan: putting people at the heart of public services: presented to Parliament by the Secretary of State for Health by Command of Her Majesty', Command paper (Great Britain. Parliament), Cm. 6268. London: TSO.
- Great Britain. Commission for Rural Communities (2005) 'The state of the countryside 2005', Wetherby: Countryside Agency Publications.

- Great Britain. HM Revenue & Customs: Tax Credits Analysis Team (2006) 'Child Tax Credit and Working Tax Credit take-up rates 2003-04', London: Great Britain. HM Revenue & Customs.
- Great Britain. Department for Work and Pensions; National Statistics (Great Britain) Christian, Valerie; Johnson, George (ed.) (2007) 'Low-income dynamics 1991-2005 (Great Britain)', London: Department for Work and Pensions.
- Great Britain. HM Revenue & Customs: Tax Credits Analysis Team (2007) 'Child Tax Credit and Working Tax Credit take-up rates 2004-05', London: Great Britain. HM Revenue & Customs.
- Great Britain. Cabinet Office. Strategy Office (2008) 'Getting on, getting ahead. A discussion paper: analysing the trends and drivers of social mobility', London: Cabinet Office. Strategy Unit.
- Great Britain. Cabinet Office. Strategy Unit; Great Britain. Department for Children, Schools and Families (2008 Dec.) 'Families in Britain: an evidence paper', London: Great Britain. Cabinet Office. Strategy Unit Great Britain. Department for Children, Schools and Families.
- Great Britain. HM Revenue & Customs: Tax Credits Analysis Team (2008) 'Child Tax Credit and Working Tax Credit take-up rates 2005-06', London: Great Britain. HM Revenue & Customs.
- Great Britain. House of Commons. Treasury Committee (2008 Jun.) 'Budget measures and low-income households. Thirteenth report of session 2007-08. Report, together with formal minutes, oral and written evidence', House of Commons: Treasury Committee Reports, HC 326. London: Stationery Office.
- Great Britain. House of Commons. Treasury Committee (2008 Jun.) 'Memorandum from Resolution Foundation', House of Commons Treasury Committee Written Evidence ordered to be printed 18 June 2008, by Great Britain. House of Commons. Treasury Committee, London: Stationery Office.
- Great Britain. House of Commons. Treasury Committee (2008 Jul.) 'Memorandum submitted by IPPR', House of Commons Work and Pensions Committee Written Evidence ordered to be printed 21 July 2008, by Great Britain. House of Commons. Work and Pensions Committee, London: Stationery Office.
- Great Britain. House of Commons. Work and Pensions Committee (2008 Aug.) 'Valuing and supporting carers. Fourth report of session 2007-08. Volume II. Oral and written evidence', House of Commons: Work and Pensions Committee Reports, HC 485-II. London: Stationery Office.
- Green Colin, John S Heywood (2007) 'Does performance pay increase job satisfaction?', ***Economica***, [OnlineEarly].
- Green Colin, John S Heywood (2007) 'Performance pay, sorting and the dimensions of job satisfaction', ***Lancaster University Management School Working Paper***, 2007/013. Lancaster: University of Manchester. Management School.
- Green Colin, John S Heywood (2007) 'Are flexible contracts bad for workers? Evidence from job satisfaction data', ***Lancaster University Management School Working Paper***, 2007/042. Lancaster: University of Lancaster.
- Green Colin, John S Heywood (2007) 'Does profit sharing increase training by reducing turnover?', ***Lancaster University Management School Working Paper***, 2007/031. Lancaster: University of Lancaster.
- Green F (forthcoming 1999) "Training the Workers" in P Gregg and J Wadsworth ***The State of Working Britain Manchester University Press***

- Green F, S Machin, et al (1996) "The Employer Size-Wage Effect: Can Dynamic Monopsony Provide An Explanation" **Oxford Economic Papers** 48: 433-455
- Green Francis, Nicholas Tsitsianis (2005) 'An investigation of national trends in job satisfaction in Britain and Germany', **British Journal Of Industrial Relations**, 43 (3):401-429.
- Gregg, Paul (1997) 'Jobs, wages and poverty: patterns of persistence and mobility in the new flexible labour market.' London HMSO
- Gregg Paul, Paul Grout, Anita Ratcliffe, Sarah Smith and Frank Windmeijer (2008 May) 'How important is pro-social behaviour in the delivery of public services?', **CMPO Working Papers University Of Bristol**, 08/197. Bristol: University of Bristol: Department of Economics.
- Gregg Paul, Susan Harkness, Sarah Smith (2009) 'Welfare reform and lone parents in the UK', **Economic Journal**, 119 (535):F38-F65.
- Grieve (President), Andy (2004) 'Report of the Council for the session 2003-2004', **Journal Of The Royal Statistical Society Series A (Statistics In Society)**, 167 (4):669-756.
- Groot, W (1995) "On-the-job training, job mobility and wages in Britain". **Leiden University**
- Groot, Wim (1996) "The incidence of, and returns to overeducation in the UK" **Applied Economics** 28, p1345-1350
- Groot, W and E Mekkelholt "The Labour Market Prospects of Technical Education", **OSA - Werkdocument**, (forthcoming)
- Groot, Wim & Henriette Maassen van den Brink,(1996) 'Glass ceilings or dead ends: job promotion of men and women compared' **Economics Letters** 53, p. 221-226,.
- Groot, Wim & Henriette Maassen van den Brink, (1997), 'Allocation and the returns to overeducation in the United Kingdom' **Education Economics**,.
- Groot Wim, Henriette Maassen van den Brink (2007) 'Optimism, pessimism and the compensating income variation of cardiovascular disease: a two-tiered quality of life stochastic frontier model', **Social Science And Medicine**, 65 (7):1479-1489.
- Groot, Wim. Oosterbeek, Hessel (1995) "Incidence and wage effects of incentive pay" Amsterdam-Rotterdam **Tinbergen Institute Discussion Paper**, 95-83
- Groot W and H Oosterbeek (1995) " Determinants and wage effects of participation in on and off the job training" **Tinbergen Institute, Discussion Papers**, TI 95-122
- Guariglia A (1998) 'Understanding saving behaviour in the UK: evidence from the BHPS' **Institute for Labour Research University of Essex Discussion Paper Series**, 98/26. Colchester: University of Essex: Institute for Labour Research.
- Guariglia A (2000) 'Estimating saving functions with a zero-inflated Bivariate Tobit Model' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Guariglia Alessandra (2001) 'Saving behaviour and earnings uncertainty: evidence from the British Household Panel Survey', **Journal Of Population Economics**, 14, no.4, 619-638.
- Guariglia Alessandra (2003) 'Saving behaviour and earnings uncertainty: evidence from the British Household Panel Survey', Berlin: Springer: 135-150.
- Guariglia Alessandra and Sheri M Markose (2000) 'Voluntary contributions to personal pension plans: evidence form the British Household Panel Survey', **Fiscal Studies**, 21, no.4, 469-88.

- Guariglia A and M Rossi (1999) "Consumption, Habit Formation and Precautionary Saving Evidence from the UK" **Department of Economics** University of Essex (discussion paper)
- Guariglia Alessandra, M Rossi, (2003 July) 'Private medical insurance and saving: evidence from the **BHPS**', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Guariglia Alessandra, Mariacristina Rossi (2004) 'Private medical insurance and saving: evidence from the British Household Panel Survey', **Journal Of Health Economics**, 23 (4):761-783.
- Gustafsson Siv S, Eiko Kenjoh (2008) 'The timing of maternity' In Social policies, labour markets and motherhood: a comparative analysis of European countries, by Daniela Del Boca and Cecile Wetzels (eds), Cambridge: Cambridge University Press. Ch. 6:182-224.
- Gustafsson S S, E Kenjoh, C Wetzels (2003) 'Employment choices and pay differences between nonstandard and standard work in Britain, Germany, the Netherlands, and Sweden',. IN Houseman, Susan and Osawa, Machiko eds Nonstandard work in developed economies: causes and consequences, , ch.7, 216-264, Kalamazoo, Mi.: W.E. Upjohn Institute for Employment Research.
- Gustafsson S S, C Wetzels, J D Vlasblom, S Dex, (1996) "Women's labor force transitions in connection with childbirth: A panel data comparison between Germany, Sweden and Great Britain" **Journal of Population Economics**, 9:223-246
- Gustafsson Siv S, Seble Worku (2005) 'Assortative mating by education and postponement of couple formation and first birth in Britain and Sweden' **Review Of Economics Of The Household**, 3: 91-113.
- Haardt David (2005) 'Transitions out of and back to employment among older men and women in the UK' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- Haardt David (2007) 'Older couples' labour market reactions to family disruptions', **ISER Working Papers**, 2007-08. Colchester: University of Essex.
- Haardt David (2007) 'Labour market dynamics among older people -PhD thesis-', Colchester: Institute for Social and Economic Research: University of Essex.
- Hald Andersen Signe (2007) 'The short and long term effects of government training on subjective well being', **BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference**, 5 July -7 July 2007, Colchester, UK,
- Hald Andersen, Signe (2008 (Feb.)) 'The short and long term effects of government training on subjective well being', **European Sociological Review**, [Advance Access].
- Hall Ray, Philip Ogden and Catherine Hill (1999) 'Gender variations in the characteristics of migrants living alone in England and Wales 1991'. In *Migration and gender in the developed world* by Paul Boyle and Keith Halfacree (eds.), Abingdon: Routledge. Ch. 11, 186-203.
- Halpin B (1998) 'Unified BHPS work-life histories: combining multiple sources into a user-friendly format' **BMS**, 60 34-79.
- Halpin B 'Who are the Irish in Britain? evidence from large-scale surveys' book chapter, 89-108. **The Irish Diaspora**, Ch 5.
- Halpin Brendan (1999) 'Is class changing? A work-life history perspective on the salariat', **Sociological Research Online**, 4 (3).

- Hamermesh Daniel S, Gerard A Pfann (ed.) (2005) 'The economics of time use', (*Contributions to Economic Analysis* 271), Amsterdam: Elsevier.
- Hancock Matthew, Rob Wood (2004) 'Household secured debt', ***Bank Of England Quarterly Bulletin***, 44 (3):291-301.
- Hancock, Ruth (2000) 'Estimating the housing wealth of older home owners in Britain', ***Housing Studies***, 15, no.4, 561-579.
- Handcock, Mark S, S M Huovilainen, M S Rendall, (2002 May) 'Combining registration-system and survey data to estimate birth probabilities', ***Demography***, 37: no.2, 197-192.
- Hankins Matthew (2007) 'Questionnaire discrimination: (re)-introducing coefficient delta', ***BMC Medical Research Methodology***, 7 (19).
- Hannan C (1999) "Beyond Networks: 'Social Cohesion' and Unemployment Exit Rates" ***Institute for Labour Research*** University of Essex (discussion paper)
- Hanratty B and A Jacoby, M Whitehead (2008) 'Socioeconomic differences in service use, payment and receipt of illness-related benefits in the last year of life: findings from the British Household Panel Survey', ***Palliative Medicine***, 22 (3):248-255.
- Harkness, Janet (1998) 'Cross-cultural survey equivalence', ***ZUMA Nachrichten Spezial***, 3. Mannheim, Germany: Zentrum fur Umfragen, Methoden und Analysen.
- Harkness, S (1996) "The Gender Earnings Gap: Evidence from the UK" ***Fiscal Studies***, Vol 17, no 2, pp 1-36.
- Harkness S (2003) 'The household division of labour: changes in families' allocation of paid and unpaid work, 1992-2002', IN Dickens, Richard, Gregg, Paul and Wadsworth, Jonathan , eds. *The labour market under new labour: the state of working Britain*, Ch. 10.,150-169. Basingstoke: Palgrave Macmillan.
- Harper S (ed.) (2004) 'Families in ageing societies: a multi-disciplinary approach', Oxford: Oxford University Press.
- Hart, Robert A. and Yue Ma (2000) "Wages, hours and human capital over the life cycle" ***IZA Discussion Papers***, 139. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor
- Hart Robert A, Yue Ma (2008) 'Wages, hours and human capital over the life cycle', ***Jahrbücher Für Nationalökonomie Und Statistik***, 228 (5-6):446-464.
- Hart Robert A, Yue Ma 'Wage-hours contracts, overtime working and premium pay', ***Labour Economics***, (2009), doi: 10.1016/j.labeco.2009.04.002
- Hauck K, N Rice (2004) 'A longitudinal analysis of mental health mobility in Britain', ***Health Economics***, 13: 981-1001.
- Hawkes Denise (2005) 'Generational income mobility in North America and Europe, edited by M. Corak -book review-', ***Economic Issues***, 10 (2):93-95.
- Hazemi Leila (2008) 'Voluntary association involvement and trust: addressing the causal relationship - PhD Thesis-', Victoria, BC: University of Victoria: Department of Sociology.
- Headey Bruce, Mark Wooden (2005) 'The importance of wealth for subjective well-being', ***Journal Of Financial Transformation***, 15: 59-67.

- Headey Bruce, Ruud J A Muffels, Mark Wooden (2004 July) 'Money doesn't buy happiness... or does it? A reconsideration based on the combined effects of wealth, income and consumption', **IZA Discussion Papers**, 1218. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Headey Bruce, Ruud J A Muffels, Mark Wooden (2005) 'Money and happiness: the combined effects of wealth, income and consumption', **Schmollers Jahrbuch Journal Of Applied Social Science Studies**, 125 (1):131-144.
- Headey Bruce, Ruud J A Muffels, Mark Wooden (2007) 'Money does not buy happiness: or does it? A reassessment based on the combined effects of wealth, income and consumption', **Social Indicators Research**, [Online First].
- Heath, Anthony, S Jacobs, (1999 Jun.) 'Comprehensive reform in Britain', **Crest Working Paper Series**, 72. Glasgow: University of Strathclyde CREST.
- Heineck, Guido (2003 May) 'New estimates of multiple jobholding in the UK', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Heineck Guido (2007 May) 'A note on the height - wage differential in the UK: cross-sectional evidence from the BHPS', **Economics Letters**, [In press, Corrected proof].
- Heineck Guido (2007 Oct.) 'Does it pay to be nice? Personality and earnings in the UK', **Laser Discussion Papers**, 3. Nuremberg: University of Erlangen-Nuremberg. Labor and Socio-Economic Research Center.
- Heineck Guido (2009) 'The determinants of secondary jobholding in Germany and the UK', **Zeitschrift Für Arbeitsmarktforschung**, 42 (2):107-120.
- Heineck Guido, Johannes Schwarze (2004 Oct.) 'Fly me to the moon: the determinants of secondary jobholding in Germany and the UK', **IZA Discussion Papers**, 1358. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Heitmueller A (2003 Aug.) 'Job mobility in Britain: are the Scots different? evidence from the **BHPS**', **Cert Discussion Papers**, 51 (3):329-358, 2003/03. Centre for Economic Reform and Transformation.
- Heitmueller Axel (2004 Jan.) 'Public-private sector wage differentials in Scotland: an endogenous switching model', **IZA Discussion Papers**, 992. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Heitmueller Axel (2005) 'The chicken of the egg? endogeneity in labour market participation of informal carers in England' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- Heitmueller Axel (2007) 'The chicken or the egg? Endogeneity in labour market participation of informal carers in England', **Journal Of Health Economics**, 26 (3):536-559.
- Heitmueller Axel, Kirsty Inglis (2004 Aug.) 'Carefree? participation and pay differentials for informal carers in Britain' **IZA Discussion Papers**, 1273. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Heitmueller Axel, Kirsty Inglis (2007) 'The earnings of informal carers: wage differentials and opportunity costs', **Journal Of Health Economics**, 26 (4):821-841.
- Heitmueller Axel, Pierre-Carl Michaud (2006 Mar.) 'Informal care and employment in England: evidence from the British Household Panel Survey', **IZA Discussion Papers**, 2010. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.

- Hellebrandt Tomas, Garry Young, Matt Waldron (2008) 'The financial position of British households evidence from the 2008 NMG Research survey', **Bank Of England Quarterly Bulletin, Bank of England**. Q4 :384-292.
- Helms G. (2005) 'Working capital: life and labour in contemporary London by Buck, N, Gordon, I, Hall, P, Harloe, M and Kleinman, M - book review -', **URBAN STUDIES**, 42: no.4, 801-802.
- Henley, A. (1996), 'Residential mobility, housing wealth and the Labour Market' **Aberystwyth Economic Research paper**, No. 96/15 and (1997) **Royal Economic Society Annual Conference**, Staffordshire University, March 1997
- Henley A (1998) "Changes in the distribution of housing wealth in Great Britain 1985-1991", **Economica**, 65(259): 363-380
- Henley A (1998) "Residential mobility, housing equity and the labour market", **Economic Journal**, 108(447): 414-427.
- Henley Andrew (1998) 'Employment tenure, quits and the housing market', **Aberystwyth Economic Research Papers**, 1. Aberystwyth: University of Wales: Department of Economics: Aberystwyth.
- Henley Andrew (1999) 'Being your own boss: entrepreneurial choice, earnings and employment creation in 1990s Britain', **European Association Of Labour Economists Conference, Regensburg, Germany, 23-26 Sept. 1999**,
- Henley A (2000) "Self-employment choice: the role of state dependence initial circumstances and unobserved heterogeneity", **Aberystwyth School of Management and Business Research Paper No. 2000-7**. Aberystwyth: University of Wales Aberystwyth
- Henley A (2001) "Capital Gains and Labour Supply: British Evidence", University of Wales **Aberystwyth School of Management and Business Research Paper No. 2001-7**.
- Henley Andrew (2001 Jul.) 'Capital gains and labour supply: British evidence', **Paper for the EEEG Conference, July 2-4, 2001, University of Leicester**,
- Henley A (2004) 'House price shocks, windfall gains and hours of work: British evidence', **Oxford Bulletin Of Economics And Statistics**, 66:4, 439-456
- Henley Andrew (2004) 'Self-employment status: the role of state dependence and initial circumstances', **Small Business Economics**, 22 (1):67-82.
- Henley Andrew (2005) 'Job creation by the self-employed: the roles of entrepreneurial and financial capital', **Small Business Economics**, 25 (2):175-196.
- Henley Andrew (2005) 'From entrepreneurial aspiration to business start-up: evidence from British longitudinal data' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK, Colchester:
- Henley Andrew (2007) 'Entrepreneurial aspiration and transition into self-employment: evidence from British longitudinal data', **Entrepreneurship And Regional Development**, 19 (3):253-280.
- Henley Andrew (2007) 'Switching costs and occupational transition into self-employment: a duration modelling approach', **BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference**, 5 July -7 July 2007, Colchester, UK,
- Henley Andrew (2009 Jan.) 'Switching costs and occupational transition into self-employment', **IZA Discussion Papers**, 3969. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.

- Henley A, D Thomas, (2001) "Public service employment and the public-private wage differential in British regions", **Regional Studies** 35(3): 229-240.
- Henley Andrew, Rhian Eleri Jones (2003) 'Earnings and linguistic proficiency in a bilingual economy', **Royal Economic Society Annual Conference 2003**, 106. Royal Economic Society.
- Henley Andrew, Rhian Eleri Jones (2005) 'Earnings and linguistic proficiency in a bilingual economy', **Manchester School** (1998), 73 (3):300-320.
- Henley Centre, Financial Services Authority (2005 Jun.) 'Towards understanding consumers' needs. Prepared for the Financial Services Authority by The Henley Centre Ltd', **FSA Consumer Research**, 35. London: Financial Services Authority.
- Hernandez-Quevedo Cristina, Andrew M Jones, Nigel Rice (2005) 'Reporting bias and heterogeneity in self-assessed health. Evidence from the British Household Panel Survey', **HEDG Working Papers**, 05/04. York: Health, Econometrics and Data Group: University of York.
- Hernandez-Quevedo, Cristina, Nigel Rice, Andrew M Jones (2008) 'Sesgo de respuesta y heterogeneidad en salud autopercebida. Evidencia del Panel de Hogares Británico', **Cuadernos Económicos De Iice**, 75 :64-98.
- Herrera-Salas, Cristian P. (1999) 'A theoretical and empirical study of health-investment behaviour at old age', PhD thesis, Colchester: Institute for Social and Economic Research: University of Essex.
- Heywood John S., S W Siebert, X Wei, (2002) 'Worker sorting and job satisfaction: the case of union and government jobs', **Industrial And Labour Relations Review**, 55, no.4, 595-609.
- Hildreth Andrew K G (2000) 'Union wage differentials for covered members and nonmembers in Great Britain', **Journal Of Labor Research**, 21 (1):133-147.
- Hildreth Andrew, Stephen P Millard, Dale T Mortensen, Mark P Taylor (1998) 'Wages, work, and unemployment', **Applied Economics**, 30 (11):1531-1547.
- Hills J (1998) "Does income mobility mean that we do not need to worry about poverty" in A B Atkinson and J Hills (eds) **Exclusion, Employment and Opportunity CASEpaper No.4 London School of Economics**
- Hills J (2004) 'Inequality and the State', Oxford: **Oxford University Press**.
- Hillmert, Steffen (1999) The 'complex' event of transition into the labour market: Comparing the UK and Germany over time. In: Raffé, David/van der Velden, Rolf/Werquin, Patrick (eds.): Education, the labour market and transitions in youth: cross-national perspectives. Edinburgh, 1999, 313-331.
- Hillmert, Steffen (2000) "Social positioning at labour market entry in the UK and Germany" In: Norwegian Social Research Council (ed.): Transitions and mobility in the youth labour market. Workshop proceedings. Oslo, 2000, 343-364.
- Hillmert, Steffen (2001) Ausbildungssysteme und Arbeitsmarkt. Lebensverläufe in Großbritannien und Deutschland im Kohortenvergleich. Wiesbaden, 2001.
- Hillmert Steffen (2008) 'When traditions change and virtues become obstacles: skill formation in Britain and Germany'. In *Skill formation: interdisciplinary and cross-national perspectives*, by Karl Ulrich Mayer and Heike Solga (eds), Cambridge: Cambridge University Press. Ch.3: 50-84.

- Himmelweit, Sue (2002) 'Attitudes and caring behaviour: a model with positive feedback', ***Future Of Work Programme Working Papers***, 26. Bath: University of Bath. Department of Social and Policy Sciences.
- Himmelweit Susan (2007 (May)) 'The prospects for caring: economic theory and policy analysis', ***Cambridge Journal Of Economics***, (Advance Access), doi:10.1093/cje/bem011.
- Himmelweit, Sue and Maria Sigala (2003) 'Internal and external constraints on mothers' employment: some implications for policy', ***Future Of Work Programme Working Papers***, 27. Bath: University of Bath. Department of Social and Policy Sciences.
- Himmelweit Susan, Maria Sigala (2004) 'Choice and the relationship between identities and behaviour for mothers with pre-school children: some implications for policy from a UK study', ***Journal Of Social Policy***, 33 (3):455-478.
- Hirsch D (ed) (2000) 'Life after 50: issues for policy and research' York: York Publishing Services Limited.
- Hirst M (1998) "The health of informal carers: a longitudinal analysis" ***Working Paper***, no 1563, Social Policy Research Unit University of York
- Hirst Michael (1999) 'Informal care-giving in the life course', ***University Of York Social Policy Research Unit Working Paper***, 1633. York: University of York: Social Policy Research Unit.
- Hirst Michael (1999) 'The risk of informal care: an incidence study', ***University Of York Social Policy Research Unit Working Paper***, 1680. York: University of York: Social Policy Research Unit.
- Hirst Michael (2002 (May)) 'Costing adult care: comments on the ONS valuation of unpaid adult care', York: Social Policy Research Unit. University of York.
- Hirst M (2003) 'Caring-related inequalities in psychological distress in Britain during the 1990s', ***Journal Of Public Health Medicine***, 25:4, 336-343.
- Hirst Michael (2004 Jan.) 'Health inequalities and informal care: end of project report', York: Social Policy Research Unit. University of York.
- Hirst Michael (2004) 'Hearts and minds: the health effects of caring', Glasgow: Carers Scotland.
- Hirst Michael (2005) 'Carer distress: a prospective, population-based study' ***Social Science And Medicine***, 61: 697-708.
- Hirst Michael (2005) 'Estimating the prevalence of unpaid adult care over time', ***Research Policy And Planning***, 23 (1):[?].
- Hirst M 'Recent trends in informal care' – draft report: not for quotation, York: Social Policy Research Unit. University of York.
- Hirst Michael and Hilary Arksey, (2000) 'Informal carers count', ***Nursing Standard***, 14 (42):33-34.
- Hirst Michael, Hutton, Sandra (2001) 'Informal care over time', ***Research Works: Research Findings From The Social Policy Research Unit***, (Aug.):1-4.
- Hirst Michael, S Hutton and D Lawton (1999) 'Evaluation of currently available national survey data for monitoring outcomes of informal care', ***University Of York Social Policy Research Unit Working Paper***, 1697. York: University of York: Social Policy Research Unit.
- Hogan V (1999) "Estimating the Welfare Cost of Taxation in a Labour Market with Unemployment and Non-Participation". ***Dept of Economics, University College Dublin***, Working Paper No. 99/2,

- Hogan V (1999) "The Determinants of Reservation Wages." **Dept of Economics, University College Dublin**, Working Paper No. 99/16
- Hogan V (2003 Sept.) 'The welfare cost of taxation in a labour market with unemployment and non-participation', **Labour Economics**, 11: 4, 395-413.
- Hogan V (2004) 'Wage aspirations and unemployment persistence', **Journal Of Monetary Economics**, 51:8 (Nov),1623-1643.
- Holden K C (2000) 'The pattern and consequence of spouse and survivorship provisions in public retirement plans: a comparative study' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Holland P J (2006) 'Social and economic **consequences** of chronic illness: evidence from longitudinal studies in Britain and Sweden -PhD Thesis-', Liverpool: University of Liverpool.
- Hollywood Emma, Ross Brown Mike Danson, Ronald McQuaid (2003) 'Older workers in the Scottish labour market: a new agenda' Stirling: Scotecon.
- Houston John, Anne Gasteen (2004) 'Do the qualified earn more in Scotland or NI?', **Labour Market Bulletin**, 18 (Nov):163-170.
- Houston John, Anne Gasteen, Carolyn Davidson (2005) 'Earnings returns to further education', *Changing Scotland: evidence from the British Household Panel Survey* by John F. Ermisch and Robert E. Wright (eds.), Ch. 12. Bristol: Policy Press. 185-198.
- Howarth C, P Kenway, G Palmer and R Miorelli (1998) 'Monitoring poverty and social exclusion 1999' York: Joseph Rowntree Foundation.
- Hughes Matthew, Jenny Church, Linda Zealey (eds.) (2009) 'Social trends: 2009 edition', Houndmills, Basingstoke: Palgrave Macmillan. 39.
- Humphreys K (1998) 'The latent Markov chain with multivariate random effects: and evaluation of instruments measuring labour market status in the British Household Panel Study' article, **Sociological Methods and Research**, 26, no 3, 269-299. Sage.
- Hutton S (2000) 'Early adult life, money and family support' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Iacovou M (2004) 'Life chances: childhood experiences and later outcomes: the second age',. IN Stewart, Iain and Vaitilingham, Romesh (eds.) *Seven ages of man and woman: a look at life in Britain in the second Elizabethan era*,12-15 London: ESRC.
- Iacovou M, R Berthoud (2000) "Parents and employment: an analysis of low income families in the British Household Panel Survey" **Department Of Social Security Research Reports**, 107: Leeds: Department of Social Security
- Insalco, Franco 'Is there a wage premium for dangerous jobs?'
- Ip Chung Yan (2005) 'Changing nature of career? a study of work-life histories by using sequence methods' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK,
- Ireland Paddy (2005) 'Shareholder primacy and the distribution of wealth', **Modern Law Review**, 68 (1):49-81.

- Ismail K, A Sloggett and B De Stavola (2000) "Do common mental disorders increase cigarette consumption? Results from five waves of a population based panel cohort". *Amer J Epidemiol* 152:651-7
- Jäckle Annette (2008) 'The causes of seam effects in panel surveys', ***ISER Working Papers***, 2008-14. Colchester: University of Essex.
- Jackle Annette, Heather Laurie, S C Noah Uhrig (2007) 'The introduction of dependent interviewing on the British Household Panel Survey', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Jackle Annette, Peter Lynn (2005) 'Dependent interviewing and seam effects in work history data' ***BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference***, 30 June -2 July 2005, Colchester, UK
- Jacobs D (1998) "Social welfare systems in East Asia: a comparative analysis including private welfare" ***CASEpaper 10*** Centre for Analysis of Social Exclusion
- Jarvis S and S P Jenkins (1998) "How much income mobility is there in Britain" ***Economic Journal*** (Mar) :108 :428-443
- Jarvis S and S P Jenkins (1998) "Low income dynamics in 1990's Britain" ***IDS Bulletin*** Vol.29 No.1 pp.32-42
- Jarvis S and S P Jenkins (1999) 'Marital splits and income changes: evidence form the Brithsh Househld Panel Survey' ***Population Studies***, 53, 237-254. Population Investigation Committee.
- Jayawarna Dilani Julia Rouse (2007) 'Enterprise and the lifecourse of the entrepreneur and the household -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Jenkins S P. (2000) "The distribution of income by sectors of the population", ***DIW Discussion Papers***, 217: Berlin: Deutsches Institut fur Wirtschaftsforschung
- Jenkins S P (2000) 'Why are child poverty rates higher in Britain than Germany? a longitudinal perspective' ***BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference***, 5-7 July 2001, Colchester, UK.
- Jenkins Stephen P. (2002) 'Stata and the British Household Panel Survey' ***Economic Journal***, 112: no.478, 60-67.
- Jenkins Stephen P. (2003) 'Modelling household income dynamics' In *Family, household and work*, by Klaus F. Zimmermann and Michael Vogler (eds), Berlin: Springer: 95-134.
- Jenkins Stephen P (2008) 'Marital splits and income changes over the longer term', ***ISER Working Papers***, 2008-07. Colchester: University of Essex.
- Jenkins Stephen P (2008) 'Marital splits and income changes over the longer term', In *Changing relationships*, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.13: 217-236.
- Jenkins Stephen P, Lorenzo Cappellari (2008) 'The dynamics of social assistance receipt: measurement and modelling issues, with an application to Britain', ***ISER Working Papers***, 2008-34. Colchester: University of Essex.
- Jenkins Stephen P, Lorenzo Cappellari (2008) 'The dynamics of social assistance receipt: measurement and modelling issues, with an application to Britain', ***OECD Social, Employment And Migration Working Papers***, 67. Paris: OECD.

- Jenkins Stephen P, Lorenzo Cappellari (2008) 'The dynamics of social assistance receipt: measurement and modelling issues, with an application to Britain', **ECINEQ Working Paper Series**, 2008-101. Palma de Mallorca: Society for the Study of Economic Inequality ECINEQ.
- Jenkins Stephen P, Peter Lynn, Annette Jäckle and Emanuela Sala, (2008) 'The feasibility of linking household survey and administrative record data: new evidence for Britain', **International Journal Of Social Research Methodology**, 11 (1):29-43.
- Jenkins Stephen P and John Micklewright (ed.) (2007) 'Inequality and poverty re-examined', Oxford: Oxford University Press.
- Jenkins Stephen P and Lars Osberg (2005) 'Nobody to play with? the implications of leisure coordination' IN **The economics of time use** by Hamermesh, Daniel S & Pfann, Gerard A. (eds.), Ch. 5. Amsterdam: Elsevier. 113-146.
- Jenkins S P, J A Rigg (2004) 'Disability and disadvantage: section, onset, and duration effects', **Journal Of Social Policy**, 33: (Jul), 479-501 part 3.
- Jenkins S P, C Schluter, (2003 Spring) 'Why are child poverty rates higher in Britain than in Germany? a longitudinal perspective', **Journal Of Human Resources**, 38, no.2, 442-465.
- Jenkins Stephen P, Christian Schluter (2003) 'The dynamics of child poverty: Britain and Germany compared', **Journal Of Comparative Family Studies**, 34 (3):337-.
- Johnes Geraint (2007) 'The wage curve revisited: estimates from a UK panel', **Economics Letters**, 94 (3):414-420.
- Johnson Anthony. (2002) 'Researchers guide to using the British Household Panel Survey and other international longitudinal datasets', **Department For Work And Pensions Working Paper Series**, 5. London: Department for Work and Pensions.
- Johnson Richard (2000) 'Do state pensions crowd out private saving? Evidence from the raised state pension age for women in the UK', Essays on the causes and effects of Social Security Systems - thesis by Richard Johnson, Cambridge, Mass.: Harvard University.
- Johnston, J, Buck, Nick, Gershuny, Jonathan, Rose, David, Scott, J. (ed.) (1995) 'Changing households: the British Household Panel Survey, 1990-92 [review]', **British Review Of Economic Issues**, 17, no.43, 94-95.
- Johnston Ron, Kelvyn Jones, Carol Propper, Rebecca Sarker, Anne Bolster (2005) 'A missing level in the analyses of British voting behaviour: the household as context as shown by analyses of a 1992-1997 longitudinal survey', **Electoral Studies**, 24 (2):201-225.
- Johnston Ron; Kelvyn Jones, Carol Propper, Simon Burgess (2007) 'Region, local context, and voting at the 1997 general election in England', **American Journal Of Political Science**, 51 (3):640-654.
- Johnston R, C Pattie and J Charles (1996) "The Strength of Party Identification Among the British Electorate: an exploration" **Electoral Studies** (ISSN 0261-3794) 15, pp 295-309.
- Johnston R J and C J Pattie (1997) "Anchors aweigh: variations in strength of party identification and in socio-political attitudes among the British electorate 1991-1994" In C J Pattie, D T Denver, J Fisher and S Ludlam (editors) **British Elections and Parties Review 7** ISBN 0 7146 4860 4. Frank Cass, London, 42-56
- Johnston R and C J Pattie (1997) "Fluctuating party identification in Great Britain: patterns revealed by four years of a longitudinal survey". **Politics** 17, ISSN 0263-3957, 67-77

- Johnston R J, C J Pattie and J Charles (1998) "Inconsistency within consistency: changing attitudes and electoral behavior in Great Britain" ***Genetic, Social and General Psychology Monographs***, 124, 283-310 ISSN 8756-7547.
- Johnston R and C J Pattie (1999) "Feeling good and changing one's mind: a longitudinal investigation of voters' economic evaluations and partisan choices." ***Party Politics***, ISSN 1354-0668, 5, 39-54.
- Johnston R J and C J Pattie (1999) "Aspects of the inter-relationships of attitudes and behaviour as illustrated by a longitudinal study of British adults: 1 Interactions among attitudes and changing voting intentions" ***Environment and Planning A*** ISSN 0308 518X, 31, 899-924.
- Johnston R J and C J Pattie (1999) "Aspects of the inter-relationships of attitudes and behaviour as illustrated by a longitudinal study of British adults 2 Predicting voting intention, strength of party identification, and change in both" ***Environment and Planning A*** ISSN 0308 518X, 31, 1279-1294.
- Johnston R J and C J Pattie (1999) "Aspects of the inter-relationships of attitudes and behaviour as illustrated by a longitudinal study of British adults 3 Variation in individuals' attitudes over time and a cross-temporal ecological fallacy" ***Environment and Planning A*** ISSN 0308 518X, 31, 1773-1786.
- Johnston R and C J Pattie (2000) "Inconsistent individual attitudes within consistent attitudinal structures: comments on an important issue raised by John Bartle's paper on causal modelling of voting in Britain" ***British Journal of Political Science*** ISSN 0007-1234, 30, 361-374.
- Johnston R , C J Pattie, D F L Dorling, I MacAllister, H Tunstall and D J Rossiter (2001) "Social locations, spatial locations and voting at the 1997 British general election: evaluating the sources of Conservative support" ***Political Geography***, 20, ISSN 0962-6298, 85-112.
- Johnston Ron, Carol Propper, Simon Burgess, Rebecca Sarker, Anne Bolster, Kelvyn Jones (2005) 'Spatial scale and the neighbourhood effect: multinomial models of voting at two recent British general elections', ***British Journal Of Political Science***, 35 (3):487-514.
- Jones Andrew (2006) 'Allowing for heterogeneity in the decomposition of measures of inequality in health', ***Journal Of Economic Inequality***, 4 (3):347-365.
- Jones Andrew M, Angel Lopez Nicolas (2004) 'Measurement and explanation of socioeconomic inequality in health with longitudinal data' ***Health Economics***, 13: 1015-1030.
- Jones Andrew, Nigel Rice (2005) 'Using longitudinal data to investigate socioeconomic inequality in health', *Health policy and economics: opportunities and challenges*, edited by Peter C. Smith, Laura Ginnelly and Mark Sculpher, Maidenhead: Open University Press. Ch. 4: 88-120.
- Jones Andrew M, Nigel Rice, Paul Contoyannis (2006 forthcoming) 'The dynamics of health', *The Elgar companion to health economics*, edited by Andrew M. Jones, Cheltenham: Edward Elgar. Ch. 2.
- Jones Andrew M Nigel Rice, Teresa dUva Bago, Sylvia Balia (2007) 'Applied health economics', ***Routledge Advanced Texts In Economics And Finance***, London: Routledge.
- Jones Andrew M, John Wildman (2005 Oct.) 'Disentangling the relationship between health and income', ***HEDG Working Papers***, 05/07. York: Health, Econometrics and Data Group: University of York.
- Jones Andrew M, John Wildman (2007 Dec.) 'Health, income and relative deprivation: evidence from the BHPS', ***Journal Of Health Economics***, [Article in Press, Accepted Manuscript].

- Jones Melanie K, Richard J Jones, Philip D Murphy, Peter J Sloane (2007 (Feb.)) 'A persistence model of the National Minimum Wage', **IZA Discussion Papers**, 2595. Bonn: Institute for the Study of Labor.
- Jones R J, P J Sloane (2003) 'Low pay, higher pay and job satisfaction in Wales', **WELMERC Discussion Paper Series** 2003-5, Swansea: Welsh Economy and Labour Market Evaluation and Research Centre.
- Jones Richard J, Peter J Sloane (2004) 'Regional differences in job satisfaction: why are the Welsh so happy at work?', **WELMERC Discussion Paper Series**, 2004-05. Swansea: Welsh Economy and Labour Market Evaluation and Research Centre.
- Jones Richard J, Peter Sloane (2007) 'Low pay, higher pay and job satisfaction in Wales', **Spatial Economic Analysis**, 2 (2):197-214.
- Joshi, H (1998) "Gender Equity and Low Pay: a Note based on Britain" in C Lucifora and W Salverda (eds) Policies for Low Wage Employment and Social Exclusion, Milan: Franco Agneli, 141-147.
- Joshi, H and H B Davies (2000) "The price of parenthood and the value of children" in N Fraser and J Hills (eds) Making economic policy in the 21st Century: Essays in Honour of Henry Neuberger. Policy Press, Bristol 63-76.
- Kamerade Daiga (2007) 'Working at home and involvement in voluntary groups: a gender perspective (preliminary findings)', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Kan M (2000) 'Gender asymmetry in the division of domestic labour' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Kan Man-Yee (2005 Nov.) 'Work orientation and wife's employment careers: an evaluation of Hakim's preference theory', **ISER Working Papers**, 2005-27. Colchester: Institute for Social and Economic Research: University of Essex.
- Kan Man-Yee (2006) 'Symmetrical relationships? Influences of partners' characteristics on each other's housework participation and political choice -PhD Thesis-', Oxford: University of Oxford.
- Kan Man-Yee (2007) 'Work orientation and wives' employment careers: an evaluation of Hakim's preference theory', **Work And Occupations**, 34 (4):430-462.
- Kan Man-Yee (2008) 'Does gender trump money? Housework hours of husbands and wives in Britain', **Work Employment And Society**, 22 (1):45-66.
- Kan Man-Yee, Jonathan Gershuny (2006 Feb.) 'Human capital and social position in Britain: creating a measure of wage-earning potential from BHPS data', **ISER Working Papers**, 2006-3. Colchester: Institute for Social and Economic Research: University of Essex.
- Kan Man-Yee, Jonathan Gershuny (2008) 'Gender and time use over the life course', In Changing relationships, by Malcolm Brynin and John Ermisch (eds.), New York: Routledge. Ch.9: 146-160.
- Kan Man-Yee, Jonathan Gershuny (2009) 'Calibrating stylised time estimates using UK diary data', **Social Indicators Research**, 93 (1):239-243.
- Kan, Man-Yee, A Heath, (2003 June) 'The political attitudes and choices of husbands and wives', **Crest Working Paper Series**, 103. London: Nuffield College SCPR.

- Kan Man-Yee, A Heath (2006) 'The political values and choices of husbands and wives', ***Journal Of Marriage And The Family***, 68 (1):70-86.
- Kan Man-Yee, Heather Laurie (2007) 'The distribution of financial savings, wealth and debts within married and cohabiting couples -abstract-', BHPs-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Kan Man-Yee Stephen Pudney (2007) 'Measurement error in stylised and diary data on time use', ***ISER Working Papers***, 2007-3. Colchester: University of Essex.
- Kan Man Yee, Stephen Pudney (2008) 'Measurement error in stylised and diary data on time use', ***Sociological Methodology***, 38 (1):101-132.
- Kaiser, Lutz C. and Thomas Siedler (2000) "Exits from unemployment spells in Germany and the United Kingdom" ***EPAG Working Papers***, 7: Colchester: University of Essex
- Karagiannaki Eleni (2009 Jan.) 'The effect of health on consumption decisions in later life: evidence from the UK', ***CASEpapers***, CASE/136. London: Centre for Analysis of Social Exclusion: an ESRC Research Centre.
- Karlsson Martin, Les Mayhew, Ben Rickayzen (2009) 'Individualised life tables: investigating dynamics of health, work and cohabitation in the UK', ***Journal Of Population Ageing***, 1 (2-4):153-191.
- Kellard K. R Walker, K Ashworth, M Howard and W C Liu, "Staying in Work: Thinking About a New Policy Agenda". ***DfEE Research Report RR264***.
- Kelly M (2008) 'Estimation of synthetic neighbourhood boundaries for multilevel analysis of the contextual determinants of mental health and investigation of associated methodological issues -PhD Thesis-', Cardiff: University of Wales.
- Kelly Mark J, Frank D Dunstan, Keith Lloyd and David L Fone (2008) 'Evaluating cutpoints for the MHI-5 and MCS using the GHQ-12: A comparison of five different methods', ***BMC Psychiatry***, 8 (10).
- Kempson E, S McKay, M Willitts (2004) 'Characteristics of families in debt and the nature of indebtedness', ***Department For Work And Pensions Research Reports***, 211. London: Corporate Document Services.
- Kenjoh, Eiko (2003 June) 'Women's employment around birth of the first child in Britain, Germany, The Netherlands, Sweden and Japan', ***BHPs-2003 Conference: the 2003 British Household Panel Survey Research Conference***, 3-5 July 2001, Colchester, UK,
- Kenjoh E (2003) 'Family policy and below replacement fertility: household panel data analyses on timing of maternity in Britain, Germany, The Netherlands and Sweden (in Japanese)', ***Mita Business Review (Mita Shogaku Kenkyu)***, 46: no.3, 127-147.
- Kenjoh Eiko (2005) 'New mothers' employment and public policy in the UK, Germany, the Netherlands, Sweden, and Japan', ***Labour: Review Of Labour Economics And Industrial Relations***, 19 (s1):5-49.
- Kenjoh Eiko (2007) 'Employment options: Japan in comparative perspective'. In *Political economy of Japan's low fertility*, by Frances McCall Rosenbluth (ed.), Stanford: Stanford University. Ch. 5:112-130.

- Kenjoh E, S S Gustafsson, C Wetzels (2003) 'Standard and nonstandard work arrangements in the Netherlands, Sweden, Britain and Germany: employment choices and wage differences (in Japanese)', IN Machiko Osawa and Susan Houseman (eds.) *The Future of working life: a comparison of nonstandard work arrangements in Japan, Europe, and the United States*, (Hataraki-kata no Mirai: Hi-tenkei Rodo no Nichi-Bei-Ou Hikaku, in Japanese), The Japan Institute of Labour, 2003
- Khoman Ehsan, James Mitchell and Martin Weale (2008) 'Incidence-based estimates of life expectancy of the healthy for the UK: coherence between transition probabilities and aggregate life-tables', ***Journal Of The Royal Statistical Society Series A*** (STATISTICS IN SOCIETY), 171 (1):203-222.
- Kiernan K (1998) "Who divorces and the legacy of parental divorce. In *Persistent Poverty and Lifetime Inequality: the Evidence*" Proceedings of Treasury Workshop. **CASE** Report 5 and HM Treasury Occasional paper No. 10
- Kiernan K (1999) "Cohabitation in Western Europe" ***Population Trends*** No 96 25-32
- Kiernan K (1999) "Childbearing outside marriage in Western Europe" ***Population Trends*** 98 11-20
- Kiernan K (2000) "European Perspectives on Union Formation" In Eds L. Waite, C. Bachrach, M.Hindin, E. Thomson, and A. Thornton *Ties that Bind: Perspectives on Marriage and Cohabitation*. Hawthorne: Aldine de Gruyter.
- Kiernan K (2001) "The rise of cohabitation and childbearing outside of marriage in Western Europe" ***International Journal of Law, Policy and the Family*** 15:1, 1-21
- Kiernan K (2001) "Non-marital childbearing: a European Perspective" In Eds L.Wu and B. Wolfe *Out of Wedlock: Causes and Consequences of Non-Marital Fertility* Non-marital fertility Russell Sage Foundation
- Kiernan K (forthcoming) "Cohabitation in Western Europe: trends, issues and implications" In Eds A. Booth and A. Crouter *Just Living Together: Implications of Cohabitation on Families, Children and Social Policy* Lawrence Erlbaum Associates,
- Kiernan K and G Mueller (1998) 'Divorced and who divorces?', ***CASEpapers***, 7. London: Centre for Analysis of Social Exclusion: and ESRC Research Centre.
- Kiernan Kathleen E, Ganka Mueller (1999) 'Who divorces?', *Changing Britain: families and households in the 1990s* by Susan McRae (ed.), Oxford: Oxford University Press, Ch. 16. 377-403.
- King Derek, Elias Mossialos (2005) 'The determinants of private medical insurance prevalence in England, 1997-2000' ***Health Services Research***, 40:1 195-212.
- Kirsanova T, J Sefton, M Weale (2002) 'Playing the generation game: a re-examination of saving behaviour around retirement', ***National Institute of Economic and Social Research Discussion Paper Series***, 200. National Institute of Economic and Social Research.
- Kirsanova Tatiana, James Sefton (2005) 'A comparison of national saving rates in the UK, US and Italy: data appendix', Exeter: Unpublished.
- Klaveren Chris, Bernard Praag and Henriette Maassen van den Brink (2008) 'A public good version of the collective household model: an empirical approach with an application to British household data', ***Review Of Economics Of The Household***, 6 (2):169-191.
- Kodz J (2003 Nov.) 'Working long hours: a review of the evidence: volume 1: main report', ***Employment Relations Research Series***, 16. London: Department of Trade and Industry.

- Kodz J, S Davis, E Sheppard, J Rick, M Strebler, P Bates, J Cummings, N Meager, D Anxo, S Gineste, R Trinczek (2003) 'Working long hours in the UK', ***DTI Employment Relations Research Series***, 16. London: Department of Trade and Industry.
- Koevoets Wim (2007) 'Union wage premiums in Great Britain: coverage or membership?', ***Labour Economics***, 14 (1):53-71.
- Kogan Irena (2004) 'Labour market careers of immigrants in Germany and the United Kingdom', ***Journal Of International Migration And Integration***, 5 (4):417-447.
- Koo A (2003 July) 'Social inequality and differential educational plans', ***BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference***, 3-5 July 2001, Colchester, UK
- Koo Anita, Tak Wing Chan (2007) 'Parenting style in Britain -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Kotler-Berkowitz, Laurence A. (2001) 'Religion and voting behaviour in Great Britain: a reassessment', ***British Journal Of Political Science***, 31, no.3, 523-554.
- Kreyenfeld Michaela, Cordula Zabel (2005) 'Female education and the second child: Great Britain and Western Germany compared', ***Schmollers Jahrbuch Journal Of Applied Social Science Studies***, 125 (1):145-156.
- Kreyenfeld Michaela, Cordula Zabel (2007) 'Determinants of second birth risks in Great Britain and West Germany -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Kuhn Peter 'Is monopsony the right way to model labor markets? A review of Alan Manning's monopsony in motion', ***International Journal Of The Economics Of Business***, 11 (3):369-378.
- La Parra Daniel and Miguel Angel Mateo (2008) 'Health status and access to health care of British nationals living on the Costa Blanca, Spain', ***Ageing And Society***, 28 (1):85-102.
- Lambert P (2000) 'Individuals in Household panel surveys: dealing with person-group clustering in individual level statistical models using BHPS data' ***BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference***, 5-7 July 2001, Colchester, UK.
- Lambert Paul S. (2006) 'The British Household Panel Survey: introduction to a longitudinal data resource', ***Longitudinal Data Analysis For Social Science Researchers Working Papers***, 2006-2. Stirling: University of Stirling.
- Lambert Paul, Kenneth Prandy, Wendy Bottero (2007) 'By slow degrees: two centuries of social reproduction and mobility in Britain', ***Sociological Research Online***, 12 (1).
- Lambert Paul, Kenneth Prandy and Wendy Bottero (2007) 'Is social mobility an echo of educational mobility? Parents' educations and occupations and their children's occupational attainment', ***Sociological Research Online***, 12 (5).
- Lang P (1999) "The Comprehensive School Experiment Revisited: Evidence from Western Europe" 2nd edition (article)
- Laurie, Heather, (1992) "Multiple Methods in the Study of Household Resource Allocation", in Brannen, J (ed) ***Mixing Methods: Qualitative and Quantitative Research***. UK: Avebury
- Laurie Heather, (1998) 'Women's employment patterns and money within marriage: a longitudinal perspective'.

- Laurie Heather (2007) 'The effect of increasing financial incentives in a panel survey: an experiment on the British Household Panel Survey, Wave 14', **ISER Working Papers**, 2007-5. Colchester: University of Essex.
- Laurie Heather, L Corti, S Dex (1993) "Highly Qualified Women" London: **Employment Department Research Series**, 50
- Laurie, Heather, U Kelle (1995) "Computer Use in Qualitative Research and Issues of Validity", in Kelle U. (ed). **Qualitative Methodology and Computers**. London: Sage.
- Laurie Heather, Peter Lynn (2008) 'The use of respondent incentives on longitudinal surveys', **ISER Working Papers**, 2008-42. Colchester: University of Essex.
- Laurie Heather, Peter Lynn (2009) 'The use of respondent incentives on longitudinal surveys', In Methodology of longitudinal surveys, by Peter Lynn (ed.), Chichester: Wiley. Ch.12: 205-233.
- Laurie, Heather, D Rose, B Whelan, J Williams (1993) "Comparing Household Allocative Systems in Britain and Ireland: A Preliminary Investigation", **Discussion Papers of the ESRC Research Centre on Micro-social Change**
- Laurie Heather, R Smith, L Scott (1996) "Maintaining high response in a panel survey" in Banks, R (ed) **Survey and statistical computing 1996: proceedings of the second ASC international conference, Imperial College, London, UK**, September 11-13 :111-121
- Laurie Heather, R Smith, L Scott (1997) "Minimising non-response in a panel survey" *in Symposium 96: nonsampling errors: proceedings: Statistics Canada*: 93-106
- Laurie, Heather, R Smith, L Scott (1999) "Strategies for reducing nonresponse in a longitudinal panel survey" **Journal Of Official Statistics**, 15, no 2, 269-282.
- Laurie, Heather, O Sullivan (1991) "Combining Qualitative and Quantitative Data in the Longitudinal Study of Household Allocations", **The Sociological Review**. 39:(1) 113-130
- Layard Richard, Guy Mayraz, Stephen Nickell (2007) 'The marginal utility of income', **CEPR Discussion Paper Series**, 784. London: London School of Economics: Centre for Economic Performance.
- Layard Richard, Guy Mayraz, Stephen Nickell (2008) 'The marginal utility of income', **Journal Of Public Economics**, 92 (8-9):1846-1857.
- Layte R and C T Whelan (2001) 'Cumulative disadvantage or individualisation? a comparative analysis of poverty risk and incidence' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Lebo M (2000) 'Imperfect memory and the British electorate – evidence of partisan instability from the British Household Panel Study' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Leece, D. (1997) Mortgage Design in the 1990s: Theoretical and Empirical Issues, **Journal of Property Finance**, 8(3): 226-245
- Leece, David (1999) "Applying data visualization and knowledge discovery in databases to segment the market for risky financial assets" **Managerial And Decision Economics**, 20: 267-280: John Wiley
- Leece, David (2000) 'Household choice of fixed versus floating rate debt: a binomial probit with correction for classification error', **Oxford Bulletin Of Economics And Statistics**, 62, no.1, 60-82.

- Leicester Andrew, Zoe Oldfield (2009) 'An analysis of consumer panel data', **IFS Working Paper Series**, W09/09. London: Institute for Fiscal Studies.
- Leicester Andrew, Frank Windmeijer (2004 June) 'The 'fat tax': economic incentives to reduce obesity', **IFS Briefing Notes**, 49. London: Institute for Fiscal Studies.
- Leontaridi, Rannia M (2002 Dec.) 'Career, experience and returns to human capital: is the dual labour market hypothesis relevant for the UK?', **Research In Economics**, 56:4, 399-426.
- Leontaridi, Rannia M, P Sloane, (2003 July) 'Low pay, higher pay, earnings mobility and job satisfaction', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Leontaridi Rannia M, Peter J Sloane (2005) 'Low pay, higher pay and job satisfaction' IN **Changing Scotland: evidence from the British Household Panel Survey** by John F. Ermisch and Robert E. Wright (eds.), Ch. 13. Bristol: Policy Press. 199-210.
- Leschinsky, Achim, Karl Ulrich Mayer (ed.) (1999) **The comprehensive school experiment revisited: evidence from Western Europe**, 2nd ed.enl. Peter Lang
- Li Y, A Pickles, M Savage (2003 July) 'Conceptualising and measuring social capital: a new approach', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK,
- Li Y, A Pickles, M Savage [2003] 'Social capital dimensions, social trust and quality of life in Britain in the late 1990s', mimeo
- Li Yaojun, Fiona Devine, Anthony Heath (2008 Dec.) 'Equality group inequalities in education, employment and earnings: a research review and analysis of trends over time', **EHRC Research Report Series**, 10. Manchester: Equality and Human Rights Commission.
- Li Yaojun, Andrew Pickles, Mike Savage (2005 Apr.) 'Social capital and social trust in Britain' **European Sociological Review**, 21: no.2, 109-123.
- Li Y J, M Savage, G Tampubolon, A Warde, M Tomlinson (2002) 'Dynamics of social capital: trends and turnover in associational membership in England and Wales, 1972-1999', **Sociological Research Online**, 7:3 U97-U132.
- Liao T.F. (2005) 'Assessing hidden bias in the estimation of causal effect in longitudinal data by using a matching estimator with Rosenbaum bounds' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- Lichtwardt Beate (2009) 'Essays on the value of qualification and ways of measuring overqualification: Great Britain and West Germany, 1991-2004 -MPhil Thesis-', Colchester: University of Essex. Institute for Social and Economic Research.
- Lillard Dean R (2005) 'You can't always get what you want: observations on self-reported satisfaction, consumption, and underlying utility' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- Lillard, Dean R, R V Burkhauser (2003 July) 'Income inequality and health: a longitudinal analysis - draft: do not quote without authors' permission-', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK,
- Lillard Dean R, Richard V Burkhauser (2005) 'Income inequality and health: a cross-country analysis', **Schmollers Jahrbuch**, 125 (1):109-118.

- Lillard Dean R, Hua Wang (2007) 'A heap of trouble? Accounting for mismatch bias in retrospective data -abstract-', BHPs-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Lindley Joanne and Paula K Lorgelly (2005) 'The relative income hypothesis: does it exist over time? Evidence from the BHPs', **Sheffield Economic Research Paper Series**, 2005013. Sheffield: University of Sheffield. Department of Economics.
- Lindley Joanne, Steven McIntosh (2008) 'A panel data analysis of the incidence and impact of over-education', **Sheffield Economic Research Paper Series**, 2008009. Sheffield: University of Sheffield. Department of Economics.
- Lipps Oliver (2009 Mar.) 'Attrition of households and individuals in panel surveys', **SOEP Papers on Multidisciplinary Panel Data Research**, 164. Berlin: Deutsches Institut für Wirtschaftsforschung.
- Lira Cristina (2005) 'The role of network resource in households' saving decisions' **BHPs-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- Lissenburgh S `Gender discrimination in the labour market: evidence from the BHPs and EIB surveys' Institute for Public Policy Research.
- Lloyd James (2007) 'Asset accumulation in focus: the challenges ahead', London: International Longevity Centre UK.
- Lloyd James (2008) 'Navigating the age of inheritance: a report of research carried out by the National Centre for Social Research on behalf of the ILC-UK', London: International Longevity Centre UK.
- Lloyd James (2008) 'A National Care Fund for long-term care', London: International Longevity Centre UK.
- Lloyd Katrina and Paula Devine (2006) 'Parenting practices in Northern Ireland: evidence from the Northern Ireland Household Panel Survey', *Child Care In Practice*, 12 (4):365-376.
- London Economics and PPP Healthcare (1998) **Economics of informal care: a report by London Economics to Carers National Association** London Economics
- Lorgelly Paula K, Joanne Lindley (2007 (Apr.)) 'What is the relationship between income inequality and health? Evidence from the BHPs', **Health Economics**, (Early View).
- Lucas Richard E (2007) 'Adaptation and the set-point model of subjective well-being: does happiness change after major life events?', **Current Directions In Psychological Science**, 16 (2):75-79.
- Ludbrook, Anne, M Mwale, I Theodossiou (2003 July) 'Measuring health impacts of income change from BHPs data: choice of health measure matters -work in progress do not cite-', **BHPs-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK,
- Ludbrook Anne, I Theodossiou, V Gerova (2005) 'Health and deprivation' IN **Changing Scotland: evidence from the British Household Panel Survey** by John F. Ermisch and Robert E. Wright (eds.), Ch. 7. Bristol: Policy Press. 99-112.
- Lutz, Debbie (1994) **Respondent relations in longitudinal surveys**. Ottawa: Statistics Canada
- Lydon, Remonn and Arnaud Chevalier, (2002) 'Estimates of the effect of wages on job satisfaction', **CEPR Discussion Papers**, 0531. London: Centre for Economic Performance.

- Lynn Peter (2004) 'Editorial: measuring and communicating survey quality', ***Journal Of The Royal Statistical Society Series A (Statistics In Society)***, 167 (4):575-578.
- Lynn Peter (ed.) (2006) 'Quality profile: British Household Panel Survey. Version 2: waves 1 to 13: 1991-2003', Colchester: University of Essex. Institute for Social and Economic Research.
- Machin Stephen (2003) 'Higher education, family income and changes in intergenerational mobility', IN Dickens, Richard Gregg, Paul and Wadsworth, Jonathan (eds.) *The labour market under new labour: the state of working Britain*, Ch. 18, 280-290 Basingstoke: Palgrave Macmillan.
- Machin Stephen (2007) 'Education expansion and intergenerational mobility in Britain'. In *Schools and the equal opportunity problem*, by Ludger Woessmann and Paul E. Peterson (eds.), Cambridge, Mass.: MIT Press. Ch.2: 29-50.
- Machin Stephen (2008) 'The new economics of education: methods, evidence and policy', ***Journal Of Population Economics***, 21 (1):1-19.
- Machin Stephen and Anna Vignoles (2004) 'Educational inequality: the widening socio-economic gap', ***Fiscal Studies***, 25 (2):107-128.
- Machin, Stephen and J Waldfogel (1994) "The Decline of the Male Breadwinner" London School of Economics ***Sticerd Welfare State Programme Discussion Paper Series***, Wsp-103
- Mack D (1992) 'DAI models of organisations: report to the British Household Panel Study'.
- MacLeod Flora and Paul Lambe 'Dynamics of adult participation in part-time education and training: results from the British Household Panel Survey', ***Research Papers In Education***, 23 (2):231-241.
- Macleod Flora, Paul Lambe (2006) 'Who amongst initial phase leavers in England is least likely to return to adult learning? Evidence from the BHPS cohort 1997 leavers', British Educational Research Association Annual Conference, 6-9 July 2006, University of Warwick,
- MacLeod Flora, Paul Lambe (2007) 'Patterns and trends in part-time adult education participation in relation to UK nation, class, place of participation, gender, age and disability, 1998-2003', ***International Journal Of Lifelong Education***, 26 (4):399-418.
- MacLeod Flora, Paul Lambe (2007) 'Role configurations and pathways: a latent structure approach to studying formal learning in the life course -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Magadi Monica, Sue Middleton (2006) 'Britain's poorest children revisited: evidence from the BHPS (1994-2002)', ***Centre For Research In Social Policy -Publications- CRSP***, 3. Leicester: Save the Children.
- Malo Miguel A., Fernando Munoz-Bullon (2003 Sept.) 'Long-term effects of involuntary job separations on labour careers', ***Universidad Carlos III De Madrid: Sección De Organización De Empresas De Getafe Working Papers (Business Economics Series)***, 03-42. Madrid: Universidad Carlos III de Madrid: Sección de Organización de Empresas de Getafe.
- Malo Miguel A., Fernando Munoz-Bullon (2004 Mar.) 'Career breaks of women due to family reasons: a long-term perspective using retrospective data', ***Universidad Carlos III De Madrid: Sección De Organización De Empresas De Getafe Working Papers (Business Economics Series)***, 04-18. Madrid: Universidad Carlos III de Madrid: Sección de Organización de Empresas de Getafe.

- Malo Miguel A, Fernando Munoz-Bullon (2007) 'Breaks in women's careers due to family reasons: a long-term perspective', **Universidad Carlos III De Madrid: Departamento De Economía De La Empresa: Business Economics Working Papers**, 07-01. Madrid: Universidad Carlos III de Madrid: Sección de Organización de Empresas de Getafe.
- Malo Miguel A; Fernando Munoz-Bullon (2007 (May)) 'Long-term effects of involuntary job separations on labour careers', **Journal Of Socio-Economics**, [In press, corrected proof], doi:10.1016/j.socec.2006.12.048.
- Malo Miguel and Fernando Munoz-Bullon (2008) 'Women's family-related career breaks: a long-term British perspective', **Review Of Economics Of The Household**, 6 (2):127-167.
- Manning, Alan (2003 Apr.) 'The real thin theory: monopsony in modern markets', **Labour Economics**, 10: no.2.
- Manning A, H Robinson (2000) 'Something in the way she moves: a new decomposition of the male-female wage gap -mimeo-', Cardiff: Cardiff Business School.
- Manning A, H Robinson (2004) 'Something in the way she moves: a fresh look at an old gap', **Oxford Economic Papers**, 56: 169-188.
- Manning Alan, Joanna Swaffield (2005) 'The gender gap in early-career wage growth', **Centre For Economic Performance Discussion Papers**, 0700. London: London School of Economics.
- Manning Alan and Joanna Swaffield (2008) 'The gender gap in early-career wage growth', **Economic Journal**, 118 (530):983-1024.
- Manquilef-Bächler Alejandra A, Wiji Arulampalam, Jennifer C Smith (2009 Apr.) 'Differences in decline: quantile regression analysis of union wage differentials in the United Kingdom, 1991-2003', **IZA Discussion Papers**, 4138. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Martinez-Granado, Maite (2002 Nov.) 'Self-employment and labour market transitions: a multiple state model', **CEPR Discussion Paper Series**, 3661. London: Centre for Economic Policy Research.
- Mattil Birgit (2006) 'Pension systems: sustainability and distributional effects in Germany and the United Kingdom', **Contributions To Economics**, New York: Physica-Verlag.
- May Orla, Merxe Tudela (2005) 'When is mortgage indebtedness a financial burden to British households? a dynamic probit approach' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK, Colchester:
- May Orla, Merxe Tudela, Garry Young (2004) 'British household indebtedness and financial stress: a household-level picture', **Bank Of England Quarterly Bulletin**, 44 (4):414-428.
- McCarthy David (2009) 'Investment guarantees for personal accounts', **Department For Work And Pensions Working Paper Series**, 62. Norwich: HMSO.
- McCartney Ian (2007) 'Work and Pensions - 'Opportunity for All': Members in the Commons Hansard written answers text for 24 October 2002', Hansard (House of Commons Daily Debates), 485W (column no.). London: TSO.
- McCausland W D, K Pouliakas, I Theodossiou, I. (2005) 'Some are punished and some are rewarded: a study of the impact of performance pay on job satisfaction', **International Journal Of Manpower**, 26 (7-8):636-659.

- McCausland W D, K Pouliakas, I Theodossiou . (2007) 'Some are punished and some are rewarded: a study of the impact of performance pay on job satisfaction', **University Of Aberdeen Business School: Centre For European Labour Market Research Discussion Paper**, 2007-06. Aberdeen: University of Aberdeen.
- McCulloch Andrew (2000) 'Psychiatric morbidity and non-ignorable attrition from the British Household Panel Study' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- McCulloch Andrew (2000) 'An investigation of health and attrition in the British Household Panel Study (preliminary draft)', Wiesbaden: Statistisches Bundesamt.
- McCulloch Andrew (2001) 'Ward-level deprivation and individual social and economic outcomes in the British Household Panel Study' **Environment and Planning**, 33, no 4, 667-684. Pion.
- McCulloch, Andrew (2001) 'Reply: ward-level deprivation and individual social and economic outcomes in the British household Panel Study', **Environment And Planning: A**, 33, 1365-1369.
- McCulloch Andrew (2001) 'Social environments and health: cross sectional national survey' **British Medical Journal**, 323, 208-209.
- McCulloch, Andrew (2001) 'How much does place matter? ward-level deprivation and individual social and economic outcomes in the British Household Panel Study:
- McCulloch, Andrew (2003) 'Local labour markets and individual transitions into and out of poverty: evidence from the British Household Panel Study waves 1 to 8', **Environment And Planning: A**, 35: 551-568.
- McCulloch, Andrew, H Joshi (2001) "Neighbourhood and family influences on the cognitive ability of children in the British National Child Development Study" **Social Science and Medicine** 53, 579-591 Working paper 00-24 not using BHPS data
- McCulloch, Andrew, H Joshi (forthcoming) "Child Development and Family Resources: as exploration of evidence from the second generation of the 1958 Birth Cohort" **Journal of Population Economics**. Working paper 99-15
- McGinnity F (2001) "Who Benefits? A Comparison of Welfare and Outcomes for the Unemployed in Britain and Germany". Unpublished doctoral thesis, Oxford: Nuffield College.
- McGinnity, Frances (2002) 'The labour-force participation of the wives of unemployed men: comparing Britain and West Germany using longitudinal data', **European Sociological Review**, 18, no.4, 473-488.
- McGinnity Frances (2007) 'Paying the price for reconciling work and family life: comparing the wage penalty for women's part-time work in Britain, Germany and the United States', **Journal Of Comparative Policy Analysis: Research And Practice**, 9 (2):115-134.
- McGregor P, P McKee, C O'Neill (2007 (Apr.)) 'The role of non-need factors in individual GP utilisation analysis and their implications for the pursuance of equity: a cross-country comparison', **European Journal Of Health Economics**, (Online First), DOI 10.1007/s10198-007-0053-6.
- McGuinness Seamus, Jessica Bennett (2005) 'Intra and inter-generational changes in the returns to schooling 1991-2002', **ERINI Working Papers**, 6. Belfast: The Economic Research Institute of Northern Ireland (ERINI).
- McGuinness Seamus, Jessica Bennett (2009) 'Changes in the returns to schooling 1991-2002: evidence from the British Household Panel Survey', **Education Economics**, 17 (2):167-184.

- McKay Stephen (2005) 'Debt: envy, penury or necessity?', *Seven Deadly Sins: A new look at society through an old lens* by Iain Stewart and Romesh Vaitilingam (eds), Swindon: ESRC. 28-31.
- McKay, Stephen, E Kempson (2003) 'Savings and life events', **Department For Work And Pensions Research Reports**, 194. London: Corporate Document Services.
- McKnight A, P Elias and R Wilson (1998) **Low pay and the national insurance system: a statistical picture** Equal Opportunities Commission
- McManus Patricia (2007) 'Married women's work trajectories and income inequality in Germany, Great Britain and the United States -abstract-', BHPs-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- McRae S (1999) 'Changing Britain: families and households in the 1990s' Oxford: Oxford University Press.
- Meads A R J (2007) 'Choice, constraint, class and culture: an evaluation of British women's work-family choices, 1991-2003 -PhD Thesis-', Bath: University of Bath.
- Meager Nigel (2008) 'Self-employment dynamics and 'transitional labour markets': some more UK evidence', In *Flexibility and employment security in Europe: labour markets in transition*, by Ruud J.A. Muffels (ed.), Ch.8: 195-222. Cheltenham: Edward Elgar.
- Meen, Geoffrey and Mark Andrew (1999) "Spatial structure and social exclusion" **University Of Reading Department Of Economics Discussion Papers**, 140: Reading: University of Reading
- Meen Geoffrey and Mark Andrew (2008) 'Planning for housing in the post-Barker era: affordability, household formation, and tenure choice', *OXFORD REVIEW OF ECONOMIC POLICY*, 24 (1):79-98.
- Meier E, C Moy. (1999) 'Social classifications: a new beginning or less of the same?', **Journal Of The Market Research Society**, 41:2(Apr.), 135-151.
- Melero Eduardo (2004 Nov.) 'Evidence on training and career paths: human capital, information and incentives' **IZA Discussion Papers**, 1377. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Mendolia Silvia (2009) 'The impact of job loss on family mental health', Australian Social Policy Conference, 8-10 July 2009, University of New South Wales, Sydney, Australia
- Mentzakis Emmanouil, Mirko Moro (2009) 'The poor, the rich and the happy: exploring the link between income and subjective well-being', **Journal Of Socio-Economics**, 38 (1):147-158.
- Michalopoulos, Charles and Tracey Hoy (2001) 'When financial incentives pay for themselves: interim findings from the self-sufficiency project's applicant study', Ottawa: SRDC.
- Michalopoulos, Charles, Doug Tattrie, Cynthia Miller, Philip K Robins, Pamela Morris, David Gyarmati, Cindy Redcross, Kelly Foley and Reuben Ford (2002) 'Making work pay: final report on the self-sufficiency project for long-term welfare recipients', Ottawa, Ontario: SRDC.
- Middleton Sue, Ruth Hancock, Karen Kellard, Jacqueline Beckhelling, Viet-Hai Phung, Kim Perren (2007) 'Measuring resources in later life: a review of the data', York: Joseph Rowntree Foundation.
- Miles, D K and J A Sefton (2002) 'Optimal social security design', **Centre For Economic Performance Discussion Paper**, 3290. London: Centre for Economic Performance.

- Mills Melinda, Hans Peter Blossfeld, Erik Klijzing (2005) 'Becoming an adult in uncertain times: a 14-country comparison of the losers of globalization', In Hans-Peter Blossfield, Erik Klijzing, Melinda Mills and Karin Kurz, eds *Globalization, uncertainty and youth in society*, London: Routledge.
- Mitchell James, Martin Weale (2007) 'Qualitative expectational data as predictors of income and consumption growth: micro evidence from the British Household Panel Survey', ***National Institute Of Economic And Social Research Discussion Papers: NEW SERIES***, 286. London: National Institute of Economic and Social Research.
- Mitchell James, Martin Weale, Martin (2007) 'The rationality and reliability of expectations reported by British households: micro evidence from the British Household Panel Survey', ***Deutsche Bundesbank Discussion Paper Series 1: Economic Studies***, 19/2007. Frankfurt: Deutsche Bundesbank.
- Mitchell James, Martin Weale (2007) 'The rationality and reliability of expectations reported by British households: micro evidence from the British Household Panel Survey', ***National Institute Of Economic And Social Research Discussion Paper Series***, 287. London: National Institute of Economic and Social Research.
- Mocan, H. Naci, Benjamin Scafidi and Erdal Tekin (2002) 'Catholic schools and bad behavior', ***IZA Discussion Papers***, 599. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Moon N and R Smith (1993) "Using videos in interviewer briefing" ***Market Research Society: 36th annual conference: International Convention Centre, Birmingham***, 24-26 February: 153-164
- Moore Simon C (2007 (Oct.)) 'The nonpecuniary effects of smoking cessation: happier smokers smoke less', ***Applied Economics Letters***, [Online Early].
- Morelli Carlo, Paul Seaman (2004 Nov.) 'Universal versus targeted benefits: the distributional effects of free school meals - discussion paper -' ***Dundee Discussion Papers In Economics***, 173. Dundee: University of Dundee. Department of Economic Studies.
- Morelli Carlo, Paul Seaman (2005 Sept.) 'Devolution and inequality: a sorry tale of ineffectual government and failure to create a community of equals?', ***Dundee Discussion Papers In Economics***, 181. Dundee: University of Dundee. Department of Economic Studies.
- Morelli Carlo Paul Seaman (2005 Oct.) 'Regional diversity and child poverty: the case of Child Benefit and the need for joined up thinking', ***Dundee Discussion Papers In Economics***, 182. Dundee: University of Dundee. Department of Economic Studies.
- Morelli Carlo Paul Seaman, Paul (2005) 'Universal versus targeted benefits: the distributional effects of free school meals', ***Environment And Planning C: Government And Policy***, 23 (4):583-598.
- Morelli Carlo, Paul T Seaman (2006) 'Still hungry for success? Targeting the poor and the case of free school meals', ***Dundee Discussion Papers In Economics***, 189. Dundee: University of Dundee. Department of Economic Studies.
- Morelli Carlo, Paul Seaman (2007) 'Devolution and inequality: a failure to create a community of equals?', ***Transactions Of The Institute Of British Geographers***, 32 (4):523-538.
- Morris, Stephen and Alistair McGuire (2000) 'The private net present value and private internal rate of return to becoming a nurse in Great Britain', ***Applied Economics***, 34, no.17, 2189-2200.
- Moullin Sophie (2007 (Dec.)) 'Care in a new welfare society: unpaid care, welfare and employment', London: Institute for Public Policy Research.

- Moyes P and A F Shorrocks "Transformations of stochastic orderings" **ESRC Research Centre on Micro-social Change Occasional Paper**, 3: University of Essex
- Muffels R (forthcoming) "Income inequality and poverty dynamics in three welfare states. Panel data for West Germany, the Netherlands and the UK 1991 - 95"
- Muffels, Ruud J.A., Didier Fouarge and Ronald Dekker (1999) "Longitudinal poverty and income inequality: a comparative panel study for the Netherlands, Germany and the UK" rev. 2000 (Oct.) **EPAG Working Papers**, 1: Colchester: University of Essex
- Müller W, M Gangl, S Scherer (2001): Die Übergangsstruktur zwischen Bildung und Beschäftigung [The Structuring of the Transition from Education to Work]. In: Wingens, Matthias/Sackmann, Reinhold (Eds.): Bildung und Beruf [Education and Occupation]. Weinheim/München: Juventa. In Press.
- Munoz-Bullon F, M A Malo (2003) 'Employment status mobility from a life-cycle perspective: a sequence analysis of work-histories in the BHPS', **Demographic Research**, 9 (Oct.): 7.
- Murphy Helen (2007) 'Civil conflict in Northern Ireland and the prevalence of psychiatric disturbance across the United Kingdom: a population study using the British Household Panel Survey and the Northern Ireland Household Panel Survey', **International Journal Of Social Psychiatry**, 53 (5):397-407.
- Murphy, M and E Grundy (1995) "Changes in intergenerational support transfers in the 1980's: the case of living arrangements". **Intergenerational Support Milan Paper**, 19.
- Murphy M and D Wang (1998) "Family and Sociodemographic Influences on Patterns of Leaving Home in Postwar Britain" **Demography**, 35: 3. 293-305
- Murphy, M 'Are cohabiting unions more likely to break down than marriages?' **Changing Britain**, Issue Two, April 1995 pp4-6 Swindon: ESRC
- Murphy M and D Wang (1999) Forecasting British families into the 21st century. Pp 100-137 in S McRae (ed) Changing Britain: Families and Households in the 1990s. Oxford: Oxford University Press.
- Myck Michal (2007) 'Wages and ageing: is there evidence for the 'inverse-U' profile?', **IZA Discussion Papers**, 2983. Bonn: Institute for the Study of Labor.
- Nathan G (1999) "Review of Sample Attrition and Representativeness in Three Longitudinal Surveys: The British Household Panel Survey, the 1970 British Cohort Study and the National Child Development Study" **GSS Methodology Series**, 13: London: Office for National Statistics London
- Nelson, W, J Scales (2003) 'The culture of change', London: Future Foundation.
- Nettleton S and R Burrows (1998) "Mortgage Debt, Insecure Home Ownership and Health" in **Sociology of Health and Illness** 20, no 5, 731-753. Blackwell Publishers.
- Netuveli G, R D Wiggins, S M Montgomery, Z Hildon, D Blane (2008) 'Mental health and resilience at older ages: bouncing back after adversity in the British Household Panel Survey', **Journal Of Epidemiology And Community Health**, 62 (11):987-991.
- Newton, H and R Walker (1993) "British Household Panel Survey: Data viability with reference to income support", Loughborough: **CRSP Working Paper**
- Newton, Kenneth and Malcolm Brynin (2001) 'The National press and party voting in the UK', **Political Studies**, 49, 265-285.

- Nicoletti C (2000) 'Two-step estimation of binary response models with sample selection' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Nicoletti Cheti (2008) 'Multiple sample selection in the estimation of intergenerational occupational mobility', **ISER Working Papers**, 2008-20. Colchester: University of Essex.
- Nicoletti C, N Buck (2004 Dec.) 'Explaining interviewee contact and co-operation in the British and German Household Panels', 143-166. Harmonisation of panel surveys and data quality, Ch.6. Wiesbaden: Statistisches Bundesamt.
- Nicoletti C, F Peracchi (2002 June) 'A cross-country comparison of survey participation in the ECHP ', **EPUNet-2003 Conference: the conference of the European Panel Users Network**: 3-5 July 2003, Colchester
- Noble M, G Smith, S Y Cheung, D de Moor, T Smith and S Whitlock (1998) **Lone mothers moving in and out of benefits** York Publishing Services Limited
- Oesch Daniel (2006) 'Coming to grips with a changing class structure: an analysis of employment stratification in Britain, Germany, Sweden and Switzerland', *International Sociology*, 21 (2):263-288.
- Oesch Daniel (2008) 'The changing shape of class voting. An individual-level analysis of party support in Britain, Germany and Switzerland', **European Societies**, 10 (3):329-355.
- Oesch Daniel (2008) 'Stratifying welfare states: class differences in pension coverage in Britain, Germany, Sweden and Switzerland', **Swiss Journal Of Sociology**, 34 (3):5-35.
- OECD (1997) "Is Job Insecurity on the Rise in OECD Countries?", OECD **Employment Outlook 1997**.
- OECD (2002) 'The ins and outs of long-term unemployment', OCED Employment Outlook: 2002, Ch. 4: 187-243.
- OECD (2002) 'Women at work: who are they and how are they faring?', OCED Employment Outlook: 2002, Ch. 2: 61-125.
- Ohinata Asako (2008) 'Fertility response to financial incentives: evidence from the Working Families Tax Credit in the UK', **Warwick Economics Research Papers**, 851. Warwick: University of Warwick: Department of Economics.
- Oishi Shigehiro, Ed Diener, Richard E Lucas (2007) 'The optimum level of well-being: can people be too happy?', **Perspectives On Psychological Science**, 2 (4):346-360.
- Oldfield Zoe and Eva Sierminska (2007) 'Differences in the measurement and structure of wealth using alternative data sources: the case of the UK', **IFS Working Paper Series**, WP11/07. London: Institute for Fiscal Studies.
- Olson W, S Walby (2004 Winter) 'Modelling gender pay gaps', **EOC Working Paper Series**, 17. Manchester: Equal Opportunities Commission.
- O'Muircheartaigh, C O and P C Campanelli (1998) "The Relative Impact of Interviewer Effects and Sample Design Effects on Survey Precision". **Journal of the Royal Statistical Society (A)**: 161(1):63-78
- O'Muircheartaigh C O, P Campanelli and P W F Smith (Comm) (1999) 'A multilevel exploration of the role of interviewers in survey non-response', in **Journal of the Royal Statistical Society**, Vol.162, No.3, pp.437-448

- Organisation for Economic Cooperation and Development (2008) 'Jobs for youth: United Kingdom', : Des emplois pour les jeunes , Paris: OECD.
- Organisation for Economic Cooperation and Development (2008) 'OECD Employment Outlook: 2008', Paris: OECD.
- Ormerod Catrin (2007) 'What is known about numbers and 'earnings' of the self-employed?', ***Economic And Labour Market Review***, 1,no.7: 48-56.
- Oskrochi, Gholamereza and Robert Crouchley (2000) 'Using SPSS and Gauss to unify the BHPS work history data', ***Centre For Applied Statistics Working Paper Series***, 2000/03. Lancaster: Lancaster University.
- Oswald Andrew J (Univ of Warwick Dept Economics), Powdthavee, Nattavudh (Insitute of Education Univ of London) 'Daughters and left-wing voting', unpub paper
- Oswald Andrew J; Nattavudh Powdthavee (2007) 'Death and the calculation of hedonic damages - Preliminary draft for a June 1-2 workshop at the University of Chicago -',
- Oswald Andrew J; Nattavudh Powdthavee (2007) 'Obesity, unhappiness, and 'The challenge of affluence': theory and evidence', ***IZA Discussion Papers***, 2717. Bonn: Institute for the Study of Labor.
- Oswald Andrew J; Nattavudh Powdthavee (2007) 'Obesity, unhappiness, and 'The challenge of affluence': theory and evidence', ***Warwick Economics Research Papers***, 793. Warwick: University of Warwick: Department of Economics.
- Oswald Andrew J; Nattavudh Powdthavee (2007) 'Obesity, unhappiness, and 'The challenge of affluence': theory and evidence [Book review feature...of 'The challenge of affluence: self-control and well-being in the United States and Britain since 1950', by Avner Offer]', ***Economic Journal***, 117 (521):441-454.
- Oswald Andrew and Nattavudh Powdthavee (2007) 'A new approach to awarding compensation in courts', VOX, 30th Oct..
- Oswald Andrew J and Nattavudh Powdthavee (2008) 'Does happiness adapt? A longitudinal study of disability with implications for economists and judges', *Journal Of Public Economics*, 92 (5-6):1061-1077.
- Oswald Andrew J, Nattavudh Powdthavee (2009?) 'Daughters and left-wing voting', ***Review Of Economics And Statistics***, [Forthcoming].
- Oswald, Christiane. Das Ausscheiden aus dem Erwerbsleben in Deutschland und in Grossbritannien Peter Lang, Frankfurt a.M. ISBN 3-631-38144-1
- Oxley H, P Antolin and T-T Dang (2000) "Poverty dynamics in six OECD countries" ***OECD Economics Department Working Papers***
- Page Rosie (2007) 'The impact of gaining an NVQ Level 2: will the Leitch Review recommendations address the low returns?', ***Local Economy***, 22 (2):138-147.
- Pahl Jan (2005) 'Individualisation in couple finances: who pays for the children?', ***Social Policy And Society***, 4 (4):381-391.
- Pahl R E (1997) "Future Britain: the ties that bind: creating communities" paper presented at the ***ESRC Social Science conference, 25 June***

- Pahl R E (1999) "Social Trends: The Social Context of Healthy Living" **Nuffield Trust** London (Policy Futures for UK Health Technical Series)
- Pahl R E, David J Pevalin (2005) 'Between family and friends: a longitudinal study of friendship choice' **British Journal Of Sociology**, 56:3, 433-450.
- Pahl R and L Spencer (1997) "The politics of friendship" **Renewal** No.3/4 :100-107
- Palmer Guy, Tom MacInnes, Peter Kenway (2006) 'Monitoring poverty and social exclusion in Scotland 2006', York: Joseph Rowntree Foundation/New Policy Institute.
- Palmer Guy, Tom MacInnes and Peter Kenway (2007) 'Monitoring poverty and social exclusion 2007', York: Joseph Rowntree Foundation.
- Palmer G, J North, J Carr, P Kenway (2003) 'Monitoring poverty and social exclusion 2003', York: Joseph Rowntree Foundation.
- Pannenberg M (2000) 'Overtime work, overtime compensation and the distribution of economic well-being evidence for West Germany and Great Britain' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Pannenberg, Markus and Gert G Wagner (2001) 'Overtime work, overtime compensation and the distribution of economic well-being: evidence for West Germany and Great Britain', **IZA Discussion Papers**, 318. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Panos Sousounis (2008 Jul.) 'State dependence in work-related training participation among British employees: a comparison of different random effects probit estimators', **MPRA Papers**, 14261. Munich: Munich University Library (Munich Personal RePEc Archive).
- Panos Sousounis (2009) 'The impact of work-related training on employee earnings: evidence from Great Britain', **MPRA Papers**, 14262. Munich: Munich University Library (Munich Personal RePEc Archive).
- Papasolomontos C and T Christie (1998) "Using national surveys: a review of secondary analyses with special reference to education" **Educational Research**, vol 40, no3. Centre for Formative Assessment Studies, University of Manchester
- Parker Simon C, 'Why do small firms produce the entrepreneurs?', **Journal Of Socio-Economics** (2008), doi: 10.1016/j.socec.2008.07.013
- Pascual Marta, David Cantarero (2007) 'Socio-demographic determinants of disabled people: an empirical approach based on the European Community Household Panel', **Journal Of Socio-Economics**, 36 (2):275-287.
- Paterson Lindsay, Frank Bechhofer and David McCrone (2004) 'Living in Scotland: social and economic change since 1980', Edinburgh: Edinburgh University Press.
- Paterson Lindsay, Christina Iannelli (2007) 'Patterns of absolute and relative social mobility: a comparative study of England, Wales and Scotland', **Sociological Research Online**, 12 (6).
- Paterson Lindsay and Christina Iannelli (2007) 'Social class and educational attainment: a comparative study of England, Wales, and Scotland', **Sociology Of Education**, 80 (4):330-358.
- Paull, G (1996) "The Biases Introduced by Recall and Panel Attrition on Labour Market Behaviour Reported in the British Household Panel Survey" . London School of Economics: **Centre for Economic Performance Working Paper**, no 827.

- Paull G (1996) "Dynamic labour market behaviour in the British Household Panel Survey: the effects of recall bias and panel attrition" ***Institute for Fiscal Studies, mimeo***
- Paull, Gillian (2002) 'Biases in the reporting of labour market dynamics', ***IFS Working Paper Series***, WP02/10. London: Institute for Fiscal Studies.
- Paull, Gillian (2002) 'Biases in the reporting of labour market dynamics', ***Institute For Employment Studies Working Paper Series***, W02/10. London: Institute for Fiscal Studies.
- Paull Gillian (2007) 'Partnership transitions and mothers' employment', ***Department For Work And Pensions Research Reports***, 452. Leeds: Corporate Document Services.
- Paull Gillian (2008) 'Children and women's hours of work', ***Economic Journal***, 118 (526):F8-F27.
- Paull, Gillian, I Walker, Y Zhu (2000) "Child support reform: some analysis of the 1999 White Paper" ***Fiscal Studies***, 21, no.1, 105-140: Institute for Fiscal Studies
- Pavlopoulos Dimitiris, Didier Fouarge (2005) 'Escaping the low pay trap: do labour market entrants stand a chance?' ***BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference***, 30 June -2 July 2005, Colchester, UK, Colchester:
- Pavlopoulos Dimitiris, Didier Fouarge, Ruud J A Muffels Jeroen K Vermunt (2007) 'Job mobility and wage mobility of high and low-paid workers', ***Schmollers Jahrbuch***, 127(1): 47-58.
- Pavlopoulos Dimitiris, Didier Fouarge (2008 Dec.) 'Escaping low pay: do male labour market entrants stand a chance?', ***IRISS Working Paper Series***, 2008-12. Differdange: CEPS/INSTEAD.
- Pavlopoulos Dimitiris, Jeroen K Vermunt, Ruud J A Muffels (2007) 'How real is low-pay mobility?', ***BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference***, 5 July -7 July 2007, Colchester, UK
- Peasgood Tessa (2007) 'Does well-being depend upon our choice of measurement instrument? **do not cite without author's permission', ***BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference***, 5 July -7 July 2007, Colchester, UK,
- Penfold C M and J P Shepherd (2007) 'Comparative models of primary dental and medical service usage', ***Journal Of Dental Research***, 86 (Special Issue B): 131-?.
- Peng Fei, Stanley W Siebert (2007) 'Real wage cyclicality in Germany and the UK: new results using panel data', ***IZA Discussion Papers***, 2688. Bonn: Institute for the Study of Labor.
- Perez Truglia, Ricardo Nicolas, Nicolas Luis Bottan (2008) 'Deconstructing the hedonic treadmill', ***MPRA Papers***, 10269. Munich: Munich University Library (Munich Personal RePEc Archive).
- Perren, Kim (2001) 'The influence of work and family roles on women's socioeconomic and psychological well-being at midlife: a life course perspective', PhD thesis, Cambridge: University of Cambridge.
- Perren, Kim, S Arber, K Davidson (2003) 'Men's organisational affiliations in later life: the influence of social class and marital status on informal group membership', ***Ageing And Society***, 23(1), 69-83.
- Perren Kim, S Dex (1994) Training volumes 1 revised: project 2 (M Chaplin: ERE (E) 2): final report, Employment Department ESRC Research Centre on Micro-social Change: University of Essex
- Perren Kim, S Dex (1994) Training volumes 2 revised: project 2 (M Chaplin: ERE (E) 2): Employment Department ESRC Research Centre on Micro-social Change: University of Essex

- Persson I, C Jonung (ed) (1997) 'Economics of the family and family policies' London Routledge.
- Peterson, William (2003 July) 'Housing and the dynamics of wealth-holding in the UK', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Pevalin D J (2000) 'Multiple applications of the GHQ-12 in a general population sample: an investigation of long-term retest effects' **Social Psychiatry and Psychiatric Epidemiology**, 35, 508-512. Steinkopff-Verlag.
- Pevalin D J (2003) 'Social influences on health over the lifecourse', Colchester: Institute for Social and Economic Research: University of Essex.
- Pevalin David J (2007 (May)) 'Socio-economic inequalities in health and service utilization in the London Borough of Newham', **Public Health**, (Epub ahead of print), doi:10.1016/j.puhe.2006.12.015.
- Pevalin D J, J Ermisch (2004) 'Cohabiting unions, repartnering and mental health', **Psychological Medicine**, 34: 1553-1559.
- Pevalin D J, D Goldberg (2003) 'Social precursors to onset and recovery from episodes of common mental illness', **Psychological Medicine**, 33: 299-306.
- Pevalin D J, D Rose (2003) 'Social capital for health: investigating the links between social capital and health using the British Household Panel Survey', London: Health Development Agency.
- Pevalin David J, Mark P Taylor, Jennifer Todd (2008) 'The dynamics of unhealthy housing in the UK: a panel data analysis', **Housing Studies**, 23 (5):679-695.
- Pevalin D J, T Wade, A Brannigan (2003 June) 'Precursors, consequences and implications for stability and change in pre-adolescent antisocial behaviors', **Prevention Science**, 4: no.2, 123-135.
- Philip Lorna J and Alana Gilbert (2002) 'Low income amongst the older population in the United Kingdom: a rural/non-rural perspective', **Aberdeen Papers In Land Economy**, 2002-09. Aberdeen: University of Aberdeen, Department of Land Economy.
- Philip Lorna J, Alana Gilbert (2007) 'Low income amongst the older population in Great Britain: a rural/non-rural perspective on income levels and dynamics', **Regional Studies**, 41 (6):735-745.
- Philip Lorna J, Alana Gilbert, Mark Shucksmith (2005) 'Income in old age: rural/non-rural perspectives on an ageing population in Great Britain' Annual **RGS-IBG conference**, 2005, Population Geography Research Group session 'The Geographical Dimension of Population Ageing', 1-26.
- Phimister E (2000) 'The dynamics of low pay in rural households: exploratory analysis using the British Household Panel Survey', **Journal Of Agricultural Economics**, 51(1), 61-77.
- Phimister Euan (2004) 'Urban effects on participation and wages: are there gender differences?', **University Of Aberdeen Business School: Centre For European Labour Market Research Discussion Paper**, 2004-04. Aberdeen: University of Aberdeen.
- Phimister E, D Roberts, A Gilbert (2004) 'The dynamics of farm incomes in Scotland: panel data analysis using the Farm Accounts Survey', **JOURNAL OF AGRICULTURAL ECONOMICS**, 55:2, 1997-220.

- Phimister E, M Shucksmith, E Vera-Toscano (2000). "The dynamics of low pay in rural households: Exploratory analysis using the British Household Panel" ***Journal of Agricultural Economics*** 51(1), 61-77.
- Phimister E, I Theodossiou (2003) 'Low pay and income in urban and rural areas: evidence from the British Household Panel Survey', ***Urban Studies***, 40: no.7, 1207-1222.
- Phimister Euan, Ioannis Theodossiou 'Gender differences in low pay labour mobility and the national minimum wage', OXFORD ECONOMIC PAPERS (2008), doi: 10.1093/oepp/gpn045
- Phimister E, R Upward, E Vera-Toscano (2000) "The Dynamics of Low Incomes in Rural Areas." ***Regional Studies*** 34(5) 407-417
- Piccarreta Raffaella, Francesco C Billari (2007) 'Clustering work and family trajectories by using a divisive algorithm', ***Journal Of The Royal Statistical Society Series A (Statistics In Society)***, 170 (4):1061-1078.
- Pickford, Ros (1999) "Fathers, marriage and the law" London: Family Policy Studies Centre
- Pignataro Giuseppe (2009) 'Essays on equality of opportunity -PhD Thesis-', Milan: Università Cattolica del Sacro Cuore.
- Pigott Robert (2006) 'Religions united in struggling with falling attendances', *The Edge*, 22 :6-8.
- Pleace Nicholas, Suzanne Fitzpatrick, Sarah Johnsen, Deborah Quilgars, Diana Sanderson University of York. Centre for Housing Policy (2008) 'Statutory homelessness in England: the experience of families and 16-17 year olds', London: Great Britain. Department for Communities and Local Government.
- Poggio Teresio (2000) 'La casa del padre: diseguaglianze abitative e proprietà dell' alloggio in una prospettiva comparata: tesi di laurea -Thesis-', Trento. Italy: Università degli studi di Trento.
- Pollak Andreas (2007) 'Estimating a lifecycle model with unemployment and human capital', ***Optimal unemployment insurance***, by Andreas Pollak, Ch. 3:35-76. Tübingen: Mohr Siebeck.
- Pollock, G (1997) Uncertain futures: young people in and out of employment since 1940 ***Work, Employment and Society***, 11(4):615-638.
- Pollock, G (1997) Individualization and the transition from youth to adulthood Young: ***Nordic Journal of Youth Research***, Vol. 5 No 1.
- Pollock Gary (2007) 'Holistic trajectories: a study of combined employment, housing and family careers by using multiple-sequence analysis', ***Journal Of The Royal Statistical Society Series A (Statistics In Society)***, 170 (1):167-183.
- Popham Frank, Richard Mitchell (2006) 'Leisure time exercise and personal circumstances in the working age population: longitudinal analysis of the British Household Panel Survey', ***Journal Of Epidemiology And Community Health***, 60 (3):270-274.
- Popham Frank, Richard Mitchell (2007) 'Self-rated life expectancy and lifetime socio-economic position: cross-sectional analysis of the British Household Panel Survey', ***International Journal Of Epidemiology***, 36 (1):58-65.
- Postel-Vinay Fabien, Jean-Marc Robin (2006) 'Microeconomic search-matching models and matched employer-employee data', *Advances in economics and econometrics: theory and applications*, Ninth World Congress, volume II, by Richard Blundell, Whitney K. Newey, and Torsten Persson (eds.), Cambridge: Cambridge University Press. Ch. 11: 279-310.

- Postel-Vinay Fabien, Helene Turon (2007) 'The public pay gap in Britain: small differences that (don't?) matter', **Economic Journal**, 117 (523):1460-1503.
- Postel-Vinay Fabien, Helene Turon (2005 May) 'The public pay gap in Britain: small differences that (don't?) matter', **CMPO Working Papers University Of Bristol**, 05/121. Bristol: University of Bristol: Department of Economics.
- Pouliakas Konstantinos (2008) 'Pay enough, don't pay too much or don't pay at all? An empirical study of the non-monotonic impact of incentives on job satisfaction', **MPRA Papers**, 10031. Munich: Munich University Library (Munich Personal RePEc Archive).
- Pouliakas Konstantinos, Ioannis Theodossiou (2007 (Jan.)) 'Confronting objections to performance pay: a study of the impact of individual and gain-sharing incentives on the job satisfaction of British employees', Rev. ed. **MPRA Papers**, 1629. Munich: Munich University Library (Munich Personal RePEc Archive).
- Powdthavee Nattavudh (2005 Jan.) 'Essay on the use of subjective well-being data in economic analysis: an empirical study using developed and developing countries data - PhD thesis -', Warwick: University of Warwick: Department of Economics.
- Powdthavee Nattavudh (2006) 'A direct test for utility interdependence in marriage', **London: Institute of Education**. University of London.
- Powdthavee Nattavudh (2007 (Jan.)) 'Do we transmit our long-term happiness? Longitudinal evidence of life-satisfaction crossover within marriage', London: University of London: Institute of Education.
- Powdthavee Nattavudh (2007) 'Putting a price tag on friends, relatives, and neighbours: using surveys of life satisfaction to value social relationships', *Journal Of Socio-Economics*, [In Press, Corrected Proof].
- Powdthavee Nattavudh (2008) 'I can't smile without you: spousal correlation in life satisfaction', **University Of York Discussion Papers In Economics**, 2008/16. York: University of York: Department of Economics and Related Studies.
- Powdthavee Nattavudh (2008) 'Ill-health as a household norm: evidence from other people's health problems', **University Of York Discussion Papers In Economics**, 2008/21. York: University of York: Department of Economics and Related Studies.
- Powdthavee Nattavudh (2009) 'Ill-health as a household norm: evidence from other people's health problems', **Social Science And Medicine**, 68 (2):251-259.
- Powdthavee Nattavudh (2009) 'I can't smile without you: spousal correlation in life satisfaction', **Journal Of Economic Psychology**, doi: 10.1016/j.joep.2009.06.005
- Powdthavee Nattavudh, Anna Vignoles (2008) 'Mental health of parents and life satisfaction of children: a within-family analysis of intergenerational transmission of well-being', **University Of York Discussion Papers In Economics**, 2008/20. York: University of York: Department of Economics and Related Studies.
- Powdthavee Nattavudh, Anna Vignoles (2008) 'Mental health of parents and life satisfaction of children: a within-family analysis of intergenerational transmission of well-being', **Social Indicators Research**, 88 (3):397-422.
- Price S and D Sanders (1991) "Economic competence, rational expectations and government popularity in postwar Britain" **ESRC Research Centre on Micro-social Change, Occasional Paper 4**: University of Essex

- Prodromidis Prodromos-Ioannis (2005 Jul.) 'Estimating women's time use: based on British survey evidence from 1986-87', **Applied Economics**, Routledge. 37: no.13/20, 1505-1521.
- Propper C (1998) 'Private demand and public provision: the case of private health care in the UK' **Centre for Market and Public Organisation Working Papers**, 98/004. Bristol: Centre for Market and Public Organisation: University of Bristol.
- Propper C and T Burchardt (1999) "Does the UK have a Private Welfare Class?" **Centre for Market and Public Organisation** University of Bristol (working paper)
- Propper, Carol and Tania Burchardt (1999) "Does the UK have a private welfare class?" **Centre For Market And Public Organisation Working Papers**, 98/006: Bristol: Centre for Market and Public Organisation: University of Bristol
- Propper Carol, Simon Burgess, Anne Bolster, George Leckie, Kelvyn Jones, Ron Johnston (2007) 'The impact of neighbourhood on the income and mental health of British social renters', **Urban Studies**, 44 (2):393-415.
- Propper Carol, Kelvyn Jones, , Anne Bolster, Simon Burgess Ron Johnston, Rebecca Sarker (2005) 'Local neighbourhood and mental health: evidence from the UK', **Social Science And Medicine**, 61 (10):2065-2083.
- Prowse Victoria (2005 June) 'State dependence in a multi-state model of employment dynamics', **IZA Discussion Papers**, 1623. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Pryke R. (1995 Sept.) 'Taking the measure of poverty: a critique of low-income statistics: alternative estimates and policy implications' **The Institute Of Economic Affairs Research Monograph**, 51. London: Institute of Economic Affairs.
- Pudney Stephen (2005) 'Estimation of dynamic linear models in short panels with ordinal observation of the endogenous variables' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- Pudney Stephen (2005) 'Estimation of dynamic linear models in short panels with ordinal observation', **CEMMAP Working Papers**, CWP05/05. London: Institute for Fiscal Studies.
- Pudney Stephen (2007) 'Rarely pure and never simple: extracting the truth from self-reported data on substance abuse', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Pudney Stephen (2008) 'The dynamics of perception: modelling subjective wellbeing in a short panel', **Journal Of The Royal Statistical Society Series A (Statistics In Society)**, 171 (1):21-40.
- Pudney Stephen (2008) 'Heaping and leaping: survey response behaviour and the dynamics of self-reported consumption expenditure', **ISER Working Papers**, 2008-09. Colchester: University of Essex.
- Quevedo Hernández (2006) 'Health and inequality over the life cycle -PhD Thesis-', York: University of York.
- Quevedo Cristina Hernandez, Andrew M Jones, Nigel Rice (2004) 'Reporting bias and heterogeneity in self-assessed health. Evidence from the British Household Panel Survey', **Department Of Economics, University Of York Discussion Papers**, 2004/18. York: University of York: Department of Economics and Related Studies.
- Raab Marcel, Michael Ruland, Benno Schonberger, Hans Peter Blossfeld, Sandra Buchholz Hofacker, Paul Schmelzer (2008) 'GlobalIndex: a sociological approach to globalization measurement', **International Sociology**, 23 (4):596-631.

- Rabe Birgitta (2006 Jan.) 'Dual-earner migration in Britain: earnings gains, employment, and self-selection', **ISER Working Papers**, 2006-1. Colchester: Institute for Social and Economic Research: University of Essex.
- Rafferty, Anthony, R Walker (2003 May) 'Lone mothers are women first, paid workers third: targeting employment', in D. Thurley (ed.) *Working to target: can policies deliver paid work for seven in ten lone parents?*, London: National Council for One Parent Families.
- Rainer Helmut, Ian Smith (2008) 'Staying together for the sake of the home? House price shocks and partnership dissolution in the UK', **University Of St. Andrews: School Of Economics And Finance Discussion Paper Series**, 0809. Fife: University of St. Andrews. School of Economics and Finance.
- Rainer Helmut, Ian Smith (2008) 'Staying together for the sake of the home? House price shocks and partnership dissolution in the UK', **ISER Working Papers**, 2008-31. Colchester: University of Essex.
- Rake (ed) (2000) *Women's Incomes over the Lifetime*. Report to the Women's Unit, Cabinet Office. Contributing authors H Davies, H Joshi K Rake and R Alami London: The Stationery Office.
- Ramos X (1998) 'Topics in income distribution and earnings dynamics' ESRC Research Centre on Micro-social Change: University of Essex
- Ramos X (2000) 'The covariance structure of earnings in Great Britain: 1991-1999' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Ramos, Xavier (2003 July) 'Domestic work time and gender differentials in Great Britain, 1992-1998: facts, value judgements and subjective fairness exceptions', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK
- Ramos Xavier (2005) 'Domestic work time and gender differentials in Great Britain 1992-1998: what do 'new' men look like?', **International Journal Of Manpower**, 26 (3):265-295.
- Ramos Xavier, Jacques Silber (2005) 'On the application of efficiency analysis to the study of the dimensions of human development', 51 (2):285-309.
- Redwood, Victoria, M Tudela (2003 May) 'Grossing up of disaggregate household data from the BHPS: how does this match with aggregate data', **EPUNet-2003 Conference: the conference of the European Panel Users Network**: 3-5 July 2003, Colchester,
- Redwood Victoria, Merxe Tudela (2004) 'From tiny samples do mighty populations grow? using the British Household Panel Survey to analyse the household sector balance sheet', **Bank Of England Quarterly Bulletin**, 44 (4):463-463.
- Reid A **Psychiatric consequences of leaving home and relationship breakdown** ESRC Research Centre on Micro-social Change: University of Essex
- Rendall, Michael, L Clarke, H Elizabeth Peters, N Ranjit, G Verropoulou (1999) 'Incomplete reporting of men's fertility in the United States and Britain: a research note', **Demography**, 36(1), 135-144.
- Rendall M, G Verropoulou, H Joshi and J Oh "Childrearing Lifetimes of Britain's Divorce-Revolution Men and Women" **Typescript Penn State University.1**

- Rendtel Ulrich, Andreas Behr, Egon Bellgardt, Johanna Sisto (2004) 'Does panel attrition disturb comparative analysis with the European Community Household Panel (ECHP)?', **Chintex Working Paper**, 7. Wiesbaden: CHINTEX Federal Statistical Office, Germany.
- Rice Nigel, Jennifer Roberts, Andrew M Jones (2007) 'Sick of work or too sick to work? Evidence on health shocks and early retirement from the BHPS', **Sheffield Economic Research Paper Series**, 2007002. Sheffield: University of Sheffield. Department of Economics.
- Richardson, Sue and Lauren Miller-Lewis (2002) 'Low wage jobs and pathways to better outcomes', **New Zealand Treasury Working Paper Series**, 02/29. Wellington: New Zealand Treasury.
- Rigg J A, T Sefton (2004 Feb) 'Income dynamics and the life cycle', **CASEpapers**, CASE/81. London: STICERD.
- Rigg John A, Mark P Taylor (2005) 'Labour market behaviour of older workers' IN **Changing Scotland: evidence from the British Household Panel Survey** by John F. Ermisch and Robert E. Wright (eds.), Ch. 14. Bristol: Policy Press. 211-224.
- Robeyns, Ingrid (2002 Jul) 'Gender inequality a capability perspective', Cambridge: University of Cambridge.
- Robone Silvana, Andrew M Jones, Nigel Rice (2008) 'Contractual conditions, working conditions, health and well-being in the British Household Panel Survey', **HEDG Working Papers**, 08/19. York: University of York: Health, Econometrics and Data Group.
- Robson K and J Gershuny (2001) 'The sad tale of Allerednic: the social position of British mothers after first birth and future research with European data' Paper presented at the European Sociological Conference, Helsinki, Finland, 1 August 2001.
- Roemer, John E. (2000) "To what extent do fiscal regimes equalize opportunities for the income acquisition among citizens?" **DIW Discussion Papers**, 210: Berlin: Deutsches Institut für Wirtschaftsforschung
- Roemer, John E., R Aaberge, U Colombino, J Fritzell, S P Jenkins, A Lefranc, I Marx, M Page, E Pommer, J Ruiz-Castillo (2003) 'To what extent do fiscal regimes equalize opportunities for income acquisition among citizens?', **Journal Of Public Economics**, Vol. 87, no 3-4, 539-565
- Roll J (2000 Feb.) 'Carers and Disabled Children Bill: Bill 13 of 1999-2000', **House Of Commons Library Research Paper**, 00/10. London: House of Commons Library.
- Rose David (1993) "European household panel studies - ESF Working Paper - " **European Scientific Network on household Panel Studies, Working Paper**, 45: University of Essex
- Rose David (1995) "Household panel studies: an overview" **Innovation: The European Journal of Social Sciences**, 8(1) Mar: 7-24
- Rose David (1998) 'UK indicators relevant to the MAXI Trial: a report to NEC Europe Multimedia Business Development Division' Colchester: Institute for Social and Economic Research: University of Essex.
- Rose David (1998) 'Unemployment, living conditions and longitudinal data: some remarks arising from the papers by Bernadi and Schizzerotto and Lemmi' **Statistica Applicata**, 10, no 4, 549-556. Associazione per la Statistica Applicata.
- Rose David (ed) (2000) 'Researching social and economic change: the uses of household panel studies' **Social Research Today**, London: Routledge.
- Rose David, G E Birkelund (1992) "Social class, gender and occupational segregation" **ESRC Research Centre on Micro-social Change, Occasional Paper 1**: University of Essex

- Rose, David, N Buck, R J Johnston (1994). "The British Household Panel Study: a valuable new research resource for geographical research" **Area**, (1994) 26-4, 368-376
- Rose David, P Campanelli, L Corti, M F Taylor (1993) "Methodology for household panels and longitudinal data analysis: where are we and where do we go from here? a view from the British Household Panel Study" **ESRC Research Centre on Micro-social Change, Discussion Paper Series**, 1: University of Essex
- Rose David, L Corti (1991) "Design issues in the British Household Panel Study" **BMS**: 32, (Sept): 14-43
- Rose, David, J Gershuny (1995) "Social surveys and social change", in **Sociology Review**, Vol 4, No 4, April 1995:11-18.
- Rose David, D J Pevalin (2000) `Social class differences in mortality using the National Statistics Socio-economic Classification: too little, too soon: a reply to Chandola' **Social Science and Medicine**, 51, 1121-1127. Elsevier Science Ltd.
- Rose, David, D J Pevalin (2003) 'A researcher's guide to the National Statistics Socio-economic Classification [review]', **Environment And Planning: A**, 35, 1707-1710.
- Rose David, David J Pevalin. (2004) 'A researcher's guide to the National Statistics Socio-economic Classification [review]', **International Journal Of Market Research**, 46, 257-259.
- Rose David, O Sullivan (1994) **Introducing Data Analysis for Social Scientists**. Buckingham /Philadelphia: Open University Press (including BHPS data extract for worked examples)
- Rose Michael (1999) "Explaining and forecasting job satisfaction: the contribution of occupational profiling" **Future Of Work Programme Working Papers**, 2: ESRC.
- Rose Michael (2000) "How far can I trust it? job satisfaction data in the WERS98 Employee Survey" **Future Of Work Programme Working Papers**, 6: Bath: University of Bath. Department of Social and Policy Sciences.
- Rose Michael (2000) "Employee skill, occupation and work involvement" **Future Of Work Programme Working Papers** 1, University of Bath. Department of Social and Policy Sciences
- Rose M (2000) "Waitresses don't cry in 2000: Job satisfaction and stress in British hospitality occupations, **Hospitality Review**, 2, 1: 21-35, ISSN 1464-9101.
- Rose M (2000) "The saddest of a very sad bunch", **Times Higher Education Supplement**, 25 February: page 16.
- Rose M (2000) "Future Tense? Are the growing occupations more stressed-out and depressive?", Working Paper 5: **ESRC Future of Work Programme**, Swindon: ESRC, ISSN 1469-1531.
- Rose M "Future Tense? Are the growing occupations more stressed-out and depressive?", **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Rose M (nd) "Future Tense? Are the growing occupations more stressed-out and depressive?" **ESRC Work Centrality and Careers Project Working Papers** 3. Bath: University of Bath. Department of Social and Policy Sciences.
- Rose M (2000) "Work centrality, careers, and household", **Future of Work Bulletin**, May, 1: 3-6.
- Rose M (2000) "Job satisfaction as a contractual outcome", **HRM Professionals Briefing**, May.

- Rose M (2000) "Work Centrality, Work Careers, and Household: Let's Ask For Numbers", Final Report to ESRC on Award No. L212252011, (Future of Work Programme), Swindon, Wilts: Economic and Social Research Council, October.
- Rose M (2000) "Hate the stress, love the work", ***British Medical Association News***, 27 May.
- Rose M (2000) "Pragmatic Futures of Work: Household, Partnership, and Women's Work Commitment", Working Paper 5, ***ESRC Future of Work***, Work Centrality and Careers Project, University of Bath, July.
- Rose M (2000) "Are You Happy in Your Job - Or just satisfied?", ***Therapy Weekly***, 27, 5: 12, 27 July.
- Rose M (2000) "You love the work and hate the pay", ***Therapy Weekly***, 27, 6: 12, 3 August.
- Rose M (2000) "Work attitudes in the expanding occupations", in Purcell, K. (ed.), *Changing Boundaries in Employment*, Britsol: Bristol Academic Press, ISBN 0 9513762 7 6.
- Rose M (2000) 'Disparate measures in the workplace: quantifying overall job satisfaction', ***BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference***, 5-7 July 2001, Colchester, UK.
- Rose Michael [2002] 'Career perceptions and career pursuit in the UK, 1986-2002' Bath: University of Bath. Department of Social and Policy Sciences.
- Rose, Michael (2003 Sept.) 'Good deal, bad deal? job satisfaction in occupations', ***Work Employment And Society***, 17: no.3, 503-530.
- Rose Michael (2005) 'So less happy too? subjective well-being and the vanishing job satisfaction premium of British women employees',
- Rose Michael (2005) 'Job satisfaction in Britain: coping with complexity', ***British Journal Of Industrial Relations***, 43 (3):455-467.
- Rose Michael (2005) 'The costs of a career in minutes and morbidity'. In *Work-life balance in the 21st century*, by Diane M. Houston (ed.), Basingstoke: Palgrave Macmillan. Ch. 3: 29-54.
- Rose Michael ([nd]) 'Costing a career in minutes: report of the Bath Study', Bath: University of Bath. Department of Social and Policy Sciences.
- Rose Michael (2007) 'Why so fed up and footloose in IT? Spelling out the associations between occupation and overall job satisfaction shown by WERS 2004', ***Industrial Relations Journal***, 38 (4):356-384.
- Rose Michael, Malcolm Brynin (2007) 'Occupational flexibility: the career trajectories of IT workers - abstract-', *BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference*, 5 July -7 July 2007, Colchester, UK,
- Rosenbloom Joshua L. (ed.) (2008) 'Quantitative economic history: the good of counting', London: Routledge.
- Ross Andy, James Lloyd, and Michael Weinhardt (2008) 'The age of inheritance: a report of research carried out by the National Centre for Social Research on behalf of the ILC-UK', London: International Longevity Centre UK.
- Rossi Mariacristina (2003 June) 'Examining the interaction between saving and contributions to Personal Pension Plans: evidence from the BHPS', ***BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference***, 3-5 July 2001, Colchester, UK,

- Rossi Mariacristina (2009) 'Examining the interaction between saving and contributions to personal pension plans: evidence from the BHPS', **Oxford Bulletin Of Economics And Statistics**, 71 (2):253-271.
- Rowlingson, Karen, McKay, Stephen (2004 July) 'Great expectations? the transmission of inequality and attitudes to inheritance' **Social Policy Association Conference**, July 2004, Nottingham, UK.
- Rowlingson Karen, Stephen McKay (2005) 'Lone motherhood and socio-economic disadvantage: insights from quantitative and qualitative evidence' **Sociological Review**, 53:1, 30-49.
- Rubin, Marcus, R Richardson (1997) *The microeconomics of the shorter working week*, Aldershot: Avebury.
- Rural Development Commission (1998) 'Rural disadvantage: understanding the processes' **Rural Research Report**, 36. Salisbury: Rural Development Commission.
- Ruspini E (1996) "Dynamics of Poverty: which differences between women and men?" **Paper presented at the GSOEP96 Conference, Berlin July**
- Ruspini, E (1997) "Gender Differences in Poverty and its Duration: An Analysis of Germany and Great Britain" **Proceedings of the 1996 Second International Conference of the German Socio-Economic Panel Study Users**, T Dunn and J Schwarze (eds) DIW-Vierteljahrshefte zur Wirtschaftsforschung Vol 1/97 Berlin: Duncker & Humblot pp 87-91
- Ruspini E (1997) "Donne e povertà. Percorsi e caratteristiche del disagio nelle società europee occidentali: il caso della Germania e della Gran Bretagna" (Women and Poverty. Deprivation Trajectories and Characteristics: The Cases of Germany and Great Britain), Ph.D. dissertation, Ph.D. in Sociology and Social Research, University of Trento, February
- Ruspini E (1998) "Living on the Poverty Line: Lone Mothers in Belgium, Germany, Great Britain, Italy and Sweden" **MZES Working Paper** MZES: University of Mannheim
- Ruspini E (1998) "Women and Poverty Dynamics: The Case of Germany and Britain" **Journal of European Social Policy** Vol. 8 (4), pp. 291-316, November
- Ruspini Elisabetta (1998) 'Women and poverty dynamics: the case of Germany and Britain', **Journal Of European Social Policy**, 8 (4):291-316.
- Ruspini E (1998 forthcoming) "Social Rights of Women with Children. Lone Mothers and Poverty in Italy, Germany and Great Britain" *Between Change and Continuity: Gender Inequalities in Southern Europe*, **Special Issue of Southern European Society & Politics**
- Ruspini, Elisabetta (2000) "Longitudinal research in the social sciences" **Social Research Update**, 28: whole issue Surrey: University of Surrey. Department of Sociology.
- Ruspini Elisabetta (2000) 'L'altra metà della povertà: uno studio sull'impoverimento femminile in Germania e in Gran Bretagna', Rome: Carocci editore.
- Ruspini Elisabetta (2001) 'The study of women's deprivation: how to reveal the gender dimension of poverty', **International Journal Of Social Research Methodology**, 4 (2):101-118.
- Russell, Andrew, E Fieldhouse, I MacAllister (1999-2001) 'The liberal democrats: strategy, structure and third party politics in contemporary Britain', Manchester: Cathie Marsh Centre for Census and Survey Research.
- Russell Andrew, Ed Fieldhouse, Iain MacAllister (2002) 'The anatomy of Liberal support in Britain, 1974-1997', **British Journal Of Politics And International Relations**, 4 (1):49-74.

- Russell Helen, Brendan Halpin, Mattias Strandh, Andrea Zielfe (2006 Apr.) 'Comparing the labour market effects of childbirth in Ireland, Sweden, the UK and Germany', **ESRI Working Papers**, 170. Dublin: ESRI.
- Sabates R, L Feinstein (2004) 'Education, training and the take-up of preventative health care' **The Centre For The Wider Benefits Of Learning Working Paper Series**, 12. London: The Centre For the Wider Benefits of Learning.
- Sabates R, L Feinstein (forthcoming 2006?) 'The role of education in the uptake of preventative health care: the case of cervical screening in Britain', **Social Science And Medicine**,
- Sabates Ricardo, Leon Feinstein and Eleni Skaliotis (2007 Feb.) 'Determinants and pathways of progression to level 2 qualifications: evidence from the NCDS and BHPS', **Wider Benefits Of Learning Research Reports**, 21. London: Institute of Education. Centre for Research on the Wider Benefits of Learning.
- Sabates Ricardo, Leon Feinstein and Eleni Skaliotis (2007 Feb.) 'Determinants and pathways of progression to level 2 qualifications: evidence from the NCDS and BHPS - research brief', London: Department for Education and Skills.
- Sabates Ricardo and Leon Feinstein (2008) 'Do income effects mask social and behavioural factors when looking at universal health care provision?', **International Journal Of Public Health**, 53 (1):23-30.
- Sacker Amanda, Paul Clarke, R D Wiggins, Mel Bartley (2005) 'Social dynamics of health inequalities: a growth curve analysis of aging and self assessed health in the British Household Panel Survey 1999-2001', **Journal Of Epidemiology And Community Health**, 59 (6):495-501.
- Sacker Amanda, Richard D Wiggins, Mel Bartley, Peggy McDonough (2007) 'Self-rated health trajectories in the United States and the United Kingdom: a comparative study', **American Journal Of Public Health**, 97 (5):812-818.
- Sacker, Amanda, R D Wiggins, P Clarke, M Bartley (2003) 'Making sense of symptom checklists: a latent class approach to the 9 years of the British Household Panel Study', **Journal Of Public Health Medicine**, 25: no.3, 215-222.
- Sacker Amanda, Diana Worts, Peggy McDonough (2007) 'Health dynamics and the welfare state: a comparison of the United States and Britain', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Sala Emanuela, S C Noah Uhrig and Peter Lynn (2008) 'The development and implementation of a coding scheme to analyse interview dynamics in the British Household Panel Survey', **ISER Working Papers**, 2008-19. Colchester: University of Essex.
- Sanders, David, M Brynin (1999) 'The dynamics of party preference change in Britain, 1991-1996' **Political Studies**, 47, No.2, 219-239: Blackwell Publishers.
- Sanders, David, J Burton, J Kneeshaw (2002) 'Identifying the true party identifiers: a question wording experiment', **Party Politics**, 8: no.2, 193-205.
- Santos Dirley, M Dos, D M Berridge (1998) 'Modelling educational qualification from the British Household Panel Study' **New directions in survey censuses: proceedings of the 1997 international symposium**, 389-392. Ottawa: Statistics Canada.
- Sanz de Galdeano A (2000) 'Gender differences in job satisfaction and labour market participation: UK evidence from propensity score estimates', **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.

- Savage, M, A Pickles (2003 Nov.) 'Social change, friendship and civic participation', ***Sociological Research Online***, 8: no.4, U412-U435.
- Savage M, A Pickles (2003 Dec.) 'Social capital and social exclusion in England and Wales (1972-1999)', ***British Journal Of Sociology***, 54: no.4 497-526.
- Sawkins, John W. Paul T. Seaman, Hector C.S. Williams.(1997) "Church Attendance in Great Britain: An ordered logit approach". ***Applied Economics*** 1997,29,125-134
- Scales J (1998) `Towards a longitudinal analysis of non standard employment in Britain: the case of men's self-employment' Colchester: University of Essex
- Scales, Jonathan and R E Pahl (1999) "Millennium papers: future work and lifestyles" ***Age Concern***: London: Age Concern England.
- Scales J and R Scase (2000) `Fit and fifty: a report prepared for the Economic Research Council August 2000' Swindon: ESRC.
- Scase R (1999) `Britain Towards 2010: The Changing Environment' ***Foresight***, Department of Trade and Industry (book)
- Scherer, Stefani (2000): Assetti istituzionali e differenze di genere nell'accesso al mercato del lavoro: un confronto internazionale. In: Bimbi Franca e Ruspini Elisabetta (Eds.): Oltre la femminilizzazione delle Povertà, INCHIESTA, No 128, 69-84.
- Scherer Stefani (2001) `Early Career Patterns a Comparison between Great Britain and West Germany' ***European Sociological Review***, Vol 17, No 2. 119-144.
- Scherer Stefani (2004) 'Stepping-stones or traps? The consequences of labour market entry positions on future careers in West Germany, Great Britain and Italy', ***Work Employment And Society***, 18 (2):369-394.
- Scherer Stefani (2005) 'Patterns of labour market entry- long wait or career instability? An empirical comparison of Italy, Great Britain and West Germany', ***European Sociological Review***, Oxford University Press. 21, no 5: 427-440.
- Scheve Kenneth, Matthew J Slaughter (2004) 'Economic insecurity and the globalization of production', ***American Journal Of Political Science***, 48 (4):662-674.
- Shields Michael A (2004) 'Addressing nurse shortages: what can policy makers learn from the econometric evidence on nurse labour supply?', ***Economic Journal***, 114 (499):F464-F498.
- Schils, Trudie (2003 June) 'Early retirement behaviour of senior workers: A comparative analysis of Germany, the United Kingdom and the Netherlands using panel data', ***BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference***, 3-5 July 2001, Colchester, UK
- Schils Trudie (2008) 'Early retirement in Germany, the Netherlands, and the United Kingdom: a longitudinal analysis of individual factors and institutional regimes', ***European Sociological Review***, 24 (3):315-329.
- Schils Trudie (2008) 'Remarriage as a way to overcome the financial consequences of divorce: a test of the economic need hypothesis for European women', ***European Sociological Review***, 24 (3):393-407.
- Schluter C (1998) "Income dynamics in Germany, the USA and the UK: evidence from panel data!" ***CASEpaper 8***: Centre for Analysis of Social Exclusion: an ESRC Research Centre Working Paper

- Schmitt Christian (2005) 'Labour market integration and fertility decisions: a comparison of Germany and the UK' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- Schmitt Christian (2008 Aug.) 'Labour market integration and the transition to parenthood: a comparison of Germany and the UK', SOEP Papers on Multidisciplinary Panel Data Research, 119. Berlin: Deutsches Institut für Wirtschaftsforschung.
- Schmitt Christian (2009) 'The effects of labour market participation on fertility decisions: gender differences in cross-national perspective -PhD Thesis-', Bielefeld, Ger.: University of Bielefeld. Department of Sociology.
- Schmitt J, J Wadsworth (2004) 'Computer assisted exam results', **Centrepiece**, 9: no.2(Summer), 9-15.
- Schmitt J, J Wadsworth (2004 Mar.) 'Is there an impact of household computer ownership on children's educational attainment in Britain?', **Centre For Economic Performance Discussion Papers**, 625. London: Centre for Economic Performance.
- Schraepfer, Joerg-Peter (2003 July) 'Explaining income nonresponse: a case study by means of the BHPS', **EPUNet-2003 Conference: the conference of the European Panel Users Network**: 3-5 July 2003, Colchester,
- Schober Pia (2007) 'Inequality or total workload? How domestic work matters to childbearing among British dual earner couples', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Scott A (2000) 'Moves into residential care amongst older people in Britain' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Scott, A, M Evandrou J Falkingham and J F Rake (2001) 'Going Into Residential Care: evidence from the BHPS 1991-1998' Discussion Paper 5. **London: ESRC-SAGE research group**, London School of Economics.
- Scott J (1995) "Using household panels to study micro-social change" **Innovation: The European Journal of Social Sciences**: 8 no.1 (Mar) : 61-74
- Scott J (1995) "Children as Respondents: Methods for Improving Data Quality". in L. Lyberg et al (eds) **Survey Measurement and Process Quality**. Wiley
- Scott J (1997) "Changing households in Britain: so families still matter" **Sociological Review**: 45, no.4 : 591-620
- Scott J (2000) 'Is it a different world to when you were growing up? generational effects on social representations and child-rearing values', **British Journal Of Sociology**, 51(2): 355-376.
- Scott J, D Alwin (1995) "Retrospective vs Prospective Reports in Family and Household Biographies" in J Giele and G Elder (Jnr) (eds) **Crafting Life Studies: Intersection of Personal and Social History**. Newbury Park: Sage (forthcoming)
- Scott J, D Alwin, M Braun (1995) "Sex-Role Attitudes Change: Britain in a Cross-National Perspective" **Sociological Research Group Working Paper** 16. University of Cambridge
- Scott J, M Brynin, R Smith, K Perren (1994) "British Household Panel Study: Youth Survey" **ESRC Research Centre on Micro-social Change**: University of Essex
- Scott J, M Brynin, R Smith (1995) "Interviewing Children in the British Household Panel Study" in J J Hox et al (eds) **Advances in Family Research**. Amsterdam, Thesis Publishers

- Scott J, C Chaudhary (2003 Mar.) *Beating the odds: youth and family disadvantage*, Leicester: National Youth Agency.
- Scott J, L Corti, C T Whelan "Gender differences in living arrangements, employment and stress: a comparison of Britain and Ireland" *European Scientific Network on Household Panel Studies, Working Paper*, 65: University of Essex
- Scott Jacqueline, Jane Nolan, Anke Plagnol (2009) 'Panel data and open-ended questions: understanding perceptions of quality of life', *21st Century Society: Journal Of The Academy Of Social Sciences*, 4 (2):123-135.
- Scott Jacqueline, Jane Nolan, Anke Plagnol (2009) 'Understanding perceptions of quality of life of British men and women', *GENET Newsletter*, 4 (Feb):4-5.
- Scott J, L Zac "Collective Memories in Britain and the United States" *Public Opinion Quarterly*. 57: 315-31
- Searle Beverley (2008) 'Well-being: in search of a good life?', Bristol: Policy Press.
- Sefton Tom (2007 Feb.) 'Using the British Household Panel Survey to explore changes in housing tenure in England', *CASEpapers*, CASE/117. London: STICERD.
- Sefton Tom, Maria Evandrou, Jane Falkingham (2008 Dec.) 'Family ties: women's work and family histories and their association with incomes in later life in the UK', *CASEpapers*, CASE/135. London: STICERD.
- Sefton James, Justin van de Ven, Martin Weale (2005) 'Means testing and retirement choices in Europe: a comparison of the British and Danish systems', *Fiscal Studies*, 26 (1):83-118.
- Self Abigail and Linda Zealey (ed.) (2007) 'Social trends: 2007 edition', Houndmills, Basingstoke: Palgrave Macmillan. 37.
- Self Abigail and Linda Zealey (ed.) (2008) 'Social trends: 2008 edition', Houndmills, Basingstoke: Palgrave Macmillan. 38.
- Senik Claudia (2005) 'Income distribution and well-being: what can we learn from subjective data?', *Journal Of Economic Surveys*, 19 (1):43-63.
- Senik Claudia (2007) 'Ambition and jealousy: income interactions in the 'old' Europe versus the 'new' Europe and the United States', *Economica*, [OnlineEarly Article].
- Seppala J (2004) 'The term structure of real interest rates: theory and evidence from UK index-linked bonds', *Journal Of Monetary Economics*, 51:7 (Oct.), 1509-1549.
- Serlenga L (2000) 'Three alternative approaches to test the permanent income hypothesis in dynamic panels' *BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference*, 5-7 July 2001, Colchester, UK.
- Serlenga L (2005) 'Three essays on the panel data approach to an analysis of economics and finance data -PhD Thesis-', Edinburgh: University of Edinburgh.
- Shaw M (2002 Mar.) 'The relationships (Civil Registration) Bill and the Civil Partnerships Bill: Bill 36 of 2001-02 and HL Bill 41 of 2001-02', *House Of Commons Library Research Paper*, 02/17. London: House of Commons Library.
- Shaw M, D Dorling, N Brimblecombe (1998) 'Explaining geographical inequalities in health', *Health Variations*, 2, 8-9.

- Shields Michael A, Melanie Ward (2001) 'Improving nursing retention in the National Health Service in England: the impact of job satisfaction on intentions to quit', **Journal Of Health Economics**, 20(5), 677-801.
- Shroeder Anna, Andrew Miles, Mike Savage, Susan Halford, Gindo Tampubolon (2008 Dec.) 'Mobility, careers and inequalities. A study of work-life mobility and the returns from education', **EHRC Research Report Series**, 8. Manchester: Equality and Human Rights Commission.
- Skinner Chris (2002) 'Covariance structure modelling with complex survey data -abstract-', **Statistics Canada Symposium Series**, 2002. Ottawa: Statistics Canada.
- Skinner, C and O Coker (1996) "Regression analysis for complex survey data with missing values of a covariate" **Journal of the Royal Statistical Society**. A 159, Part 2, pp 265-274
- Skinner Chris, Vieira Marcel de Toledo (2007) 'Variance estimation in the analysis of clustered longitudinal survey data', **Survey Methodology: A Journal Of Statistics Canada**, 33 (1):3-12.
- Sloane, P.J. and Theodossiu, I.(1996) "Earning Mobility, Family Income and Low Pay" **Economic Journal** V106\436 May pp 157-666
- Sloan P J and I Theodossiou (1998) "An Econometric Analysis of Low Pay and Earnings Mobility in Britain" in R. Asplund, P.J. Sloane and I. Theodossiou, editors, **Low Pay and Earnings Mobility in Europe** Edward Elgar, Cheltenham, Glos, 1998, pp 103-115.
- Sloan P J and I. Theodossiou (1998) "Low Wage Employment and the Minimum Wage in the UK" paper presented at the Lower Conference on Policies for Low Wage Employment and Social Exclusion in Europe, Groningen, Netherlands, 19-21 November
- Sloan P J and H Battu "Overeducation and Crowding Out in Britain" in A. de Grip and L. Borghans, editors, **Bumping Down in European Labour Markets** Edward Elgar, forthcoming
- Smith J C (2000) "Nominal wage rigidity in the United Kingdom", **Economic Journal**, 110 (462), C176--C195.
- Smith J (2000) 'Are pay cuts involuntary?' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Smith Noel, Sue Middleton (2007) 'A review of poverty dynamics research in the UK', York: Joseph Rowntree Foundation.
- Smith Peter W F, Ann Berrington, Patrick Sturgis (2009) 'A comparison of graphical models and structural equation models for the analysis of longitudinal survey data', In Methodology of longitudinal surveys, by Peter Lynn (ed.), Chichester: Wiley. Ch. 22: 381-392.
- Smith Rachel (1992) "Audio visual aids in interviewer training " **American Association for Public Opinion Research Conference, Conference Paper**: ESRC Research Centre on Micro-social Change: University of Essex
- Smith Rachel (1996 Apr.) 'Capturing sensitive data from young people in a household setting', **Journal Of The Market Research Society**, 38: no.2, 177-183.
- Smith Rachel, N Moon (1994) "Annual harvest to make a vintage study" **Researchplus** (Dec) : 9-10
- Smith Sarah (2004) 'Stopping short? Evidence on contributions to long-term savings from aggregate and micro data', **FMG Discussion Papers**, 485. London: London School of Economics: Financial Markets Group.

- Smith Sarah (2004 Jan.) 'Stopping short: why do so many consumers stop contributing to long-term savings policies?', *FSA Occasional Paper Series*, 21. London: Financial Services Authority.
- Smith Sarah (2005) 'Can the retirement-consumption puzzle be resolved? evidence from the British Household Panel Study' *BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference*, 30 June -2 July 2005, Colchester, UK.
- Smith Sarah (2006 Jan.) 'Persistency of pension contributions in the UK: evidence from aggregate and micro-data', *CMPO Working Papers University Of Bristol*, 06/139. Bristol: University of Bristol: Department of Economics.
- Smith Sarah (2006) 'The retirement-consumption puzzle and involuntary early retirement: evidence from the British Household Panel Survey', *Economic Journal*, 116 (510):130-148.
- Smith Susan and Beverley A Searle (2008) 'Dematerialising money? Observations on the flow of wealth from housing to other things', *Housing Studies*, 23 (1):21-43.
- Snelgrove John W, Hynek Pikhart, Mai Stafford (2009) 'A multilevel analysis of social capital and self-rated health: evidence from the British Household Panel Survey', *Social Science And Medicine*, 68 (11):1993-2001.
- Solera Cristina (2008) 'Combining marriage and children with paid work: changes across cohorts in Italy and Great Britain', *ISER Working Papers*, 2008-22. Colchester: University of Essex.
- Somerfield (2006) 'Local life report', Somerfield.
- Sousa-Poza A, A A Sousa-Poza (2003 Sept.) 'Gender differences in Great Britain, 1991-2000: permanent or transitory?', *Applied Economics Letters*, 10: no.11 691-694.
- South Patrick Resolution Foundation (2006) 'Closing the advice gap: providing financial advice to people on low incomes', London: Resolution Foundation.
- Southerton D, M Tomlinson (2003 Feb.) "Pressed for time": the differential impacts of a 'time-squeeze", *CRIC Discussion Paper Series*, 60. University of Manchester.
- Steele Fiona (2008) 'Multilevel models for longitudinal data', *Journal Of The Royal Statistical Society Series A (Statistics In Society)*, 171 (1):5-19.
- Stephenson Terence (2009) 'Editorials. Children's health and the financial crisis. Children's services should not be an easy target to save money', *British Medical Journal*, 338: b1783.
- Stevens-Strohmann, Rosalind (2000) Social policy dissertation 1999-2000 MSc Social Research Methods'
- Stewart I, R Vaitilingam (ed.) (2004) 'Seven ages of man and women: a look at life in Britain in the second Elizabethan era', Swindon: ESRC.
- Stewart Mark B (1997) "Inter-temporal Variability in Individual Earnings", working paper, *University of Warwick*.
- Stewart Mark B (1998) "The Dynamics of the Relationship Between Low Pay and Poverty", working paper, *University of Warwick*.
- Stewart Mark B (1999) "Low Pay, No Pay Dynamics", in Persistent Poverty and Lifetime Inequality, HM Treasury Occasional Paper No. 10.
- Stewart Mark B (1999), "The Dynamics of Low Pay and Low Income", in The National Minimum Wage, Incomes and the Low Paid, Low Pay Commission Occasional Paper No. 2.

- Stewart Mark B (2000) 'Asset accumulation and the impact of working life factors on pensioner poverty' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Stewart Mark B (2000) "The Inter-related Dynamics of Unemployment and Low Pay", working paper, **University of Warwick**, paper presented at the SOLE/EALE World Congress, Milan, 2000.
- Stewart Mark B (2001) "Estimation of the Individual-level Employment Effects of the Introduction of the National Minimum Wage", Report to the Low Pay Commission, April 2001.
- Stewart Mark B (2001) "Asset Accumulation and the Impact of Working Life Factors on Pensioner Poverty", working paper, **University of Warwick**, paper presented at the 2001 BHPS Research Conference, Colchester, July 2001.
- Stewart, Mark B (2002) 'Using the BHPS wave 9: additional questions to evaluate the impact of the National Minimum Wage', **Oxford Bulletin Of Economics And Statistics**, 64: suppl. S, 633-652.
- Stewart Mark B (2004) 'The impact of the introduction of the U.K. minimum wage on the employment probabilities of low-wage workers', **Journal Of The European Economic Association**, 2 (1):67-97.
- Stewart Mark B (2007) 'The interrelated dynamics of unemployment and low-wage employment', **Journal Of Applied Econometrics**, 22 (3):511-531.
- Stewart Mark B, J K Swaffield (1997) "Constraints on the desired hours of work of British men" **Economic Journal** 107(44):520-535
- Stewart Mark B, J K Swaffield (1997) "The dynamics of low pay in Britain" in P Gregg (ed.) *Jobs, Wages and Poverty: Patterns of Persistence and Mobility in the Flexible Labour Market*. London: Centre for Economic Performance
- Stewart Mark B, J K Swaffield (1998) "The earnings mobility of low-paid workers in Britain" in R Asplund and I Theodossiou (eds) *Low Pay and Earnings Mobility in Europe*. Cheltenham: Edward Elgar, ch 7, 116-135.
- Stewart Mark B, J K Swaffield (1999) "Low pay dynamics and transition probabilities" **Economica**, 66(261), 23-42
- Stewart Mark B, J K Swaffield (2001) "Using new information in the BHPS to evaluate the impact of the National Minimum Wage", April, **Report to the Low Pay Commission**
- Stewart Mark B, J K Swaffield (2002 Aug.) 'Using the BHPS wave 9 additional questions to evaluate the impact of the National Minimum Wage' **Oxford Bulletin Of Economics And Statistics**, 64:1, 633-652.
- Stillwell J, M Birkin, D Ballas, R Kingston, P Gibson (2004) 'Simulating the city and alternative futures' In *Twenty-first century Leeds: contemporary geographies of a regional city*, by Rachel Unsworth and John Stillwell (eds), Leeds: Leeds University Press: 345-364.
- Strauss Susanne (2008) 'Volunteering and social inclusion: interrelations between unemployment and civic engagement in Germany and Great Britain', Wiesbaden: VS, Verlag für Sozialwissenschaften.
- Stuchbury Rachel, Karen Glaser, Janet Askham, Anthea Tinker, Cecilia Tomassini (2005) 'Married or single: which shall I tick? findings from a study of BHPS marital status data' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK, Colchester:

- Sturgis P (In Press) "Attitudes and Measurement Error Revisited" **British Journal of Political Science**.
- Sturgis Patrick, Nick Allum (2004) 'Panel conditioning and scale reliability: evidence from the British Household Panel Study', American Association for Public Opinion Research Conference, Phoenix, Arizona 13-16 May.
- Sturgis Patrick, Nick Allum, Ian Brunton-Smith (2009) 'Attitudes over time: the psychology of panel conditioning', In *Methodology of longitudinal surveys*, by Peter Lynn (ed.), Chichester: Wiley. Ch. 7: 113-126.
- Sturgis Patrick, Nick Allum, Sanna Read, Roger Patulny, Roger (2008) 'Social and political trust: a longitudinal and comparative perspective: full research report ESRC end of award report, RES-163-25-0021', Swindon: ESRC.
- Sturgis Patrick, Nick Allum, Sanna Read, Roger Patulny (2009 Feb.) 'Social and political trust: a longitudinal and comparative perspective', In *Understanding Population Trends and Processes Research Findings*, Guildford: University of Surrey. Department of Sociology.
- Sturgis Patrick, Roger Patulny, Nick Allum, Nick (2007) 'Re-evaluating the individual level causes of trust: a panel data analysis', Reciprocity: Theories and Facts Conference, 22-24 February 2007, University of Milan-Bicocca, Milan, Italy,.
- Sullivan Oriel, Jonathan Gershuny (2001 June) 'Cross-national changes in time-use: some sociological (hi)stories re-examined', **British Journal Of Sociology**, University of Essex. Institute for Social and Economic Research. 52, no.2, 331-347.
- Sullivan Oriel, Jonathan Gershuny (2001 Jan.) 'Cross-national changes in time-use: some sociological (hi)stories re-examined', **ISER Working Papers**, 2001-1. Colchester: University of Essex. Institute for Social and Economic Research.
- Sullivan O, J Gershuny (2004) 'Inconspicuous consumption: work-rich, time-poor in the liberal market economy', **Journal Of Consumer Culture**, 4(1): 79-100.
- Sutherland, Holly (2002) 'One parent families, poverty and labour policy', London: National Council for One Parent Families.
- Swaffield, JK (2000) "Gender, motivation, experience and wages" **Centre For Economic Performance Discussion Papers**, 457: London: Centre for Economic Performance
- Swaffield, J.K. (2001) 'Does measurement error bias fixed-effects estimates of the union wage effect?', **Oxford Bulletin Of Economics And Statistics**, 63, no.4, 437-457.
- Swaffield Joanna K (2007) 'Estimates of the impact of labour market attachment and attitudes on the female wage', **Manchester School**, 75 (3):349-371.
- Tampubolon Gindo ([2007]) 'Fluxes and constants in the dynamics of friendships', **ESRC Research Methods Programme Working Papers**, 25. Manchester: University of Manchester.
- Tampubolon Gindo, Mike Savage ([2007]) 'The social structuring of closest friendships: a creative assembly ?', **ESRC Research Methods Programme Working Papers**, 27. Manchester: University of Manchester.
- Tavares Lara (2007) 'Non-cognitive skills, parenting practices and academic success', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Taylor-Gooby Peter (2001) "Risk, Contingency and the Third Way: Evidence from BHPS and Qualitative Studies", **Social Policy and Administration**, vol. 35, no. 2, pp. 195-211.

- Taylor Andrew, Damien R Ward (2006) 'Consumer attributes and the UK market for private medical insurance', *International Journal Of Bank Marketing*, 24 (7):444-460.
- Taylor M F, G Schmaus and G G Wagner (1993) "How to build a user friendly household panel data base" *European Scientific Network on Household Panel Studies, Working Paper 62*: University of Essex
- Taylor M P (1996) "Earnings, independence or unemployment: why become self-employed?" *Oxford Bulletin of Economics and Statistics* (May): 58, no.2 : 253-267
- Taylor M P (1998) `Self-employment survival, exit and bankruptcy in Britain' *Institute for Labour Research University of Essex Discussion Paper Series*, 98/24. Colchester: University of Essex: Institute for Labour Research.
- Taylor M P (1999) "Self-employment and windfall gains in Britain: evidence from panel data" *CEPR Discussion Paper Series*, 2084. London: Centre for Economic Policy Research.
- Taylor M P (1999) "Survival of the fittest? an analysis of self-employment duration in Britain" *The Economic Journal*, Vol 109, no 454, pC140-C155: Blackwell Publishers
- Taylor M P (2000) `Job search methods, intensity and success in Britain in the 1990s' *BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference*, 5-7 July 2001, Colchester, UK.
- Taylor, Mark P (2001 Nov.) 'Self- employment and windfall gains in Britain: evidence from panel data', *Economica*, 68: no. 272, 539-565
- Taylor Mark P (2004) 'Self-employment in Britain: when, who and why?', *Swedish Economic Policy Review*, 11: 139-173.
- Taylor Mark P (2006 Mar.) 'Tied migration and subsequent employment: evidence from couples in Britain', *ISER Working Papers*, 2006-5. Colchester: Institute for Social and Economic Research: University of Essex.
- Taylor Mark P (2006) 'Tell me why I don't like Mondays: investigating day of the week effects on job satisfaction and psychological well-being', *Journal Of The Royal Statistical Society Series A (Statistics In Society)*, Royal Statistical Society. 169, part 1: 127-142.
- Taylor Mark P (2007) 'Tied migration and subsequent employment: evidence from couples in Britain', *Oxford Bulletin Of Economics And Statistics*, 69 (6):795-818.
- Taylor Mark P, Elena Bardasi (2005) 'Marriages and wages' *BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference*, 30 June -2 July 2005, Colchester, UK
- Taylor Mark P, R Berthoud, S P Jenkins (2004 Sept.) 'Low income and multiple disadvantage 1991-2001: analysis of the British Household Panel Survey: a report for the Social Exclusion Unit in the Breaking the Cycle series', London: Office of the Deputy Prime Minister.
- Taylor Mark P, Stephen P Jenkins, Amanda Sacker (2009 May) 'Financial capability and wellbeing: evidence from the BHPS', *FSA Occasional Paper Series*, 34. London: Financial Services Authority.
- Taylor Mark P, David J Pevalin, Jennifer Todd (2007 (Jan.)) 'The psychological costs of unsustainable housing commitments', *Psychological Medicine*, (Epub ahead of print), 1-10.
- Taylor Mark P, Robert E Wright (2005 May) 'Are Scottish degrees better?' *ISER Working Papers*, 2005-6. Institute for Social and Economic Research: University of Essex.

- Theodossiou, I (1998) 'The effects of low-pay and unemployment on psychological well-being: a logistic regression approach', **Journal Of Health Economics**, 17(1), 85-104
- Theodossiou I, A Zangelidis (2009) 'Career prospects and tenure-job satisfaction profiles: evidence from panel data', **Journal Of Socio-Economics**, 38 (4):648-657.
- Thom, Graham and Paul Convery (2003) 'Employer engagement and the London labour market', **Department For Work And Pensions Research Reports**, 185. London: Corporate Document Services.
- Thomas C, M Benzeval, S A Stansfeld (2005) 'Employment transitions and mental health: an analysis from the British Household Panel Survey' **Journal Of Epidemiology And Community Health**, 59:3, 243-249.
- Thomas C, M Benzeval, S Stansfeld (2007) 'Psychological distress after employment transitions: the role of subjective financial position as a mediator', **Journal Of Epidemiology And Community Health**, 61 (1):48-52.
- Tijdens Kea, Anna Dragstra (2007) 'How many hours do you usually work?' An analysis of the working hours questions in 26 large-scale surveys in six countries and the European Union', **Time And Society**, 16 (1):119-130.
- Timms Stephen (2008) 'Work and Pensions - Poverty: Members in the Commons Hansard written answers text for 2 July 2008', **Hansard** (House of Commons Daily Debates), 892W-894W (column no.). London: TSO.
- Tomassini Cecilia, Karen Glaser, Rachel Stuchburyl (2007) 'Family disruption and support in later life: a comparative study between the United Kingdom and Italy', **Journal Of Social Issues**, 63 (4):845-863.
- Tomassini Cecilia and Karen Glaser (2006) 'Family networks and support in later life: the perspective of the demographer', *Proceedings of the XLIII Scientific Meeting of the Società Italiana di Statistica*, Padova: Societa Italiana di Statistica.
- Tomlinson J, W Olsen, K Purdham 'Women returners and potential returners: employment profiles and labour market opportunities - a case study of the United Kingdom', **European Sociological Review** (2008), doi: 10.1093/esr/jcn053
- Tomlinson Mark, Robert Walker, Glenn Williams (2008) 'Measuring poverty in Britain as a multi-dimensional concept, 1991 to 2003', **Journal Of Social Policy**, 37 (4):597-620.
- Townend Paul, Jie Xu, Mark Birkin, Andy Turner Belinda Wu (2009) 'MoSeS: Modelling and Simulation for e-Social Science', **Philosophical Transactions Of The Royal Society A: Mathematical, Physical And Engineering Sciences**, 367 (1898):2781-2792.
- Tudela Merxe, Garry Young (2005) 'The determinants of household debt and balance sheets in the United Kingdom', **Bank Of England Quarterly Bulletin**, 45 (3):373-373.
- Turok Ivan, Nick Bailey (2004) 'Twin track cities? competitiveness and cohesion in Glasgow and Edinburgh', **Progress In Planning**, 62: 135-204.
- Twigg, Liz (1999) "Choosing a national survey to investigate smoking behaviour: making comparisons between the General Household Survey, the British Household Panel Survey and the Health Survey for England" **Journal of Public Health Medicine**, Vol 21, No 1, pp14-21: Great Britain: Faculty of Public Health Medicine
- Twigg, Liz, G Moon and K Jones (2000) 'Predicting small-area health-related behaviour: a comparison of smoking and drinking indicators', **Social Science And Medicine**, 50(7-8): 1109-1120.

- Uhrig S C Noah (2005 Aug.) 'Cinema is good for you: the effects of cinema attendance on self reported anxiety or depression and 'happiness'' **ISER Working Papers**, 2005-14. Institute for Social and Economic Research: University of Essex.
- Uhrig S. C. Noah (2007) 'The right end of attrition: repeated non-response in the British Household Panel Study -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Uhrig S. C. Noah (2007) 'The nature and causes of attrition in the BHPS', *Swiss Household Panel Study Conference, 15-17 February, Neuchatel, Switzerland*,
- Uhrig S. C. Noah (2008) 'The nature and causes of attrition in the British Household Panel Study', **ISER Working Papers**, 2008-05. Colchester: University of Essex.
- Uhrig S C Noah, Emanuela Sala (2009) 'When change matters: the effect of dependent interviewing on survey interaction in the British Household Panel Study', **ISER Working Papers**, 2009-09. Colchester: University of Essex.
- Unal B, J A Critchley, S Capewell. (2003) 'Missing, mediocre, or merely obsolete? an evaluation of UK data sources for coronary heart disease', **Journal Of Epidemiology And Community Health**, 57: 530-535
- University of Newcastle Upon Tyne; University of Leeds; Greater London Authority; London Research Centre (2002) 'Development of a migration model', London: Great Britain. Office of the Deputy Prime Minister.
- Urwin Peter, Giorgio Di Pietro, Patrick Sturgis, Gregor Jack (2008) 'Measuring the returns to networking and the accumulation of social capital: any evidence of bonding, bridging, or linking?', **American Journal Of Economics And Sociology**, 67 (5):941-968.
- Uunk Wilfred, Matthijs Kalmijn, Ruud J A Muffels (2005) 'The impact of young children on women's labour supply: a reassessment of institutional effects in Europe', **ACTA Sociologica**, 48 (1):41-62.
- Uzuki Yuka (2006) 'The effect of poverty on the non-participation of young people in education or employment in the UK: implications for anti-poverty policies and further research', **Review Of Comparative Social Security Research**, 154 :83-94.
- Valletta Robert G. (2004) 'The ins and outs of poverty in advanced economies: poverty dynamics in Canada, Germany, Great Britain, and the United States', **Federal Reserve Bank Of San Francisco Working Paper Series**, 2004-18. San Francisco, Calif.: Federal Reserve Bank of San Francisco.
- van Damme Maike (2007) 'Work or welfare? The long-term economic consequences of divorce for British and German women -abstract-', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- van der Vlist, Arno J, C Gorter, P Nijkamp, P Rietveld (2002 Jan.) 'Residential mobility and local housing market differences', **Tinbergen Institute Discussion Papers**, 02-003/3. Amsterdam-Rotterdam: Tinbergen Institute.
- van Doorslaer Eddy, Cristina Masseria OECD Health Equity Research Group (2004 May) 'Income-related inequality in the use of medical care in 21 OECD countries', **OECD Health Working Papers**, 14. Paris: OECD.
- van Doorslaer Eddy, Cristina Masseria, Xander Koolman (2006) 'Inequalities in access to medical care by income in developed countries', **Canadian Medical Association Journal**, 174 (2):177-183.

- van Klaveren Chris, Bernard M S van Praag, Henriette Maassen van den Brink (2005) 'Empirical estimation results of a collective household time allocation model', **Tinbergen Institute Discussion Papers**, TI 2005-096/3. Amsterdam-Rotterdam: Tinbergen Institute.
- Van Kerm, Philippe (2005) 'Glass ceilings? gender differences in wage growth and promotion' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- van Kippersluis H, T Van Ourti, O O'Donnell, Eddy van Doorslaer 'Health and income across the life cycle and generations in Europe', **Journal Of Health Economics**, (2009), doi: 10.1016/j.jhealeco.2009.04.001
- van Praag Bernard M S, Barbara E Baarsma (2005) 'Using happiness surveys to value intangibles: the case of airport noise', **Economic Journal**, 115 (500):224-246.
- van Praag B M.S, A Ferrer-i-Carbonell (2002) 'Age-differentiated QALY losses', **Tinbergen Institute Discussion Papers**, 015/3. Amsterdam: Tinbergen Institute.
- van Praag B M S, A Ferrer-i-Carbonell (2004) 'Happiness quantified: a satisfaction calculus approach', Oxford: Oxford University Press.
- van Soest Arthur (2007) 'Labor market status and transitions during the pre-retirement years: learning from international differences', UNIVERSITY OF MICHIGAN RETIREMENT RESEARCH CENTRE WORKING PAPERS, 2007-149. Michigan: University of Michigan: Retirement Research Center.
- Verma Anil (2005) 'What do unions do to the workplace? Union effects on management and HRM policies', **Journal Of Labor Research**, 26 (3):415-449.
- Villanueva Ernesto (2005) 'Inter vivos transfers and bequests in three OECD countries', **Economic Policy**, 20 (43):505-656.
- Villosio C (1998) "Short Employment Spells in Italy, Germany and Great Britain: testing the port of entry hypothesis" **mimeo, submitted at the EJ** as part of a collective submission on tenure and reallocation of labour
- Villosio C "Study on wage flexibility and mobility in the EU" **report prepared for DGV** (to be finished in November 1998)
- Voas David (2005) 'Religious decline in the UK: blame the parents not the churches', *The Edge*, 19 :20.
- Voas David, A Crockett (2005) 'Religion in Britain: neither believing nor belonging' **Sociology**, 39:1, 11-28.
- Vogel Claudia (2007) 'Flexible beschäftigung und soziale ungleichheit: teilzeitbeschäftigung in Großbritannien und Deutschland im vergleich -PhD Thesis-', : Flexible employment and social inequality: part-time work in the UK and Germany in comparison , Berlin: Humboldt Universität zu Berlin.
- Vogler Carolyn (2005) 'Cohabiting couples: rethinking money in the household at the beginning of the twenty first century', **Sociological Review**, 53 (1):1-29.
- Vuri D (2000) `Propensity score estimates of the effect of fertility on marital dissolution' **BHPS 2001 Conference: the 2001 British Household Panel Survey Research Conference**, 5-7 July 2001, Colchester, UK.
- Wade T J, D J Pevalin (2004) 'Marital transitions and mental health', **Journal Of Health And Social Behavior**, 45: 155-170.

- Wadsworth, M.E.J. (1997) 'Health inequalities in the life course perspective', ***Social Science And Medicine***, 44, iss.6, 859-869.
- Walby, Sylvia, W Olson (2003 July) 'The UK gender wage and gendered work histories', ***BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference***, 3-5 July 2001, Colchester, UK
- Waldron Matt, Garry Young (2006) 'The state of British household finances: results from the 2006 NMG Research survey', ***Bank Of England Quarterly Bulletin***, 46 (4):397-403.
- Waldron Matt, Garry Young (2007) 'Household debt and spending: results from the 2007 NMG Research survey', ***Bank Of England Quarterly Bulletin***, 47 (4):512-521.
- Walker I, A Thompson, Labour Supply: Wages & Disability, ***Keele Working Paper 96*** submitted to journal '***Labour Economics***'
- Walker I, Y Zhu (2004 July) 'Child support liability and partnership dissolution', ***IFS Working Paper Series***, WP04/18. London: Institute for Fiscal Studies.
- Walker Ian, Yu Zhu (2005 Nov.) 'Do fathers really matter? Or is it just their money that matters? Evidence from the British Household Panel Survey', Coventry: University of Warwick: Department of Economics.
- Walker Ian, Yu Zhu (2006) 'Child support and partnership dissolution', ***Economic Journal***, 116 (510):93-109.
- Walker, R, P Trinder and K Ashworth (1995) "Benefit Dynamics in Britain: Prevalence and duration of receipt" ***Loughborough: Centre for Research in Social Policy Working Paper CRSP 249S***
- Walker, R. and Ashworth, K. (1998) Welfare Benefits and Recession in Britain. In Walker, R. and Leisering, L (Eds) ***Dynamics of Modern Society: Policy, Poverty and Welfare***. Bristol: Policy Press.
- Wall, T with C.S. Borrill, M.A. West, G.E. Hardy, D.A.Schapiro, A.Carter, D.A.Golya, C.E. Haynes (1996) ***Mental Health of the Workforce in NHS Trusts***, Phase 1 Final Report. Institute of Work Psychology, University of Sheffield and Dept. of Psychology, University of Leeds.
- Wall T D et al (1997) "Minor psychiatric disorder in NHS trust staff: occupational and gender differences" ***British Journal of Psychiatry***, 171, 519-523
- Warde A, G Tampubolon (2004 Dec.) 'Social capital, networks and leisure consumption', ***CRIC Discussion Paper Series***, 42. Manchester: University of Manchester.
- Warren T (2000) "Diverse breadwinner models: a couple-based analysis of gendered working time in Britain and Denmark", ***Journal of European Social Policy***, 10, 4, 349-371.
- Warren T (2000) "Women in low status part-time jobs: a class and gender analysis", ***Sociological Research Online***, vol 4, no 4, <http://www.socresonline.org.uk/4/4/warren.html>.
- Warren Tracey (2000) 'Diverse breadwinner models: a couple-based analysis of gendered working time in Britain and Denmark', ***Journal Of European Social Policy***, 10 (4):349-371.
- Warren T (2001) "Divergent female part-time employment in Britain and Denmark and the implications for gender equity", ***Sociological Review*** (forthcoming in November).
- Warren T (2003) 'Class- and Gender-based working time? time poverty and the division of domestic labour', ***Sociology***, 37:4, 733-752.

- Warren T. (2004 Mar.) 'Working part-time: achieving a successful 'work-life' balance?', **British Journal Of Sociology**, 55:1, 99-122.
- Warren Tracey (2008) 'Divergent female part-time employment in Britain and Denmark and the implications for gender equity', **Sociological Review**, 49 (4):548-567.
- Warren Tracey, Elizabeth Fox, Gillian Pascall (2009) 'Innovative social policies: implications for work-life balance among low-waged women in England', **Gender, Work And Organization**, 16 (1):126-150.
- Watson Nicole, Mark Wooden (2004) 'The HILDA Survey four years on', **Australian Economic Review**, 37 (3):343-349.
- Webb S (1995) "Poverty dynamics in Great Britain: preliminary analysis from the British Household Panel Survey" **IFS Commentary Series**, 48: Institute for Fiscal Studies
- Weich S, G Lewis (1998) "Material standard of living, social class, and the prevalence of the common mental disorders in Great Britain" **Journal of Epidemiology and Community Health**: 52 : 8-14
- Weich S, G Lewis (1998) "Poverty, unemployment, and common mental disorders: population based cohort study" **BMJ** (Jul): 317 : 115-118
- Weich S, G Lewis, S P Jenkins (2001) 'Income inequality and the prevalence of common mental disorders in Britain' **British Journal of Psychiatry**, 178, 222-227.
- Weich, S, G Lewis, S P Jenkins (2002) 'Income inequality and self rated health in Britain', **Journal Of Epidemiology And Community Health**, 56: 436-441.
- Weich S, A Sloggett, G Lewis (1998) "Social roles and the gender difference in the prevalence of common mental disorders" **British Journal of Psychiatry**, 173: 489-493
- Weich S, A Sloggett, G Lewis (2001) "Social roles and the gender difference in rates of the common mental disorders in Britain: a 7-year, population-based cohort study". **Psychological Medicine** 31, 1055-1064.
- Weich Scott, Liz Twigg, G Lewis, K Jones (2005) 'Geographical variation in rates of common mental disorders in Britain', **British Journal Of Psychiatry**, 187 (Jul):29-34.
- Weich Scott, Liz Twigg, Glyn Lewis (2006) 'Rural/non-rural differences in rates of common mental disorders in Britain', **British Journal Of Psychiatry**, 188: 51-57.
- Westaway Jenny, Stephen McKay (2007) 'Women's financial assets and debts', London: Fawcett Society.
- Wetzels C (1999) 'Squeezing birth into working life: Household Panel Data Analyses comparing Germany, Great Britain, Sweden and the Netherlands' Thesis Publishers Amsterdam (book)
- White, M, E Clemson '**Risky Moves out of Unemployment**' - forthcoming
- White, M, J Forth (1998) **Pathways through unemployment: The effects of a flexible labour market** York: Joseph Rowntree Foundation
- Whitehouse Edward (2000 Nov.) 'Paying for pensions. An international comparison of administrative charges in funded retirement-income systems', **FSA Occasional Paper Series**, 13. London: Financial Services Authority.
- Whitley J, R Windram, P Cox (2004) 'An empirical model of household arrears', **Bank Of England Working Paper Series**, 214. London: Bank of England.

- Wicks Malcolm (2007) 'Trade and Industry - British Household Panel Survey: Members in the Commons Hansard written answers text for 9 January 2007', Hansard (House of Commons Daily Debates), 503W-506W (column no.). London: TSO.
- Wiggins R, P Higgs, M Hyde, D Blane(2004) 'Quality of life in the third age: key predictors of the CASP-19 measure', ***Aging and Society***, 2004;24:693-708
- Wiggins R, G Netuveli (2005) 'Quality of life and well-being in the Third Age: key predictors of CASP-19 & GHQ-12 for sample members aged 50 years and above in the British Household Panel Survey' ***BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference***, 30 June -2 July 2005, Colchester, UK.
- Wiggins R D, G Netuveli, M Hyde, P Higgs, D Blane (2007 (Dec.)) 'The evaluation of a self-enumerated scale of quality of life (CASP-19) in the context of research on ageing: a combination of exploratory and confirmatory approaches', ***Social Indicators Research***, [Online First].
- Wiggins R D, P Schofield, A Sacker, M Bartley (2004) 'Social position and minor psychiatric morbidity over time in the British Household Panel Survey 1991-1998', ***Journal Of Epidemiology And Community Health***, 58: 779-787.
- Wildman, J. (2003 Mar.) 'Income related inequalities in mental health in Great Britain: analysing the causes of health inequality over time', ***Journal Of Health Economics***,
- Wilkinson, David, S Machin '***Employee Training and Unequal Access and Economic Performance***' Paper for Commission on Public Policy and British Business Issue Paper 1 published by IPPR
- Wilkinson, Helen, G Mulgan (1995) "Freedom's children: work, relationships and politics for 18-34 year olds in Britain today" ***Demos Papers*** 17 London: DEMOS
- Williams Nicolas, 'Seniority, experience, and wages in the UK', ***Labour Economics*** (2008), doi: 10.1016/j.labeco.2008.09.003
- Willitts Maxine (2006) 'Measuring child poverty using material deprivation: possible approaches', ***Department For Work And Pensions Research Working Paper Series***, 28. Department of Social Security. Analytical Services Division.
- Willitts M, M Benzeval, S A Stansfield (2004) 'Partnership history and mental health over time', ***Journal Of Epidemiology And Community Health***, 58: 53-58.
- Wills Wendy, Emily Grundy (2000) 'Using data to research the food choice, family life and well-being of young people' ***British Sociological Association Youth Study Group conference 2000***, 11-12 July 2000, University of Surrey, Surrey:
- Wilson Tim, David Buck, Chris Ham (2005) 'Rising to the challenge: will the NHS support people with long term conditions?', ***British Medical Journal***, 330 (7492):657-661.
- Wolfers Justin (2003) 'Is business cycle volatility costly? evidence from surveys of subjective well-being', ***Stanford Graduate School Of Business Research Paper Series***, 1751(R).
- Wooden Mark, Diana Warren (2004) 'Non-standard employment and job satisfaction: evidence from the HILDA Survey', ***Journal Of Industrial Relations***, 46 (3):275-297.
- Wooden Mark, Nicole Watson (2007) 'The HILDA Survey and its contribution to economic and social research (so far)', ***Economic Record***, 83 (261):208-231.

- Worku Seble, Siv S Gustafsson (2005) 'Education, assortative mating and the duration to couple formation and first birth in Britain and Sweden' **BHPS-2005 Conference: the 2005 British Household Panel Survey Research Conference**, 30 June -2 July 2005, Colchester, UK.
- Wright, R A, David Bell and Robert A Hart (1997) "Multiple Jobholding as a hedge against unemployment" **CEPR Discussion Paper**, 1626, London: Centre for Economic Policy Research.
- Wright Robert E (1999) "The rate of return to private schooling" **IZA Discussion Papers, 92**: Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor
- Wu B., J Hine. (2002 Mar.) 'Report on analysis of databases for impacts of road user charging and work place parking levy on social exclusion/inclusion', Jordanstown: University of Ulster: Transport Planning and Policy Group
- Wu Zhongmin, Mark Baimbridge and Yu Zhu (2008 (Feb.)) 'Multiple job holding in the United Kingdom: evidence from the British Household Panel Survey', **Applied Economics**, [iFirst].
- Wunder Christoph, Johannes Schwarze, Gerhard Krug, Bodo Herzog (2007) 'Welfare effects of the Euro cash changeover', BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference, 5 July -7 July 2007, Colchester, UK,
- Wunder Christoph, Johannes Schwarze, Gerhard Krug, Bodo Herzog (2006) 'Welfare effects of the Euro cash changeover', **IZA Discussion Papers**, 2508.
- Wunder Christoph, Johannes Schwarze, Gerhard Krug, Bodo Herzog (2008) 'Welfare effects of the euro cash changeover', **European Journal Of Political Economy**, 24 (3):571-586.
- Wunder Christoph, Andrea Wiencierz, Johannes Schwarze, Helmet Küchenhoff, Sara Kleyer, Philipp Bleninger (2009 May) 'Well-being over the life span: semiparametric evidence from British and German longitudinal data', **SOEP Papers on Multidisciplinary Panel Data Research**, 179. Berlin: Deutsches Institut für Wirtschaftsforschung.
- Wunder Christoph, Andrea Wiencierz, Johannes Schwarze, Helmet Küchenhoff, Sara Kleyer, Philipp Bleninger (2009 May) 'Well-being over the life span: semiparametric evidence from British and German longitudinal data', **DIW Discussion Papers**, 889. Berlin: Deutsches Institut für Wirtschaftsforschung.
- Wunder Christoph, Andrea Wiencierz, Johannes Schwarze, Helmet Küchenhoff, Sara Kleyer, Philipp Bleninger (2009 Apr.) 'Well-being over the life span: semiparametric evidence from British and German longitudinal data', **IZA Discussion Papers**, 4155. Bonn: Forschungsinstitut zur Zukunft der Arbeit Institute for the Study of Labor.
- Yu Keming, Philippe Van Kerm, Jin Zhang (2004) 'Bayesian quantile regression: an application to the wage distribution in 1990s Britain', **IRISS Working Paper Series**, 2004-10.
- Zabel Cordula (2007 (Feb.)) 'Eligibility for maternity leave and first birth timing in Great Britain', **MPIDR Working Paper Series**, 2007-009. Rostock, Ger.: Max Planck Institute for Demographic Research.
- Zabel Cordula, 'Eligibility for maternity leave and first birth timing in Great Britain', **Populationresearch And Policy Review** (2008), doi: 10.1007/s11113-008-9098-1
- Zaidi, Asghar (2002) 'Income mobility of the elderly in Great Britain and The Netherlands: a comparative investigation', **Economics Working Papers In Oxford**, 107. Oxford: Oxford University. Department of Economics.
- Zaidi Asghar (2008) 'Well-being of older people in ageing societies', Aldershot: Ashgate Publishing Limited/European Centre Vienna.

- Zaidi Asghar, Tania Burchardt (2005) 'Comparing incomes when needs differ: equalization for the extra costs of disability in the UK', **Review Of Income And Wealth**, 51 (1):89-114.
- Zaidi A, J R Frick, F Buchel, (2003) 'Income risks within retirement in Great Britain and Germany: a first snapshot' **Schmollers Jahrbuch**, 2003-1.
- Zaidi A, J R Frick, F Buchel (2004 Dec.) 'Income mobility in old age in Britain and Germany', **CASEpapers**, CASE/89. London: STICERD.
- Zaidi, Asghar, J R Frick, F Buchel (2003) 'Income risks within retirement in Great Britain and Germany', 163-176. **Proceedings of the 5th International Conference of German Socio-Economic Panel Users**, Bristol: Policy Press.
- Zaidi, Asghar, J R Frick, F Buchel (2003 June) 'Income dynamics in old age in Great Britain and West Germany', **BHPS-2003 Conference: the 2003 British Household Panel Survey Research Conference**, 3-5 July 2001, Colchester, UK,
- Zaidi A, K Rake, J Falkingham (2001) 'Income Mobility in Later Life' Discussion Paper 3. **London: ESRC-SAGE research group**, London School of Economics.
- Zaidi AS, K de Vos (2002) 'Income mobility of the elderly in Great Britain and the Netherlands: a comparative investigation', **SAGE Discussion Paper Series**, 9. London: ESRC SAGE Research Group.
- Zangelidis Alexandros (2007) 'Occupational and industry specificity of human capital in the British labour market', University Of Aberdeen Business School: Centre For European Labour Market Research Discussion Paper, 2007-25. Aberdeen: University of Aberdeen.
- Zangelidis Alexandros (2008) 'Seniority profiles in unionized workplaces: do unions still have the edge?', **Oxford Bulletin Of Economics And Statistics**, 70 (3):327-345.
- Zhang Shasha (2007) 'Civic participation in Britain, 2003-4 -abstract-', **BHPS-2007 Conference: the 2007 British Household Panel Survey Research Conference**, 5 July -7 July 2007, Colchester, UK,
- Zimmermann Klaus F, Michael Vogler (ed.) (2003) 'Family, household and work', Berlin: Springer.
- Zipp J F, A Prohaska, M Bemiller (2004) 'Wives, husbands, and hidden power in marriage', **Journal Of Family Issues**, 25:7 (Oct.), 933-958.
- Zipp J F, J Toth (2002) 'She said, he said, they said: the impact of spousal presence in survey research', **Public Opinion Quarterly**, 66, 177-208.
- Zuckerman A S, M Brynin (2001) "The Concept Party Identification: Lessons from the BHPS and the GSOEP" Presented to the Conference on the British Household Panel Study. ISER, University of Essex, June 28-30 2001.
- Zuckerman A S, J Dasovic, J Fitzgerald, M Brynin 'The dynamics of partisanship in established democracies: evidence from British and German Panel Surveys', **BMW Center for German and European Studies Working Paper Series**, 2-03. BMW Center for German and European Studies.
- Zuckerman Alan S, Josip Dasovic, Jennifer Fitzgerald (2007) 'Partisan families: the social logic of bounded partisanship in Germany and Britain', **Cambridge Studies In Public Opinion And Political Psychology**, Cambridge: Cambridge University Press.
- Zuckerman Alan S., L Kotler-Berkowitz (1998) "Politics and Society: Political Diversity and Uniformity in Households as a Theoretical Puzzle" **Comparative Political Studies**, August. 31:4:464-97.

Zuckerman Alan S, Laurence A Kotler-Berkowitz (1998) 'Politics and society: political diversity and uniformity in households as a theoretical puzzle', *Comparative Political Studies*, 31 (4):464-497.

2008 'Location, location, location maps happiness', *Perspectives In Public Health*, 128 (6):277.

2008 'Marriage rules OK', *Society Now*, ESRC. 2 :9.

3000ft Strategic Insight (2009 Feb.) 'Chapter 1: singleton society. A new look at trends and forecasts for single living, and an assessment of the impact of single living on individuals', Living changes 2009: a programme of research sponsored by Lloyds, London: 3000ft Strategic Insight. 1-19.

5.3. Notice for Users of BHPS Data

All users who obtain **BHPS** data through the Data Archive will have been required to sign a User Undertaking Form, under the terms of which they are required to deposit in the Data Archive two copies of all publications arising from the use of the data. One of these copies will be held in the Institute's Research Resources Unit. A list of these related publications can be obtained from that Unit upon request.

Appendix 6. Indexes

Appendix 6.3. Subject Category Thesaurus

This Thesaurus has been created to allow users to more readily locate the variables which are most relevant to their research interests, and to find other variables with related data throughout the database. There are two types of entry:

*Terms marked with a * are main terms which actually appear in the Cross-Wave Subject Category Index. For many of these, other related terms are indicated by "See also":*

Alternative or expanded terms have references to the main term entries under which it is likely that variables of interest will appear.

Once you have consulted this Thesaurus, the identified terms can be used to interrogate the Cross-Wave Subject Category Index.

Absence from work

See Employment: Hours of Work and Overtime

Accidents

See Health: Accidents, Illness

Accommodation

See Housing: Size and Condition of Dwelling

Adopted Children

See Children

Adoption

See Children

Affiliation and Social Psychology

See Social and Interest Group Activity
Social and Interest Group Membership

Age

See Socio-Demographic Characteristics

Alimony

See Financial Management: External Transfers

Allowances

See Financial Management: Allowances
Incomes: Benefits and Allowances and Pensions
Housing: Allowances/Rebates

Assets

See Financial Management: Savings and Bank Accounts
Housing: Ownership Status and Tenure
Incomes: Rents, Savings, Investments

Attitudes

See Employment: Attitudes to Work and Incentives
Health: NHS vs Private
Values, Opinions and Attitudes

Bedrooms

See Housing: Size and Condition of Dwelling

Benefits	See	Employment: Benefits Receipt Incomes: Benefits and Allowances and Pensions
Births	See	Children Fertility
Birthplace	See	Geographic Location Socio-Demographic Characteristics
Board/Keep	See	Financial Management: Internal Transfers
* Caring	See also	Child Care
Cars	See	Transport
Central Heating	See	Household Consumption: Heating and Fuel
* Child Care	See also	Gender Roles Family Life
Child Support	See	Financial Management: External Transfers
* Children	See also	Family Life
Children: Care for	See	Child Care
Children: Financial Transfers To	See	Financial Management: External Transfers Incomes
Children: Health	See	Health: Childrens Health
Children: Maintenance	See	Financial Management: External Transfers
Children: Number	See	Children Fertility Socio-Demographic Characteristics
Class	See	Social Classification Values, Opinions and Attitudes
Clinic Visits	See	Health: Hospital and Clinic Use Health: Medical Consultations

Cohabitation History

See Marital and Cohabitation History
Marital Status

Colour Television

See Household Consumption: Consumer Durables

*** Computers and Computing**

CD Player

See Household Consumption: Consumer Durables

Consumer Confidence

See Financial Management: Savings and Bank Accounts
Financial Management: Material Well-Being

Consumer Durables

See Household Consumption: Consumer Durables

Consumption

See Household Consumption
Household Consumption: Consumer Durables
Household Consumption: Heating and Fuel
Household Consumption: Food
Household Consumption: Home Improvements
Health: Use of Health and Welfare Services

Country of Birth

See Geographic Location
Socio-Demographic Characteristics

Credit and Debt

See Financial Management: Credit and Debt
Financial Management: Loan Repayments
Financial Management: Problems
Financial Management: Savings and Bank Accounts
Housing: Rent, Mortgage and Loan Details
Incomes: Rents, Savings, Investments

*** Crime**

See also Neighbourhood and Residence

Decision-Making

See Gender Roles

Demographic Information

See Children
Socio-Demographic Characteristics

Dependants Allowances

See Incomes: Benefits and Allowances and Pensions

Difficulties with Rent

See Incomes: Benefits and Allowances and Pensions
Housing: Problems
Housing: Rent, Mortgage and Loan Details

Disability Allowances

See Incomes: Benefits and Allowances and Pensions

Disabilities

See Health: Accidents, Illness
Health: Effect on Daily Life, Employment
Incomes: Benefits and Allowances and Pensions

Dishwashers

See Household Consumption: Consumer Durables

Division of Labour in Household

See Child Care
Gender Roles
Values, Opinions and Attitudes

Divorce

See Marital and Cohabitation History
Marital Status

Doctors

See Health: Childrens Health
Health: Medical Consultations
Health: NHS vs Private
Health: Use of Health and Welfare Services

Domestic Duties, Responsibility For

See Child Care
Gender Roles
Values, Opinions and Attitudes
Family Life

Driving Licences

See Transport

Earnings

See Employment: Self-Employment
Employment: Wages, Salary and Deductions
Employment History: Wages, Salary and Deductions
Incomes

*** Education: Background and Attainments**

*** Education: Recent Education and Training**

Elderly

See Employment: Labour Force Status
Employment: Superannuation and Pension Schemes
Financial Management: Pensions
Incomes: Benefits and Allowances and Pensions
Socio-Demographic Characteristics

*** Employment: Attitude to Work and Incentives**

*** Employment: Benefits Receipt**

*** Employment: Expectations**

*** Employment: Hours Worked and Overtime**

*** Employment: Industrial and Occupational Classification**

*** Employment: Labour Force Status**

* **Employment: Length of Job Tenure**

* **Employment: Not Working/Seeking Work**

* **Employment: Prospects and Training**

See also Education: Background and Attainments
Education: Recent Education and Training
Values, Opinions, and Attitudes

* **Employment: Second Job**

* **Employment: Sector and Duties**

* **Employment: Self-Employment**

* **Employment: Superannuation and Pension Schemes**

* **Employment: Travelling Time and Means of Travel**

See also Transport

* **Employment: Wages, Salary and Deductions**

See also Employment History: Wages, Salary and Deductions

* **Employment: Workplace and Size of Firm**

See also Employment History: Size, Sector and Duties

* **Employment History: Labour Force Status Spells**

See also Lifetime Employment History

* **Employment History: Reasons for Leaving and Taking Jobs**

* **Employment History: Size, Sector and Duties**

See also Employment: Workplace and Size of Firm

* **Employment History: Wages, Salary and Deductions**

See also Employment: Wages, Salary and Deductions

* **Environmental Issues**

See also Values, Opinions and Attitudes

* **Ethnicity**

See also Geographic Location, Geographic Mobility

Expenditure

See Financial Management: External Transfers
Financial Management: Internal Transfers
Financial Management: Loan Repayments
Financial Management: Material Well-Being
Financial Management: Personal Spending

External Transfers

See Financial Management: External Transfers
Financial Management: Loan Repayments
Financial Management: Material Well-Being
Financial Management: Personal Spending

Family Allowances

See Financial Management: Allowances
Incomes: Benefits and Allowances and Pensions

Family History

See Children
Fertility
Marital and Cohabitation History

*** Family Life**

See also Children
Values Opinions and Attitudes

Family Structure

See Children
Fertility
Marital and Cohabitation History
Relationship between Household Members
Socio-Demographic Characteristics

Family Values

See Values, Opinions and Attitudes

Father's Employment

See Socio-Demographic Characteristics

Father's Job Title

See Socio-Demographic Characteristics

*** Fertility**

See also Children

Finance

See Financial Management
Incomes

*** Financial Management: Allowances**

*** Financial Management: Credit and Debt**

*** Financial Management: External Transfers**

*** Financial Management: Internal Transfers**

*** Financial Management: Loan Repayments**

See also Housing: Rent, Mortgage and Loan Details

*** Financial Management: Material Well-Being**

*** Financial Management: Personal Spending**

*** Financial Management: Pensions**

*** Financial Management: Problems**

See also Credit and Debt

*** Financial Management: Savings and Bank Accounts**

See also Incomes: Rents, Savings, Investments

Food

See Household Consumption: Food

Freezer

See Household Consumption: Consumer Durables

Friendship

See Social Support Networks

Fuel

See Household Consumption: Heating and Fuel

Full-Time Education

See Education: Background and Attainments
Education: Recent Education and Training

Gas

See Household Consumption: Heating and Fuel

*** Gender Roles**

See also Child Care
Financial Management: Personal Spending
Values, Opinions and Attitudes

General Election

See Political Support and Behaviour
Values, Opinions and Attitudes

General Health Questionnaire

See Health: Personal Health Condition

*** Geographic Location**

See also Geographic Mobility
Neighbourhood and Residence

*** Geographic Mobility**

See also Geographic Location
Neighbourhood and Residence

Government Policies

See Values, Opinions and Attitudes

Handicapped

See Health: Personal Health Condition
Caring

*** Health: Accidents, Illness**

*** Health: Childrens Health**

*** Health: Effect on Daily Life, Employment**

*** Health: Hospital and Clinic Use**

*** Health: NHS vs Private**

*** Health: Medical Consultations**

*** Health: Personal Health Condition**

*** Health: Smoking**

*** Health: Subjective Well-Being**

*** Health: Use of Health and Welfare Services**

Heating

See Household Consumption: Heating and Fuel

Home Computer

See Household Consumption: Consumer Durables

Home Improvements

See Household Consumption: Home Improvements
Housing: Size, Condition of Housing

Home Purchase

See Housing: Ownership Status and Tenure
Housing: Rent, Mortgage and Loan Details

Home Working

See Employment: Workplace and Size of Firm
Employment History: Size, Sector and Duties
Lifetime Employment History

Hospital

See Health: Accidents, Illness,
Health: Hospital and Clinic Use
Health: Medical Consultations
Health: Use of Health and Welfare Services

Hospital Visits

See Health: Hospital and Clinic Use

Hours of Work

See Employment: Hours Worked and Overtime

House Purchase

See Housing: Ownership Status and Tenure
Housing: Rent, Mortgage and Loan Details

House Values

See Housing: Ownership Status and Tenure
Housing: Rent, Mortgage and Loan Details

*** Household Changes**

See also Geographic Mobility

Household Composition

See Relationship between Household Members
Socio-Demographic Characteristics

*** Household Consumption**

*** Household Consumption: Consumer Durables**

*** Household Consumption: Food**

*** Household Consumption: Heating and Fuel**

*** Household Consumption: Home Improvements**

Household Finances: Decision-Making

See Gender Roles

Household Type

See Household Changes
Key Linking Variable
Relationship between Household Members

Housekeeping - Responsibility for

See Gender Roles

Housekeeping Costs

See Financial Management: Internal Transfers

Housework

See Gender Roles

* **Housing: Allowances/Rebates**

* **Housing: Local Authority and Services Charges**

* **Housing: Ownership Status and Tenure**

* **Housing: Problems**

* **Housing: Rent, Mortgage and Loan Details**

* **Housing: Size and Condition of Dwelling**

See also Household Consumption: Home Improvements

Illness

See Health: Accidents, Illness
Health: Childrens Health
Health: Personal Health Condition

* **Imputation Flag Variable**

* **Incomes**

See also Employment: Wages, Salary and Deductions
Employment History: Wages, Salary and Deductions

* **Incomes: Benefits and Allowances and Pensions**

* **Incomes: Grants for Education**

* **Incomes: Household Income**

* **Incomes: Rents, Savings, Investments**

See also: Financial Management: Savings and Bank Accounts

* **Incomes: Windfalls**

Information Technology

See Computers and Computing

Inheritance

See Incomes

Internal Transfers

See Financial Management: Internal Transfers

International Standard Occupational Classification ISCO : Parent

See Socio-Demographic Characteristics

International Standard Occupational Classification ISCO : Respondent

See Employment: Industrial and Occupational Classification
Employment History: Size, Sector and Duties

*** Interview Characteristics and Conditions**

Investments

See Incomes: Rents, Savings, Investments
Financial Management: Savings and Bank Accounts

Job Description

See Employment: Sector and Duties
Employment History: Size, Sector and Duties

Job Expectations

See Employment: Expectations
Employment: Not Working/Seeking Work

Job History

See Employment History
Lifetime Employment History: Events

Job Preferences

See Employment: Attitudes to Work and Incentives
Employment: Expectations
Employment History: Reasons for Leaving and Taking Jobs

Job Satisfaction

See Employment: Attitudes to Work and Incentives
Employment History: Reasons for Leaving and Taking Jobs

Job Search

See Employment: Not Working/Seeking Work

*** Key Linking Variable**

Leisure

See Leisure Activity
Social and Interest Group Activity
Social and Interest Group Membership

*** Leisure Activity**

*** Life Events**

*** Lifetime Employment History: Events**

Loans

See Financial Management: Loan Repayments
Housing: Rent, Mortgage and Loan Details

*** Marital and Cohabitation History**

Maintenance Payments

See Financial Management: External Transfers
Incomes: Benefits and Allowances and Pensions

*** Marital Status**

Marriages

See Marital and Cohabitation History
Marital Status

Maternity History

See Children
Fertility

Membership of Organisations

See Social and Interest Group Membership

Metropolitan Area

See Geographic Location

Mobility

See Geographic Mobility
Household Changes
Housing: Ownership Status and Tenure

Mortgages

See Housing: Rent, Mortgage and Loan Details
Financial Management: Loan Repayments

Mother's Employment

See Socio-Demographic Characteristics

Mother's Job Title

See Socio-Demographic Characteristics

Moving House

See Geographic Mobility
Housing: Ownership Status and Tenure
Neighbourhood and Residence

National Health Service (NHS)

See Health: Hospital and Clinic Use
Health: Medical Consultations
Health: NHS vs Private
Health: Use of Health and Welfare Services

*** Neighbourhood and Residence**

See also Crime
Socio-Demographic Characteristics

*** Newspaper Readership**

Old Age Benefits

See Employment: Superannuation and Pension Schemes
Financial Management: Pensions
Incomes: Benefits and Allowances and Pensions

One-Parent Families

See Relationship between Household Members
Values, Opinions and Attitudes

Opinions

See Health: Subjective Well-Being
 Values, Opinions and Attitudes
 Financial Management: Material Well-Being
 Employment History: Reasons for Leaving and Taking Jobs
 Employment: Attitudes to Work and Incentives
 Health: NHS vs Private
 Neighbourhood and Residence
 Gender Roles
 Life Events

Orphans

See Fertility
 Children
 Relationship between Household Members
 Socio-Demographic Characteristics

Overtime

See Employment: Hours Worked and Overtime

Owner-Occupier

See Housing: Ownership Status and Tenure

Part-Time Work

See Employment: Hours Worked and Overtime
 Employment: Labour Force Status

Parental Care

See Child Care
 Children
 Relationship between Household Members
 Values, Opinions and Attitudes
 Family Life

Parental Status

See Children

Partisan Support

See Newspaper Readership
 Political Support and Behaviour
 Values, Opinions and Attitudes

Pay

See Employment: Self-Employment
 Employment: Wages, Salary and Deductions
 Employment History: Wages, Salary and Deductions
 Incomes

Pensions

See Employment: Superannuation and Pension Schemes
 Financial Management: Pensions
 Incomes: Benefits and Allowances and Pensions

Personal Events

See Life Events

Personal Opinions

See Values, Opinions and Attitudes
 Financial Management: Material Well-Being
 Employment History: Reasons for Leaving and Taking Jobs
 Employment: Attitudes to Work and Incentives
 Health: NHS vs Private
 Health: Subjective Well-Being
 Neighbourhood and Residence
 Gender Roles
 Life Events

Personal Spending

See Financial Management: Personal Spending

*** Physical Characteristics**

Place of Birth

See Geographic Location
 Geographic Mobility
 Socio-Demographic Characteristics

Political Efficacy

See Values, Opinions and Attitudes

Political Party

See Newspaper Readership
 Values, Opinions and Attitudes

*** Political Support and Behaviour**

See also Newspaper Readership
 Values, Opinions and Attitudes

Politics

See Newspaper Readership
 Political Support and Behaviour
 Values, Opinions and Attitudes

Private Medicine

See Health: Hospital and Clinic Use
 Health: Medical Consultations
 Health: NHS vs Private
 Health: Use of Health and Welfare Services

Promotions

See Employment: Attitudes to Work and Incentives
 Employment: Sector and Duties
 Employment History: Reasons for Leaving and Taking Jobs
 Lifetime Employment History

Purchases

See Gender Roles
 Household Consumption: Consumer Durables

Redundancy

See Employment: Reasons for Leaving and Taking Jobs

Region

See Geographic Location

*** Relationship between Household Members**

See also Family Life

*** Religion**

See also Values, Opinions and Attitudes
Social and Interest Group Activity
Social and Interest Group Membership

Rents

See Housing: Allowances/Rebates
Housing: Rent, Mortgage and Loan Details
Incomes: Rent, Savings, Investments

Residence

See Neighbourhood and Residence
Geographic Location
Housing: Size and Condition of Dwelling

*** Retirement**

*** Sampling Factors**

Satisfaction with: Accommodation

See Housing: Problems
Neighbourhood and Residence

Satisfaction with: Job

See Employment: Attitudes to Work and Incentives
Employment: Reasons for Leaving and Taking Jobs

Satisfaction with: Health Services

See Health: NHS vs Private

Savings and Bank Accounts

See Incomes: Rent,Savings,Investments
Financial Management: Savings and Bank Accounts

School

See Education: Background and Attainments
Education: Recent Education and Training

Second Job

See Employment: Second Job
Employment: Hours Worked and Overtime
Employment: Industrial and Occupational Classification
Employment: Labour Force Status
Employment: Self-Employment
Employment: Wages, Salary and Deductions

Sector of Employment

See Employment: Industrial and Occupational Classification
Employment: Sector and Duties

Self-Employment

See Employment: Self-Employment

Sickness

See Health: Accidents, Illness
Health: Childrens Health
Health: Personal Health

Size of Household

See Household Changes
Relationship between Household Members
Socio-Demographic Characteristics
Key Linking Variable

Smoking

See Health: Smoking

* **Social and Interest Group Activity**

* **Social and Interest Group Membership**

Social and Welfare Services

See Health: Use of Health and Welfare Services

* **Social Classification**

* **Social Support Networks**

* **Socio-demographic Characteristics**

Socio-Economic Status

See Employment: Industrial and Occupational Classification
Social Classification
Socio-Demographic Characteristics

Standard Industrial Classification (SIC): Parents

See Employment: Industrial and Occupational Classification
Socio-Demographic Characteristics

Standard Industrial Classification (SIC): Respondent

See Employment: Industrial and Occupational Classification
Employment History: Size, Sector and Duties

Standard Occupational Classification (SOC): Parents

See Socio-Demographic Characteristics
Employment: Industrial and Occupational Classification

Standard Occupational Classification (SOC): Respondent

See Employment: Industrial and Occupational Classification
Employment History: Size, Sector and Duties

Step Children

See Children

Telephone

See Household Consumption: Consumer Durables

Television

See Household Consumption: Consumer Durables

Terminal Education Age

See Education: Background and Attainments
Education: Recent Education and Training

* **Time Use**

* **Trade Unions and Union Membership**

See also Values, Opinions and Attitudes

Training

See Education: Background and Attainments
Education: Recent Education and Training
Employment: Prospects and Training

*** Transport**

Travel to Work

See Transport

Unemployment

See Employment: Not Working/Seeking Work

Unemployment Benefits

See Employment: Benefits Receipt
 Employment: Not Working/Seeking Work
 Incomes: Benefits and Allowances and Pensions

Union Membership

See Trades Unions and Union Membership

Use of Health Services

See Health: Use of Health and Welfare Services

*** Values, Opinions and Attitudes**

Video Recorder

See Household Consumption: Consumer Durables

Voting

See Political Support and Behaviour
 Values, Opinions and Attitudes

Wages

See Employment: Second Job
 Employment: Wages, Salary and Deductions
 Employment History: Size, Sector and Duties

Washing Machine

See Household Consumption: Consumer Durables

Welfare Services

See Health: Use of Health and Welfare Services

Well-Being

See Health: Subjective Well-Being
 Financial Management: Material Well-Being

Widows

See Marital and Cohabitation History
 Marital Status

Workplace

See Employment: Workplace and Size of Firm
 Employment History: Size, Sector and Duties

Young Persons

See Children
 Family Life

Appendix 6.4. Question Number to Variable Name Index

AD1	ALKNBRD	AD20I	AQFEDJ	AE11	AJBMIX
AD2	ALKMOVE	AD20J	AQFEDA	AE12A	AJBHRS
AD3	ALKMOVY	AD20K	AQFEDK	AE12B	AJBOT
AD4	APLEVER	AD20L	AQFEDL	AE12C	AJBOTPD
AD4M	APLNOWM	AD20M	AQFEDM	AE13	AJBHRLK
AD4Y	APLNOWY	AD20N	AQFEDN	AE14	AJBTIME
AD5CTY	APLB4C	AD20O	AQFEDO	AE15A	AJBONUS
AD5DST	APLB4D	AD20P	AQFEDP	AE15B	AJBRISE
AD6CTY	APLBORNC	AD20Q	AQFEDQ	AE16A	ATUJBPL
AD6DST	APLBORND	AD20R	AQFEDR	AE16B	ATUIN1
AD7	AYR2UK	AD20S	AQFEDS	AE16C	ATUIN2
AD8M	ADOBM	AD21A	ANQFEDB	AE17A	AJBOPPS
AD8Y	ADOBY	AD21B	ANQFEDC	AE17B	AJBED
AD9	ASEX	AD21C	ANQFEDD	AE17C1	AJBED1
AD10A	APASOC	AD21D	ANQFEDE	AE17C2	AJBED2
AD10ANA	APAJU	AD21E	ANQFEDF	AE17C3	AJBED3
AD10B	APASEMP	AD21F	ANQFEDG	AE17C4	AJBED4
AD10C	APABOSS	AD21G	ANQFEDH	AE17C5	AJBED5
AD10D	APAMNGR	AD21H	ANQFEDI	AE17D	AJBEDD
AD11A	AMASOC	AD21I	ANQFEDJ	AE18	AJBPEN
AD11ANA	AMAJU	AD21J	ANQFEDA	AE19	AJBPENM
AD11B	AMASEMP	AD21K	ANQFEDK	AE20	AJBPL
AD11C	AMABOSS	AD21L	ANQFEDL	AE21A	AJBTTWT
AD11D	AMAMNGR	AD21M	ANQFEDM	AE21B	AJBTTWM
AD12	AMLSTAT	AD21N	ANQFEDN	AE22A1	AJBSAT1
AD13	ASCEND	AD21O	ANQFEDO	AE22A2	AJBSAT2
AD13NA	ASCHOOL	AD21P	ANQFEDP	AE22A3	AJBSAT3
AD14A	ASCTYPE	AD21Q	ANQFEDQ	AE22A4	AJBSAT4
AD14B	ASCNOW	AD21R	ANQFEDR	AE22A5	AJBSAT5
AD15	AFETYPE	AD21S	ANQFEDS	AE22A6	AJBSAT6
AD16	AFEEND	AD22B	AEAAGE	AE22A7	AJBSAT7
AD16NA	AFENOW	AD23A	AEDNEW	AE22B	AJBSAT
AD17	AQFHAS	AD23B1	AEDNEW1	AE23A	APAYGL
AD18A	AQFA	AD23B2	AEDNEW2	AE23B	APAYGW
AD18B	AQFB	AD23B3	AEDNEW3	AE23C	APAYNL
AD18C	AQFC	AD23B4	AEDNEW4	AE23D	APAYNW
AD18D	AQFD	AD23C	AEDNEWD	AE23E	APAYSLP
AD18E	AQFE	AD24A	APAPERR	AE24A	APAYUSL
AD18F	AQFF	AD24B1	APAPER1	AE24B	APAYU
AD18G	AQFG	AD24B2	APAPER2	AE24C	APAYUW
AD18H	AQFH	AD24C	APAPERM	AE24D	APAYUG
AD18I	AQFI	AD25	APAPERP	AE24E1	APAYDF1
AD18J	AQFJ	AD26A	AIVDA	AE24E2	APAYDF2
AD18K	AQFK	AD26B	AIVDB	AE24E3	APAYDF3
AD18L	AQFL	AD26C	AIVDC	AE24E4	APAYDF4
AD18M	AQFM	AD26D	AIVDD	AE24E5	APAYDF5
AD18N	AQFN	AE1	AJBHAS	AE24E6	APAYDF6
AD19	AQFED	AE2	AJBOFF	AE24E7	APAYDF7
AD20A	AQFEDB	AE3	AJBOFFY	AE24E8	APAYDF8
AD20B	AQFEDC	AE4	AJBTERM	AE25D	AJBBGD
AD20C	AQFEDD	AE5	AJBSOC	AE25M	AJBBGM
AD20D	AQFEDE	AE6	AJBSIC	AE25Y	AJBBGY
AD20E	AQFEDF	AE7	AJBSEMP	AE26	AJBBGLY
AD20F	AQFEDG	AE8B	AJBMNGR	AE27	APAYLY
AD20G	AQFEDH	AE9	AJBSECT	AE28	APAYLW
AD20H	AQFEDI	AE10	AJBFSIZE	AE28	APAYLYW

AE29	APAYLG	AE61	AJBLKY1	AF17	AFTHH
AE29	APAYLYG	AE62	AJBLKY2	AF18A1	AFTHH1
AE30	AJBHRLY	AE64	AJBUB	AF18A2	AFTHH2
AE31	AJBOTLY	AE65	AJBUBY	AF18A3	AFTHH3
AE32	APAYS	AE66	AJ2HAS	AF18B11	AFTHH11
AE33	APAYSW	AE67	AJ2SOC	AF18B12	AFTHH21
AE34	APAYSG	AE68	AJ2SEMP	AF18B13	AFTHH31
AE35A	AJBHRBG	AE69	AJ2HRS	AF18B21	AFTHH12
AE35B	AJBOTBG	AE70	AJ2PAY	AF18B22	AFTHH22
AE36	APAYGYR	AE72A	AJBHHA	AF18B23	AFTHH32
AE36DK	APAYGYA	AE72B	AJBHHB	AF18B31	AFTHH13
AE37A	AJSBOSS	AE72C	AJBHHC	AF18B32	AFTHH23
AE37B	AJSSIZE	AE72D	AJBHHD	AF18B33	AFTHH33
AE38	AJSHRS	AE72E	AJBHHE	AF18B41	AFTHH14
AE39A	AJSHRLK	AE72F	AJBHFF	AF18B42	AFTHH24
AE39B	AJSTIME	AE73	AJBHH	AF18B43	AFTHH34
AE40A	AJSTYPE	AE74A	AIVEA	AF18B51	AFTHH15
AE40B	AJSACCS	AE74B	AIVEB	AF18B52	AFTHH25
AE40C	AJSPRF	AE74C	AIVEC	AF18B53	AFTHH35
AE40DBM	AJSPRBM	AE74D	AIVED	AF18B61	AFTHH16
AE40DBY	AJSPRBY	AF2	ANF1	AF18B62	AFTHH26
AE40DEM	AJSPREM	AF3A	AFICODE	AF18B63	AFTHH36
AE40DEY	AJSPREY	AF3B01	AFR01	AF18C1	AFTHH1V
AE40E	AJSPAYL	AF3B02	AFR02	AF18C2	AFTHH2V
AE40FBM	AJSPYBM	AF3B03	AFR03	AF18C3	AFTHH3V
AE40FBY	AJSPYBY	AF3B04	AFR04	AF18DOC1	AFTHH1W
AE40FEM	AJSPYEM	AF3B05	AFR05	AF18DOC2	AFTHH2W
AE40FEY	AJSPYEY	AF3B06	AFR06	AF18DOC3	AFTHH3W
AE41A	AJSPL	AF3B07	AFR07	AF19	AFTEXHH
AE41B	AJSTTWT	AF3B08	AFR08	AF20A	AFTEXA
AE41C	AJSTTWM	AF3B09	AFR09	AF20B	AFTEXB
AE42A1	AJSSAT1	AF3B10	AFR10	AF20C	AFTEXC
AE42A2	AJSSAT2	AF3B11	AFR11	AF21A1	AFTEXA1
AE42A3	AJSSAT3	AF3B12	AFR12	AF21A2	AFTEXA2
AE42A4	AJSSAT4	AF3B13	AFR13	AF21A3	AFTEXA3
AE42A5	AJSSAT5	AF3B14	AFR14	AF21A4	AFTEXA4
AE42B	AJSSAT	AF3B15	AFR15	AF21A5	AFTEXA5
AE43D	AJSBGD	AF3B16	AFR16	AF21A6	AFTEXA6
AE43M	AJSBGM	AF3BAL	AFRALL	AF21B1	AFTEXB1
AE43Y	AJSBGY	AF3C	AFRNOW	AF21B2	AFTEXB2
AE44	ARACH12	AF3D	AFRVAL	AF21B3	AFTEXB3
AE45M1	AJBCHC1	AF3EOC	AFRW	AF21B4	AFTEXB4
AE45M2	AJBCHC2	AF3F	AFRJT	AF21B5	AFTEXB5
AE45M3	AJBCHC3	AF3FPN	AFRJTPN	AF21B6	AFTEXB6
AE47	AXPCHCF	AF3GM	AFISBM	AF21C1	AFTEXC1
AE48	AXPCHC	AF3GY	AFISBY	AF21C2	AFTEXC2
AE49	AHUXPCH	AF3SEQ	AFISEQ	AF21C3	AFTEXC3
AE50	AHUNURS	AF4	AFISIT	AF21C4	AFTEXC4
AE51	AJULK1	AF5	AFISITC	AF21C5	AFTEXC5
AE52	AJULK4	AF6	AFISITX	AF21C6	AFTEXC6
AE53	AJULKJB	AF8	AFIYRDI	AF22	AXPSELF
AE54	AJUSPEC	AF9	ASAVE	AF24	ASPINHH
AE55	AJUSOC	AF10	ASAVED	AF25A	AHUBUYS
AE56	AJUPAYX	AF11	ASAVEY	AF25B	AHUF RYS
AE57	AJUHR SX	AF12	ABANKAC	AF25C	AHUMOPS
AE58A	AJUPAYL	AF14	ABANKJT	AF25D	AHUIRON
AE58B	AJUHRSL	AF15P1	ABANKJ1	AF26	AHHCH12
AE59	AJBASP1	AF15P2	ABANKJ2	AF27	AHUSITS
AE60	AJBASP2	AF16	AHUDRAW	AF28	AHURUNS

AF29	AHUBOSS	AH4	AMGHAVE	AH24A3	ACD3USE
AF30	AHUPAYS	AH5	AMGYNOT	AH24A4	ACD4USE
AF31	AHUKEEP	AH6A	AHSSNIP	AH24A5	ACD5USE
AF32	AHUASKS	AH6B	AHSVNDR	AH24A6	ACD6USE
AF33A	AHUSHOP	AH7A	AHSCOST	AH24A7	ACD7USE
AF33B	AHUCOOK	AH7B	AMGYR0	AH24A8	ACD8USE
AF33C	AHUDUST	AH8A	AHSSNIP	AH24A9	ACD9USE
AF33D	AHUWASH	AH8B	AHSVNDR	AH24B1	ACD1OWN
AF34	ADRIVER	AH8C	AHSCOST	AH24B2	ACD2OWN
AF35	ACARUSE	AH9	AHSYR0	AH24B3	ACD3OWN
AF36	ACAROWR	AH10A	AMGYR0	AH24B4	ACD4OWN
AF37	ACAROWRP	AH10B	AHSSNIP	AH24B5	ACD5OWN
AF38	ACARJOB	AH10C	AHSVNDR	AH24B6	ACD6OWN
AF39	ACARVAL	AH10D	AHSCOST	AH24B7	ACD7OWN
AF40	AIVFOIM	AH11A	AMGOLD	AH24B8	ACD8OWN
AF40	AIVFOIH	AH11B	AMGLIFE	AH24B9	ACD9OWN
AF40A	AIVFA	AH11C	AMGTYPE	AH24C1	ACD1NEW
AF40B	AIVFB	AH12A	AMGXTRA	AH24C2	ACD2NEW
AF40C	AIVFC	AH12B	AMGNEW	AH24C3	ACD3NEW
AF40D	AIVFD	AH12C1	AMGXTY1	AH24C4	ACD4NEW
AF41	AIVSC	AH12C2	AMGXTY2	AH24C5	ACD5NEW
AF101	AF101	AH12C3	AMGXTY3	AH24C6	ACD6NEW
AF102	AF102	AH12C4	AMGXTY4	AH24C7	ACD7NEW
AF103	AF103	AH12C5	AMGXTY5	AH24C8	ACD8NEW
AF104	AF104	AH13A	AXPMG	AH24C9	ACD9NEW
AF105	AF105	AH13B1	AXPMG1	AH25	AHEATCH
AF106	AF106	AH13B2	AXPMG2	AH26	AHEATYP
AF116	AF116	AH13B3	AXPMG3	AH27	AXPOILY
AF117	AF117	AH13B4	AXPMG4	AH28	AGASUSE
AF118	AF118	AH14	AHSVVAL	AH29	AGASWAY
AF119	AF119	AH16	AHSJB	AH30A	AXPGASL
AF120	AF120	AH17M1	ARENTP1	AH30B	AXPGASW
AF121	AF121	AH17M2	ARENTP2	AH30C	AXPGASLW
AF122	AF122	AH18	ARENTP1	AH31	ALECWAY
AF131	AF133	AH19	ARENTP2	AH32A	AXPLECL
AF132	AF132	AH20B	ARENTP1	AH32B	AXPLECW
AF133	AF131	AH20C	ARENTP2	AH32C	AXPLECLW
AF134	AF134	AH20D1	ARENTP1	AH33	AXPFOOD
AF135	AF135	AH20D2	ARENTP2	AH34	ANCARS
AF136	AF136	AH20D3	ARENTP3	AH37M1	AIVH1
AF137	AF137	AH20D4	ARENTP4	AH37M2	AIVH2
AF138	AF138	AH20D5	ARENTP5	AH37M3	AIVH3
AF139	AF139	AH20D6	ARENTP6	AH38M1	AIVHC1
AF140	AF140	AH21A	ARENTHB	AH38M2	AIVHC2
AF141	AF141	AH21B	ARENTHG	AH38M3	AIVHC3
AF151	AF151	AH21C	ARENTHG	AHC2	AHHJND
AF152	AF152	AH21D	ARENTHG	AHC5AY	AHHAB1Y
AF153	AF153	AH22A	ARENTHG	AHC5BY	AHHAB2Y
AF154	AF154	AH22B1	ARENTHG	A11	AIV1
AF155	AF155	AH22B2	ARENTHG	A12	AIV2
AF156	AF156	AH22C	ARENTHG	A14	AIV4
AF157	AF157	AH23A	AHSPRBA	A15	AIV5
AF158	AF158	AH23B	AHSPRBB	A16A	AIV6A
AF159	AF159	AH23C	AHSPRBC	A16B	AIV6B
AH1A	AHSROOM	AH23D	AHSPRBD	A16C	AIV6C
AH1B	AHSBEDS	AH23E	AHSPRBE	A16D	AIV6D
AH2	AHSOWND	AH23F	AHSPRBF	A16E	AIV6E
AH3M1	AHSOWR1	AH24A1	ACD1USE	A16F	AIV6F
AH3M2	AHSOWR2	AH24A2	ACD2USE	A17	AIV7

AJ2	AJBSTAT	AM13AM	AXDT1M	AM23E	AHLCKEN
AJ3D	ACJSBGD	AM13AY	AXDT1Y	AM23F	AHLCKFN
AJ3M	ACJSBGM	AM13BM	AXDT2M	AM23G	AHLCKGN
AJ3Y	ACJSBGY	AM13BY	AXDT2Y	AM23H	AHLCKHN
AJ4	ACJSBLY	AM13CM	AXDT3M	AM24	ASMOKER
AJ5A	AJHSTAT	AM13CY	AXDT3Y	AM25	ANCIGS
AJ5BD	AJHBGD	AM14M1	AXDT1PL	AM26A	AOPHLA
AJ5BM	AJHBGM	AM14M2	AXDT2PL	AM26B	AOPHLB
AJ5BY	AJHBGY	AM14M3	AXDT3PL	AM26C	AOPHLC
AJ5D	ANJBS	AM15	AHOSP	AM27	ARACH16
AJ6B	AJHSOC	AM16	AHOSPD	AM28	AHLCH
AJ8	AJHPLDF	AM17A	AHOSPCH	AM29P1	AHLCH1
AJ9A	AJHSIC	AM18	AHOSPNHS	AM29P2	AHLCH2
AJ9B	AJHSIZE	AM19A	AHLSV	AM29P3	AHLCH3
AJ10	AJHMNGR	AM19BA	AHLSVA	AM29P4	AHLCH4
AJ11B	AJHSEMP	AM19BB	AHLSVB	AM31	AAIDHH
AJ11C	AJHBOSS	AM19BC	AHLSVC	AM32P1	AAIDHUA
AJ13	AJHSECT	AM19BD	AHLSVD	AM32P2	AAIDHUB
AJ15	AJHA9LY	AM19BE	AHLSVE	AM32P3	AAIDHUC
AJ16A	AJHPAYL	AM19BF	AHLSVF	AM33A	AAIDXHH
AJ16B	AJHPYLW	AM19BG	AHLSVG	AM34	ANAIDXHH
AJ16C	AJHPYLG	AM19BH	AHLSVH	AM35D1	AAIDHU1
AJ17A	AJHPAYS	AM19BI	AHLSVI	AM35D2	AAIDHU2
AJ17B	AJHPYSW	AM19BJ1	AHLSVJ	AM36D1	AAIDPL1
AJ17C	AJHPYSG	AM19BJ2	AHLSVK	AM36D2	AAIDPL2
AJ18	AJHSTPY	AM20A	AHLSVAN	AM37	AAIDHRS
AJ19	AJBLKY	AM20B	AHLSVBN	AM38A	AIVMA
AJ91	AJBHAD	AM20C	AHLSVCN	AM38B	AIVMB
AJ92	AJLEND	AM20D	AHLSVDN	AM38C	AIVMC
AJ93	AJLSOC	AM20E	AHLSVEN	AM38D	AIVMD
AJ94	AJLSIC	AM20F	AHLSVFN	AP13	APRFEHQ
AJ95	AJLSEMP	AM20G	AHLSVGN	AP15	APRSEHQ
AJ96	AJLBOSS	AM20H	AHLSVHN	AP51	APRJBFT
AJ97	AJLMNGR	AM20I	AHLSVIN	AP63	APRFITB
AJ98	AJLSIZE	AM20J1	AHLSVJN	APB	APRRS2I
AJ99A	AIVJA	AM20J2	AHLSVKN	APC	APRIPN
AJ99B	AIVJB	AM21A	AHLSVAF	APD	APRWHY
AJ99C	AIVJC	AM21B	AHLSVBF	AS1A	AGHQA
AJ99D	AIVJD	AM21C	AHLSVCF	AS1B	AGHQB
AM1	AHLSTAT	AM21D	AHLSVDF	AS1C	AGHQC
AM2	AHLZEST	AM21E	AHLSVEF	AS1D	AGHQD
AM3	AHLDSBL	AM21F	AHLSVFF	AS1E	AGHQE
AM4M0	AHLPRB	AM21G	AHLSVGF	AS1F	AGHQF
AM4M1	AHLPRB1	AM21H	AHLSVHF	AS1G	AGHQG
AM4M2	AHLPRB2	AM21I	AHLSVIF	AS1H	AGHQH
AM4M3	AHLPRB3	AM21J1	AHLSVJF	AS1I	AGHQI
AM4M4	AHLPRB4	AM21J2	AHLSVKF	AS1J	AGHQJ
AM5	AHLLT	AM22A	AHLCKA	AS1K	AGHQK
AM6A	AHLLTA	AM22B	AHLCKB	AS1L	AGHQL
AM6B	AHLLTB	AM22C	AHLCKC	AS2A	AOPFAMA
AM6C	AHLLTC	AM22D	AHLCKD	AS2B	AOPFAMB
AM6D	AHLLTD	AM22E	AHLCKE	AS2C	AOPFAMC
AM6E	AHLLTE	AM22F	AHLCKF	AS2D	AOPFAMD
AM7	AHLLTW	AM22G	AHLCKG	AS2E	AOPFAME
AM8	AHLENDW	AM22H	AHLCKH	AS2F	AOPFAMF
AM9	AHLLTWA	AM23A	AHLCKAN	AS2G	AOPFAMG
AM10	AHL2GP	AM23B	AHLCKBN	AS2H	AOPFAMH
AM11	AXDTS	AM23C	AHLCKCN	AS2I	AOPFAMI
AM12	ANXDTS	AM23D	AHLCKDN	AS3A	ASSUPA

AS3B	ASSUPB	AV22D	AIVVD	BD20J	BQFEDXJ
AS3C	ASSUPC	BD2	BLKNBRD	BD20K	BQFEDXK
AS3D	ASSUPD	BD3	BLKMOVE	BD21A	BNQFEXA
AS3E	ASSUPE	BD4	BLKMOVY	BD21B	BNQFEXB
AS4A	ASSUP1	BD5	BPLNEW	BD21C	BNQFEXC
AV1A	AOPSOCA	BD6	BPLNOWM	BD21E	BNQFEXE
AV1B	AOPSOCB	BD6	BPLNOWY	BD21F	BNQFEXF
AV1C	AOPSOCC	BD7	BMOVJB	BD21G	BNQFEXG
AV1D	AOPSOCD	BD8A	BMOVJBA	BD21H	BNQFEXH
AV1E	AOPSOCE	BD8B	BMOVJBB	BD21I	BNQFEXI
AV1F	AOPSOCF	BD8C	BMOVJBC	BD21J	BNQFEXJ
AV2	AOPCLS1	BD8D	BMOVJBD	BD21K	BNQFEXK
AV3	AOPCLS2	BD8E	BMOVJBE	BD22CTY	BPLBORNC
AV4	AOPCLS3	BD8F	BMOVJBF	BD22DST	BPLBORND
AV5	AVOTE1	BD8G	BMOVJBG	BD23	BYR2UK
AV6	AVOTE2	BD8H	BMOVJBH	BD24	BRACE
AV7	AVOTE3	BD8I	BMOVJBI	BD26	BSCEND
AV8	AVOTE4	BD9M1	BMOVY1	BD26NA	BSCHOOL
AV9	AVOTE5	BD9M2	BMOVY2	BD27	BSCTYPE
AV10	AVOTE6	BD10M	BDOBM	BD28	BSCNOW
AV11	AOPRLG1	BD10Y	BDOBY	BD29	BFETYPE
AV12	AOPRLG2	BD11	BSEX	BD30	BFEEND
AV13	AOPRLG3	BD11	BSEX	BD30NA	BFENOW
AV14	ARACE	BD12	BIVLYR	BD31	BQFHAS
AV15	AORGM	BD13	BJBSTAT	BD32A	BQFA
AV16A	AORGMA	BD14	BEDLYR	BD32B	BQFB
AV16B	AORGMB	BD15M	BEDENDM	BD32C	BQFC
AV16C	AORGMC	BD15Y	BEDENDY	BD32D	BQFD
AV16D	AORGMD	BD16	BEDTYPE	BD32E	BQFE
AV16E	AORGME	BD17	BQFX	BD32F	BQFF
AV16F	AORGME	BD18A	BQFXA	BD32G	BQFG
AV16G	AORGMG	BD18B	BQFXB	BD32H	BQFH
AV16H	AORGMH	BD18C	BQFXC	BD32I	BQFI
AV16I	AORGMI	BD18D	BQFXD	BD32J	BQFJ
AV16J	AORGMJ	BD18E	BQFXE	BD32K	BQFK
AV16K	AORGMK	BD18F	BQFXF	BD32L	BQFL
AV16L	AORGML	BD18G	BQFXG	BD32M	BQFM
AV16M	AORGMM	BD18H	BQFXH	BD32N	BQFN
AV17	AORGA	BD18I	BQFXI	BD33	BQFED
AV18A	AORGAA	BD18J	BQFXJ	BD34A	BQFEDB
AV18B	AORGAB	BD18K	BQFXK	BD34B	BQFEDC
AV18C	AORGAC	BD18L	BQFXL	BD34C	BQFEDD
AV18D	AORGAD	BD18M	BQFXM	BD34D	BQFEDE
AV18E	AORGAE	BD18N	BQFXN	BD34E	BQFEDF
AV18F	AORGAF	BD19	BQFEDX	BD34F	BQFEDG
AV18G	AORGAG	BD1AD	BDOID	BD34G	BQFEDH
AV18H	AORGAH	BD1AM	BDOIM	BD34H	BQFEDI
AV18I	AORGAI	BD1AY	BDOIY	BD34I	BQFEDJ
AV18J	AORGAJ	BD1BH	BIVSOIH	BD34J	BQFEDA
AV18K	AORGAK	BD1BM	BIVSOIM	BD34K	BQFEDK
AV18L	AORGAL	BD20A	BQFEDXA	BD34L	BQFEDL
AV18M	AORGAM	BD20B	BQFEDXB	BD34M	BQFEDM
AV19M1	AOPPOL1	BD20C	BQFEDXC	BD34N	BQFEDN
AV19M2	AOPPOL2	BD20D	BQFEDXD	BD34O	BQFEDO
AV20	AOPPOL3	BD20E	BQFEDXE	BD34P	BQFEDP
AV21	AOPPOL4	BD20F	BQFEDXF	BD34Q	BQFEDQ
AV22A	AIVVA	BD20G	BQFEDXG	BD34R	BQFEDR
AV22B	AIVVB	BD20H	BQFEDXH	BD34S	BQFEDS
AV22C	AIVVC	BD20I	BQFEDXI	BD35A	BNQFEDB

BD35B	BNQFEDC	BE23	BPAYSLP	BE79E	BJSSAT5
BD35C	BNQFEDD	BE25	BPAYUSL	BE80	BJSSAT
BD35D	BNQFEDE	BE26	BPAYU	BE81D	BJSBGD
BD35E	BNQFEDF	BE27OC	BPAYUW	BE81M	BJSBGM
BD35F	BNQFEDG	BE28	BPAYUG	BE81Y	BJSBGY
BD35G	BNQFEDH	BE29A	BPAYDF1	BE82	BJBED
BD35H	BNQFEDI	BE29B	BPAYDF2	BE83A	BJBED1
BD35I	BNQFEDJ	BE29C	BPAYDF3	BE83B	BJBED2
BD35J	BNQFEDA	BE29D	BPAYDF4	BE83C	BJBED3
BD35K	BNQFEDK	BE29E	BPAYDF5	BE83D	BJBED4
BD35L	BNQFEDL	BE29F	BPAYDF6	BE83E	BJBED5
BD35M	BNQFEDM	BE29G	BPAYDF7	BE84H	BJBEDH
BD35N	BNQFEDN	BE29H	BPAYDF8	BE84W	BJBEDW
BD35O	BNQFEDO	BE31D	BJBBGD	BE85	BRACH12
BD35P	BNQFEDP	BE31M	BJBBGM	BE86M1	BJBCHC1
BD35Q	BNQFEDQ	BE31Y	BJBBGY	BE86M2	BJBCHC2
BD35R	BNQFEDR	BE32	BJBBGLY	BE86M3	BJBCHC3
BD35S	BNQFEDS	BE33	BJBSECT	BE88	BXPCHCF
BD36	BPAPERR	BE34	BJBONUS	BE89	BXPCHC
BD37	BPAPER1	BE35	BJBRISE	BE90	BHUXPCH
BD37	BPAPER2	BE36	BTUJBPL	BE91	BHUNURS
BD38	BPAPERM	BE37	BTUIN1	BE92	BJULK1
BD39	BPAPERP	BE38	BTUIN2	BE93	BJULK4
BD40A	BOPSOCG	BE39	BJBOPPS	BE94	BJULKJB
BD40B	BOPSOCH	BE40	BJBTIME	BE95	BJUSPEC
BD40C	BOPSOCI	BE41	BPAYS	BE96	BJUSOC
BD40D	BOPSOCJ	BE42	BPAYSW	BE97	BJUHRXS
BD41A	BIVDA	BE43	BPAYSG	BE98	BJUPAYX
BD41B	BIVDB	BE44	BJBPEN	BE99	BJUPAYL
BD41C	BIVDC	BE45	BJBPENM	BE100	BJUHRSL
BD41D	BIVDD	BE58	BPAYLY	BE102	BJBUB
BE1	BJBHAS	BE59OC	BPAYLYW	BE103	BJBUBY
BE2	BJBOFF	BE60	BPAYLYG	BE104	BJ2HAS
BE3	BJBOFFY	BE64	BPAYGYR	BE105	BJ2SOC
BE4	BJBTERM	BE64DK	BPAYGYA	BE106	BJ2SEMP
BE5	BJBSOC	BE65	BJSBOSS	BE107	BJ2HRS
BE6	BJBSIC	BE66	BJSSIZE	BE108	BJ2PAY
BE7	BJBSEMP	BE67	BJSHRS	BE110A	BJBHHA
BE8	BJBMNGR	BE68	BJSHRLK	BE110B	BJBHBB
BE9	BJBSIZE	BE69	BJSTIME	BE110C	BJBHHC
BE10	BJBHRS	BE70	BJSTYPE	BE110D	BJBHHD
BE11	BJBOT	BE71	BJSACCS	BE110E	BJBHHE
BE12	BJBOTPD	BE72	BJSPRF	BE110F	BJBHFF
BE13	BJBHRLK	BE73BM	BJSPRBM	BE111A	BIVEA
BE14	BJBPL	BE73BY	BJSPRBY	BE111B	BIVEB
BE15	BJBTTWT	BE73EM	BJSPREM	BE111C	BIVEC
BE16	BJBTTWM	BE73EY	BJSPREY	BE111D	BIVED
BE17A	BJBSAT1	BE74	BJSPAYL	BEG7	BIVIOW1
BE17B	BJBSAT2	BE75BM	BJSPYBM	BEG7	BIVIOW1
BE17C	BJBSAT3	BE75BY	BJSPYBY	BEG7	BIVIOW1
BE17D	BJBSAT4	BE75EM	BJSPYEM	BEG8	BIVELIG
BE17E	BJBSAT5	BE75EY	BJSPYEY	BEG8	BIVELIG
BE17F	BJBSAT6	BE76	BJSPL	BEG9	BHHMEM
BE17G	BJBSAT7	BE77	BJSTTWT	BEG9	BHHMEM
BE18	BJBSAT	BE78	BJSTTWM	BEG9	BHHMEM
BE19	BPAYGL	BE79A	BJSSAT1	BEG10	BNELYR
BE20OC	BPAYGW	BE79B	BJSSAT2	BEG10	BNELYR
BE21	BPAYNL	BE79C	BJSSAT3	BEG10	BNELYR
BE22OC	BPAYNW	BE79D	BJSSAT4	BEG11	BNEWHY

BEG11	BNEWHY	BF11	BPPPEN	BF24C1	BFTEXAV
BEG11	BNEWHY	BF12	BPENB4	BF24C2	BFTEXBV
BEG12M	BNEMNJJ	BF13	BPENB4YR	BF24C3	BFTEXCV
BEG12M	BNEMNJJ	BF14	BPENB4V	BF24DOC1	BFTEXAW
BEG12M	BNEMNJJ	BF15	BPENB4W	BF24DOC2	BFTEXBW
BEG12Y	BNEYRJJ	BF16	BPENYR	BF24DOC3	BFTEXCW
BEG12Y	BNEYRJJ	BF17	BPENADD	BF25	BSPINHH
BEG12Y	BNEJNYR	BF18	BPENADV	BF26	BHURUNS
BEG12Y	BNEYRJJ	BF19	BPENADW	BF27	BHUBOSS
BEG13	BLEAVER	BF21	BFTHH	BF28	BHUDOES
BEG14	BLVWHY	BF22A1	BFTHH1	BF29	BFAIR1
BEG15M	BLVMN	BF22A2	BFTHH2	BF30	BHHCH12
BEG15Y	BLVYR	BF22A3	BFTHH3	BF31	BHUSITS
BEG16	BLVLOC	BF22B11	BFTHH11	BF32	BFAIR2
BEG17	BIVFIO	BF22B12	BFTHH21	BF33	BHOWLNG
BEG17	BIVFIO	BF22B13	BFTHH31	BF34	BEVENT3S
BEG17	BIVFIO	BF22B21	BFTHH12	BF34	BEVENT4
BEG18	BIVRREF	BF22B22	BFTHH22	BF34	BEVENT4S
BEG18	BIVRREF	BF22B23	BFTHH32	BF34	BEVENT3
BEG20	BIVCOOP	BF22B31	BFTHH13	BF34	BEVENT2
BEG20	BIVCOOP	BF22B32	BFTHH23	BF34	BEVENT1S
BEG20	BIVCOOP	BF22B33	BFTHH33	BF34	BEVENT1
BEG21	BIODC	BF22B41	BFTHH14	BF34	BEVENT2S
BEG21	BIODC	BF22B42	BFTHH24	BF35A	BIVFA
BEG22	BIVMVST	BF22B43	BFTHH34	BF35B	BIVFB
BF2	BNF1	BF22B51	BFTHH15	BF35C	BIVFC
BF3A	BFICODE	BF22B52	BFTHH25	BF35D	BIVFD
BF3ANO	BNFR	BF22B53	BFTHH35	BF36	BIVSC
BF3B01	BFR01	BF22B61	BFTHH16	BF101	BF101
BF3B02	BFR02	BF22B62	BFTHH26	BF102	BF102
BF3B03	BFR03	BF22B63	BFTHH36	BF103	BF103
BF3B04	BFR04	BF22C1	BFTHH1V	BF104	BF104
BF3B05	BFR05	BF22C2	BFTHH2V	BF105	BF105
BF3B06	BFR06	BF22C3	BFTHH3V	BF106	BF106
BF3B07	BFR07	BF22DOC1	BFTHH1W	BF116	BF116
BF3B08	BFR08	BF22DOC2	BFTHH2W	BF117	BF117
BF3B09	BFR09	BF22DOC3	BFTHH3W	BF118	BF118
BF3B10	BFR10	BF23	BFTEXHH	BF119	BF119
BF3B11	BFR11	BF24A1	BFTEXA	BF120	BF120
BF3B12	BFR12	BF24A2	BFTEXB	BF121	BF121
BF3B13	BFR13	BF24A3	BFTEXC	BF122	BF122
BF3B14	BFR14	BF24B11	BFTEXA1	BF123	BF123
BF3B15	BFR15	BF24B12	BFTEXB1	BF124	BF124
BF3B16	BFR16	BF24B13	BFTEXC1	BF131	BF131
BF3B17	BFR17	BF24B21	BFTEXA2	BF132	BF132
BF3BAL	BFRALL	BF24B22	BFTEXB2	BF133	BF133
BF3C	BFRNOW	BF24B23	BFTEXC2	BF134	BF134
BF3D	BFRVAL	BF24B31	BFTEXA3	BF135	BF135
BF3EOC	BFRW	BF24B32	BFTEXB3	BF136	BF136
BF3F	BFRJT	BF24B33	BFTEXC3	BF137	BF137
BF3FPN	BFRJTPN	BF24B41	BFTEXA4	BF138	BF138
BF3SEQ	BFISEQ	BF24B42	BFTEXB4	BF139	BF139
BF4	BFISIT	BF24B43	BFTEXC4	BF140	BF140
BF5	BFISITC	BF24B51	BFTEXA5	BF141	BF141
BF6	BFISITX	BF24B52	BFTEXB5	BF151	BF151
BF7	BFIYRDI	BF24B53	BFTEXC5	BF152	BF152
BF8	BSAVE	BF24B61	BFTEXA6	BF153	BF153
BF9	BSAVED	BF24B62	BFTEXB6	BF154	BF154
BF10	BSAVEY	BF24B63	BFTEXC6	BF155	BF155

BF156	BF156	BH45A	BRENT1	BHG4Y	BHGBY
BF157	BF157	BH45B	BRENT2	BHG7	BMASTAT
BF158	BF158	BH45C	BRENT3	BHG7	BMASTAT
BF159	BF159	BH45D	BRENT4	BHG8	BHGSPN
BFFOIH	BIVFOIH	BH45E	BRENT5	BHG8	BHGSPN
BFFOIM	BIVFOIM	BH45F	BRENT6	BHG9	BHGEMP
BH1	BHSROOM	BH46	BRENTHB	BHG9	BHGEMP
BH2	BHSOWND	BH47	BRENTG	BHG10	BHGFNO
BH3M1	BHSOWR1	BH49	BRENTGW	BHG10	BHGFNO
BH3M2	BHSOWR2	BH50	BXPHSDF	BHG11	BHGMNO
BH5	BMGHAVE	BH51A	BXPHSD1	BHG11	BHGMNO
BH6	BHSOWRP	BH51B	BXPHSD2	BHG12	BHGRA
BH7	BMGYNOT	BH52	BXPHSDB	BHG12	BHGRA
BH8	BHSCOST	BH53	BCDHAVE	BI1	BIV1
BH9	BMGSTAT	BH54A	BCD1USE	BI2	BIV2
BH10	BMGXTRA	BH54B	BCD2USE	BI4	BIV4
BH11	BMGNEW	BH54C	BCD3USE	BI5	BIV5
BH12A	BMGXTY1	BH54D	BCD4USE	BI6A	BIV6A
BH12B	BMGXTY2	BH54E	BCD5USE	BI6B	BIV6B
BH12C	BMGXTY3	BH54F	BCD6USE	BI6C	BIV6C
BH12D	BMGXTY4	BH54G	BCD7USE	BI6D	BIV6D
BH12E	BMGXTY5	BH54H	BCD8USE	BI6E	BIV6E
BH13	BHSCOST	BH54I	BCD9USE	BI6F	BIV6F
BH14	BMGOLD	BH55A	BCD1NEW	BI7	BIV7
BH15	BMGLIFE	BH55B	BCD2NEW	BJ2	BEDNEW
BH16	BMGTYPE	BH55C	BCD3NEW	BJ3A	BEDNEW1
BH17	BMGNEW	BH55D	BCD4NEW	BJ3B	BEDNEW2
BH18A	BMGXTY1	BH55E	BCD5NEW	BJ3C	BEDNEW3
BH18B	BMGXTY2	BH55F	BCD6NEW	BJ3D	BEDNEW4
BH18C	BMGXTY3	BH55G	BCD7NEW	BJ4H	BEDNEWH
BH18D	BMGXTY4	BH55H	BCD8NEW	BJ4W	BEDNEWW
BH18E	BMGXTY5	BH55I	BCD9NEW	BJ9	BJBSTAT
BH19	BXPMG	BH56	BCDNUXP	BJ9	BNEMST
BH20A	BXPMG1	BH57	BHSIP	BJ10D	BCJSBGD
BH20B	BXPMG2	BH58	BHSIPXP	BJ10M	BCJSBGM
BH20C	BXPMG3	BH59	BHEATCH	BJ10Y	BCJSBGY
BH20D	BXPMG4	BH60	BHEATYP	BJ11	BCJSBLY
BH23	BHSCOST	BH61	BXPOILY	BJ12	BJHSTAT
BH25	BHSCOST	BH62	BGASUSE	BJ13D	BJHBGD
BH26	BHSYR0	BH63	BGASWAY	BJ13M	BJHBGM
BH27	BHSVAL	BH64	BXPGASL	BJ13Y	BJHBGY
BH29	BHSCOST	BH65	BXPGASW	BJ15	BNJBS
BH30	BMGOLD	BH66	BXPGASLW	BJ17	BJHSOC
BH31	BMGLIFE	BH67	BLECWAY	BJ19	BJHSEMP
BH32	BMGTYPE	BH68	BXPLECL	BJ20	BJHBOSS
BH33	BMGXTRA	BH69	BXPLECW	BJ21	BJHSECT
BH34	BMGNEW	BH70	BXPLECLW	BJ22	BJHMNGR
BH36	BXPMG	BH71	BXPFOOD	BJ24	BJHPLDF
BH37A	BXPMG1	BH72	BNCARS	BJ25	BJHSIC
BH37B	BXPMG2	BH73M1	BIVH1	BJ26	BJHSIZE
BH37C	BXPMG3	BH73M2	BIVH2	BJ27	BJHPAYL
BH37D	BXPMG4	BH73M3	BIVH3	BJ28OC	BJHPYLW
BH38	BHSJB	BHG2	BHGR2R	BJ29	BJHPYLG
BH39M1	BRENTP1	BHG2	BHGR2R	BJ30	BJHSTPY
BH39M2	BRENTP2	BHG3	BHGSEX	BJ31	BJBLKY
BH40	BRENTLL	BHG3	BHGSEX	BJ34	BJBHAD
BH41	BRENTF	BHG4M	BHGMBM	BJ35	BJLEND
BH43	BRENT	BHG4M	BHGMBM	BJ36	BJLSOC
BH44	BRENTW	BHG4Y	BHGBY	BJ37	BJLSIC

BJ38	BJLSEMP	BL48C	BIVLC	BM21G	BHLSVG
BJ39	BJLBOSS	BL48D	BIVLD	BM21H	BHLSVH
BJ40	BJLMNGR	BL49M	BLEDENDM	BM21I	BHLSVI
BJ41	BJLSIZE	BL49NL	BLEDNOW	BM21J1	BHLSVJ
BJ42A	BIVJA	BL49Y	BLEDENDY	BM21J2	BHLSVK
BJ42B	BIVJB	BL50	BLESHST	BM21J2	BHLSVJ
BJ42C	BIVJC	BL50SPNO	BLESHNO	BM22A	BHLSVAN
BJ42D	BIVJD	BL51M	BLESHEM	BM22B	BHLSVBN
BL10M	BLMSPM	BL51NE	BLESHNE	BM22C	BHLSVCN
BL10Y	BLMSPY	BL51Y	BLESHEY	BM22D	BHLSVDN
BL2	BMLSTAT	BM1	BHLSTAT	BM22E	BHLSVEN
BL3	BNMAR	BM2	BHLZEST	BM22F	BHLSVFN
BL4M	BLMARM	BM3	BHLDLST	BM22G	BHLSVGN
BL4Y	BLMARY	BM4A	BHLPRBA	BM22H	BHLSVHN
BL5	BLMCOH	BM4B	BHLPRBB	BM22I	BHLSVIN
BL6M	BLMCBM	BM4C	BHLPRBC	BM22J1	BHLSVJN
BL6Y	BLMCBY	BM4D	BHLPRBD	BM22J2	BHLSVKN
BL7	BLMEND	BM4M0	BHLPRB	BM23A	BHLSVAF
BL8M	BLMWWM	BM4ME	BHLPRBE	BM23B	BHLSVBF
BL8Y	BLMWY	BM4MF	BHLPRBF	BM23C	BHLSVCF
BL9M	BLMDVM	BM4MG	BHLPRBG	BM23D	BHLSVDF
BL9Y	BLMDVY	BM4MH	BHLPRBH	BM23E	BHLSVEF
BL28	BMPNO	BM4MI	BHLPRBI	BM23F	BHLSVFF
BL35	BLCOH	BM4MJ	BHLPRBJ	BM23G	BHLSVGF
BL36	BLNCOH	BM4MK	BHLPRBK	BM23H	BHLSVHF
BL37	BLCSBM	BM4ML	BHLPRBL	BM23I	BHLSVIF
BL37M	BLCHSM	BM4MM	BHLPRBM	BM23J1	BHLSVJF
BL37SPNO	BLCSNO	BM5	BHLLT	BM23J2	BHLSVKF
BL37Y	BLCSBY	BM6A	BHLLTA	BM24	BHLCK
BL38M	BLCSEM	BM6B	BHLLTB	BM25A	BHLCKA
BL38NE	BLCSNE	BM6C	BHLLTC	BM25B	BHLCKB
BL38Y	BLCSEY	BM6D	BHLLTD	BM25C	BHLCKC
BL39	BLADOPT	BM6E	BHLLTE	BM25D	BHLCKD
BL40	BLNADPT	BM7	BHLLTW	BM25E	BHLCKE
BL41	BLACNO	BM8	BHLENDW	BM25F	BHLCKF
BL41AM	BLACBM	BM9	BHLLTWA	BM25G	BHLCKG
BL41AY	BLACBY	BM10	BHL2GP	BM25H	BHLCKH
BL41B	BLACSX	BM11	BXDTS	BM26A	BHLCKAN
BL41C	BLACST	BM12	BNXDTS	BM26B	BHLCKBN
BL41D	BLACYB	BM13AM	BXDT1M	BM26C	BHLCKCN
BL41E	BLACL	BM13AY	BXDT1Y	BM26D	BHLCKDN
BL41F	BLACYD	BM13BM	BXDT2M	BM26E	BHLCKEN
BL41G	BLACAL	BM13BY	BXDT2Y	BM26F	BHLCKFN
BL42	BLPRNT	BM13CM	BXDT3M	BM26G	BHLCKGN
BL43	BLNPRNT	BM13CY	BXDT3Y	BM26H	BHLCKHN
BL44AM	BLCHBM	BM14M1	BXDT1PL	BM27	BSMOKER
BL44AY	BLCHBY	BM14M2	BXDT2PL	BM28	BNCIGS
BL44B	BLCHSX	BM14M3	BXDT3PL	BM30	BAIDHH
BL44C	BLCHLV	BM15	BHOSP	BM31P1	BAIDHUA
BL44CNO	BLNCNO	BM16	BHOSPD	BM31P2	BAIDHUB
BL44CNO	BLNCNO	BM18	BHOSPCH	BM31P3	BAIDHUC
BL44D	BLCHYD	BM19	BHOSPNHS	BM32	BAIDXHH
BL44E	BLCHAL	BM20	BHLSV	BM34	BNAIDXHH
BL45	BEAAGE	BM21A	BHLSVA	BM35	BAIDHU2
BL45	BCBAGE	BM21B	BHLSVB	BM35	BAIDHU1
BL46	BLCHMOR	BM21C	BHLSVC	BM36	BAIDPL1
BL47	BLCHMORN	BM21D	BHLSVD	BM36	BAIDPL2
BL48A	BIVLA	BM21E	BHLSVE	BM37	BAIDHRS
BL48B	BIVLB	BM21F	BHLSVF	BM38A	BIVMA

BM38B	BIVMB	BV1C	BOPPOLC	CD3	CLKMOVE
BM38C	BIVMC	BV1D	BOPPOLD	CD4	CLKMOVY
BM38D	BIVMD	BV2	BVOTE1	CD5	CPLNEW
BP2B	BPRRS2I	BV3	BVOTE2	CD6M	CPLNOWM
BP2C	BPRIPN	BV4	BVOTE4	CD6Y	CPLNOWY
BP2D	BPRWHY	BV5	BVOTE5	CD7	CMOVJB
BP3	BP3M	BV6	BVOTE7	CD8A	CMOVJBA
BP3	BP3AL	BV7	BVOTE8	CD8B	CMOVJBB
BP3	BP3Y	BV8	BVOTE6	CD8C	CMOVJBC
BP13	BPRFEHQ	BV9A	BOPISS1	CD8D	CMOVJBD
BP15	BPRSEHQ	BV9B	BOPISS2	CD8E	CMOVJBE
BP49	BPRJBFT	BV9C	BOPISS3	CD8F	CMOVJBF
BP61	BPRFITB	BV9D	BOPISS4	CD8G	CMOVJBG
BPI1	BPIM2	BV9E	BOPISS5	CD8H	CMOVJBH
BPI1	BPIM1	BV10	BOPPOL1	CD8I	CMOVJBI
BS1A	BGHQA	BV11	BOPPOL2	CD9M1	CMOVY1
BS1B	BGHQB	BV12	BORGM	CD9M2	CMOVY2
BS1C	BGHQC	BV13A	BORGMA	CD10M	CDOBM
BS1D	BGHQD	BV13B	BORGM B	CD10Y	CDOBY
BS1E	BGHQE	BV13C	BORGMC	CD11	CSEX
BS1F	BGHQF	BV13D	BORGMD	CD11	CSEX
BS1G	BGHQG	BV13E	BORGME	CD13	CJBSTAT
BS1H	BGHQH	BV13F	BORGMF	CD15M	CEDENDM
BS1I	BGHQI	BV13G	BORGMG	CD15Y	CEDENDY
BS1J	BGHQJ	BV13H	BORGMH	CD16	CEDTYPE
BS1K	BGHQK	BV13I	BORGM I	CD17	CQFX
BS1L	BGHQL	BV13J	BORGMJ	CD18A	CQFXA
BS2A	BOPFAMJ	BV13K	BORGMK	CD18B	CQFXB
BS2B	BOPFAMK	BV13L	BORGM L	CD18C	CQFXC
BS2C	BOPFAML	BV13M	BORGM M	CD18D	CQFXD
BS2D	BOPFAMM	BV14	BORGA	CD18E	CQFXE
BS2E	BOPFAMN	BV15A	BORGAA	CD18F	CQFXF
BS3A	BNETSX3	BV15B	BORGAB	CD18G	CQFXG
BS3A	BNETSX2	BV15C	BORGAC	CD18H	CQFXH
BS3A	BNETSX1	BV15D	BORGAD	CD18I	CQFXI
BS3B	BNET2RL	BV15E	BORGAE	CD18J	CQFXJ
BS3B	BNET1RL	BV15F	BORGAF	CD18K	CQFXK
BS3B	BNET3RL	BV15G	BORGAG	CD18L	CQFXL
BS3B	BNET2WR	BV15H	BORGAH	CD18M	CQFXM
BS3B	BNET3WR	BV15I	BORGAI	CD18N	CQFXN
BS3B	BNET1WR	BV15J	BORGAJ	CD19	CQFEDX
BS3C	BNET1AG	BV15K	BORGAK	CD20A	CQFEDXA
BS3C	BNET3AG	BV15L	BORGAL	CD20B	CQFEDXB
BS3C	BNET2AG	BV15M	BORGAM	CD20C	CQFEDXC
BS3D	BNET3KN	BV16	BDRIVER	CD20D	CQFEDXD
BS3D	BNET1KN	BV17	BCARUSE	CD20E	CQFEDXE
BS3D	BNET2KN	BV18A	BIVVA	CD20F	CQFEDXF
BS3E	BNET3PH	BV18B	BIVVB	CD20G	CQFEDXG
BS3E	BNET1PH	BV18C	BIVVC	CD20H	CQFEDXH
BS3E	BNET2PH	BV18D	BIVVD	CD20I	CQFEDXI
BS3F	BNET2LV	CD0AD	CDOID	CD20J	CQFEDXJ
BS3F	BNET3LV	CD0AM	CDOIM	CD20K	CQFEDXK
BS3F	BNET1LV	CD0AY	CDOIY	CD21A	CNQFEXA
BS3G	BNET3JB	CD0B	CIVLYR	CD21B	CNQFEXB
BS3G	BNET2JB	CD0C	CIVIEVR	CD21C	CNQFEXC
BS3G	BNET1JB	CD0D	CRACH16	CD21E	CNQFEXE
BS4A	BNETSOC	CD1H	CIVSOIH	CD21F	CNQFEXF
BV1A	BOPPOLA	CD1M	CIVSOIM	CD21G	CNQFEXG
BV1B	BOPPOLB	CD2	CLKNBRD	CD21H	CNQFEXH

CD21I	CNQFEXI	CD39G	CNQFEDH	CE34	CJBONUS
CD21J	CNQFEXJ	CD39H	CNQFEDI	CE35	CJBRISE
CD21K	CNQFEXK	CD39I	CNQFEDJ	CE36	CTUJBPL
CD22	CMLSTAT	CD39J	CNQFEDA	CE37	CTUIN1
CD23	CMLCHNG	CD39K	CNQFEDK	CE38	CTUIN2
CD24M	CMLCHM	CD39L	CNQFEDL	CE39	CJBOPPS
CD24Y	CMLCHY	CD39M	CNQFEDM	CE40	CJBTIME
CD25DST	CPLBORND	CD39N	CNQFEDN	CE41	CPAYS
CD25OS	CPLBORNC	CD39O	CNQFEDO	CE42OC	CPAYSW
CD26	CYR2UK	CD39P	CNQFEDP	CE43	CPAYSG
CD28	CRACE	CD39Q	CNQFEDQ	CE44	CJBPEN
CD30	CSCEND	CD39R	CNQFEDR	CE45	CJBPENM
CD30NA	CSCHOOL	CD39S	CNQFEDS	CE57	CPAYLY
CD31	CSCTYPE	CE1	CJBHAS	CE58OC	CPAYLYW
CD32	CSCNOW	CE2	CJBOFF	CE59	CPAYLYG
CD33	CFETYPE	CE3	CJBOFFY	CE63	CJSBOSS
CD34	CFEEND	CE4	CJBTERM	CE64	CJSSIZE
CD34NA	CFENOW	CE5	CJBSOC	CE65	CJSHRS
CD35	CQFHAS	CE6	CJBSIC	CE66	CJSHRLK
CD36A	CQFA	CE7	CJBSEMP	CE67	CJSTIME
CD36B	CQFB	CE8	CJBMNGR	CE68	CJSTYPE
CD36C	CQFC	CE9	CJBSECT	CE69	CJSACCS
CD36D	CQFD	CE10	CJBFSIZE	CE70	CJSPRF
CD36E	CQFE	CE11	CJBHRS	CE71BM	CJSPRBM
CD36F	CQFF	CE12	CJBOT	CE71BY	CJSPRBY
CD36G	CQFG	CE13	CJBOTPD	CE71EM	CJSPREM
CD36H	CQFH	CE14	CJBHRLK	CE71EY	CJSPREY
CD36I	CQFI	CE15	CJBPL	CE72	CJSPAYL
CD36J	CQFJ	CE16	CJBTTWT	CE73BM	CJSPYBM
CD36K	CQFK	CE17	CJBTTWM	CE73BY	CJSPYBY
CD36L	CQFL	CE18A	CJBSAT1	CE73EM	CJSPYEM
CD36M	CQFM	CE18B	CJBSAT2	CE73EY	CJSPYEY
CD36N	CQFN	CE18C	CJBSAT3	CE74	CJSPL
CD37	CQFED	CE18D	CJBSAT4	CE75	CJSTTWT
CD38A	CQFEDB	CE18E	CJBSAT5	CE76	CJSTTWM
CD38B	CQFEDC	CE18F	CJBSAT6	CE77A	CJSSAT1
CD38C	CQFEDD	CE18G	CJBSAT7	CE77B	CJSSAT2
CD38D	CQFEDE	CE19	CJBSAT	CE77C	CJSSAT3
CD38E	CQFEDF	CE20	CPAYGL	CE77D	CJSSAT4
CD38F	CQFEDG	CE21OC	CPAYGW	CE77E	CJSSAT5
CD38G	CQFEDH	CE22	CPAYNL	CE78	CJSSAT
CD38H	CQFEDI	CE23OC	CPAYNW	CE79D	CJSBGD
CD38I	CQFEDJ	CE24	CPAYSLP	CE79M	CJSBGM
CD38J	CQFEDA	CE26	CPAYUSL	CE79Y	CJSBGY
CD38K	CQFEDK	CE27	CPAYU	CE80	CJBED
CD38L	CQFEDL	CE28OC	CPAYUW	CE81A	CJBED1
CD38M	CQFEDM	CE29	CPAYUG	CE81B	CJBED2
CD38N	CQFEDN	CE30A	CPAYDF1	CE81C	CJBED3
CD38O	CQFEDO	CE30B	CPAYDF2	CE81D	CJBED4
CD38P	CQFEDP	CE30C	CPAYDF3	CE81E	CJBED5
CD38Q	CQFEDQ	CE30D	CPAYDF4	CE82A	CJBEDQ
CD38R	CQFEDR	CE30E	CPAYDF5	CE82B	CJBEDP1
CD38S	CQFEDS	CE30F	CPAYDF6	CE82B	CJBEDP2
CD39A	CNQFEDB	CE30G	CPAYDF7	CE83	CRACH12
CD39B	CNQFEDC	CE30H	CPAYDF8	CE84M1	CJBCHC1
CD39C	CNQFEDD	CE32D	CJBBGD	CE84M2	CJBCHC2
CD39D	CNQFEDE	CE32M	CJBBGM	CE84M3	CJBCHC3
CD39E	CNQFEDF	CE32Y	CJBBGY	CE86	CXPCHCF
CD39F	CNQFEDG	CE33	CJBBGLY	CE87	CXPCHC

CE88	CHUXPCH	CEG14	CIVFIO	CF25B23	CFTHH32
CE89	CHUNURS	CEG14	CIVFIO	CF25B32	CFTHH23
CE90	CJULK1	CEG14	CIVFIO	CF25B33	CFTHH33
CE91	CJULK4	CEG15	CIVTEL	CF25B42	CFTHH24
CE92	CJULKJB	CEG15	CIVTEL	CF25B43	CFTHH34
CE93	CJUSPEC	CF2	CNF1	CF25B52	CFTHH25
CE94	CJUSOC	CF3A	CFICODE	CF25B53	CFTHH35
CE95	CJUHRXS	CF3ANO	CNFR	CF25B62	CFTHH26
CE96	CJUPAYX	CF3B01	CFR01	CF25B63	CFTHH36
CE97	CJUPAYL	CF3B02	CFR02	CF25C2	CFTHH2V
CE98	CJUHRSL	CF3B03	CFR03	CF25C3	CFTHH3V
CE99	CEAAGE	CF3B04	CFR04	CF25DOC2	CFTHH2W
CE100A	CJBHHA	CF3B05	CFR05	CF25DOC3	CFTHH3W
CE100B	CJBHHB	CF3B06	CFR06	CF26A1	CFTHH1
CE100C	CJBHHC	CF3B07	CFR07	CF26B1	CFTHH11
CE100D	CJBHHD	CF3B08	CFR08	CF26B2	CFTHH12
CE100E	CJBHHE	CF3B09	CFR09	CF26B3	CFTHH13
CE100F	CJBHHF	CF3B10	CFR10	CF26B4	CFTHH14
CE101	CJBUB	CF3B11	CFR11	CF26B5	CFTHH15
CE102	CJBUBY	CF3B12	CFR12	CF26B6	CFTHH16
CE103	CJ2HAS	CF3B13	CFR13	CF26C	CFTHH1V
CE104	CJ2SOC	CF3B14	CFR14	CF26DOC	CFTHH1W
CE105	CJ2SEMP	CF3B15	CFR15	CF27	CFTEXHH
CE106	CJ2HRS	CF3B16	CFR16	CF28A1	CFTEXA
CE107	CJ2PAY	CF3B17	CFR17	CF28A2	CFTEXB
CE108A	CIVEA	CF3BAL	CFRALL	CF28A3	CFTEXC
CE108B	CIVEB	CF3C	CFRNOW	CF28B11	CFTEXA1
CE108C	CIVEC	CF3D	CFRVAL	CF28B12	CFTEXB1
CE108D	CIVED	CF3EOC	CFRW	CF28B13	CFTEXC1
CE108E	CIVEE	CF3F	CFRJT	CF28B21	CFTEXA2
CEG4	CHGSEX	CF3FPN	CFRJTPN	CF28B22	CFTEXB2
CEG4	CHGSEX	CF3SEQ	CFISEQ	CF28B23	CFTEXC2
CEG5M	CHGBM	CF4	CFISIT	CF28B31	CFTEXA3
CEG5M	CHGBM	CF5	CFISITC	CF28B32	CFTEXB3
CEG5Y	CHGBY	CF6	CFISITY	CF28B33	CFTEXC3
CEG5Y	CHGBY	CF7	CFISITX	CF28B41	CFTEXA4
CEG6	CIVIOW2	CF8	COPXPSV	CF28B42	CFTEXB4
CEG6	CIVIOW2	CF9	COPXPCR	CF28B43	CFTEXC4
CEG7	CIVIEVR	CF10	CFIYRDI	CF28B51	CFTEXA5
CEG7	CIVIEVR	CF11	CFIYRDIU	CF28B52	CFTEXB5
CEG7	CIVIEVR	CF12	CSAVE	CF28B53	CFTEXC5
CEG8	CIVELIG	CF13	CSAVED	CF28B61	CFTEXA6
CEG8	CIVELIG	CF14	CSAVEY2	CF28B62	CFTEXB6
CEG9	CHHMEM	CF14	CSAVEY1	CF28B63	CFTEXC6
CEG9	CHHMEM	CF15	CPPPEN	CF28C1	CFTEXAV
CEG9	CHHMEM	CF16	CPENB4	CF28C2	CFTEXBV
CEG10	CNEWHY	CF17	CPENB4YR	CF28C3	CFTEXCV
CEG10	CNEWHY	CF18	CPENB4V	CF28DOC1	CFTEXAW
CEG10	CNEWHY	CF19OC	CPENB4W	CF28DOC2	CFTEXBW
CEG11	CLVWHY	CF20	CPENYR	CF28DOC3	CFTEXCW
CEG12M	CLVMN	CF21	CPENADD	CF29	CSPINHH
CEG12M	CNEMNJJN	CF22	CPENADV	CF30	CHURUNS
CEG12M	CNEMNJJN	CF23OC	CPENADW	CF31	CHUBOSS
CEG12M	CNEMNJJN	CF25	CFTHH	CF32	CHOWLNG
CEG12Y	CNEYRJJN	CF25A2	CFTHH2	CF33	CEVENT4
CEG12Y	CNEYRJJN	CF25A3	CFTHH3	CF33	CEVENT3S
CEG12Y	CLVYR	CF25B12	CFTHH21	CF33	CEVENT3
CEG12Y	CNEYRJJN	CF25B13	CFTHH31	CF33	CEVENT2S
CEG13	CLVLOC	CF25B22	CFTHH22	CF33	CEVENT2

CF33	CEVENT1S	CH12	CMGYR0	CH47H	CCD8NEW
CF33	CEVENT1	CH13	CMGLY	CH47I	CCD9NEW
CF33	CEVENT4S	CH14	CHSIVW2	CH48	CCDNUXP
CF34A	CIVFA	CH17	CMGOLD	CH49	CHSIP
CF34B	CIVFB	CH18	CMGLIFE	CH50	CHSIPXP
CF34C	CIVFC	CH19	CMGTYPE	CH51	CHEATCH
CF34D	CIVFD	CH20	CMGXTRA	CH52	CHEATYP
CF34E	CIVFE	CH21	CMGNEW	CH53	CXPOILY
CF35	CIVSC	CH22A	CMGXTY1	CH54	CGASUSE
CF101	CF101	CH22B	CMGXTY2	CH55	CGASWAY
CF102	CF102	CH22C	CMGXTY3	CH56	CXPGASL
CF103	CF103	CH22D	CMGXTY4	CH57	CXPGASW
CF104	CF104	CH22E	CMGXTY5	CH58	CXPGASLW
CF105	CF105	CH23	CXPMG	CH59	CLECWAY
CF106	CF106	CH24A	CXPMG1	CH60	CXPLECL
CF116	CF116	CH24B	CXPMG2	CH61	CXPLECW
CF117	CF117	CH24C	CXPMG3	CH62	CXPLECLW
CF118	CF118	CH24D	CXPMG4	CH63	CXPFOOD
CF119	CF119	CH25	CHSJB	CH64	CNCARS
CF120	CF120	CH26M1	CREntp1	CH65	CCAROWN
CF121	CF121	CH26M2	CREntp2	CH66	CCARVAL
CF122	CF122	CH27	CREntll	CH67M1	CIVH1
CF123	CF123	CH28	CREntf	CH67M2	CIVH2
CF124	CF124	CH30	CREnt	CH67M3	CIVH3
CF131	CF131	CH31	CREntw	CHG2	CHGR2R
CF132	CF132	CH32A	CREnt1	CHG2	CHGR2R
CF133	CF133	CH32B	CREnt2	CHG7	CAGE
CF134	CF134	CH32C	CREnt3	CHG8	CMASTAT
CF135	CF135	CH32D	CREnt4	CHG8	CMASTAT
CF136	CF136	CH32E	CREnt5	CHG9	CHGSPN
CF137	CF137	CH32F	CREnt6	CHG9	CHGSPN
CF138	CF138	CH33	CREnthb	CHG10	CHGEMP
CF139	CF139	CH34	CREntg	CHG10	CHGEMP
CF140	CF140	CH36	CREntgw	CHG11	CHGFNO
CF141	CF141	CH37	CXPHSDF	CHG11	CHGFNO
CF151	CF151	CH38A	CXPHSD1	CHG12	CHGMNO
CF152	CF152	CH38B	CXPHSD2	CHG12	CHGMNO
CF153	CF153	CH39	CXPHSDB	CHG13	CHGRA
CF154	CF154	CH40	CHS2OWND	CHG13	CHGRA
CF155	CF155	CH41	CHS2VAL	CI1	CIV1
CF156	CF156	CH43	CMGTOT	CI2	CIV2
CF157	CF157	CH44	CCDHAVE	CI4	CIV4
CF158	CF158	CH45A	CCD1USE	CI5	CIV5
CF159	CF159	CH45B	CCD2USE	CI6A	CIV6A
CH0AD	CHHDOI	CH45C	CCD3USE	CI6B	CIV6B
CH0AM	CHHMOI	CH45D	CCD4USE	CI6C	CIV6C
CH0AY	CHHYOI	CH45E	CCD5USE	CI6D	CIV6D
CH0C	CHSTYPE	CH45F	CCD6USE	CI6E	CIV6E
CH1B	CHSRINS	CH45G	CCD7USE	CI6F	CIV6F
CH2	CHSROOM	CH45H	CCD8USE	CI7	CIV7
CH3	CHSOWND	CH45I	CCD9USE	CJ2	CEDNEW
CH4M1	CHSOWR1	CH46	CCDBGHT	CJ3A	CEDNEW1
CH4M2	CHSOWR2	CH47A	CCD1NEW	CJ3B	CEDNEW2
CH5	CHSVAL	CH47B	CCD2NEW	CJ3C	CEDNEW3
CH6	CMGHAVE	CH47C	CCD3NEW	CJ3D	CEDNEW4
CH7	CHSOWRP	CH47D	CCD4NEW	CJ4A	CEDNEWQ
CH8	CMGYNOT	CH47E	CCD5NEW	CJ4B	CEDNEW1P
CH9	CHSCOST	CH47F	CCD6NEW	CJ4B	CEDNEW2P
CH10	CHSYR0	CH47G	CCD7NEW	CJ8	CCJSBGD

CJ8M	CCJSBGM	CM2	CHLZEST	CM22G	CHLSVGN
CJ8Y	CCJSBGY	CM3	CHLDSBL	CM22H	CHLSVHN
CJ9	CNEMST	CM4A	CHLPRBA	CM22I	CHLSVIN
CJ10D	CCJSBGD	CM4B	CHLPRBB	CM22J1	CHLSVJN
CJ11	CCJSBLY	CM4C	CHLPRBC	CM22J2	CHLSVKN
CJ12	CJHSTAT	CM4D	CHLPRBD	CM23A	CHLSVAF
CJ13D	CJHBGD	CM4E	CHLPRBE	CM23B	CHLSVBF
CJ13M	CJHBGM	CM4F	CHLPRBF	CM23C	CHLSVCF
CJ13Y	CJHBGY	CM4G	CHLPRBG	CM23D	CHLSVDF
CJ15	CNJBS	CM4H	CHLPRBH	CM23E	CHLSVEF
CJ17	CJHSOC	CM4I	CHLPRBI	CM23F	CHLSVFF
CJ19	CJHSEMP	CM4J	CHLPRBJ	CM23G	CHLSVGF
CJ20	CJHBOSS	CM4K	CHLPRBK	CM23H	CHLSVHF
CJ21	CJHSECT	CM4L	CHLPRBL	CM23I	CHLSVIF
CJ22	CJHMNGR	CM4M	CHLPRBM	CM23J1	CHLSVJF
CJ24	CJHPLDF	CM4M0	CHLPRB	CM23J2	CHLSVKF
CJ25	CJHSIC	CM5	CHLLT	CM24	CHLCK
CJ26	CJHSIZE	CM6A	CHLLTA	CM25A	CHLCKA
CJ27	CJHPAYL	CM6B	CHLLTB	CM25B	CHLCKB
CJ28OC	CJHPYLW	CM6C	CHLLTC	CM25C	CHLCKC
CJ29	CJHPYLG	CM6D	CHLLTD	CM25D	CHLCKD
CJ30	CJHSTPY	CM6E	CHLLTE	CM25E	CHLCKE
CJ31	CJBLKY	CM7	CHLLTW	CM25F	CHLCKF
CJ34	CJBHAD	CM8	CHLENDW	CM25G	CHLCKG
CJ35	CJLEND	CM9	CHLLTWA	CM25H	CHLCKH
CJ36	CJLSOC	CM10	CHL2GP	CM26A	CHLCKAN
CJ37	CJLSIC	CM11	CXDTS	CM26B	CHLCKBN
CJ38	CJLSEMP	CM12	CNXDTS	CM26C	CHLCKCN
CJ39	CJLBOSS	CM13AY	CXDT1Y	CM26D	CHLCKDN
CJ40	CJLMNGR	CM13BY	CXDT2Y	CM26E	CHLCKEN
CJ41	CJLSIZE	CM13CY	CXDT3Y	CM26F	CHLCKFN
CJ42A	CIVJA	CM13MAM	CXDT1M	CM26G	CHLCKGN
CJ42B	CIVJB	CM13MBM	CXDT2M	CM26H	CHLCKHN
CJ42C	CIVJC	CM13MCM	CXDT3M	CM27	CSMOKER
CJ42D	CIVJD	CM14M1	CXDT1PL	CM28	CNCIGS
CJ42E	CIVJE	CM14M2	CXDT2PL	CM29A	COPHLA
CL1H	CLJBH	CM14M3	CXDT3PL	CM29B	COPHLB
CL1M	CLJBM	CM15	CHOSP	CM29C	COPHLC
CL3	CLJHAD	CM16	CHOSPD	CM31	CAIDHH
CL4	CLJESFV	CM18	CHOSPCH	CM32P1	CAIDHUA
CL5	CLJESFN	CM19	CHOSPNHS	CM32P2	CAIDHUB
CL6	CLJSEMP	CM20	CHLSV	CM32P3	CAIDHUC
CL7M	CLJBGM	CM21A	CHLSVA	CM33	CAIDXHH
CL7Y	CLJBGY	CM21B	CHLSVB	CM34	CNAIDXHH
CL8OC1	CLJSOC	CM21C	CHLSVC	CM35	CAIDHU1
CL8OC2	CLJSIC	CM21D	CHLSVD	CM35	CAIDHU2
CL9	CLJMNGR	CM21E	CHLSVE	CM37	CAIDHRS
CL10	CLJTERM	CM21F	CHLSVF	CM38A	CIVMA
CL11M	CLJLFTM	CM21G	CHLSVG	CM38B	CIVMB
CL11Y	CLJLFTY	CM21H	CHLSVH	CM38C	CIVMC
CL12	CLJYLFT	CM21I	CHLSVI	CM38D	CIVMD
CL13	CLJOTHJ	CM21J1	CHLSVJ	CM38E	CIVME
CL14D	CJCEBGD	CM21J2	CHLSVK	CP2B	CPRRS2I
CL14M	CJCEBGM	CM22A	CHLSVAN	CP2C	CPRIPN
CL14Y	CJCEBGY	CM22B	CHLSVBN	CP2D	CPRWHY
CL15	CJCESOC	CM22C	CHLSVCN	CP3	CPPLEVR
CL16	CJCESEMP	CM22D	CHLSVDN	CP10M	CPRESBGM
CL17	CJCEMNGR	CM22E	CHLSVEN	CP10Y	CPRESBGY
CM1	CHLSTAT	CM22F	CHLSVFN	CP11	CPRESLY

CP12	CEDLYR	CV2	CVOTE1	DD0C	DIVIEVR
CP23	CPRFEHQ	CV3	CVOTE2	DD0D	DRACH12
CP25	CPRSEHQ	CV4	CVOTE3	DD1H	DIVSOIH
CP51	CPRJBFT	CV5	CVOTE4	DD1M	DIVSOIM
CP52M	CPRJBBGM	CV6	CVOTE5	DD2	DLKNBRD
CP52Y	CPRJBBGY	CV7	CVOTE6	DD3	DLKMOVE
CP53	CPRJBLY	CV8	COPPOL1	DD4	DLKMOVY
CP54	CPREARN	CV9	COPPOL2	DD5	DPLNEW
CP63A	CPRF101	CV10	COPPOL3	DD6M	DPLNOWM
CP63B	CPRF102	CV11	COPPOL4	DD6Y	DPLNOWY
CP63C	CPRF116	CV12	COPCHD1	DD7	DMOVJB
CP63D	CPRF131	CV13	COPCHD2	DD8A	DMOVJBA
CP63E	CPRF134	CV14	COPCHD3	DD8B	DMOVJBB
CP63F	CPRF135	CV15	COPCHD4	DD8C	DMOVJBC
CP63G	CPRF137	CV16	CORGM	DD8D	DMOVJBD
CP63H	CPRF139	CV17A	CORGMA	DD8E	DMOVJBE
CP63I	CPRF141	CV17B	CORGMB	DD8F	DMOVJBF
CP63NONE	CPRFIRN	CV17C	CORGMC	DD8G	DMOVJBG
CP64	CPRFITB	CV17D	CORGMD	DD8H	DMOVJBH
CPI1A	CIVPA	CV17E	CORGME	DD8I	DMOVJBI
CPI1B	CIVPB	CV17F	CORGMF	DD9M1	DMOVY1
CPI1C	CIVPC	CV17G	CORGMG	DD9M2	DMOVY2
CPI1D	CIVPD	CV17H	CORGMH	DD10M	DDOBM
CPI1E	CIVPE	CV17I	CORGMI	DD10Y	DDOBY
CS1A	CGHQA	CV17J	CORGMJ	DD11	DSEX
CS1B	CGHQB	CV17K	CORGMK	DD11	DSEX
CS1C	CGHQC	CV17L	CORGML	DD13	DJBSTAT
CS1D	CGHQD	CV17M	CORGMM	DD14	DEDLYR
CS1E	CGHQE	CV17O	CORGMO	DD15M	DEDENDM
CS1F	CGHQF	CV17P	CORGMP	DD15Y	DEDENDY
CS1G	CGHQG	CV17Q	CORGMQ	DD16	DEDTYPE
CS1H	CGHQH	CV18A	CORGAA	DD17	DQFX
CS1I	CGHQI	CV18B	CORGAB	DD18A	DQFXA
CS1J	CGHQJ	CV18C	CORGAC	DD18B	DQFXB
CS1K	CGHQK	CV18D	CORGAD	DD18C	DQFXC
CS1L	CGHQL	CV18E	CORGAE	DD18D	DQFXD
CS2A	COPFAMA	CV18F	CORGAF	DD18E	DQFXE
CS2B	COPFAMB	CV18G	CORGAG	DD18F	DQFXF
CS2C	COPFAMC	CV18H	CORGAH	DD18G	DQFXG
CS2D	COPFAMD	CV18I	CORGAI	DD18H	DQFXH
CS2E	COPFAME	CV18J	CORGAJ	DD18I	DQFXI
CS2F	COPFAMF	CV18K	CORGAK	DD18J	DQFXJ
CS2G	COPFAMG	CV18L	CORGAL	DD18K	DQFXK
CS2H	COPFAMH	CV18M	CORGAM	DD18L	DQFXL
CS2I	COPFAMI	CV18N	CORGA	DD18M	DQFXM
CS3A	CSSUPA	CV18O	CORGAO	DD18N	DQFXN
CS3B	CSSUPB	CV18P	CORGAP	DD19	DQFEDX
CS3C	CSSUPC	CV18Q	CORGAQ	DD20A	DQFEDXA
CS3D	CSSUPD	CV19	COPRLG2	DD20B	DQFEDXB
CS3E	CSSUPE	CV20	CCARUSE	DD20C	DQFEDXC
CS4A	CSSUP1	CV21A	CIVVA	DD20D	DQFEDXD
CS4B	CSSUPR2R	CV21B	CIVVB	DD20E	DQFEDXE
CT2B	CTELWHY	CV21C	CIVVC	DD20F	DQFEDXF
CV1A	COPSOCA	CV21D	CIVVD	DD20G	DQFEDXG
CV1B	COPSOCB	CV21E	CIVVE	DD20H	DQFEDXH
CV1C	COPSOCC	DD0AD	DDOID	DD20I	DQFEDXI
CV1D	COPSOCD	DD0AM	DDOIM	DD20J	DQFEDXJ
CV1E	COPSOCE	DD0AY	DDOY	DD20K	DQFEDXK
CV1F	COPSOCF	DD0B	DIVLYR	DD21A	DNQFEXA

DD21B	DNQFEXB	DD39A	DNQFEDA	DE30F	DPAYDF6
DD21C	DNQFEXC	DD39B	DNQFEDB	DE30G	DPAYDF7
DD21E	DNQFEXE	DD39C	DNQFEDC	DE30H	DPAYDF8
DD21F	DNQFEXF	DD39D	DNQFEDD	DE32D	DJBBGD
DD21G	DNQFEXG	DD39E	DNQFEDE	DE32M	DJBBGM
DD21H	DNQFEXH	DD39F	DNQFEDF	DE32Y	DJBBGY
DD21I	DNQFEXI	DD39G	DNQFEDG	DE33	DJBBGLY
DD21J	DNQFEXJ	DD39H	DNQFEDH	DE34	DJBONUS
DD21K	DNQFEXK	DD39I	DNQFEDI	DE35	DJBRISE
DD22	DMLSTAT	DD39J	DNQFEDJ	DE36	DTUJBPL
DD23	DMLCHNG	DD39K	DNQFEDK	DE37	DTUIN1
DD24M	DMLCHM	DD39L	DNQFEDL	DE38	DTUIN2
DD24Y	DMLCHY	DD39M	DNQFEDM	DE39	DJBOPPS
DD25DST	DPLBORND	DD39N	DNQFEDN	DE40	DJBTIME
DD25OS	DPLBORNC	DD39O	DNQFEDO	DE41	DPAYS
DD26	DYR2UK	DD39P	DNQFEDP	DE42OC	DPAYSW
DD28	DRACE	DD39Q	DNQFEDQ	DE43	DPAYSG
DD30	DSCEND	DD39R	DNQFEDR	DE44	DJBPEN
DD30NA	DSCHOOL	DD39S	DNQFEDS	DE45	DJBPENM
DD31	DSCTYPE	DE1	DJBHAS	DE57	DPAYLY
DD32	DSCNOW	DE2	DJBOFF	DE58OC	DPAYLYW
DD33	DFETYPE	DE3	DJBOFFY	DE59	DPAYLYG
DD34	DFEEND	DE4	DJBTERM	DE63	DJSBOSS
DD34NA	DFENOW	DE5	DJBSOC	DE64	DJSSIZE
DD35	DQFHAS	DE6	DJBSIC	DE65	DJSHRS
DD36A	DQFA	DE6	DJBSIC92	DE66	DJSHRLK
DD36B	DQFB	DE7	DJBSEMP	DE67	DJSTIME
DD36C	DQFC	DE8	DJBMNGR	DE68	DJSTYPE
DD36D	DQFD	DE9	DJBSECT	DE69	DJSACCS
DD36E	DQFE	DE10	DJBSIZE	DE70	DJSPRF
DD36F	DQFF	DE11	DJBHRS	DE71BM	DJSPRBM
DD36G	DQFG	DE12	DJBOT	DE71BY	DJSPRBY
DD36H	DQFH	DE13	DJBOTPD	DE71EM	DJSPREM
DD36I	DQFI	DE14	DJBHRLK	DE71EY	DJSPREY
DD36J	DQFJ	DE15	DJBPL	DE72	DJSPAYL
DD36K	DQFK	DE16	DJBTTWT	DE73BM	DJSPYBM
DD36L	DQFL	DE17	DJBTTWM	DE73BY	DJSPYBY
DD36M	DQFM	DE18A	DJBSAT1	DE73EM	DJSPYEM
DD36N	DQFN	DE18B	DJBSAT2	DE73EY	DJSPYEY
DD37	DQFED	DE18C	DJBSAT3	DE74	DJSPL
DD38A	DQFEDA	DE18D	DJBSAT4	DE75	DJSTTWT
DD38B	DQFEDB	DE18E	DJBSAT5	DE76	DJSTTWM
DD38C	DQFEDC	DE18F	DJBSAT6	DE77A	DJSSAT1
DD38D	DQFEDD	DE18G	DJBSAT7	DE77B	DJSSAT2
DD38E	DQFEDE	DE19	DJBSAT	DE77C	DJSSAT3
DD38F	DQFEDF	DE20	DPAYGL	DE77D	DJSSAT4
DD38G	DQFEDG	DE21OC	DPAYGW	DE77E	DJSSAT5
DD38H	DQFEDH	DE22	DPAYNL	DE78	DJSSAT
DD38I	DQFEDI	DE23OC	DPAYNW	DE79D	DJSBGD
DD38J	DQFEDJ	DE24	DPAYSLP	DE79M	DJSBGM
DD38K	DQFEDK	DE26	DPAYUSL	DE79Y	DJSBGY
DD38L	DQFEDL	DE27	DPAYU	DE80	DJBED
DD38M	DQFEDM	DE28OC	DPAYUW	DE81A	DJBED1
DD38N	DQFEDN	DE29	DPAYUG	DE81B	DJBED2
DD38O	DQFEDO	DE30A	DPAYDF1	DE81C	DJBED3
DD38P	DQFEDP	DE30B	DPAYDF2	DE81D	DJBED4
DD38Q	DQFEDQ	DE30C	DPAYDF3	DE81E	DJBED5
DD38R	DQFEDR	DE30D	DPAYDF4	DE82A	DJBEDQ
DD38S	DQFEDS	DE30E	DPAYDF5	DE82B	DJBEDP1

DE84M1	DJBCHC1	DEG12Y	DNEYRJN	DF26A2	DFTHH2
DE84M2	DJBCHC2	DEG12Y	DNEYRJN	DF26A3	DFTHH3
DE84M3	DJBCHC3	DEG12Y	DNEYRJN	DF26B1	DFTHH11
DE86	DXPCHCF	DEG13	DLVLOC	DF26B12	DFTHH21
DE87	DXPCHC	DEG14	DIVFIO	DF26B13	DFTHH31
DE88	DHUXPCH	DEG14	DIVFIO	DF26B2	DFTHH12
DE89	DHUNURS	DEG14	DIVFIO	DF26B22	DFTHH22
DE90	DJULK1	DEG15	DIVREF	DF26B23	DFTHH32
DE91	DJULK4	DEG16	DIVIREIS	DF26B3	DFTHH13
DE92	DJULKJB	DF2	DNFR	DF26B32	DFTHH23
DE93	DJUSPEC	DF2	DNF1	DF26B33	DFTHH33
DE94	DJUSOC	DF3A	DFICODE	DF26B4	DFTHH14
DE95	DJUHRXS	DF3B01	DFR01	DF26B42	DFTHH24
DE96	DJUPAYX	DF3B02	DFR02	DF26B43	DFTHH34
DE97	DJUPAYL	DF3B03	DFR03	DF26B5	DFTHH15
DE98	DJUHRSL	DF3B04	DFR04	DF26B52	DFTHH25
DE99	DEAAGE	DF3B05	DFR05	DF26B53	DFTHH35
DE100A	DJBHHA	DF3B06	DFR06	DF26B6	DFTHH16
DE100B	DJBHHB	DF3B07	DFR07	DF26B62	DFTHH26
DE100C	DJBHHC	DF3B08	DFR08	DF26B63	DFTHH36
DE100D	DJBHHD	DF3B09	DFR09	DF26C	DFTHH1V
DE100E	DJBHHE	DF3B10	DFR10	DF26C2	DFTHH2V
DE100F	DJBHHF	DF3B11	DFR11	DF26C3	DFTHH3V
DE101	DJBUB	DF3B12	DFR12	DF26DOC	DFTHH1W
DE102	DJBUBY	DF3B13	DFR13	DF26DOC2	DFTHH2W
DE103	DJ2HAS	DF3B14	DFR14	DF26DOC3	DFTHH3W
DE104	DJ2SOC	DF3B15	DFR15	DF27	DFTEXHH
DE105	DJ2SEMP	DF3B16	DFR16	DF28A1	DFTEXA
DE106	DJ2HRS	DF3B17	DFR17	DF28A2	DFTEXB
DE107	DJ2PAY	DF3BAL	DFRALL	DF28A3	DFTEXC
DE108A	DIVEA	DF3C	DFRNOW	DF28B11	DFTEXA1
DE108B	DIVEB	DF3D	DFRVAL	DF28B12	DFTEXB1
DE108C	DIVEC	DF3EOC	DFRW	DF28B13	DFTEXC1
DE108D	DIVED	DF3F	DFRJT	DF28B21	DFTEXA2
DE108E	DIVEE	DF3FPN	DFRJTPN	DF28B22	DFTEXB2
DEG3	PID	DF3SEQ	DFISEQ	DF28B23	DFTEXC2
DEG3	PID	DF4	DFISIT	DF28B31	DFTEXA3
DEG4	DHGSEX	DF5	DFISITC	DF28B32	DFTEXB3
DEG4M	DHGMB	DF6	DFISITY	DF28B33	DFTEXC3
DEG4Y	DHGBY	DF7	DFISITX	DF28B41	DFTEXA4
DEG6	DIVIOW3	DF8	DOPXPSV	DF28B42	DFTEXB4
DEG6	DIVIOW3	DF9	DOPXPCR	DF28B43	DFTEXC4
DEG6	DIVIOW3	DF10	DFIYRDI	DF28B51	DFTEXA5
DEG7	DIVIEVR	DF11	DFIYRDIU	DF28B52	DFTEXB5
DEG7	DIVIEVR	DF12	DSAVE	DF28B53	DFTEXC5
DEG7	DIVIEVR	DF13	DSAVED	DF28B61	DFTEXA6
DEG8	DIVELIG	DF14	DSAVEY1	DF28B62	DFTEXB6
DEG9	DHHMEM	DF14	DSAVEY2	DF28B63	DFTEXC6
DEG9	DHHMEM	DF15	DPPPEN	DF28C1	DFTEXAV
DEG9	DHHMEM	DF16	DPENB4	DF28C2	DFTEXBV
DEG10	DNEWHY	DF17	DPENB4YR	DF28C3	DFTEXCV
DEG10	DNEWHY	DF18	DPENB4V	DF28DOC1	DFTEXAW
DEG10	DNEWHY	DF19OC	DPENB4W	DF28DOC2	DFTEXBW
DEG11	DLVWHY	DF20	DPENYR	DF28DOC3	DFTEXCW
DEG12M	DNEMNJJN	DF21	DPENADD	DF29	DSPINHH
DEG12M	DNEMNJJN	DF22	DPENADV	DF30	DHURUNS
DEG12M	DNEMNJJN	DF23OC	DPENADW	DF31	DHUBOSS
DEG12M	DLVMN	DF25	DFTHH	DF32A	DHUBUYS
DEG12Y	DLVYR	DF26A1	DFTHH1	DF32B	DHUFRRYS

DF32C	DHUMOPS	DH0C	DHSTYPE	DH45F	DCD6USE
DF32D	DHUIRON	DH2	DHSROOM	DH45G	DCD7USE
DF33	DHHCH12	DH3	DHSOWND	DH45H	DCD8USE
DF34	DHUSITS	DH5	DHSVAL	DH45I	DCD9USE
DF35	DHOWLNG	DH6	DMGHAVE	DH46	DCDBGHT
DF36	DEVENT2S	DH7	DHSOWRP	DH47A	DCD1NEW
DF36	DEVENT1S	DH8	DMGYNOT	DH47B	DCD2NEW
DF36	DEVENT1	DH9	DHSCOST	DH47C	DCD3NEW
DF36	DEVENT2	DH10	DHSYR0	DH47D	DCD4NEW
DF36	DEVENT4S	DH12	DMGYR0	DH47E	DCD5NEW
DF36	DEVENT4	DH13	DMGLY	DH47F	DCD6NEW
DF36	DEVENT3S	DH14	DHSIVW3	DH47G	DCD7NEW
DF36	DEVENT3	DH17	DMGOLD	DH47H	DCD8NEW
DF37A	DIVFA	DH18	DMGLIFE	DH47I	DCD9NEW
DF37B	DIVFB	DH19	DMGTYPE	DH48	DCDNUXP
DF37C	DIVFC	DH1B	DHSRINS	DH49	DHSIP
DF37D	DIVFD	DH20	DMGXTRA	DH50	DHSIPXP
DF37E	DIVFE	DH21	DMGNEW	DH51	DHEATCH
DF38H	DIVFOIH	DH4M1	DHSOWR1	DH52	DHEATYP
DF38M	DIVFOIM	DH4M2	DHSOWR2	DH53	DXPOILY
DF39	DIVSC	DH22A	DMGXTY1	DH54	DGASUSE
DF101	DF101	DH22B	DMGXTY2	DH55	DGASWAY
DF102	DF102	DH22C	DMGXTY3	DH56	DXPGASL
DF103	DF103	DH22D	DMGXTY4	DH57	DXPGASW
DF104	DF104	DH22E	DMGXTY5	DH58	DXPGASLW
DF105	DF105	DH23	DXPMG	DH59	DLECWAY
DF106	DF106	DH24A	DXPMG1	DH60	DXPLECL
DF116	DF116	DH24B	DXPMG2	DH61	DXPLECW
DF117	DF117	DH24C	DXPMG3	DH62	DXPLECLW
DF118	DF118	DH24D	DXPMG4	DH63	DXPFOOD
DF119	DF119	DH25	DHSJB	DH64	DNCARS
DF120	DF120	DH26M1	DRENTP1	DH65	DCAROWN
DF121	DF121	DH26M2	DRENTP2	DH66	DCARVAL
DF122	DF122	DH27	DRENTLL	DH67M1	DIVH1
DF123	DF123	DH28	DRENTF	DH67M2	DIVH2
DF124	DF124	DH30	DRENT	DH67M3	DIVH3
DF131	DF131	DH31	DRENTW	DHG2	DHGR2R
DF132	DF132	DH32A	DRENT1	DHG2	DHGR2R
DF133	DF133	DH32B	DRENT2	DHG3	DHGSEX
DF134	DF134	DH32C	DRENT3	DHG3	DHGSEX
DF135	DF135	DH32D	DRENT4	DHG4M	DHGBM
DF136	DF136	DH32E	DRENT5	DHG4Y	DHGBY
DF137	DF137	DH32F	DRENT6	DHG8	DMASTAT
DF138	DF138	DH33	DRENTHB	DHG8	DMASTAT
DF139	DF139	DH34	DRENTG	DHG9	DHGSPN
DF140	DF140	DH36	DRENTGW	DHG9	DHGSPN
DF141	DF141	DH37	DXPHSDF	DHG10	DHGEMP
DF151	DF151	DH38A	DXPHSD1	DHG10	DHGEMP
DF152	DF152	DH38B	DXPHSD2	DHG11	DHGFNO
DF153	DF153	DH39	DXPHSDB	DHG11	DHGFNO
DF154	DF154	DH40	DHS2OWND	DHG12	DHGMNO
DF155	DF155	DH41	DHS2VAL	DHG12	DHGMNO
DF156	DF156	DH43	DMGTOT	DHG13	DHGRA
DF157	DF157	DH44	DCDHAVE	DHG13	DHGRA
DF158	DF158	DH45A	DCD1USE	DI1	DIV1
DF159	DF159	DH45B	DCD2USE	DI2	DIV2
DH0AD	DHHDOI	DH45C	DCD3USE	DI4	DIV4
DH0AM	DHHMOI	DH45D	DCD4USE	DI5	DIV5
DH0AY	DHHYOI	DH45E	DCD5USE	DI6A	DIV6A

DI6B	DIV6B	DM4D	DHLPRBD	DM23A	DHLSVAF
DI6C	DIV6C	DM4E	DHLPRBE	DM23B	DHLSVBF
DI6D	DIV6D	DM4F	DHLPRBF	DM23C	DHLSVCF
DI6E	DIV6E	DM4G	DHLPRBG	DM23D	DHLSVDF
DI6F	DIV6F	DM4H	DHLPRBH	DM23E	DHLSVEF
DI7	DIV7	DM4I	DHLPRBI	DM23F	DHLSVFF
DJ2	DEDNEW	DM4J	DHLPRBJ	DM23G	DHLSVGF
DJ3A	DEDNEW1	DM4K	DHLPRBK	DM23H	DHLSVHF
DJ3B	DEDNEW2	DM4L	DHLPRBL	DM23I	DHLSVIF
DJ3C	DEDNEW3	DM4M	DHLPRBM	DM23J1	DHLSVJF
DJ3D	DEDNEW4	DM4M0	DHLPRB	DM23J2	DHLSVKF
DJ4A	DEDNEWQ	DM5	DHLLT	DM24	DHLCK
DJ4B	DEDNEWP1	DM6A	DHLLTA	DM25A	DHLCKA
DJ8	DCJSBGD	DM6B	DHLLTB	DM25B	DHLCKB
DJ8M	DCJSBGM	DM6C	DHLLTC	DM25C	DHLCKC
DJ8Y	DCJSBGY	DM6D	DHLLTD	DM25D	DHLCKD
DJ9	DNEMST	DM6E	DHLLTE	DM25E	DHLCKE
DJ10D	DCJSBGD	DM7	DHLLTW	DM25F	DHLCKF
DJ10M	DCJSBGM	DM8	DHLENDW	DM25G	DHLCKG
DJ10Y	DCJSBGY	DM9	DHLLTWA	DM25H	DHLCKH
DJ11	DCJSBLY	DM10	DHL2GP	DM26A	DHLCKAN
DJ12	DJHSTAT	DM11	DXDTS	DM26B	DHLCKBN
DJ13D	DJHBGD	DM12	DNXDTS	DM26C	DHLCKCN
DJ13M	DJHBGM	DM13AM	DXDT1M	DM26D	DHLCKDN
DJ13Y	DJHBGY	DM13AY	DXDT1Y	DM26E	DHLCKEN
DJ15	DNJBS	DM13BM	DXDT2M	DM26F	DHLCKFN
DJ17	DJHSOC	DM13BY	DXDT2Y	DM26G	DHLCKGN
DJ19	DJHSEMP	DM13CM	DXDT3M	DM26H	DHLCKHN
DJ20	DJHBOSS	DM13CY	DXDT3Y	DM27	DSMOKER
DJ21	DJHSECT	DM14M1	DXDT1PL	DM28	DNCIGS
DJ22	DJHMNGR	DM14M2	DXDT2PL	DM29A	DOPHLA
DJ24	DJHPLDF	DM14M3	DXDT3PL	DM29B	DOPHLB
DJ25	DJHSIC	DM15	DHOSP	DM29C	DOPHLC
DJ26	DJHSIZE	DM16	DHOSPD	DM31	DAIDHH
DJ27	DJHPAYL	DM18	DHOSPCH	DM32P1	DAIDHUA
DJ28OC	DJHPYLW	DM19	DHOSPNHS	DM32P2	DAIDHUB
DJ29	DJHPYLG	DM20	DHLSV	DM32P3	DAIDHUC
DJ30	DJHSTPY	DM21A	DHLSVA	DM33	DAIDXHH
DJ31	DJBLKY	DM21B	DHLSVB	DM34	DNAIDXHH
DJ34	DJBHAD	DM21C	DHLSVC	DM35	DAIDHU2
DJ35	DJLEND	DM21D	DHLSVD	DM35	DAIDHU1
DJ36	DJLSOC	DM21E	DHLSVE	DM37	DAIDHRS
DJ37	DJLSIC	DM21F	DHLSVF	DM38A	DIVMA
DJ38	DJLSEMP	DM21G	DHLSVG	DM38B	DIVMB
DJ39	DJLBOSS	DM21H	DHLSVH	DM38C	DIVMC
DJ40	DJLMNGR	DM21I	DHLSVI	DM38D	DIVMD
DJ41	DJLSIZE	DM21J1	DHLSVJ	DM38E	DIVME
DJ42A	DIVJA	DM21J2	DHLSVK	DP2B	DPRRS2I
DJ42B	DIVJB	DM22A	DHLSVAN	DP2C	DPRIPN
DJ42C	DIVJC	DM22B	DHLSVBN	DP2D	DPRWHY
DJ42D	DIVJD	DM22C	DHLSVCN	DP3	DPPLEVR
DJ42E	DIVJE	DM22D	DHLSVDN	DP10M	DPRESBGM
DJSPNO	DJSPNO	DM22E	DHLSVEN	DP10Y	DPRESBGY
DM1	DHLSTAT	DM22F	DHLSVFN	DP11	DPRESLY
DM2	DHLZEST	DM22G	DHLSVGN	DP23	DPRFEHQ
DM3	DHLDSBL	DM22H	DHLSVHN	DP25	DPRSEHQ
DM4A	DHLPRBA	DM22I	DHLSVIN	DP51	DPRJBFT
DM4B	DHLPRBB	DM22J1	DHLSVJN	DP52M	DPRJBBGM
DM4C	DHLPRBC	DM22J2	DHLSVKN	DP52Y	DPRJBBGY

DP53	DPRJBLY	DS4A	DNETSOC	DV18Q	DORGAQ
DP54	DPREARN	DT2B	DTELWHY	DV19	DOPRLG2
DP63A	DPRF101	DT45	DTLFIYRL	DV20	DCARUSE
DP63B	DPRF102	DT50	DTLFIYR	DV21	DYPPAR
DP63C	DPRF116	DV1A	DOPPOLA	DV22	DPYRULE
DP63D	DPRF131	DV1B	DOPPOLB	DV23	DPYENRL
DP63E	DPRF134	DV1C	DOPPOLC	DV24	DPYTVRL
DP63F	DPRF135	DV1D	DOPPOLD	DV25A	DPYSTM
DP63G	DPRF137	DV2	DVOTE1	DV25B	DPYSWR
DP63H	DPRF139	DV3	DVOTE2	DV25C	DPYSMOK
DP63I	DPRF141	DV4	DVOTE3	DV25D	DPYLIE
DP63NONE	DPRFIRN	DV5	DVOTE4	DV25E	DPYDRUG
DP64	DPRFITB	DV6	DVOTE5	DV25F	DPYBUNK
DPI1A	DIVPA	DV7	DVOTE6	DV26	DPYSER
DPI1B	DIVPB	DV8	DOPPOL1	DV27	DPYNYP
DPI1C	DIVPC	DV9	DOPPOL2	DV27OC	DPYPNO2
DPI1D	DIVPD	DV9A	DOPISS1	DV27OC	DPYPNO3
DPI1E	DIVPE	DV9B	DOPISS2	DV27OC	DPYPNO1
DS1A	DGHQA	DV9C	DOPISS3	DV28Y1	DPYWHR1
DS1B	DGHQB	DV9D	DOPISS4	DV28Y2	DPYWHR2
DS1C	DGHQC	DV9E	DOPISS5	DV28Y3	DPYWHR3
DS1D	DGHQD	DV10	DOPPOL3	DV29Y1	DPYARG1
DS1E	DGHQE	DV12	DOPCHD1	DV29Y2	DPYARG2
DS1F	DGHQF	DV13	DOPCHD2	DV29Y3	DPYARG3
DS1G	DGHQG	DV14	DOPCHD3	DV30Y	DPYTLK2
DS1H	DGHQH	DV15	DOPCHD4	DV30Y1	DPYTLK1
DS1I	DGHQI	DV16	DORGM	DV30Y3	DPYTLK3
DS1J	DGHQJ	DV17A	DORGMA	DV31Y1	DPYASM1
DS1K	DGHQK	DV17B	DORGMB	DV31Y2	DPYASM2
DS1L	DGHQL	DV17C	DORGMC	DV31Y3	DPYASM3
DS2A	DOPFAMJ	DV17D	DORGMD	DV32Y1	DPYTHH1
DS2B	DOPFAMK	DV17E	DORGME	DV32Y2	DPYTHH2
DS2C	DOPFAML	DV17F	DORGMF	DV32Y3	DPYTHH3
DS2D	DOPFAMM	DV17G	DORGMG	DV33Y1	DPYESM1
DS2E	DOPFAMN	DV17H	DORGMH	DV33Y2	DPYESM2
DS3A	DNETSX1	DV17I	DORGMI	DV33Y3	DPYESM3
DS3A	DNETSX2	DV17J	DORGMJ	DV34Y1	DPYTDR1
DS3A	DNETSX3	DV17K	DORGMK	DV34Y2	DPYTDR2
DS3B	DNET1WR	DV17L	DORGMML	DV34Y3	DPYTDR3
DS3B	DNET2WR	DV17M	DORGMML	DV35Y1	DPYSAD1
DS3B	DNET3WR	DV17O	DORGMML	DV35Y2	DPYSAD2
DS3B	DNET1RL	DV17P	DORGMML	DV35Y3	DPYSAD3
DS3B	DNET3RL	DV17Q	DORGMML	DV36Y1	DPYWOR1
DS3B	DNET2RL	DV18A	DORGAA	DV36Y2	DPYWOR2
DS3C	DNET3AG	DV18B	DORGAB	DV36Y3	DPYWOR3
DS3C	DNET1AG	DV18C	DORGAC	DV37AY1	DPYHSW1
DS3C	DNET2AG	DV18D	DORGAD	DV37AY2	DPYHSW2
DS3D	DNET3KN	DV18E	DORGAE	DV37AY3	DPYHSW3
DS3D	DNET1KN	DV18F	DORGAF	DV37BY1	DPYHAP1
DS3D	DNET2KN	DV18G	DORGAG	DV37BY2	DPYHAP2
DS3E	DNET1PH	DV18H	DORGAG	DV37BY3	DPYHAP3
DS3E	DNET2PH	DV18I	DORGAI	DV37CY1	DPYHFM1
DS3E	DNET3PH	DV18J	DORGAI	DV37CY2	DPYHFM2
DS3F	DNET3LV	DV18K	DORGAK	DV37CY3	DPYHFM3
DS3F	DNET1LV	DV18L	DORGAL	DV37DY1	DPYHFR1
DS3F	DNET2LV	DV18M	DORGAL	DV37DY2	DPYHFR2
DS3G	DNET3JB	DV18N	DORGAM	DV37DY3	DPYHFR3
DS3G	DNET1JB	DV18O	DORGAO	DV37EY1	DPYHLF1
DS3G	DNET2JB	DV18P	DORGAP	DV37EY2	DPYHLF2

DV37EY3	DPYHLF3	DY58	DYPHFR	ED15M	EEDENDM
DY1	DYPNTV	DY59	DYPHLF	ED15Y	EEDENDY
DY2	DYTVHRS	DY60	DYPCOMA	ED16	EEDTYPE
DY3	DYTVLMT	DY61	DYPCOMB	ED17	EQFX
DY4	DYTVSTP	DY62	DYPCOMC	ED18A	EQFXA
DY5	DYPCOMP	DY63	DYPCOMD	ED18B	EQFXB
DY6	DYPPALS	DY64	DYPCOME	ED18C	EQFXC
DY7	DYPUTEL	DY65	DYPCOMF	ED18D	EQFXD
DY8	DYPTELL	DY66	DYPCOMG	ED18E	EQFXE
DY9	DYPLATE	DY67	DYPNBKS	ED18F	EQFXF
DY10	DYPARGM	DY68	DYPVTE6	ED18G	EQFXG
DY11	DYPARGF	DY69	DYPVTE3	ED18H	EQFXH
DY12	DYPTLKM	DY70	DYPLVSC	ED18I	EQFXI
DY13	DYPTLKF	DY71	DYPLVHM	ED18J	EQFXJ
DY14	DYPNPAL	DY72	DYPAMAR	ED18K	EQFXK
DY15	DYPFGHT	DY73	DYPAPAR	ED18L	EQFXL
DY16	DYPASMK	DY74	DYPWHR	ED18M	EQFXM
DY17	DYPEATN	DY75	DYPPAY	ED18N	EQFXN
DY18	DYPMENU	DY76	DYDFSOC	ED19	EQFEDX
DY19	DYPTHHC	DY76N	DYDFJOB	ED20A	EQFEDXA
DY20	DYPSHHC	DY77	DYPSOC	ED20B	EQFEDXB
DY21L	DYPPKML	DY78	DYPJBQA	ED20C	EQFEDXC
DY21P	DYPPKMP	DY79	DYPJBQB	ED20D	EQFEDXD
DY22	DYPSTM	DY80	DYPJBQC	ED20E	EQFEDXE
DY23	DYPSWR	DY81	DYPJBQD	ED20F	EQFEDXF
DY24	DYPSMOK	DY82	DYPJBQE	ED20G	EQFEDXG
DY25	DYPLIE	DY83	DYPJBQT	ED20H	EQFEDXH
DY26	DYPDRUG	ED0AD	EDOID	ED20I	EQFEDXI
DY27	DYPBUNK	ED0AM	EDOIM	ED20J	EQFEDXJ
DY28	DYPSER	ED0AY	EDOYI	ED20K	EQFEDXK
DY29	DYPSMEV	ED0B	EIVLYR	ED21A	ENQFEXA
DY30	DYPSMAG	ED0C	EIVIEVR	ED21B	ENQFEXB
DY31	DYPSMOF	ED0D	ERACH12	ED21C	ENQFEXC
DY32	DYPSMLW	ED1H	EIVSOIH	ED21E	ENQFEXE
DY33	DYPSMYR	ED1M	EIVSOIM	ED21F	ENQFEXF
DY34	DYPSMOP	ED2	ELKNBRD	ED21G	ENQFEXG
DY35	DYPDGSC	ED3	ELKMOVE	ED21H	ENQFEXH
DY36	DYPDGPA	ED4	ELKMOVY	ED21I	ENQFEXI
DY37	DYPDGFR	ED5	EPLNEW	ED21J	ENQFEXJ
DY38	DYPDGYR	ED6M	EPLNOWM	ED21K	ENQFEXK
DY39	DYPOPHA	ED6Y	EPLNOWY	ED22	EMLSTAT
DY40	DYPOPHB	ED7	EMOVJB	ED23	EMLCHNG
DY41	DYPOPHC	ED8A	EMOVJBA	ED24M	EMLCHM
DY42	DYPOPFJ	ED8B	EMOVJBB	ED24Y	EMLCHY
DY43	DYPOPFL	ED8C	EMOVJBC	ED25DST	EPLBORND
DY44	DYPOPFM	ED8D	EMOVJBD	ED25OS	EPLBORNC
DY45	DYPOPFN	ED8E	EMOVJBE	ED26	EYR2UK
DY46	DYPSAD	ED8F	EMOVJBF	ED28	ERACE
DY47	DYPWOR	ED8G	EMOVJBG	ED30	ESCEND
DY48	DYPESTA	ED8H	EMOVJBH	ED30NA	ESCHOOL
DY49	DYPESTB	ED8I	EMOVJBI	ED31	ESCTYPE
DY50	DYPESTC	ED9M1	EMOVY1	ED32	ESCNOW
DY51	DYPESTD	ED9M2	EMOVY2	ED33	EFETYPE
DY52	DYPESTE	ED10M	EDOBM	ED34	EFEEND
DY53	DYPESTF	ED10Y	EDOBY	ED34NA	EFENOW
DY54	DYPESTG	ED11	ESEX	ED35	EQFHAS
DY55	DYPHSW	ED11	ESEX	ED36A	EQFA
DY56	DYPHAP	ED13	EJBSTAT	ED36B	EQFB
DY57	DYPHFM	ED14	EEDLYR	ED36C	EQFC

ED36D	EQFD	EE10	EJBSIZE	EE61	EJSPRF
ED36E	EQFE	EE11	EJBHRS	EE62BM	EJSPRBM
ED36F	EQFF	EE12	EJBOT	EE62BY	EJSPRBY
ED36G	EQFG	EE13	EJBOTPD	EE62EM	EJSPREM
ED36H	EQFH	EE14	EJBHRLK	EE62EY	EJSPREY
ED36I	EQFI	EE15	EJBPL	EE63	EJSPAYL
ED36J	EQFJ	EE16	EJBTTWT	EE64BM	EJSPYBM
ED36K	EQFK	EE17	EJBTTWM	EE64BY	EJSPYBY
ED36L	EQFL	EE18A	EJBSAT1	EE64EM	EJSPYEM
ED36M	EQFM	EE18B	EJBSAT2	EE64EY	EJSPYEY
ED36N	EQFN	EE18C	EJBSAT3	EE65	EJSPL
ED37	EQFED	EE18D	EJBSAT4	EE66	EJSTTWT
ED38A	EQFEDA	EE18E	EJBSAT5	EE67	EJSTTWM
ED38B	EQFEDB	EE18F	EJBSAT6	EE68A	EJSSAT1
ED38C	EQFEDC	EE18G	EJBSAT7	EE68B	EJSSAT2
ED38D	EQFEDD	EE19	EJBSAT	EE68C	EJSSAT3
ED38E	EQFEDE	EE20	EPAYGL	EE68D	EJSSAT4
ED38F	EQFEDF	EE21OC	EPAYGW	EE68E	EJSSAT5
ED38G	EQFEDG	EE22	EPAYNL	EE69	EJSSAT
ED38H	EQFEDH	EE23OC	EPAYNW	EE70D	EJSBGD
ED38I	EQFEDI	EE24	EPAYSLP	EE70M	EJSBGM
ED38J	EQFEDJ	EE26	EPAYUSL	EE70Y	EJSBGY
ED38K	EQFEDK	EE27	EPAYU	EE71	EJBED
ED38L	EQFEDL	EE28OC	EPAYUW	EE72A	EJBED1
ED38M	EQFEDM	EE29	EPAYUG	EE72B	EJBED2
ED38N	EQFEDN	EE30A	EPAYDF1	EE72C	EJBED3
ED38O	EQFEDO	EE30B	EPAYDF2	EE72D	EJBED4
ED38P	EQFEDP	EE30C	EPAYDF3	EE72E	EJBED5
ED38Q	EQFEDQ	EE30D	EPAYDF4	EE73A	EJBEDQ
ED38R	EQFEDR	EE30E	EPAYDF5	EE73B	EJBEDP1
ED38S	EQFEDS	EE30F	EPAYDF6	EE75M1	EJBCHC1
ED39A	ENQFEDA	EE30G	EPAYDF7	EE75M2	EJBCHC2
ED39B	ENQFEDB	EE30H	EPAYDF8	EE75M3	EJBCHC3
ED39C	ENQFEDC	EE31	EJBONUS	EE77	EXPCHCF
ED39D	ENQFEDD	EE32	EJBRISE	EE78	EXPCHC
ED39E	ENQFEDE	EE33	ETUJBPL	EE79	EHUXPCH
ED39F	ENQFEDF	EE34	ETUIN1	EE80	EHUNURS
ED39G	ENQFEDG	EE35	ETUIN2	EE81	EJULK1
ED39H	ENQFEDH	EE36	EJBOPPS	EE82	EJULK4
ED39I	ENQFEDI	EE37	EJBTIME	EE83	EJULKJB
ED39J	ENQFEDJ	EE38	EJBPEN	EE84	EJUSPEC
ED39K	ENQFEDK	EE39	EJBPENM	EE85	EJUSOC
ED39L	ENQFEDL	EE41D	EJBBGD	EE86	EJUHRXS
ED39M	ENQFEDM	EE41M	EJBBGM	EE87	EJUPAYX
ED39N	ENQFEDN	EE41Y	EJBBGY	EE88	EJUPAYL
ED39O	ENQFEDO	EE42	EJBBGLY	EE89	EJUHRSL
ED39P	ENQFEDP	EE43	EPAYS	EE90	EEAAGE
ED39Q	ENQFEDQ	EE44OC	EPAYSW	EE91A	EJBHHA
ED39R	ENQFEDR	EE45	EPAYSG	EE91B	EJBHHB
ED39S	ENQFEDS	EE48	EPAYLY	EE91C	EJBHHC
EE1	EJBHAS	EE49OC	EPAYLYW	EE91D	EJBHHD
EE2	EJBOFF	EE50	EPAYLYG	EE91E	EJBHHE
EE3	EJBOFFY	EE54	EJSBOSS	EE91F	EJBHHF
EE4	EJBTERM	EE55	EJSSIZE	EE92	EJBUB
EE5	EJBSOC	EE56	EJSHRS	EE93	EJBUBY
EE6	EJBSIC	EE57	EJSHRLK	EE94	EJ2HAS
EE7	EJBSEMP	EE58	EJSTIME	EE95	EJ2SOC
EE8	EJBMNGR	EE59	EJSTYPE	EE96	EJ2SEMP
EE9	EJBSECT	EE60	EJSACCS	EE97	EJ2HRS

EE98	EJ2PAY	EF3BAL	EFRALL	EF39	EWINDF
EE99A	EIVEA	EF3C	EFRNOW	EF40A	EWINDFA
EE99B	EIVEB	EF3D	EFRVAL	EF40B	EWINDFB
EE99C	EIVEC	EF3EOC	EFRW	EF40C	EWINDFC
EE99D	EIVED	EF3F	EFRJT	EF40D	EWINDFD
EE99E	EIVEE	EF3FPN	EFRJTPN	EF40E	EWINDFE
EEG3	PID	EF3SEQ	EFISEQ	EF40F	EWINDFF
EEG3	PID	EF4	EFISIT	EF40G	EWINDFG
EEG3	PID	EF5	EFISITC	EF40H	EWINDFH
EEG4	EHGSEX	EF6	EFISITY	EF40R	EWINDFR
EEG4M	EHGBM	EF7	EFISITX	EF41	EWINDFY
EEG4Y	EHGBY	EF8	EOPXPSV	EF43	EFTHH
EEG6	EIVIOW4	EF9	EOPXPCR	EF44A1	EFTHH1
EEG6	EIVIOW4	EF10	EFCCARD	EF44A2	EFTHH2
EEG6	EIVIOW4	EF11	EFIYRDI	EF44A3	EFTHH3
EEG7	EIVIEVR	EF12	EFIYRDIU	EF44B1	EFTHH11
EEG7	EIVIEVR	EF13	ESAVE	EF44B12	EFTHH21
EEG8	EIVELIG	EF14	ESAVED	EF44B13	EFTHH31
EEG9	EHHMEM	EF15	ESAVEY1	EF44B2	EFTHH12
EEG9	EHHMEM	EF15	ESAVEY2	EF44B22	EFTHH22
EEG9	EHHMEM	EF16	ESAVEK	EF44B23	EFTHH32
EEG10	ENEWHY	EF17A	ESAVEKB1	EF44B3	EFTHH13
EEG10	ENEWHY	EF17B	ESAVEKB2	EF44B32	EFTHH23
EEG10	ENEWHY	EF17C	ESAVEKB3	EF44B33	EFTHH33
EEG11	ELVWHY	EF17D	ESAVEKB4	EF44B4	EFTHH14
EEG12M	ENEMNJJ	EF18	ESAVEJ	EF44B42	EFTHH24
EEG12M	ENEMNJJ	EF19	EBANK	EF44B43	EFTHH34
EEG12M	ENEMNJJ	EF20	EBANKK	EF44B5	EFTHH15
EEG12M	ELVMN	EF21A	EBANKKB1	EF44B52	EFTHH25
EEG12Y	ENEYRJJ	EF21B	EBANKKB2	EF44B53	EFTHH35
EEG12Y	ENEYRJJ	EF21C	EBANKKB3	EF44B6	EFTHH16
EEG12Y	ENEYRJJ	EF21D	EBANKKB4	EF44B62	EFTHH26
EEG12Y	ELVYR	EF22	EBANKJ	EF44B63	EFTHH36
EEG13	ELVLOC	EF23	ENVEST	EF44C	EFTHH1V
EEG14	EIVFIO	EF24A	ENVESTA	EF44C2	EFTHH2V
EEG14	EIVFIO	EF24B	ENVESTB	EF44C3	EFTHH3V
EEG14	EIVFIO	EF24C	ENVESTC	EF44DOC	EFTHH1W
EEG15	EIVRREF	EF24D	ENVESTD	EF44DOC2	EFTHH2W
EEG16	EIVIREIS	EF24DK	ENVESTR	EF44DOC3	EFTHH3W
EF2	ENFR	EF24E	ENVESTE	EF45	EFTEXHH
EF2	ENF1	EF24F	ENVESTF	EF46A1	EFTEXA
EF3A	EFICODE	EF24G	ENVESTG	EF46A2	EFTEXB
EF3B01	EFR01	EF25	ENVESTN	EF46A3	EFTEXC
EF3B02	EFR02	EF26	ENVESTL	EF46B11	EFTEXA1
EF3B03	EFR03	EF27	ENVESTK	EF46B12	EFTEXB1
EF3B04	EFR04	EF28A	ENVESTC1	EF46B13	EFTEXC1
EF3B05	EFR05	EF28B	ENVESTC2	EF46B21	EFTEXA2
EF3B06	EFR06	EF28C	ENVESTC3	EF46B22	EFTEXB2
EF3B07	EFR07	EF28D	ENVESTC4	EF46B23	EFTEXC2
EF3B08	EFR08	EF29	ENVESTJ	EF46B31	EFTEXA3
EF3B09	EFR09	EF30	EPPPEN	EF46B32	EFTEXB3
EF3B10	EFR10	EF31	EPENB4	EF46B33	EFTEXC3
EF3B11	EFR11	EF32	EPENB4YR	EF46B41	EFTEXA4
EF3B12	EFR12	EF33	EPENB4V	EF46B42	EFTEXB4
EF3B13	EFR13	EF34OC	EPENB4W	EF46B43	EFTEXC4
EF3B14	EFR14	EF35	EPENYR	EF46B51	EFTEXA5
EF3B15	EFR15	EF36	EPENADD	EF46B52	EFTEXB5
EF3B16	EFR16	EF37	EPENADV	EF46B53	EFTEXC5
EF3B17	EFR17	EF38OC	EPENADW	EF46B61	EFTEXA6

EF46B62	EFTEXB6	EF117	EF117	EH24B	EXPMG2
EF46B63	EFTEXC6	EF118	EF118	EH24C	EXPMG3
EF46C1	EFTEXAV	EF119	EF119	EH24D	EXPMG4
EF46C2	EFTEXBV	EF120	EF120	EH25	EHSJB
EF46C3	EFTEXCV	EF121	EF121	EH26M1	ERENTP1
EF46DOC1	EFTEXAW	EF122	EF122	EH26M2	ERENTP2
EF46DOC2	EFTEXBW	EF123	EF123	EH27	ERENTLL
EF46DOC3	EFTEXCW	EF124	EF124	EH28	ERENTF
EF47	EDEBT	EF125	EF125	EH30	ERENT
EF48A	EDEBTA	EF131	EF131	EH31	ERENTW
EF48B	EDEBTB	EF132	EF132	EH32A	ERENT1
EF48C	EDEBTC	EF133	EF133	EH32B	ERENT7
EF48D	EDEBTD	EF134	EF134	EH32C	ERENT2
EF48DK	EDEBTR	EF135	EF135	EH32D	ERENT3
EF48E	EDEBTE	EF136	EF136	EH32E	ERENT4
EF48F	EDEBTF	EF137	EF137	EH32F	ERENT5
EF48G	EDEBTG	EF138	EF138	EH32G	ERENT8
EF49	EDEBTY	EF139	EF139	EH32H	ERENT6
EF50A	EDEBTC1	EF140	EF140	EH33	ERENTHB
EF50B	EDEBTC2	EF141	EF141	EH34	ERENTG
EF50C	EDEBTC3	EF151	EF151	EH35	ERENTG
EF50D	EDEBTC4	EF152	EF152	EH36	ERENTGW
EF51	EDEBTJ	EF153	EF153	EH37	EXPHSDF
EF52	ESPINHH	EF154	EF154	EH38A	EXPHSD1
EF53	EHURUNS	EF155	EF155	EH38B	EXPHSD2
EF54	EHUBOSS	EF156	EF156	EH39	EXPHSDB
EF55A	EHUBUYS	EF157	EF157	EH40	EHS2OWND
EF55B	EHUFRYS	EF158	EF158	EH41	EHS2VAL
EF55C	EHUMOPS	EF159	EF159	EH43	EMGTOT
EF55D	EHUIRON	EH0AD	EHHDOI	EH44	ECDHAVE
EF56	EHHCH12	EH0AM	EHHMOI	EH45A	ECD1USE
EF57	EHUSITS	EH0AY	EHHYOI	EH45B	ECD2USE
EF58	EHOWLNG	EH0C	EHSTYPE	EH45C	ECD3USE
EF59	EEVENT1S	EH1A	EHSRINS	EH45D	ECD4USE
EF59	EEVENT2	EH2	EHSROOM	EH45E	ECD5USE
EF59	EEVENT1	EH3	EHSOWND	EH45F	ECD6USE
EF59	EEVENT4S	EH4M1	EHSOWR1	EH45G	ECD7USE
EF59	EEVENT2S	EH4M2	EHSOWR2	EH45H	ECD8USE
EF59	EEVENT4	EH5	EHSVAL	EH45I	ECD9USE
EF59	EEVENT3S	EH6	EMGHAVE	EH46	ECDBGHT
EF59	EEVENT3	EH7	EHSOWRP	EH47A	ECD1NEW
EF60A	EIVFA	EH8	EMGYNOT	EH47B	ECD2NEW
EF60B	EIVFB	EH9	EHSCOST	EH47C	ECD3NEW
EF60C	EIVFC	EH10	EHSYR0	EH47D	ECD4NEW
EF60D	EIVFD	EH12	EMGYR0	EH47E	ECD5NEW
EF60E	EIVFE	EH13	EMGLY	EH47F	ECD6NEW
EF61H	EIVFOIH	EH14	EHSIVW4	EH47G	ECD7NEW
EF61M	EIVFOIM	EH17	EMGOLD	EH47H	ECD8NEW
EF62	EIVSC	EH18	EMGLIFE	EH47I	ECD9NEW
EF63A	EMRSSCH	EH19	EMGTYPE	EH48	ECDNUXP
EF63B	EMRSSCI	EH20	EMGXTRA	EH49	EHSIP
EF63I	EPRF125	EH21	EMGNEW	EH50	EHSIPXP
EF101	EF101	EH22A	EMGXTY1	EH51	EHEATCH
EF102	EF102	EH22B	EMGXTY2	EH52	EHEATYP
EF103	EF103	EH22C	EMGXTY3	EH53	EXPOILY
EF104	EF104	EH22D	EMGXTY4	EH54	EGASUSE
EF105	EF105	EH22E	EMGXTY5	EH55	EGASWAY
EF106	EF106	EH23	EXPMG	EH56	EXPGASL
EF116	EF116	EH24A	EXPMG1	EH57	EXPGASW

EH58	.....	EXPGASLW	EJ17	.....	EJHSOC	EM13AM	.....	EXDT1M
EH59	.....	ELECWAY	EJ19	.....	EJHSEMP	EM13AY	.....	EXDT1Y
EH60	.....	EXPLECL	EJ20	.....	EJHBOSS	EM13BM	.....	EXDT2M
EH61	.....	EXPLECW	EJ21	.....	EJHSECT	EM13BY	.....	EXDT2Y
EH62	.....	EXPLECLW	EJ22	.....	EJHMNGR	EM13CM	.....	EXDT3M
EH63	.....	EXPBLDF	EJ24	.....	EJHPLDF	EM13CY	.....	EXDT3Y
EH64	.....	EXPHP	EJ25	.....	EJHSIC	EM14M1	.....	EXDT1PL
EH65	.....	EXPHPDF	EJ26	.....	EJHSIZE	EM14M2	.....	EXDT2PL
EH66	.....	EXPFOOD	EJ27	.....	EJHPAYL	EM14M3	.....	EXDT3PL
EH67	.....	ENCARS	EJ28OC	.....	EJHPYLW	EM15	.....	EHOSP
EH68	.....	ECAROWN	EJ29	.....	EJHPYLG	EM16	.....	EHOSPD
EH69	.....	ECARVAL	EJ30	.....	EJHSTPY	EM18	.....	EHOSPCH
EH70M1	.....	EIVH1	EJ31	.....	EJBLKY	EM19	.....	EHOSP NHS
EH70M2	.....	EIVH2	EJ34	.....	EJBHAD	EM20	.....	EHLSV
EH70M3	.....	EIVH3	EJ35	.....	EJLEND	EM21A	.....	EHLSVA
EHG2	.....	EHGR2R	EJ36	.....	EJLSOC	EM21B	.....	EHLSVB
EHG2	.....	EHGR2R	EJ37	.....	EJLSIC	EM21C	.....	EHLSVC
EHG3	.....	EHGSEX	EJ38	.....	EJLSEMP	EM21D	.....	EHLSVD
EHG4M	.....	EHGBM	EJ39	.....	EJLBOSS	EM21E	.....	EHLSVE
EHG4Y	.....	EHGBY	EJ3A	.....	EEDNEW1	EM21F	.....	EHLSVF
EHG8	.....	EMASTAT	EJ3B	.....	EEDNEW2	EM21G	.....	EHLSVG
EHG8	.....	EMASTAT	EJ3C	.....	EEDNEW3	EM21H	.....	EHLSVH
EHG9	.....	EHGSPN	EJ3D	.....	EEDNEW4	EM21I	.....	EHLSVI
EHG9	.....	EHGSPN	EJ40	.....	EJLMNGR	EM21J1	.....	EHLSVJ
EHG10	.....	EHGEMP	EJ41	.....	EJLSIZE	EM21J2	.....	EHLSVK
EHG10	.....	EHGEMP	EJ42A	.....	EIVJA	EM21K	.....	EHLSVL
EHG11	.....	EHGFNO	EJ42B	.....	EIVJB	EM21L	.....	EHLSVM
EHG11	.....	EHGFNO	EJ42C	.....	EIVJC	EM22A	.....	EHLSVAN
EHG12	.....	EHGMNO	EJ42D	.....	EIVJD	EM22B	.....	EHLSVBN
EHG12	.....	EHGMNO	EJ42E	.....	EIVJE	EM22C	.....	EHLSVCN
EHG13	.....	EHGRA	EM1	.....	EHLSTAT	EM22D	.....	EHLSVDN
EHG13	.....	EHGRA	EM2	.....	EHLZEST	EM22E	.....	EHLSVEN
EI1	.....	EIV1	EM3	.....	EHLDSBL	EM22F	.....	EHLSVFN
EI2	.....	EIV2	EM4A	.....	EHLPRBA	EM22G	.....	EHLSVGN
EI4	.....	EIV4	EM4B	.....	EHLPRBB	EM22H	.....	EHLSVHN
EI5	.....	EIV5	EM4C	.....	EHLPRBC	EM22I	.....	EHLSVIN
EI6A	.....	EIV6A	EM4D	.....	EHLPRBD	EM22J1	.....	EHLSVJN
EI6B	.....	EIV6B	EM4E	.....	EHLPRBE	EM22J2	.....	EHLSVKN
EI6C	.....	EIV6C	EM4F	.....	EHLPRBF	EM22K	.....	EHLSVLN
EI6D	.....	EIV6D	EM4G	.....	EHLPRBG	EM22L	.....	EHLSVMN
EI6E	.....	EIV6E	EM4H	.....	EHLPRBH	EM23A	.....	EHLSVAF
EI7	.....	EIV6F	EM4I	.....	EHLPRBI	EM23B	.....	EHLSVBF
EI8	.....	EIV7	EM4J	.....	EHLPRBJ	EM23C	.....	EHLSVCF
EJ2	.....	EEDNEW	EM4K	.....	EHLPRBK	EM23D	.....	EHLSVDF
EJ4A	.....	EEDNEWQ	EM4L	.....	EHLPRBL	EM23E	.....	EHLSVEF
EJ4B	.....	EEDNEW P1	EM4M	.....	EHLPRBM	EM23F	.....	EHLSVFF
EJ8D	.....	ECJSBGD	EM4M0	.....	EHLPRB	EM23G	.....	EHLSVGF
EJ8M	.....	ECJSBGM	EM5	.....	EHL LT	EM23H	.....	EHLSVHF
EJ8Y	.....	ECJSBGY	EM6A	.....	EHL LTA	EM23I	.....	EHLSVIF
EJ9	.....	ENEMST	EM6B	.....	EHL LTB	EM23J1	.....	EHLSVJF
EJ10D	.....	ECJSBGD	EM6C	.....	EHL LTC	EM23J2	.....	EHLSVKF
EJ10M	.....	ECJSBGM	EM6D	.....	EHL LTD	EM23K	.....	EHLSVLF
EJ10Y	.....	ECJSBGY	EM6E	.....	EHL L TE	EM23L	.....	EHLSVMF
EJ11	.....	ECJSBLY	EM7	.....	EHL L TW	EM24	.....	EHLCK
EJ12	.....	EJHSTAT	EM8	.....	EHL ENDW	EM25A	.....	EHLCKA
EJ13D	.....	EJHBGD	EM9	.....	EHL L TWA	EM25B	.....	EHLCKB
EJ13M	.....	EJHBGM	EM10	.....	EHL2GP	EM25C	.....	EHLCKC
EJ13Y	.....	EJHBGY	EM11	.....	EXDTS	EM25D	.....	EHLCKD
EJ15	.....	ENJBS	EM12	.....	ENXDTS	EM25E	.....	EHLCKE

EM25F	EHLCKI	EPI1C	EIVPC	EV19C	EORGMC
EM25G	EHLCKF	EPI1D	EIVPD	EV19D	EORGMD
EM25H	EHLCKG	EPI1E	EIVPE	EV19E	EORGME
EM25I	EHLCKH	ES1A	EGHQA	EV19F	EORGMF
EM26A	EHLCKAN	ES1B	EGHQB	EV19G	EORGMG
EM26B	EHLCKBN	ES1C	EGHQC	EV19H	EORGMH
EM26C	EHLCKCN	ES1D	EGHQD	EV19I	EORGMI
EM26D	EHLCKDN	ES1E	EGHQE	EV19J	EORGMJ
EM26E	EHLCKEN	ES1F	EGHQF	EV19K	EORGMK
EM26F	EHLCKIN	ES1G	EGHQG	EV19L	EORGML
EM26G	EHLCKFN	ES1H	EGHQH	EV19M	EORGMM
EM26H	EHLCKGN	ES1I	EGHQI	EV19O	EORGMO
EM26I	EHLCKHN	ES1J	EGHQJ	EV19P	EORGMP
EM27	ESMOKER	ES1K	EGHQK	EV19Q	EORGMQ
EM28	ENCIGS	ES1L	EGHQL	EV20	EORGA
EM29A	EOPHLA	ES2A	EOPFAMA	EV20A	EORGAA
EM29B	EOPHLB	ES2B	EOPFAMB	EV20B	EORGAB
EM29C	EOPHLC	ES2C	EOPFAMC	EV20C	EORGAC
EM31	EAIDHH	ES2D	EOPFAMD	EV20D	EORGAD
EM32P1	EAIDHUA	ES2E	EOPFAME	EV20E	EORGAE
EM32P2	EAIDHUB	ES2F	EOPFAMF	EV20F	EORGAF
EM32P3	EAIDHUC	ES2G	EOPFAMG	EV20G	EORGAG
EM33	EAIDXHH	ES2H	EOPFAMH	EV20H	EORGAH
EM34	ENAIDXHH	ES2I	EOPFAMI	EV20I	EORGAI
EM35	EAIDHU2	ES3A	ESSUPA	EV20J	EORGAJ
EM35	EAIDHU1	ES3B	ESSUPB	EV20K	EORGAK
EM37	EAIDHRS	ES3C	ESSUPC	EV20L	EORGAL
EM38A	EIVMA	ES3D	ESSUPD	EV20M	EORGAM
EM38B	EIVMB	ES3E	ESSUPE	EV20O	EORGAO
EM38C	EIVMC	ES4A	ESSUP1	EV20P	EORGAP
EM38D	EIVMD	ES4B	ESSUPR2R	EV20Q	EORGAQ
EM38E	EIVME	ET2B	ETELWHY	EV21	EOPRLG2
EP2B	EPRRS2I	ET45	ETLFIYRL	EV22	ECARUSE
EP2C	EPRIPN	ET50	ETLFIYR	EV23	EYPPAR
EP2D	EPRWHY	EV1A	EOPSOCA	EV24	EPYHLTH
EP3	EPPLEVR	EV1B	EOPSOCB	EV25	EPYHWRK
EP10M	EPRESBGM	EV1C	EOPSOCC	EV26	EPYSXED
EP10Y	EPRESBGY	EV1D	EOPSOCD	EV27	EPYSXAG
EP11	EPRESLY	EV1E	EOPSOCE	EV28	EPYNYP
EP23	EPRFEHQ	EV1F	EOPSOCF	EV28B1	EPYAGE1
EP25	EPRSEHQ	EV2	EVOTE1	EV28B2	EPYAGE2
EP51	EPRJBFT	EV3	EVOTE2	EV28B3	EPYAGE3
EP52M	EPRJBBGM	EV4	EVOTE3	EV28OC	EPYPNO1
EP52Y	EPRJBBGY	EV5	EVOTE4	EV28OC	EPYPNO2
EP53	EPRJBLY	EV6	EVOTE5	EV28OC	EPYPNO3
EP54	EPREARN	EV7	EVOTE7	EV29Y1	EPYWHR1
EP63A	EPRF101	EV8	EVOTE8	EV29Y2	EPYWHR2
EP63B	EPRF102	EV9	EVOTE6	EV29Y3	EPYWHR3
EP63C	EPRF116	EV10	EOPPOL1	EV30Y1	EPYMAN1
EP63D	EPRF131	EV11	EOPPOL2	EV30Y2	EPYMAN2
EP63E	EPRF134	EV12	EOPPOL3	EV30Y3	EPYMAN3
EP63F	EPRF135	EV13	EOPPOL4	EV31Y1	EPYARG1
EP63G	EPRF137	EV14	EOPCHD1	EV31Y2	EPYARG2
EP63H	EPRF139	EV15	EOPCHD2	EV31Y3	EPYARG3
EP63J	EPRF141	EV16	EOPCHD3	EV32Y	EPYTLK2
EP63NONE	EPRFIRN	EV17	EOPCHD4	EV32Y1	EPYTLK1
EP64	EPRFITB	EV18	EORGM	EV32Y3	EPYTLK3
EPI1A	EIVPA	EV19A	EORGMA	EV33Y1	EPYSMK1
EPI1B	EIVPB	EV19B	EORGM	EV33Y2	EPYSMK2

EV33Y3	EPYSMK3	EY7	EYPUTEL	EY65	EYPOPRL
EV34Y1	EPYSAD1	EY8	EYPLATE	EY66	EYPNBKS
EV34Y2	EPYSAD2	EY9	EYPARGM	EY67	EYPOPS
EV34Y3	EPYSAD3	EY10	EYPARGF	EY68	EYPPASC
EV35Y1	EPYWOR1	EY11	EYPTLKM	EY69	EYPLVSC
EV35Y2	EPYWOR2	EY12	EYPTLKF	EY70	EYPLVHM
EV35Y3	EPYWOR3	EY13	EYPTLKP	EY71	EYPAMAR
EV36AY1	EPYHSW1	EY14	EYPNPAL	EY72	EYPAPAR
EV36AY2	EPYHSW2	EY15	EYPFGHT	EY73	EYPWHRS
EV36AY3	EPYHSW3	EY16	EYPEATN	EY74	EYPPAY
EV36BY1	EPYHAP1	EY17L	EYPPKML	EY75	EYPSOC
EV36BY2	EPYHAP2	EY17P	EYPPKMP	EY76	EYPSOCY
EV36BY3	EPYHAP3	EY18	EYPBEAU	EY77	EYPJBQA
EV36CY1	EPYHFM1	EY19	EYDPKLM	EY78	EYPJBQB
EV36CY2	EPYHFM2	EY20	EYPSMEV	EY79	EYPJBQC
EV36CY3	EPYHFM3	EY21	EYPSMAG	EY80	EYPJBQD
EV36DY1	EPYHFR1	EY22	EYPSMOF	EY81	EYPJBQE
EV36DY2	EPYHFR2	EY23	EYPSMLW	EY82	EYPJBQT
EV36DY3	EPYHFR3	EY24	EYPSMYR	EY83	EYPEVNT1
EV36EY1	EPYHLF1	EY25	EYPSMPA	EY83	EYPEVNT3
EV36EY2	EPYHLF2	EY26	EYPNOSM	EY83	EYPEVNT4
EV36EY3	EPYHLF3	EY27	EYPEDSM	EY83	EYPEVNT2
EV37Y1	EPYHLT1	EY28	EYPSMOP	FD0AD	FDOID
EV37Y2	EPYHLT2	EY29	EYPDGSC	FD0AM	FDOIM
EV37Y3	EPYHLT3	EY30	EYPDGPA	FD0AY	FDOIY
EV38	EPYRA	EY31	EYPDGWH	FD0B	FIVLYR
EV39Y1	EPYSAT1	EY32	EYPDGFR	FD0C	FIVIEVR
EV39Y2	EPYSAT2	EY33	EYPDGYR	FD0D	FRACH12
EV39Y3	EPYSAT3	EY34	EYPNODG	FD1H	FIVSOIH
EV40AY1	EPYSTY1	EY35	EYPOPHD	FD1M	FIVSOIM
EV40AY2	EPYSTY2	EY36	EYPOPHA	FD2	FLKNBRD
EV40AY3	EPYSTY3	EY37	EYPOPHE	FD3	FLKMOVE
EV40B1Y1	EPYTAE1	EY38	EYPOPHC	FD4	FLKMOVY
EV40B1Y2	EPYTAE2	EY39	EYPMENU	FD5	FPLNEW
EV40B1Y3	EPYTAE3	EY40	EYPHLTA	FD6M	FPLNOWM
EV40B2Y1	EPYTAM1	EY41	EYPHLTB	FD6Y	FPLNOWY
EV40B2Y2	EPYTAM2	EY42	EYPSAD	FD7	FMOVJB
EV40B2Y3	EPYTAM3	EY43	EYPWOR	FD8A	FMOVJBA
EV40B3Y1	EPYTAS1	EY44	EYPBULL	FD8B	FMOVJBB
EV40B3Y2	EPYTAS2	EY45	EYPLONE	FD8C	FMOVJBC
EV40B3Y3	EPYTAS3	EY46	EYPESTA	FD8D	FMOVJBD
EV40C1Y1	EPYSTE1	EY47	EYPESTB	FD8E	FMOVJBE
EV40C1Y2	EPYSTE2	EY48	EYPESTC	FD8F	FMOVJBF
EV40C1Y3	EPYSTE3	EY49	EYPESTD	FD8G	FMOVJBG
EV40C2Y1	EPYSTM1	EY50	EYPESTE	FD8H	FMOVJBH
EV40C2Y2	EPYSTM2	EY51	EYPESTF	FD8I	FMOVJBI
EV40C2Y3	EPYSTM3	EY52	EYPESTG	FD9M1	FMOVY1
EV40C3Y1	EPYSTS1	EY53	EYPHSW	FD9M2	FMOVY2
EV40C3Y2	EPYSTS2	EY54	EYPHAP	FD10M	FDOBM
EV40C3Y3	EPYSTS3	EY55	EYPHFM	FD10Y	FDOBY
EV40PNO	EPYSPN1	EY56	EYPHFR	FD11	FSEX
EV40PNO	EPYSPN3	EY57	EYPHLF	FD11	FSEX
EV40PNO	EPYSPN2	EY58	EYPOPLA	FD13	FJBSTAT
EY1	EYPTVBR	EY59	EYPOPFF	FD14	FEDLYR
EY2	EYTVHRS	EY60	EYPOPFB	FD15M	FEDENDM
EY3	EYTVLMT	EY61	EYPOPLB	FD15Y	FEDENDY
EY4	EYTVSTP	EY62	EYPOPLC	FD16	FEDTYPE
EY5	EYPCOMP	EY63	EYPVTE6	FD17	FQFX
EY6	EYPPALS	EY64	EYPVTE3	FD18A	FQFXA

FD18B	.....	FQFXB	FD36I	.....	FQFI	FE9	.....	FJBSECT
FD18C	.....	FQFXC	FD36J	.....	FQFJ	FE10	.....	FJBSIZE
FD18D	.....	FQFXD	FD36K	.....	FQFK	FE11	.....	FJBMIX
FD18E	.....	FQFXE	FD36L	.....	FQFL	FE12	.....	FJBHRS
FD18F	.....	FQFXF	FD36M	.....	FQFM	FE13	.....	FJBOT
FD18G	.....	FQFXG	FD36N	.....	FQFN	FE14	.....	FJBOTPD
FD18H	.....	FQFXH	FD37	.....	FQFED	FE15	.....	FJBHRLK
FD18I	.....	FQFXI	FD38A	.....	FQFEDA	FE16	.....	FJBPL
FD18J	.....	FQFXJ	FD38B	.....	FQFEDB	FE17	.....	FJBTTWT
FD18K	.....	FQFXK	FD38C	.....	FQFEDC	FE18	.....	FJBTTWM
FD18L	.....	FQFXL	FD38D	.....	FQFEDD	FE19A	.....	FJBSAT1
FD18M	.....	FQFXM	FD38E	.....	FQFEDE	FE19B	.....	FJBSAT2
FD18N	.....	FQFXN	FD38F	.....	FQFEDF	FE19C	.....	FJBSAT3
FD19	.....	FQFEDX	FD38G	.....	FQFEDG	FE19D	.....	FJBSAT4
FD20A	.....	FQFEDXA	FD38H	.....	FQFEDH	FE19E	.....	FJBSAT5
FD20B	.....	FQFEDXB	FD38I	.....	FQFEDI	FE19F	.....	FJBSAT6
FD20C	.....	FQFEDXC	FD38J	.....	FQFEDJ	FE19G	.....	FJBSAT7
FD20D	.....	FQFEDXD	FD38K	.....	FQFEDK	FE20	.....	FJBSAT
FD20E	.....	FQFEDXE	FD38L	.....	FQFEDL	FE21	.....	FPAYGL
FD20F	.....	FQFEDXF	FD38M	.....	FQFEDM	FE22OC	.....	FPAYGW
FD20G	.....	FQFEDXG	FD38N	.....	FQFEDN	FE23	.....	FPAYNL
FD20H	.....	FQFEDXH	FD38O	.....	FQFEDO	FE24OC	.....	FPAYNW
FD20I	.....	FQFEDXI	FD38P	.....	FQFEDP	FE25	.....	FPAYSLP
FD20J	.....	FQFEDXJ	FD38Q	.....	FQFEDQ	FE27	.....	FPAYUSL
FD20K	.....	FQFEDXK	FD38R	.....	FQFEDR	FE28	.....	FPAYU
FD21A	.....	FNQFEXA	FD38S	.....	FQFEDS	FE29OC	.....	FPAYUW
FD21B	.....	FNQFEXB	FD39A	.....	FNQFEDA	FE30	.....	FPAYUG
FD21C	.....	FNQFEXC	FD39B	.....	FNQFEDB	FE31A	.....	FPAYDF1
FD21E	.....	FNQFEXE	FD39C	.....	FNQFEDC	FE31B	.....	FPAYDF2
FD21F	.....	FNQFEXF	FD39D	.....	FNQFEDD	FE31C	.....	FPAYDF3
FD21G	.....	FNQFEXG	FD39E	.....	FNQFEDE	FE31D	.....	FPAYDF4
FD21H	.....	FNQFEXH	FD39F	.....	FNQFEDF	FE31E	.....	FPAYDF5
FD21I	.....	FNQFEXI	FD39G	.....	FNQFEDG	FE31F	.....	FPAYDF6
FD21J	.....	FNQFEXJ	FD39H	.....	FNQFEDH	FE31G	.....	FPAYDF7
FD21K	.....	FNQFEXK	FD39I	.....	FNQFEDI	FE31H	.....	FPAYDF8
FD22	.....	FMLSTAT	FD39J	.....	FNQFEDJ	FE32	.....	FJBONUS
FD23	.....	FMLCHNG	FD39K	.....	FNQFEDK	FE33	.....	FJBRISE
FD24M	.....	FMLCHM	FD39L	.....	FNQFEDL	FE34	.....	FTUJBPL
FD24Y	.....	FMLCHY	FD39M	.....	FNQFEDM	FE35	.....	FTUIN1
FD25DST	...	FPLBORND	FD39N	.....	FNQFEDN	FE36	.....	FTUIN2
FD25OS	....	FPLBORNC	FD39O	.....	FNQFEDO	FE37	.....	FJBOPPS
FD26	.....	FYR2UK	FD39P	.....	FNQFEDP	FE38	.....	FJBTIME
FD28	.....	FRACE	FD39Q	.....	FNQFEDQ	FE39	.....	FJBPEN
FD30	.....	FSCEND	FD39R	.....	FNQFEDR	FE40	.....	FJBPENM
FD30NA	.....	FSCHOOL	FD39S	.....	FNQFEDS	FE42D	.....	FJBBGD
FD31	.....	FSCTYPE	FD40	.....	FBPAR16	FE42M	.....	FJBBGM
FD32	.....	FSCNOW	FD41	.....	FLVHMAG	FE42Y	.....	FJBBGY
FD33	.....	FFETYPE	FD42	.....	FWHR14	FE43	.....	FJBBGLY
FD34	.....	FFEEND	FD43	.....	FPAPERR	FE44	.....	FPAYS
FD34NA	.....	FFENOW	FD44	.....	FPAPERM	FE45C	.....	FPAYSW
FD35	.....	FQFHAS	FD45	.....	FPAPERP	FE46	.....	FPAYSG
FD36A	.....	FQFA	FE1	.....	FJBHAS	FE49	.....	FPAYLY
FD36B	.....	FQFB	FE2	.....	FJBOFF	FE50OC	.....	FPAYLYW
FD36C	.....	FQFC	FE3	.....	FJBOFFY	FE51	.....	FPAYLYG
FD36D	.....	FQFD	FE4	.....	FJBTERM	FE55	.....	FJSBOSS
FD36E	.....	FQFE	FE5	.....	FJBSOC	FE56	.....	FJSSIZE
FD36F	.....	FQFF	FE6	.....	FJBSIC	FE57	.....	FJSHRS
FD36G	.....	FQFG	FE7	.....	FJBSEMP	FE58	.....	FJSHRLK
FD36H	.....	FQFH	FE8	.....	FJBMNGR	FE59	.....	FJSTIME

FE60	FJSTYPE	FE93	FJUHRSL	FF3B08	FFR08
FE61	FJSACCS	FE94A	FEPROSG	FF3B09	FFR09
FE62	FJSPRF	FE94B	FEPROSH	FF3B10	FFR10
FE63BM	FJSPRBM	FE95	FEAAGE	FF3B11	FFR11
FE63BY	FJSPRBY	FE96A	FJBHHA	FF3B12	FFR12
FE63EM	FJSPREM	FE96B	FJBHHB	FF3B13	FFR13
FE63EY	FJSPREY	FE96C	FJBHHC	FF3B14	FFR14
FE64	FJSPAYL	FE96D	FJBHHD	FF3B15	FFR15
FE65BM	FJSPYBM	FE96E	FJBHHE	FF3B16	FFR16
FE65BY	FJSPYBY	FE96F	FJBHHF	FF3B17	FFR17
FE65EM	FJSPYEM	FE97	FJBUB	FF3BAL	FFRALL
FE65EY	FJSPYEY	FE98	FJBUBY	FF3C	FFRNOW
FE66	FJSPL	FE99	FJ2HAS	FF3D	FFRVAL
FE67	FJSTTWT	FE100	FJ2SOC	FF3EOC	FFRW
FE68	FJSTTWM	FE101	FJ2SEMP	FF3F	FFRJT
FE69A	FJSSAT1	FE102	FJ2HRS	FF3FPN	FFRJTPN
FE69B	FJSSAT2	FE103	FJ2PAY	FF3SEQ	FFISEQ
FE69C	FJSSAT3	FE104A	FIVEA	FF4	FFISIT
FE69D	FJSSAT4	FE104B	FIVEB	FF5	FFISITC
FE69E	FJSSAT5	FE104C	FIVEC	FF6	FFISITY
FE70	FJSSAT	FE104D	FIVED	FF63I	FPRF125
FE71D	FJSBGD	FE104E	FIVEE	FF7	FFISITX
FE71M	FJSBGM	FEG3	PID	FF8	FFIYRDI
FE71Y	FJSBGY	FEG4	FHGSEX	FF9	FFIYRDIU
FE72	FJBED	FEG4M	FHGMBM	FF10	FSAVE
FE73A	FJBED1	FEG4Y	FHGBY	FF11	FSAVED
FE73B	FJBED2	FEG6	FIVIOW5	FF12	FSAVEY1
FE73C	FJBED3	FEG6	FIVLYR	FF12	FSAVEY2
FE73D	FJBED4	FEG7	FIVIEVR	FF13	FPPPEN
FE73E	FJBED5	FEG8	FIVELIG	FF14	FPENB4
FE74A	FJBEDQ	FEG9	FHHMEM	FF15	FPENB4YR
FE74B	FJBEDP1	FEG9	FHHMEM	FF16	FPENB4V
FE75	FEPROSA	FEG9	FHHMEM	FF17OC	FPENB4W
FE75	FEPROSB	FEG10	FNEWHY	FF18	FPENYR
FE75	FEPROSC	FEG10	FNEWHY	FF19	FPENADD
FE75	FEPROSD	FEG10	FNEWHY	FF20	FPENADV
FE75	FEPROSE	FEG11	FLVWHY	FF21OC	FPENADW
FE75	FEPROSF	FEG12M	FLVMN	FF22	FFTEXHH
FE77M1	FJBCHC1	FEG12M	FNEMNJJN	FF23A1	FFTEXA
FE77M2	FJBCHC2	FEG12M	FNEMNJJN	FF23A2	FFTEXB
FE77M3	FJBCHC3	FEG12M	FNEMNJJN	FF23A3	FFTEXC
FE79	FXPCHCF	FEG12Y	FNEYRJJN	FF23B11	FFTEXA1
FE80	FXPCHC	FEG12Y	FLVYR	FF23B12	FFTEXB1
FE81	FHUXPCH	FEG12Y	FNEYRJJN	FF23B13	FFTEXC1
FE82	FHUNURS	FEG12Y	FNEYRJJN	FF23B21	FFTEXA2
FE83	FJULK1	FEG13	FLVLOC	FF23B22	FFTEXB2
FE84	FJULK4	FEG14	FIVFIO	FF23B23	FFTEXC2
FE85A	FJULKA	FEG15	FIVRREF	FF23B31	FFTEXA3
FE85B	FJULKB	FEG16	FIVIREIS	FF23B32	FFTEXB3
FE85C	FJULKC	FF2	FNFR	FF23B33	FFTEXC3
FE85D	FJULKD	FF2	FNF1	FF23B41	FFTEXA4
FE85E	FJULKE	FF3A	FFICODE	FF23B42	FFTEXB4
FE86	FJULKJB	FF3B01	FFR01	FF23B43	FFTEXC4
FE87	FJUBGN	FF3B02	FFR02	FF23B51	FFTEXA5
FE88	FJUSPEC	FF3B03	FFR03	FF23B52	FFTEXB5
FE89	FJUSOC	FF3B04	FFR04	FF23B53	FFTEXC5
FE90	FJUHRXS	FF3B05	FFR05	FF23B61	FFTEXA6
FE91	FJUPAYX	FF3B06	FFR06	FF23B62	FFTEXB6
FE92	FJUPAYL	FF3B07	FFR07	FF23B63	FFTEXC6

FF23C1	FFTEXAV	FF155	FF155	FH39A	FXPHSD1
FF23C2	FFTEXBV	FF156	FF156	FH39B	FXPHSD2
FF23C3	FFTEXCV	FF157	FF157	FH40	FXPHSDB
FF23DOC1	FFTEXAW	FF158	FF158	FH41A	FHSTLT
FF23DOC2	FFTEXBW	FF159	FF159	FH41A	FHSGDN
FF23DOC3	FFTEXCW	FH0AD	FHHDOI	FH41A	FHSHKCH
FF24	FSPINHH	FH0AM	FHHMOI	FH41A	FHSBTH
FF25A	FHUBUYS	FH0AY	FHHYOI	FH41B	FHSGDNS
FF25B	FHUFYRS	FH0C	FHSTYPE	FH41B	FHSTLTS
FF25C	FHUMOPS	FH1A	FHSRINS	FH41B	FHSHKCHS
FF25D	FHUIRON	FH2	FHSROOM	FH41B	FHSBTHS
FF26	FHHCH12	FH3	FHSOWND	FH42	FHEATCH
FF27	FHUSITS	FH4M1	FHSOWR1	FH43	FHEATYP
FF28	FHOWLNG	FH4M2	FHSOWR2	FH44A	FHSPRBG
FF29	FCARUSE	FH5	FHSVAL	FH44B	FHSPRBH
FF30	DFWLD	FH6	FMGHAVE	FH44C	FHSPRBI
FF31	DFWLD1	FH7	FHSOWRP	FH44D	FHSPRBJ
FF31	DFWLD2	FH8	FMGYNOT	FH44E	FHSPRBK
FF31	DFWLD3	FH9	FHSCOST	FH44F	FHSPRBL
FF31	DFWLD4	FH10	FHSYR0	FH44G	FHSPRBM
FF32A	FIVFA	FH12	FMGYR0	FH44H	FHSPRBN
FF32B	FIVFB	FH13	FMGLY	FH44I	FHSPRBO
FF32C	FIVFC	FH14	FHSIVW5	FH44J	FHSPRBP
FF32D	FIVFD	FH17	FMGOLD	FH44K	FHSPRBQ
FF32E	FIVFE	FH18	FMGLIFE	FH45	FHSTAX
FF33H	FIVFOIH	FH19	FMGTYPE	FH46	FCDHAVE
FF33M	FIVFOIM	FH20	FMGXTRA	FH47A	FCD1USE
FF34	FIVSC	FH21	FMGNEW	FH47B	FCD2USE
FF101	FF101	FH22A	FMGXTY1	FH47D	FCD4USE
FF102	FF102	FH22B	FMGXTY2	FH47F	FCD6USE
FF103	FF103	FH22C	FMGXTY3	FH47G	FCD7USE
FF104	FF104	FH22D	FMGXTY4	FH47H	FCD8USE
FF105	FF105	FH22E	FMGXTY5	FH47I	FCD9USE
FF106	FF106	FH23	FXPMG	FH48	FCDBGHT
FF116	FF116	FH24A	FXPMG1	FH49A	FCD1NEW
FF117	FF117	FH24B	FXPMG2	FH49B	FCD2NEW
FF118	FF118	FH24C	FXPMG3	FH49C	FCD10NEW
FF119	FF119	FH24D	FXPMG4	FH49C	FCD10USE
FF120	FF120	FH25	FMGTOT	FH49D	FCD11NEW
FF121	FF121	FH26	FHSJB	FH49D	FCD11USE
FF122	FF122	FH27M1	FRENTP1	FH49D	FCD4NEW
FF123	FF123	FH27M2	FRENTP2	FH49F	FCD6NEW
FF124	FF124	FH28	FRENTLL	FH49G	FCD7NEW
FF125	FF125	FH29	FRENTF	FH49H	FCD8NEW
FF131	FF131	FH31	FRENT	FH49I	FCD9NEW
FF132	FF132	FH32	FRENTW	FH49J	FCD12NEW
FF133	FF133	FH33A	FRENT1	FH49J	FCD12USE
FF135	FF135	FH33B	FRENT7	FH50	FCDNUXP
FF136	FF136	FH33C	FRENT2	FH51	FHSPC
FF137	FF137	FH33D	FRENT3	FH52	FHSWPC
FF138	FF138	FH33E	FRENT4	FH53	FPCWHEN
FF139	FF139	FH33F	FRENT5	FH54	FPCMODM
FF140	FF140	FH33G	FRENT8	FH55	FPCNET
FF141	FF141	FH33H	FRENT6	FH56	FPCUSR4
FF142	FF142	FH34	FRENTHB	FH56	FPCUSR3
FF151	FF151	FH35	FRENTG	FH56	FPCUSR5
FF152	FF152	FH36	FRENTG	FH56	FPCUSR6
FF153	FF153	FH37	FRENTGW	FH56	FPCUSR2
FF154	FF154	FH38	FXPHSDF	FH56	FPCUSR1

FH57A	FPCUSE1	FJ8M	FCJSBGM	FM5E	FHLLTE
FH57B	FPCUSE2	FJ8Y	FCJSBGY	FM6	FHLLTW
FH57C	FPCUSE3	FJ9	FNEMST	FM7	FHLENDW
FH57D	FPCUSE4	FJ10D	FCJSBGD	FM8	FHLLTWA
FH57E	FPCUSE5	FJ10M	FCJSBGM	FM9	FHL2GP
FH57F	FPCUSE6	FJ10Y	FCJSBGY	FM10	FXDTS
FH57G	FPCUSE7	FJ11	FCJSBLY	FM11	FNXDTS
FH58	FPCUSES	FJ12	FJHSTAT	FM12	FHOSP
FH59	FXPHP	FJ13D	FJHBGD	FM13	FHOSPD
FH60	FXPHPDF	FJ13M	FJHBGM	FM15	FHOSPCH
FH61A	FHSCAND	FJ13Y	FJHBGY	FM16	FHOSPNHS
FH61A	FHSCANA	FJ15	FNJBS	FM17	FHLCVR
FH61A	FHSCANC	FJ17	FJHSOC	FM18	FHLCVRH
FH61A	FHSCANB	FJ19	FJHSEMP	FM19	FHLCVRL
FH61A	FHSCANE	FJ20	FJHBOSS	FM20	FHLSV
FH61A	FHSCANF	FJ21	FJHSECT	FM21A	FHLSVA
FH61B	FHSCNTA	FJ22	FJHMNGR	FM21B	FHLSVB
FH61B	FHSCNTC	FJ24	FJHPLDF	FM21C	FHLSVC
FH61B	FHSCNTF	FJ25	FJHSIC	FM21D	FHLSVD
FH61B	FHSCNTE	FJ26	FJHSIZE	FM21E	FHLSVE
FH61B	FHSCNTD	FJ27	FJHPAYL	FM21F	FHLSVF
FH61B	FHSCNTB	FJ28OC	FJHPYLW	FM21G	FHLSVG
FH62	FXPFOOD	FJ29	FJHPYLG	FM21H	FHLSVH
FH63	FNCARS	FJ30	FJHSTPY	FM21I	FHLSVI
FH64	FCAROWN	FJ31	FJBLKY	FM21J	FHLSVL
FH65M1	FIVH1	FJ34	FJBHAD	FM21K	FHLSVM
FH65M2	FIVH2	FJ35	FJLEND	FM21L1	FHLSVJ
FH65M3	FIVH3	FJ36	FJLSOC	FM21L2	FHLSVK
FHG2	FHGR2R	FJ37	FJLSIC	FM22A	FHLSVAN
FHG3	FHGSEX	FJ38	FJLSEMP	FM22B	FHLSVBN
FHG4M	FHGBM	FJ39	FJLBOSS	FM22C	FHLSVCN
FHG4Y	FHGBY	FJ40	FJLMNGR	FM22D	FHLSVDN
FHG8	FMASTAT	FJ41	FJLSIZE	FM22E	FHLSVEN
FHG8	FMASTAT	FJ42A	FIVJA	FM22F	FHLSVFN
FHG9	FHGSPN	FJ42B	FIVJB	FM22G	FHLSVGN
FHG9	FHGSPN	FJ42C	FIVJC	FM22H	FHLSVHN
FHG10	FHGEMP	FJ42D	FIVJD	FM22I	FHLSVIN
FHG11	FHGFNO	FJ42E	FIVJE	FM22J	FHLSVLN
FHG12	FHGMNO	FM1	FHLSTAT	FM22K	FHLSVMN
FHG13	FHGRA	FM2	FHLDSBL	FM22L1	FHLSVJN
FI1	FIV1	FM3A	FHLPRBA	FM22L2	FHLSVKN
FI2	FIV2	FM3B	FHLPRBB	FM23A	FHLSVAF
FI4	FIV4	FM3C	FHLPRBC	FM23B	FHLSVBF
FI5	FIV5	FM3D	FHLPRBD	FM23C	FHLSVCF
FI6A	FIV6A	FM3E	FHLPRBE	FM23D	FHLSVDF
FI6B	FIV6B	FM3F	FHLPRBF	FM23E	FHLSVEF
FI6C	FIV6C	FM3G	FHLPRBG	FM23F	FHLSVFF
FI6D	FIV6D	FM3H	FHLPRBH	FM23G	FHLSVGF
FI6E	FIV6E	FM3I	FHLPRBI	FM23H	FHLSVHF
FI7	FIV6F	FM3J	FHLPRBJ	FM23I	FHLSVIF
FI8	FIV7	FM3K	FHLPRBK	FM23J	FHLSVLF
FJ2	FEDNEW	FM3L	FHLPRBL	FM23K	FHLSVMF
FJ3A	FEDNEW1	FM3M	FHLPRBM	FM23L1	FHLSVJF
FJ3B	FEDNEW2	FM3M0	FHLPRB	FM23L2	FHLSVKF
FJ3C	FEDNEW3	FM4	FHLLT	FM24	FHLCCK
FJ3D	FEDNEW4	FM5A	FHLLTA	FM25A	FHLCCKA
FJ4A	FEDNEWQ	FM5B	FHLLTB	FM25B	FHLCCKB
FJ4B	FEDNEWP1	FM5C	FHLLTC	FM25C	FHLCCKC
FJ8D	FCJSBGD	FM5D	FHLLTD	FM25D	FHLCCKD

FM25E	FHLCKE	FS1A	FGHQA	FV10	FVOTE10A
FM25F	FHLCKI	FS1B	FGHQB	FV12	FVOTE6
FM25G	FHLCKF	FS1C	FGHQC	FV13A	FOPISS1
FM25H	FHLCKG	FS1D	FGHQD	FV13B	FOPISS2
FM25I	FHLCKH	FS1E	FGHQE	FV13C	FOPISS3
FM26A	FHLCKAN	FS1F	FGHQF	FV13D	FOPISS4
FM26B	FHLCKBN	FS1G	FGHQG	FV13E	FOPISS5
FM26C	FHLCKCN	FS1H	FGHQH	FV14A	FLACTA
FM26D	FHLCKDN	FS1I	FGHQI	FV14B	FLACTB
FM26E	FHLCKEN	FS1J	FGHQJ	FV14C	FLACTC
FM26F	FHLCKIN	FS1K	FGHQK	FV14D	FLACTD
FM26G	FHLCKFN	FS1L	FGHQL	FV14E	FLACTE
FM26H	FHLCKGN	FS2A	FOPFAMJ	FV14F	FLACTF
FM26I	FHLCKHN	FS2B	FOPFAMK	FV14G	FLACTG
FM27	FSMOKER	FS2C	FOPFAML	FV14H	FLACTH
FM28	FNCIGS	FS2D	FOPFAMM	FV14I	FLACTI
FM30	FAIDHH	FS2E	FOPFAMN	FV14J	FLACTJ
FM31P1	FAIDHUA	FS3A	FLFSAT1	FV14K	FLACTK
FM31P2	FAIDHUB	FS3B	FLFSAT2	FV14L	FLACTL
FM31P3	FAIDHUC	FS3C	FLFSAT3	FV15	FYP PAR
FM32	FAIDXHH	FS3D	FLFSAT4	FV16	FPYHLTH
FM33	FNAIDXHH	FS3E	FLFSAT5	FV17	FPYHWRK
FM35	FAIDHU2	FS3F	FLFSAT6	FV18	FPYSXED
FM35	FAIDHU1	FS3G	FLFSAT7	FV19	FPYSXAG
FM36	FAIDHRS	FS3H	FLFSAT8	FV20	FPYNYP
FM37A	FIVMA	FS4A	FLFSATO	FV20A1	FPYPNO1
FM37B	FIVMB	FS4B	FLFSATL	FV20A2	FPYPNO2
FM37C	FIVMC	FS5A	FNETSX1	FV20A3	FPYPNO3
FM37D	FIVMD	FS5A	FNETSX2	FV20B1	FPYAGE1
FM37E	FIVME	FS5A	FNETSX3	FV20B2	FPYAGE2
FP2B	FPRRS2I	FS5B	FNET1WR	FV20B3	FPYAGE3
FP2C	FPRIPN	FS5B	FNET2WR	FV21Y1	FPYWHR1
FP2D	FPRWHY	FS5B	FNET3WR	FV21Y2	FPYWHR2
FP3	FPPLEVR	FS5C	FNET1AG	FV21Y3	FPYWHR3
FP10M	FPRESBGM	FS5C	FNET2AG	FV22Y1	FPYMAN1
FP10Y	FPRESBGY	FS5C	FNET3AG	FV22Y2	FPYMAN2
FP11	FPRESLY	FS5D	FNET1JB	FV22Y3	FPYMAN3
FP23	FPRFEHQ	FS5D	FNET2JB	FV23Y1	FPYARG1
FP25	FPRSEHQ	FS5D	FNET3JB	FV23Y2	FPYARG2
FP51	FPRJBFT	FS5E	FNET1PH	FV23Y3	FPYARG3
FP52M	FPRJBBGM	FS5E	FNET2PH	FV24Y1	FPYTLK1
FP52Y	FPRJBBGY	FS5E	FNET3PH	FV24Y2	FPYTLK2
FP53	FPRJBLY	FT2B	FTELWHY	FV24Y3	FPYTLK3
FP54	FPREARN	FT45	FTLFIYRL	FV25Y1	FPYSMK1
FP63A	FPRF101	FT50	FTLFIYR	FV25Y2	FPYSMK2
FP63B	FPRF102	FV1A	FOPPOLA	FV25Y3	FPYSMK3
FP63C	FPRF116	FV1B	FOPPOLB	FV26Y1	FPYSAD1
FP63D	FPRF131	FV1C	FOPPOLC	FV26Y2	FPYSAD2
FP63F	FPRF135	FV1D	FOPPOLD	FV26Y3	FPYSAD3
FP63G	FPRF137	FV2	FOPCLS1	FV27Y1	FPYWOR1
FP63H	FPRF139	FV3	FOPCLS2	FV27Y2	FPYWOR2
FP63J	FPRF141	FV4	FVOTE3	FV27Y3	FPYWOR3
FP63NONE	FPRFIRN	FV4	FOPCLS3	FV28AY1	FPYHSW1
FP64	FPRFITB	FV5	FVOTE1	FV28AY2	FPYHSW2
FPI1A	FIVPA	FV6	FVOTE2	FV28AY3	FPYHSW3
FPI1B	FIVPB	FV7	FVOTE4	FV28BY1	FPYHAP1
FPI1C	FIVPC	FV8	FVOTE5	FV28BY2	FPYHAP2
FPI1D	FIVPD	FV9	FVOTE9	FV28BY3	FPYHAP3
FPI1E	FIVPE	FV10	FVOTE10B	FV28CY1	FPYHFM1

FV28CY2	FPYHFM2	FY20	FYPSMEV	FY79	FYPJBQC
FV28CY3	FPYHFM3	FY21	FYPSMAG	FY80	FYPJBQD
FV28DY1	FPYHFR1	FY22	FYPSMOF	FY81	FYPJBQE
FV28DY2	FPYHFR2	FY23	FYPSMLW	FY82	FYPJBQT
FV28DY3	FPYHFR3	FY24	FYPSMYR	FY83	FYPEVNT3
FV28EY1	FPYHLF1	FY25	FYPSMPA	FY83	FYPEVNT2
FV28EY2	FPYHLF2	FY26	FYPNOSM	FY83	FYPEVNT4
FV28EY3	FPYHLF3	FY27	FYPEDSM	FY83	FYPEVNT1
FV28Y1	FPYHLT1	FY28	FYPSMOP	GD0AD	GDOID
FV29Y2	FPYHLT2	FY29	FYPDGSC	GD0AM	GDOIM
FV29Y3	FPYHLT3	FY30	FYPDGPA	GD0AY	GDOIY
FV30	FPYRA	FY31	FYPDGWH	GD0B	GIVLYR
FV31Y1	FPYSAT1	FY32	FYPDGFR	GD0C	GIVIEVR
FV31Y2	FPYSAT2	FY33	FYPDGYR	GD0D	GRACH12
FV31Y3	FPYSAT3	FY34	FYPNODG	GD1H	GIVSOIH
FV32AY1	FPYSTY1	FY35	FYPOPHD	GD1M	GIVSOIM
FV32AY2	FPYSTY2	FY36	FYPOPHA	GD2	GLKNBRD
FV32AY3	FPYSTY3	FY37	FYPOPHE	GD3	GLKMOVE
FV32B1Y1	FPYTAE1	FY38	FYPOPHC	GD4	GLKMOVY
FV32B1Y2	FPYTAE2	FY39	FYPMENU	GD5	GPLNEW
FV32B1Y3	FPYTAE3	FY40	FYPHLTA	GD6M	GPLNOWM
FV32B2Y1	FPYTAM1	FY41	FYPHLTB	GD6Y	GPLNOWY
FV32B2Y2	FPYTAM2	FY42	FYPSAD	GD7	GMOVJB
FV32B2Y3	FPYTAM3	FY43	FYPWOR	GD8A	GMOVJBA
FV32B3Y1	FPYTAS1	FY44	FYPBULL	GD8B	GMOVJBB
FV32B3Y2	FPYTAS2	FY45	FYPLONE	GD8C	GMOVJBC
FV32B3Y3	FPYTAS3	FY46	FYPESTA	GD8D	GMOVJBD
Fv32C1Y1	FPYSTE1	FY47	FYPESTB	GD8E	GMOVJBE
FV32C1Y2	FPYSTE2	FY48	FYPESTC	GD8F	GMOVJBF
FV32C1Y3	FPYSTE3	FY49	FYPESTD	GD8G	GMOVJBG
FV32C2Y1	FPYSTM1	FY50	FYPESTE	GD8H	GMOVJBH
FV32C2Y2	FPYSTM2	FY51	FYPESTF	GD8I	GMOVJBI
FV32C2Y3	FPYSTM3	FY52	FYPESTG	GD9M1	GMOVY1
FV32C3Y1	FPYSTS1	FY53	FYPHSW	GD9M2	GMOVY2
FV32C3Y2	FPYSTS2	FY54	FYPHAP	GD10M	GDOBM
FV32C3Y3	FPYSTS3	FY55	FYPHFM	GD10Y	GDOBY
FV32PNO	FPYSPN1	FY56	FYPHFR	GD11	GSEX
FV32PNO	FPYSPN2	FY57	FYPHLF	GD13M1	GCITZN1
FV32PNO	FPYSPN3	FY58	FYPOPLA	GD13M2	GCITZN2
FY1	FYPTVBR	FY59	FYPOPLB	GD14	GJBSTAT
FY2	FYTVHRS	FY60	FYPOPLC	GD15	GEDLYR
FY3	FYTVLMT	FY61	FYPOPLB	GD16M	GEDENDM
FY4	FYTVSTP	FY62	FYPOPLC	GD16Y	GEDENDY
FY5	FYPCOMP	FY63	FYPVTE6	GD17	GEDTYPE
FY6	FYPPALS	FY64	FYPVTE3	GD18	GQFX
FY7	FYPUTEL	FY65	FYPOPLR	GD19A	GQFXA
FY8	FYPLATE	FY66	FYPNBKS	GD19B	GQFXB
FY9	FYPARGM	FY67	FYPOPSC	GD19C	GQFXC
FY10	FYPARGF	FY68	FYPPASC	GD19D	GQFXD
FY11	FYPTLKM	FY69	FYPLVSC	GD19E	GQFXE
FY12	FYPTLKF	FY70	FYPLVHM	GD19F	GQFXF
FY13	FYPTLKP	FY71	FYPAMAR	GD19G	GQFXG
FY14	FYPNPAL	FY72	FYPAPAR	GD19H	GQFXH
FY15	FYPFGHT	FY73	FYPWHRS	GD19I	GQFXI
FY16	FYPEATN	FY74	FYPPAY	GD19J	GQFXJ
FY17L	FYPPKML	FY75	FYPSOC	GD19K	GQFXK
FY17P	FYPPKMP	FY76	FYPSOCY	GD19L	GQFXL
FY18	FYPBEAU	FY77	FYPJBQA	GD19M	GQFXM
FY19	FYPDKLM	FY78	FYPJBQB	GD19N	GQFXN

GD20	GQFEDX	GD40G	GQFEDG	GE2	GJBOFF
GD21A	GQFEDXA	GD40H	GQFEDH	GE3	GJBOFFY
GD21B	GQFEDXB	GD40I	GQFEDI	GE4	GJBTERM
GD21C	GQFEDXC	GD40J	GQFEDJ	GE5	GJBSOC
GD21D	GQFEDXD	GD40K	GQFEDK	GE6	GJBSIC
GD21E	GQFEDXE	GD40L	GQFEDL	GE6	GJBSIC92
GD21F	GQFEDXF	GD40M	GQFEDM	GE7	GJBSEMP
GD21G	GQFEDXG	GD40N	GQFEDN	GE8	GJBMNGR
GD21H	GQFEDXH	GD40O	GQFEDO	GE10	GJBSIZE
GD21I	GQFEDXI	GD40P	GQFEDP	GE11	GJBHRS
GD21J	GQFEDXJ	GD40Q	GQFEDQ	GE12	GJBOT
GD21K	GQFEDXK	GD40R	GQFEDR	GE13	GJBOTPD
GD22A	GNQFEXA	GD40S	GQFEDS	GE14	GJBHRLK
GD22B	GNQFEXB	GD41A	GNQFEDA	GE15	GJBPL
GD22C	GNQFEXC	GD41B	GNQFEDB	GE16	GJBTTWT
GD22E	GNQFEXE	GD41C	GNQFEDC	GE17	GJBTTWM
GD22F	GNQFEXF	GD41D	GNQFEDD	GE18A	GJBSAT1
GD22G	GNQFEXG	GD41E	GNQFEDE	GE18B	GJBSAT2
GD22H	GNQFEXH	GD41F	GNQFEDF	GE18C	GJBSAT3
GD22I	GNQFEXI	GD41G	GNQFEDG	GE18D	GJBSAT4
GD22J	GNQFEXJ	GD41H	GNQFEDH	GE18E	GJBSAT5
GD22K	GNQFEXK	GD41I	GNQFEDI	GE18F	GJBSAT6
GD23	GMLSTAT	GD41J	GNQFEDJ	GE18G	GJBSAT7
GD24	GMLCHNG	GD41K	GNQFEDK	GE19	GJBSAT
GD25M	GMLCHM	GD41L	GNQFEDL	GE20	GPAYGL
GD25Y	GMLCHY	GD41M	GNQFEDM	GE21OC	GPAYGW
GD26DST	GPLBORND	GD41N	GNQFEDN	GE22	GPAYNL
GD26OS	GPLBORNC	GD41O	GNQFEDO	GE23OC	GPAYNW
GD27	GYR2UK	GD41P	GNQFEDP	GE24	GPAYSLP
GD30	GRACE	GD41Q	GNQFEDQ	GE26	GPAYUSL
GD32NA	GSCHOOL	GD41R	GNQFEDR	GE27	GPAYU
GD32	GSCEND	GD41S	GNQFEDS	GE28OC	GPAYUW
GD33	GSCTYPE	GD42	GCRWORA	GE29	GPAYUG
GD34	GSCNOW	GD43	GCRWORB	GE30A	GPAYDF1
GD35	GFETYPE	GD44	GCRDARK	GE30B	GPAYDF2
GD36NA	GFENOW	GD45A	GCRGRAF	GE30C	GPAYDF3
GD36	GFEEND	GD45B	GCRTEEN	GE30D	GPAYDF4
GD37	GQFHAS	GD45C	GCRDRNK	GE30E	GPAYDF5
GD38A	GQFA	GD45D	GCRVAND	GE30F	GPAYDF6
GD38B	GQFB	GD45E	GCRRACE	GE30G	GPAYDF7
GD38C	GQFC	GD45F	GCRBURG	GE30H	GPAYDF8
GD38D	GQFD	GD45G	GCRCAR	GE44D	GJBBGD
GD38E	GQFE	GD45H	GCRMUGG	GE44M	GJBBGM
GD38F	GQFF	GD46	GPAPERR	GE44Y	GJBBGY
GD38G	GQFG	GD47	GPAPERM	GE45	GJBBGLY
GD38H	GQFH	GD48	GPAPERP	GE9	GJBSECT
GD38I	GQFI	GD49	GPCUSE	GE32	GJBONUS
GD38J	GQFJ	GD50A	GPCUSEA	GE32	GJBONAM
GD38K	GQFK	GD50B	GPCUSEB	GE33	GJBONG
GD38L	GQFL	GD50C	GPCUSEC	GE34	GJBRISE
GD38M	GQFM	GD50D	GPCUSED	GE35	GTUJBPL
GD38N	GQFN	GD50E	GPCUSEE	GE36	GTUIN1
GD39	GQFED	GD50F	GPCUSEF	GE37	GTUIN2
GD40A	GQFEDA	GD50G	GPCUSEG	GE38	GJBOPPS
GD40B	GQFEDB	GD50H	GPCUSEH	GE39	GJBOPCR
GD40C	GQFEDC	GD50I	GPCUSEI	GE40	GJBTIME
GD40D	GQFEDD	GD51	GPCUSEM	GE41	GJBPEN
GD40E	GQFEDE	GD52	GPCOFTN	GE42	GJBPENM
GD40F	GQFEDF	GE1	GJBHAS	GE46	GPAYS

GE47OC	GPAYSW	GE88C	GEPROSC	GEG12M	GLVMN
GE48	GPAYSG	GE88D	GEPROSD	GEG12Y	GLVYR
GE51	GPAYLY	GE88E	GEPROSE	GEG13	GLVLOC
GE52OC	GPAYLYW	GE88F	GEPROSF	GEG14	GIVFIO
GE53	GPAYLYG	GE90M1	GJBCHC1	GEG15	GIVRREF
GE57	GJSBOSS	GE90M2	GJBCHC2	GEG16	GIVIREIS
GE58	GJSSIZE	GE90M3	GJBCHC3	GF2	GNF1
GE59	GJSHRS	GE92	GXPCHCF	GF2	GNFR
GE60	GJSHRLK	GE93	GXPCHC	GF3A	GFICODE
GE61	GJSTIME	GE94	GHUXPCH	GF3BAL	GFRALL
GE62	GJSTYPEB	GE95	GHUNURS	GF3B01	GFR01
GE63	GJSACCS	GE96	GJULK1	GF3B02	GFR02
GE64	GJSPART	GE97	GJULK4	GF3B03	GFR03
GE65BM	GJSPRBM	GE98A	GJULKA	GF3B04	GFR04
GE65BY	GJSPRBY	GE98B	GJULKB	GF3B05	GFR05
GE65EM	GJSPREM	GE98C	GJULKC	GF3B06	GFR06
GE65EY	GJSPREY	GE98D	GJULKD	GF3B07	GFR07
GE66	GJSPRF	GE98E	GJULKE	GF3B08	GFR08
GE67	GJSPRLS	GE99	GJULKJB	GF3B09	GFR09
GE68	GJSPRTX	GE100	GJUBGN	GF3B10	GFR10
GE69	GJSPRNI	GE101	GJUSPEC	GF3B11	GFR11
GE70BM	GJSPRBM	GE102	GJUSOC	GF3B12	GFR12
GE70BY	GJSPRBY	GE103	GJUHRX	GF3B13	GFR13
GE70EM	GJSPREM	GE104	GJUPAYX	GF3B14	GFR14
GE70EY	GJSPREY	GE105	GJUPAYL	GF3B15	GFR15
GE71	GJSPRF	GE106	GJUHRSL	GF3B16	GFR16
GE72	GJSPRLS	GE107A	GEPROSG	GF3B17	GFR17
GE73	GJSPRTX	GE107B	GEPROSH	GF3C	GFRNOW
GE74	GJSPRNI	GE108	GEAAGE	GF3D	GFRVAL
GE71	GJSPRF	GE109A	GJBHHA	GF3EOC	GFRW
GE72	GJSPRLS	GE109B	GJBHHB	GF3F	GFRJT
GE73	GJSPRTX	GE109C	GJBHHC	GF3FPN	GFRJTPN
GE74	GJSPRNI	GE109D	GJBHHD	GF3SEQ	GFISEQ
GE75	GJSPAYU	GE109E	GJBHHE	GF4	GFISIT
GE76	GJSPAYW	GE109F	GJBHHF	GF5	GFISITC
GE77	GJSPYTX	GE110	GJBUB	GF6	GFISITY
GE78	GJSPYNI	GE111	GJBUBY	GF7	GFISITX
GE79	GJSPL	GE112	GJ2HAS	GF8	GFIYRDI
GE80	GJSTTWT	GE113	GJ2SOC	GF9	GFIYRDIU
GE81	GJSTTWM	GE114	GJ2SEMP	GF10	GSAVE
GE82A	GJSSAT1	GE115	GJ2HRS	GF11	GSAVED
GE82B	GJSSAT2	GE116	GJ2PAY	GF12	GSAVEY1
GE82C	GJSSAT3	GE117A	GIVEA	GF12	GSAVEY2
GE82D	GJSSAT4	GE117B	GIVEB	GF13	GPPPEN
GE82E	GJSSAT5	GE117C	GIVEC	GF14	GPENB4
GE83	GJSSAT	GE117D	GIVED	GF15	GPENB4YR
GE84D	GJSBGD	GE117E	GIVEE	GF16	GPENB4V
GE84M	GJSBGM	GEG3	PID	GF17OC	GPENB4W
GE84Y	GJSBGY	GEG4	GHGSEX	GF18	GPENYR
GE85	GJBED	GEG4M	GHGBM	GF19	GPENADD
GE86A	GJBED1	GEG4Y	GHGBY	GF20	GPENADV
GE86B	GJBED2	GEG6	GIVIOW6	GF21OC	GPENADW
GE86C	GJBED3	GEG7	GIVIEVR	GF22	GWINDF
GE86D	GJBED4	GEG8	GIVELIG	GF23A	GWINDFA
GE86E	GJBED5	GEG9	GHHMEM	GF23B	GWINDFB
GE87A	GJBEDQ	GEG10	GNEWHY	GF23C	GWINDFC
GE87B	GJBEDP1	GEG12M	GNEMNJJN	GF23D	GWINDFD
GE88A	GEPROSA	GEG12Y	GNEYRJN	GF23F	GWINDFF
GE88B	GEPROSB	GEG11	GLVWHY	GF23G	GWINDFG

GF23H	GWINDFH	GF41B	GIVFB	GH13	GMGLY
GF23I	GWINDFI	GF41C	GIVFC	GH14	GHSIVW6
GF24A	GWINDFAY	GF41D	GIVFD	GH17	GMGOLD
GF24B	GWINDFBY	GF41E	GIVFE	GH18	GMGLIFE
GF24C	GWINDFCY	GF42H	GIVFOIH	GH19	GMGTYPE
GF24D	GWINDFDY	GF42M	GIVFOIM	GH20	GMGXTRA
GF24F	GWINDFFY	GF43	GIVSC	GH21	GMGNEW
GF24G	GWINDFGY	GF38	GCARUSE	GH22A	GMGXTY1
GF24H	GWINDFHY	GF101	GF101	GH22B	GMGXTY2
GF24I	GWINDFIY	GF102	GF102	GH22C	GMGXTY3
GF25	GBSCON	GF103	GF103	GH22D	GMGXTY4
GF26	GBSCNSP	GF104	GF104	GH22E	GMGXTY5
GF27M1	GBSCNSP1	GF105	GF105	GH23	GXPMG
GF27M2	GBSCNSP2	GF106	GF106	GH24A	GXPMG1
GF28A	GXPMEAL	GF116	GF116	GH24B	GXPMG2
GF28B	GXPLEIS	GF118	GF118	GH24C	GXPMG3
GF29	GFTEXHH	GF119	GF119	GH24D	GXPMG4
GF30A1	GFTEXA	GF120	GF120	GH25	GHSJB
GF30A2	GFTEXB	GF121	GF121	GH26M1	GREntp1
GF30A3	GFTEXC	GF122	GF122	GH26M2	GREntp2
GF30B11	GFTEXA1	GF123	GF123	GH27	GREntll
GF30B12	GFTEXB1	GF124	GF124	GH28	GREntf
GF30B13	GFTEXC1	GF125	GF125	GH30	GREnt
GF30B21	GFTEXA2	GF131	GF131	GH31	GREntw
GF30B22	GFTEXB2	GF132	GF132	GH32A	GREnt1
GF30B23	GFTEXC2	GF133	GF133	GH32C	GREnt2
GF30B31	GFTEXA3	GF142	GF142	GH32D	GREnt3
GF30B32	GFTEXB3	GF135	GF135	GH32E	GREnt4
GF30B33	GFTEXC3	GF136	GF136	GH32F	GREnt5
GF30B41	GFTEXA4	GF137	GF137	GH32H	GREnt6
GF30B42	GFTEXB4	GF138	GF138	GH32B	GREnt7
GF30B43	GFTEXC4	GF139	GF139	GH32G	GREnt8
GF30B51	GFTEXA5	GF140	GF140	GH33	GREnthb
GF30B52	GFTEXB5	GF141	GF141	GH34	GREntg
GF30B53	GFTEXC5	GF151	GF151	GH35	GREntg
GF30B61	GFTEXA6	GF152	GF152	GH36	GREntgw
GF30B62	GFTEXB6	GF153	GF153	GH37	GXPHSDF
GF30B63	GFTEXC6	GF154	GF154	GH38A	GXPHSD1
GF30C1	GFTEXAV	GF155	GF155	GH38B	GXPHSD2
GF30C2	GFTEXBV	GF156	GF156	GH39	GXPHSDB
GF30C3	GFTEXCV	GF157	GF157	GH40A	GHSKCH
GF30DOC1	GFTEXAW	GF158	GF158	GH40B	GHSKCHS
GF30DOC2	GFTEXBW	GF159	GF159	GH40A	GHSBTH
GF30DOC3	GFTEXCW	GH0AD	GHHDOI	GH40B	GHSBTHS
GF31	GSPINHH	GH0AM	GHHMOI	GH40A	GHSTLT
GF32A	GHUBUYS	GH0AY	GHHYOI	GH40B	GHSTLTS
GF32B	GHUFRYS	GH0C	GHSTYPE	GH40A	GHSGDN
GF32C	GHUMOPS	GH1A	GHSRINS	GH40B	GHSGDNS
GF32D	GHUIRON	GH2	GHSROOM	GH41	GHEATCH
GF33	GFAIR1	GH3	GHSOWND	GH42	GHEATYP
GF34	GHHCH12	GH4M1	GHSOWR1	GH43A	GXPGASY
GF35	GHUSITS	GH4M2	GHSOWR2	GH43B	GXPLECY
GF36	GFAIR2	GH5	GHSVAL	GH43C	GXPOILY
GF37	GHOWLNG	GH6	GMGHAVE	GH43D	GXPSFLY
GF40	GQALLIF1	GH7	GHSOWRP	GH44A	GHSPRBG
GF40	GQALLIF2	GH8	GMGYNOT	GH44B	GHSPRBH
GF40	GQALLIF3	GH9	GHSCOST	GH44C	GHSPRBI
GF40	GQALLIF4	GH10	GHSYR0	GH44D	GHSPRBJ
GF41A	GIVFA	GH12	GMGYR0	GH44E	GHSPRBK

GH44F	GHSPRBL	GH58D	GHSCNTD	GJ27	GJHPAYL
GH44G	GHSPRBM	GH58E	GHSCNTE	GJ28OC	GJHPYLW
GH44H	GHSPRBN	GH58F	GHSCNTF	GJ29	GJHPYLG
GH44I	GHSPRBO	GH59	GXPFOOD	GJ30	GJHSTPY
GH44J	GHSPRBP	GH60	GNCARS	GJ31	GJBLKY
GH44K	GHSPRBQ	GH61	GCAROWN	GJ34	GJBHAD
GH45	GHSTAX	GH62	GCARVAL	GJ35	GJLEND
GH46	GHS2OWND	GH63M1	GIVH1	GJ36	GJLSOC
GH47	GHS2VAL	GH63M2	GIVH2	GJ37	GJLSIC
GH49	GMGTOT	GH63M3	GIVH3	GJ38	GJLSEMP
GH50	GCDHAVE	GHG2	GHGR2R	GJ39	GJLBOSS
GH52	GCDBGHT	GHG3	GHSSEX	GJ40	GJLMNGR
GH51A	GCD1USE	GHG4M	GHGBM	GJ41	GJLSIZE
GH51B	GCD2USE	GHG4Y	GHGBY	GJ42A	GIVJA
GH51C	GCD10USE	GHG8	GMASTAT	GJ42B	GIVJB
GH51D	GCD11USE	GHG9	GHGSPN	GJ42C	GIVJC
GH51E	GCD3USE	GHG10	GHGEMP	GJ42D	GIVJD
GH51F	GCD4USE	GHG11	GHGFNO	GJ42E	GIVJE
GH51G	GCD5USE	GHG12	GHGMNO	GM1	GHLSTAT
GH51H	GCD6USE	GHG13	GHGRA	GM2	GHLDSBL
GH51I	GCD7USE	GI1	GIV1	GM3M0	GHLPRB
GH51J	GCD8USE	GI2	GIV2	GM3A	GHLPRBA
GH51K	GCD9USE	GI4	GIV4	GM3B	GHLPRBB
GH51L	GCD12USE	GI5	GIV5	GM3C	GHLPRBC
GH53A	GCD1NEW	GI6A	GIV6A	GM3D	GHLPRBD
GH53B	GCD2NEW	GI6B	GIV6B	GM3E	GHLPRBE
GH53C	GCD10NEW	GI6C	GIV6C	GM3F	GHLPRBF
GH53D	GCD11NEW	GI6D	GIV6D	GM3G	GHLPRBG
GH53E	GCD3NEW	GI6E	GIV6E	GM3H	GHLPRBH
GH53F	GCD4NEW	GI7	GIV6F	GM3I	GHLPRBI
GH53G	GCD5NEW	GI8	GIV7	GM3J	GHLPRBJ
GH53H	GCD6NEW	GJ2	GEDNEW	GM3K	GHLPRBK
GH53I	GCD7NEW	GJ3A	GEDNEW1	GM3L	GHLPRBL
GH53J	GCD8NEW	GJ3B	GEDNEW2	GM3M	GHLPRBM
GH53K	GCD9NEW	GJ3C	GEDNEW3	GM4	GHLLT
GH53L	GCD12NEW	GJ3D	GEDNEW4	GM5A	GHLLTA
GH54A	GCD1CST	GJ4A	GEDNEWQ	GM5B	GHLLTB
GH54B	GCD2CST	GJ4B	GEDNEWP1	GM5C	GHLLTC
GH54E	GCD3CST	GJ8D	GCJSBGD	GM5D	GHLLTD
GH54F	GCD4CST	GJ8M	GCJSBGM	GM5E	GHLLTE
GH54G	GCD5CST	GJ8Y	GCJSBGY	GM6	GHLLTW
GH54H	GCD6CST	GJ9	GNEMST	GM7	GHLENDW
GH54I	GCD7CST	GJ10D	GCJSBGD	GM8	GHLLTWA
GH54J	GCD8CST	GJ10M	GCJSBGM	GM9	GHLIV65
GH54K	GCD9CST	GJ10Y	GCJSBGY	GM10A	GADLA
GH54C	GCD10CST	GJ11	GCJSBLY	GM10B	GADLAD
GH54D	GCD11CST	GJ12	GJHSTAT	GM11A	GADLB
GH54L	GCD12CST	GJ13D	GJHBGD	GM11B	GADLBD
GH55	GXPHP	GJ13M	GJHBGM	GM12A	GADLC
GH56	GXPHPDF	GJ13Y	GJHBGY	GM12B	GADLCD
GH57A	GHSCANA	GJ15	GNJBS	GM13A	GADLD
GH57B	GHSCANB	GJ17	GJHSOC	GM13B	GADLDD
GH57C	GHSCANC	GJ19	GJHSEMP	GM14A	GADLE
GH57D	GHSCAND	GJ20	GJHBOSS	GM14B	GADLED
GH57E	GHSCANE	GJ21	GJHSECT	GM15A	GADLF
GH57F	GHSCANF	GJ22	GJHMNGR	GM15B	GADLFD
GH58A	GHSCNTA	GJ24	GJHPLDF	GM16	GHL2GP
GH58B	GHSCNTB	GJ25	GJHSIC	GM17	GHL2HOP
GH58C	GHSCNTC	GJ26	GJHSIZE	GM18	GXDT5

GM19	GNXDTS	GM34B	GHLCKBN	GS1C	GGHQ C
GM20	GHOSP	GM34C	GHLCKCN	GS1D	GGHQ D
GM21	GHOSPD	GM34D	GHLCKDN	GS1E	GGHQ E
GM23	GHOSPCH	GM34E	GHLCKEN	GS1F	GGHQ F
GM24	GHOSPNHS	GM34F	GHLCKIN	GS1G	GGHQ G
GM25	GHL CVR	GM34G	GHLCKFN	GS1H	GGHQ H
GM26	GHL CVRH	GM34H	GHLCKGN	GS1I	GGHQ I
GM27	GHL CVRL	GM34I	GHLCKHN	GS1J	GGHQ J
GM28	GHL SV	GM35	GSMOKER	GS1K	GGHQ K
GM29A	GHL SVA	GM36	GNCIGS	GS1L	GGHQ L
GM29B	GHL SVB	GM37A	GOPHLA	GS2A	GOPFAMA
GM29C	GHL SVC	GM37B	GOPHLB	GS2B	GOPFAMB
GM29D	GHL SVD	GM37C	GOPHLC	GS2C	GOPFAMC
GM29E	GHL SVE	GM39	GAIDHH	GS2D	GOPFAMD
GM29F	GHL SVF	GM40P1	GAIDHUA	GS2E	GOPFAME
GM29G	GHL SVG	GM40P2	GAIDHUB	GS2F	GOPFAMF
GM29H	GHL SVH	GM40P3	GAIDHUC	GS2G	GOPFAMG
GM29I	GHL SVI	GM41	GAIDXHH	GS2H	GOPFAMH
GM29L1	GHL SVJ	GM42	GNAIDXHH	GS2I	GOPFAMI
GM29L2	GHL SVK	GM43M1	GAIDHU1	GS3A	GLFSAT1
GM29J	GHL SVL	GM43M2	GAIDHU2	GS3B	GLFSAT2
GM29K	GHL SVM	GM45	GAIDHRS	GS3C	GLFSAT3
GM30A	GHL SVAN	GM46A	GIVMA	GS3D	GLFSAT4
GM30B	GHL SVBN	GM46B	GIVMB	GS3E	GLFSAT5
GM30C	GHL SVCN	GM46C	GIVMC	GS3F	GLFSAT6
GM30D	GHL SVDN	GM46D	GIVMD	GS3G	GLFSAT7
GM30E	GHL SVEN	GM46E	GIVME	GS3H	GLFSAT8
GM30F	GHL SVFN	GP2B	GPRRS2I	GS4A	GLFSATO
GM30G	GHL SVGN	GP2C	GPRIPN	GS4B	GLFSATL
GM30H	GHL SVHN	GP2D	GPRWHY	GS5A	GXSUPA
GM30I	GHL SVIN	GP3	GPPLEVR	GS5B	GXSUPB
GM30L1	GHL SVJN	GP10M	GPRESBGM	GS5C	GXSUPC
GM30L2	GHL SVKN	GP10Y	GPRESBGY	GS6A	GSSUPA
GM30J	GHL SVLN	GP11	GPRESLY	GS6B	GSSUPB
GM30K	GHL SVMN	GP23	GPRFEHQ	GS6C	GSSUPC
GM31A	GHL SVAF	GP25	GPRSEHQ	GS6D	GSSUPD
GM31B	GHL SVBF	GP58	GPRJBFT	GS6E	GSSUPE
GM31C	GHL SVCF	GP59M	GPRJBBGM	GS7A	GSSUP1
GM31D	GHL SVDF	GP59Y	GPRJBBGY	GS7B	GSSUPR2R
GM31E	GHL SVEF	GP60	GPRJBLY	GT2B	GTELWHY
GM31F	GHL SVFF	GP61	GPREARN	GT45	GTLFIYRL
GM31G	GHL SVGF	GP70A	GPRF101	GT50	GTLFIYR
GM31H	GHL SVHF	GP70B	GPRF102	GV1A	GOPSOCA
GM31I	GHL SVIF	GP70C	GPRF116	GV1B	GOPSO CB
GM31L1	GHL SVJF	GF70I	GPRF125	GV1C	GOPSO CC
GM31L2	GHL SVKF	GP70D	GPRF131	GV1D	GOPSO CD
GM31J	GHL SVLF	GP70F	GPRF135	GV1E	GOPSO CE
GM31K	GHL SVMF	GP70G	GPRF137	GV1F	GOPSO CF
GM32	GHLCK	GP70H	GPRF139	GV2	GVOTE1
GM33A	GHLCKA	GP70J	GPRF141	GV3	GVOTE2
GM33B	GHLCKB	GP70NONE	GPRFIRN	GV4	GVOTE3
GM33C	GHLCKC	GP71	GPRFITB	GV5	GVOTE4
GM33D	GHLCKD	GPI1A	GIVPA	GV6	GVOTE5
GM33E	GHLCKE	GPI1B	GIVPB	GV7	GVOTE7
GM33G	GHLCKF	GPI1C	GIVPC	GV8	GVOTE8
GM33H	GHLCKG	GPI1D	GIVPD	GV9	GORGM
GM33I	GHLCKH	GPI1E	GIVPE	GV10A	GORGMA
GM33F	GHLCKI	GS1A	GGHQA	GV10B	GORGMB
GM34A	GHLCKAN	GS1B	GGHQB	GV10C	GORGMC

GV10D	GORGMD	GV28Y1	GPYSMK1	GY50	GYPHFM
GV10E	GORGME	GV28Y2	GPYSMK2	GY51	GYPHFR
GV10F	GORGMF	GV28Y3	GPYSMK3	GY52	GYPHLF
GV10G	GORGMG	GV29Y1	GPYSAD1	GY53	GYPCOMA
GV10H	GORGMH	GV29Y2	GPYSAD2	GY54	GYPCOMB
GV10I	GORGMI	GV29Y3	GPYSAD3	GY55	GYPCOMC
GV10J	GORGMJ	GV30Y1	GPYWOR1	GY56	GYPCOMD
GV10K	GORGMK	GV30Y2	GPYWOR2	GY57	GYPCOME
GV10L	GORGML	GV30Y3	GPYWOR3	GY58	GYPCOMF
GV10M	GORGMM	GY1	GYTVHRS	GY59	GYPCOMG
GV10O	GORGMO	GY2	GYTVSTP	GY60	GYPOLPA
GV10P	GORGMP	GY3	GYPFPC	GY61	GYPOPHA
GV10Q	GORGMP	GY4	GYPFPCGM	GY62	GYPOPPL
GV11A	GORGAA	GY5	GYPFALS	GY63	GYPOPSCB
GV11B	GORGAB	GY6	GYPFTEL	GY64	GYPVTE6
GV11C	GORGAC	GY7	GYPFPLATE	GY65	GYPVTE3
GV11D	GORGAD	GY8	GYPFPARK	GY66	GYPFWRRA
GV11E	GORGAE	GY9	GYPFBEAU	GY67	GYPFWRB
GV11F	GORGAF	GY10	GYPFCLUB	GY68	GYPFEXPL
GV11G	GORGAG	GY11	GYPFDISC	GY69	GYPFVAND
GV11H	GORGAG	GY12	GYPFSPOR	GY70	GYPFTRUN
GV11I	GORGAI	GY13	GYPFARCA	GY71	GYPFOPSC
GV11J	GORGAI	GY14	GYPFARGM	GY72	GYPFPASC
GV11K	GORGAK	GY15	GYPFARGF	GY73	GYPFLVSC
GV11L	GORGAL	GY16	GYPFTLKM	GY74	GYPFLVHM
GV11M	GORGAM	GY17	GYPFTLKF	GY75	GYPFAMAR
GV11O	GORGAO	GY18	GYPFPAL	GY76	GYPFAPAR
GV11P	GORGAP	GY19	GYPFGANG	GY77	GYPFWHRS
GV11Q	GORGAP	GY20	GYPFMKFRN	GY78	GYPFPAY
GV11	GORGA	GY21	GYPFGHT	GY80	GYPFSOC
GV12	GFRNA	GY22	GYPPEATN	GY81	GYPFSOCY
GV13	GFRNB	GY23	GYPFSAVE	GY82	GYPFDLFA
GV14	GFRNC	GY24L	GYPFPKML	GY82	GYPFDLFB
GV15	GFRND	GY24P	GYPFPKMP	HD0AD	HD0ID
GV16	GFRNE	GY25	GYPFBEAU	HD0AM	HD0IM
GV17	GOPRLG1	GY26	GYPFDKLM	HD0AY	HD0IY4
GV18	GOPRLG2	GY27	GYPFSMEV	HD0BA	HD0LYR
GV19	GOPRLG3	GY28	GYPFSMAG	HD0BB	HD0STAT2
GV20	GYPFPAR	GY29	GYPFSMOF	HD0D	HD0RACH12
GV21	GPYHLTH	GY30	GPYFSLMW	HD1H	HD1HIVSOIH
GV22	GPYHWK	GY31	GPYFSMYR	HD1M	HD1HIVSOIM
GV23	GPYNYP	GY32	GPYFDGFR	HD2	HD2HLKNBRD
GV23A1	GPYFNO1	GY33	GPYFSAD	HD3	HD3HLKMOVE
GV23A2	GPYFNO2	GY34	GPYFWOR	HD4	HD4HLKMOVY
GV23A3	GPYFNO3	GY35	GPYFBULL	HD5	HD5HXPMOVE
GV23B1	GPYFAGE1	GY36	GPYFLONE	HD6	HD6HPLNEW
GV23B2	GPYFAGE2	GY37	GPYFBORED	HD7M	HD7HPLNOWM
GV23B3	GPYFAGE3	GY38	GPYFPESTA	HD7Y	HD7HPLNOWY4
GV24Y1	GPYFWHR1	GY39	GPYFPESTB	HD8	HD8HMOVJB
GV24Y2	GPYFWHR2	GY40	GPYFPESTC	HD9A	HD9HMOVJBA
GV25Y1	GPYFMAN1	GY41	GPYFPESTE	HD9B	HD9HMOVJBB
GV25Y2	GPYFMAN2	GY42	GPYFPESTF	HD9C	HD9HMOVJBC
GV25Y3	GPYFMAN3	GY43	GPYFPESTH	HD9D	HD9HMOVJBD
GV26Y1	GPYFARG1	GY44	GPYFPTCHA	HD9E	HD9HMOVJBE
GV26Y2	GPYFARG2	GY45	GPYFPTCHB	HD9F	HD9HMOVJBF
GV26Y3	GPYFARG3	GY46	GPYFPTCHC	HD9G	HD9HMOVJBG
GV27Y1	GPYFTLK1	GY47	GPYFPESTG	HD9H	HD9HMOVJBH
GV27Y2	GPYFTLK2	GY48	GPYFPHSW	HD9I	HD9HMOVJBI
GV27Y3	GPYFTLK3	GY49	GPYFHAP	HD10M2	HD10HMOVY2

HD11	HSEX	HD25C1	HEDQLC1	HD51Y	HCOH1EY
HD11M	HDOBM	HD25C1	HEDQLCN1	HD52	HNMAR
HD11Y	HDOBY	HD25C2	HEDQLC2	HD53M	HLMAR1M
HD12	HSEX	HD25D1	HEDQLD1	HD53Y	HLMAR1Y
HD14	HMLSTAT	HD25D1	HEDQLDN1	HD54	HLPRNT
HD15	HMLCHNG	HD25D2	HEDQLD2	HD55	HLNPRNT
HD16M	HEDENDM	HD25E1	HEDQLE1	HD56M	HCH1BM
HD16M	HMLCHM	HD25E1	HEDQLEN1	HD56Y	HCH1BY
HD16Y	HEDENDY	HD25E2	HEDQLE2	HD58	HSCEND
HD16Y	HMLCHY4	HD25F1	HEDQLF1	HD58NA	HSCHOOL
HD17	HEDTYPE	HD25F1	HEDQLFN1	HD59	HSCTYPE
HD17	HJBSTAT	HD25F2	HEDQLF2	HD60	HSCNOW
HD18	HEDLYR	HD25G1	HEDQLG1	HD61	HFETYPE
HD19	HEDTYPE1	HD25G1	HEDQLGN1	HD62	HFEEND
HD19	HEDTYPE2	HD25G2	HEDQLG2	HD62NA	HFENOW
HD20	HEDBLYR1	HD25H1	HEDQLH1	HD63	HQFHAS
HD20	HEDBLYR2	HD25H1	HEDQLHN1	HD64A	HQFA
HD21M	HEDBGM1	HD25H2	HEDQLH2	HD64B	HQFB
HD21M2	HEDBGM2	HD25I1	HEDQLI1	HD64C	HQFC
HD21Y	HEDBGY1	HD25I1	HEDQLIN1	HD64D	HQFD
HD21Y2	HEDBGY2	HD25I2	HEDQLI2	HD64E	HQFE
HD22	HEDENNE1	HD25J1	HEDQLJ1	HD64F	HQFF
HD22M	HEDENM1	HD25J1	HEDQLJN1	HD64G	HQFG
HD22M2	HEDENM2	HD25J2	HEDQLJ2	HD64H	HQFH
HD22NE2	HEDENNE2	HD25NA	HEDQNN2	HD64I	HQFI
HD22Y	HEDENY1	HD25NONE	HEDQNN1	HD64J	HQFJ
HD22Y2	HEDENY2	HD26	HEDOQL1	HD64K	HQFK
HD23A	HEDFEEA1	HD26	HEDOQL2	HD64L	HQFL
HD23A	HEDFEEA2	HD26NONE	HEDOQLN1	HD64M	HQFM
HD23B	HEDFEEB1	HD26NONE	HEDOQLN2	HD64N	HQFN
HD23B	HEDFEEB2	HD27	HEDMORE1	HD65	HQFED
HD23C	HEDFEEC1	HD27	HEDMORE2	HD66A	HQFEDA
HD23C	HEDFEEC2	HD29DST	HPLBORND	HD66B	HQFEDB
HD23D	HEDFEED1	HD29OS	HPLBORNC	HD66C	HQFEDC
HD23D	HEDFEED2	HD30	HYR2UK4	HD66D	HQFEDD
HD23E	HEDFEEE1	HD31	HMLSTAT	HD66E	HQFEDE
HD23E	HEDFEEE2	HD32M1	HCITZN1	HD66F	HQFEDF
HD23F	HEDFEEF1	HD32M2	HCITZN2	HD66G	HQFEDG
HD23F	HEDFEEF2	HD33	HRACE	HD66H	HQFEDH
HD23G	HEDFEEG1	HD36	HPASOC	HD66I	HQFEDI
HD23G	HEDFEEG2	HD36ANA	HPAJU	HD66J	HQFEDJ
HD24	HEDQUAL1	HD37	HPASEMP	HD66K	HQFEDK
HD24	HEDQUAL2	HD38	HPABOSS	HD66L	HQFEDL
HD25A1	HEDQLA1	HD39	HPAMNGR	HD66M	HQFEDM
HD25A1	HEDQLAN1	HD40	HMAJU	HD66N	HQFEDN
HD25A2	HEDQLA2	HD40	HMASOC	HD66O	HQFEDO
HD25A2	HEDQLAN2	HD41	HMASEMP	HD66P	HQFEDP
HD25A2	HEDQLBN2	HD42	HMABOSS	HD66Q	HQFEDQ
HD25A2	HEDQLCN2	HD43	HMAMNGR	HD66R	HQFEDR
HD25A2	HEDQLDN2	HD44	HJ1SOC	HD66S	HQFEDS
HD25A2	HEDQLEN2	HD44NA	HJ1NONE	HD67A	HNQFEDA
HD25A2	HEDQLFN2	HD45	HJ1SEMP	HD67B	HNQFEDB
HD25A2	HEDQLGN2	HD46	HJ1BOSS	HD67C	HNQFEDC
HD25A2	HEDQLHN2	HD47	HJ1MNGR	HD67D	HNQFEDD
HD25A2	HEDQLIN2	HD48	HLCOH	HD67E	HNQFEDE
HD25A2	HEDQLJN2	HD49M	HCOH1BM	HD67F	HNQFEDF
HD25B1	HEDQLB1	HD49Y	HCOH1BY	HD67G	HNQFEDG
HD25B1	HEDQLBN1	HD50	HCOH1MR	HD67H	HNQFEDH
HD25B2	HEDQLB2	HD51M	HCOH1EM	HD67I	HNQFEDI

HD67J	HNQFEDJ	HD75	HTRQLAC3	HD76J3	HTRQLJ3
HD67K	HNQFEDK	HD75NONE	HTRQLNN1	HD76JN1	HTRQLJN1
HD67L	HNQFEDL	HD75NONE	HTRQLNN2	HD76JN2	HTRQLJN2
HD67M	HNQFEDM	HD76A1	HTRQLA1	HD76JN3	HTRQLJN3
HD67N	HNQFEDN	HD76A2	HTRQLA2	HD76NONE	HTRQLNN3
HD67O	HNQFEDO	HD76A3	HTRQLA3	HD77	HTROQL1
HD67P	HNQFEDP	HD76AN1	HTRQLAN1	HD77	HTROQL2
HD67Q	HNQFEDQ	HD76AN2	HTRQLAN2	HD77	HTROQL3
HD67R	HNQFEDR	HD76AN3	HTRQLAN3	HD77	HTROQLN3
HD67S	HNQFEDS	HD76B1	HTRQLB1	HD77NONE	HTROQLN1
HD68	HTRAIN	HD76B2	HTRQLB2	HD77NONE	HTROQLN2
HD69	HNTRAIN	HD76B3	HTRQLB3	HD78	HTRMORE1
HD70	HTRPLCE1	HD76BN1	HTRQLBN1	HD78	HTRMORE2
HD70	HTRPLCE2	HD76BN2	HTRQLBN2	HD78	HTRMORE3
HD70	HTRPLCE3	HD76BN3	HTRQLBN3	HD79	HIVLPAR
HD71A	HTRWHYA2	HD76C1	HTRQLC1	HD80	HNRPART
HD71A1	HTRWHYA1	HD76C2	HTRQLC2	HD81	HNRPTIM
HD71A3	HTRWHYA3	HD76C3	HTRQLC3	HD82	HNRXPM1
HD71B	HTRWHYB2	HD76CN1	HTRQLCN1	HD83	HNRXPM2
HD71B1	HTRWHYB1	HD76CN2	HTRQLCN2	HD84	HCOHADV
HD71B3	HTRWHYB3	HD76CN3	HTRQLCN3	HD85	HCOHAD1
HD71C	HTRWHYC2	HD76D1	HTRQLD1	HD85	HCOHAD2
HD71C1	HTRWHYC1	HD76D2	HTRQLD2	HD86	HCOHDIS
HD71C3	HTRWHYC3	HD76D3	HTRQLD3	HD87	HCOHDS1
HD71D	HTRWHYD2	HD76DN1	HTRQLDN1	HD87	HCOHDS2
HD71D1	HTRWHYD1	HD76DN2	HTRQLDN2	HD88	HCOHXP1
HD71D3	HTRWHYD3	HD76DN3	HTRQLDN3	HD89	HCOHXP2
HD71E	HTRWHYE2	HD76E1	HTRQLE1	HD90	HIVLPARY
HD71E1	HTRWHYE1	HD76E2	HTRQLE2	HD91	HCOHLYR
HD71E3	HTRWHYE3	HD76E3	HTRQLE3	HD92M1	HCOHLM1
HD72	HTRQ1	HD76EN1	HTRQLEN1	HD92M1	HCOHLBY1
HD72	HTRQ2	HD76EN2	HTRQLEN2	HD92M2	HCOHLM2
HD72	HTRQ3	HD76EN3	HTRQLEN3	HD92M2	HCOHLBY2
HD72	HTRU1	HD76F1	HTRQLF1	HD92M3	HCOHLM3
HD72	HTRU2	HD76F2	HTRQLF2	HD92M3	HCOHLBY3
HD72	HTRU3	HD76F3	HTRQLF3	HD93M1	HCOHLEM1
HD73A	HTRFEEA2	HD76FN1	HTRQLFN1	HD93M1	HCOHLEY1
HD73A1	HTRFEEA1	HD76FN2	HTRQLFN2	HD93M2	HCOHLEM2
HD73A3	HTRFEEA3	HD76FN3	HTRQLFN3	HD93M2	HCOHLEY2
HD73B	HTRFEEB2	HD76G1	HTRQLG1	HD93M3	HCOHLEM3
HD73B1	HTRFEEB1	HD76G2	HTRQLG2	HD93M3	HCOHLEY3
HD73B3	HTRFEEB3	HD76G3	HTRQLG3	HD94	HIVCBAGE
HD73C	HTRFEEC2	HD76GN1	HTRQLGN1	HD95	HLCHMOR
HD73C1	HTRFEEC1	HD76GN2	HTRQLGN2	HD96	HLCHNMOR
HD73C3	HTRFEEC3	HD76GN3	HTRQLGN3	HD97A	HIVDA
HD73E	HTRFEEE2	HD76H1	HTRQLH1	HD97B	HIVDB
HD73E1	HTRFEEE1	HD76H2	HTRQLH2	HD97C	HIVDC
HD73E3	HTRFEEE3	HD76H3	HTRQLH3	HD97D	HIVDD
HD73F	HTRFEEF2	HD76HN1	HTRQLHN1	HD97E	HIVDE
HD73F1	HTRFEEF1	HD76HN2	HTRQLHN2	HE1	HJBHAS
HD73F3	HTRFEEF3	HD76HN3	HTRQLHN3	HE2	HJBOFF
HD73G	HTRFEEG2	HD76I1	HTRQLI1	HE3	HJBOFFY
HD73G1	HTRFEEG1	HD76I2	HTRQLI2	HE4	HJBTERM
HD73G3	HTRFEEG3	HD76I3	HTRQLI3	HE5	HJBSOC
HD74	HTRQLXP1	HD76IN1	HTRQLIN1	HE6	HJBSIC
HD74	HTRQLXP2	HD76IN2	HTRQLIN2	HE7	HJBSEMP
HD74	HTRQLXP3	HD76IN3	HTRQLIN3	HE8	HJBMNGR
HD75	HTRQLAC1	HD76J1	HTRQLJ1	HE9	HJBSECT
HD75	HTRQLAC2	HD76J2	HTRQLJ2	HE10	HJBFSIZE

HE11	HJBHRS	HE64BM	HJSPRBM	HE100	HJUSOC
HE12	HJBOT	HE64BY	HJSPRBY4	HE101	HJUHRXS
HE13	HJBOTPD	HE64EM	HJSPREM	HE102	HJUPAYX
HE14	HJBHRLK	HE64EY	HJSPREY4	HE103	HJUPAYL
HE15	HJBPL	HE65	HJSPRF	HE104	HJUHRSL
HE16	HJBTTWT	HE66	HJSPRLS	HE105	HEPROSH
HE17	HJBTTWM	HE67	HJSPRTX	HE106	HEAAGE
HE18B	HJBSAT2	HE68	HJSPRNI	HE107	HJBUB
HE18D	HJBSAT4	HE69BM	HJSPRBM	HE108	HJBUBY
HE18F	HJBSAT6	HE69BY	HJSPRBY4	HE109	HJ2HAS
HE18G	HJBSAT7	HE69EM	HJSPREM	HE110	HJ2SOC
HE19	HJBSAT	HE69EY	HJSPREY4	HE111	HJ2SEMP
HE20	HPAYGL	HE70	HJSPRF	HE112	HJ2HRS
HE21OC	HPAYGW	HE71	HJSPRLS	HE113	HJ2PAY
HE22	HPAYNL	HE72	HJSPRTX	HE114A	HIVEA
HE23OC	HPAYNW	HE73	HJSPRNI	HE114B	HIVEB
HE24	HPAYSLP	HE74	HJSPAYU	HE114C	HIVEC
HE26	HPAYUSL	HE75	HJSPAYW	HE114D	HIVED
HE27	HPAYU	HE76	HJSPYTX	HE114E	HIVEE
HE28OC	HPAYUW	HE77	HJSPYNI	HEG3	PID
HE29	HPAYUG	HE78	HJSPL	HEG3	PID
HE30A	HPAYDF1	HE79	HJSTTWT	HEG3	PID
HE30B	HPAYDF2	HE80	HJSTTWM	HEG4	HHGSEX
HE30C	HPAYDF3	HE81A	HJSSAT1	HEG4M	HHGBM
HE30D	HPAYDF4	HE81B	HJSSAT2	HEG4Y	HHGBY
HE30E	HPAYDF5	HE81D	HJSSAT4	HEG6	HIVIOW7
HE30F	HPAYDF6	HE81E	HJSSAT5	HEG6	HIVIOW7
HE30G	HPAYDF7	HE82	HJSSAT	HEG6	HIVIOW7
HE30H	HPAYDF9	HE83D	HJSBGD	HEG6	HIVLYR
HE30I	HPAYDF8	HE83M	HJSBGM	HEG7	HIVSTAT1
HE31	HJBPERFP	HE83Y	HJSBGY4	HEG7	HIVSTAT1
HE32	HJBONUS	HE84A	HJBLKCHA	HEG8	HIVELIG
HE33	HJBONAM	HE84B	HJBLKCHB	HEG9	HHHMEM
HE34	HJBONG	HE84C	HJBLKCHC	HEG9	HHHMEM
HE35	HJBRISE	HE84D	HJBLKCHD	HEG9	HHHMEM
HE36	HTUJBPL	HE84E	HJBLKCHE	HEG10	HNEWHY
HE37	HTUIN1	HE85A	HJBXPCHA	HEG10	HNEWHY
HE38	HJBOPPS	HE85B	HJBXPCHB	HEG10	HNEWHY
HE39	HJBTIME	HE85C	HJBXPCHC	HEG11	HLVWHY
HE40	HJBPEN	HE85D	HJBXPCHD	HEG12M	HLVMN
HE41	HJBPENM	HE85E	HJBXPCHC	HEG12M	HNEMNHN
HE43D	HJBBGD	HE86	HJBMRS	HEG12M	HNEMNHN
HE43M	HJBBGM	HE88M1	HJBCHC1	HEG12M	HNEMNHN
HE43Y	HJBBGY4	HE88M2	HJBCHC2	HEG12Y	HLVYR4
HE44	HJBBGLY	HE88M3	HJBCHC3	HEG12Y	HNEYRHN4
HE45	HPAYS	HE90	HXPCHCF	HEG12Y	HNEYRHN4
HE46OC	HPAYSW	HE91	HXPCHC	HEG12Y	HNEYRHN4
HE48	HPAYSG	HE92	HHUXPCH	HEG13	HLVLOC
HE50	HPAYLY	HE93	HHUNURS	HEG14	HIVFIO
HE52OC	HPAYLYW	HE94	HJULK1	HEG14	HIVFIO
HE53	HPAYLYG	HE95	HJULK4	HEG14	HIVFIO
HE56	HJSBOSS	HE96A	HJULKA	HEG15	HIVRREF
HE57	HJSSIZE	HE96B	HJULKB	HEG16	HIVIREIS
HE58	HJSHRS	HE96C	HJULKC	HF2	HNF1
HE59	HJSHRLK	HE96D	HJULKD	HF2	HNFR
HE60	HJSTIME	HE96E	HJULKE	HF3A	HFICODE
HE61	HJSTYPEB	HE97	HJULKJB	HF3B01	HFR01
HE62	HJSACCS	HE98	HJUBGN	HF3B02	HFR02
HE63	HJSPART	HE99	HJUSPEC	HF3B03	HFR03

HF3B04	HFR04	HF27A1	HFTEXA	HF124	HF124
HF3B05	HFR05	HF27A2	HFTEXB	HF125	HF125
HF3B06	HFR06	HF27A3	HFTEXC	HF126	HF126
HF3B07	HFR07	HF27B11	HFTEXA1	HF127	HF127
HF3B08	HFR08	HF27B12	HFTEXB1	HF128	HF128
HF3B09	HFR09	HF27B13	HFTEXC1	HF131	HF131
HF3B10	HFR10	HF27B21	HFTEXA2	HF132	HF132
HF3B11	HFR11	HF27B22	HFTEXB2	HF135	HF135
HF3B12	HFR12	HF27B23	HFTEXC2	HF136	HF136
HF3B13	HFR13	HF27B31	HFTEXA3	HF137	HF137
HF3B14	HFR14	HF27B32	HFTEXB3	HF138	HF138
HF3B15	HFR15	HF27B33	HFTEXC3	HF139	HF139
HF3B16	HFR16	HF27B41	HFTEXA4	HF140	HF140
HF3B17	HFR17	HF27B42	HFTEXB4	HF141	HF141
HF3BAL	HFRALL	HF27B43	HFTEXC4	HF142	HF142
HF3C	HFRNOW	HF27B51	HFTEXA5	HF151	HF151
HF3D	HFRVAL	HF27B52	HFTEXB5	HF152	HF152
HF3EOC	HFRW	HF27B53	HFTEXC5	HF153	HF153
HF3F	HFRJT	HF27B61	HFTEXA6	HF154	HF154
HF3FPN	HFRJTPN	HF27B62	HFTEXB6	HF155	HF155
HF3SEQ	HFISEQ	HF27B63	HFTEXC6	HF156	HF156
HF4	HFISIT	HF27C1	HFTEXAV	HF157	HF157
HF5	HFISITC	HF27C2	HFTEXBV	HF158	HF158
HF6	HFISITY	HF27C3	HFTEXCV	HF159	HF159
HF7	HFISITX	HF27DOC	HFTEXAW	HH0AD	HHHDOI
HF70I	HPRF125	HF27DOC	HFTEXBW	HH0AM	HHHMOI
HF8	HFIYRDI	HF27DOC	HFTEXCW	HH0AY	HHHYOI4
HF9	HFIYRDIU	HF28	HSPINHH	HH0C	HHSTYPE
HF10	HSAVE	HF29A	HHUBUYS	HH2	HHSROOM
HF11	HSAVED	HF29B	HHUF RYS	HH3	HHSOWND
HF12M1	HSAVEY1	HF29C	HHUMOPS	HH4M1	HHSOWR1
HF12M2	HSAVEY2	HF29D	HHUIRON	HH4M2	HHSOWR2
HF13	HPPPEN	HF30	HHHCH12	HH5	HHSVAL
HF14	HPENB4	HF31	HHUSITS	HH6	HMGHAVE
HF15	HPENB4Y4	HF32	HHOWLNG	HH7	HHSOWRP
HF16	HPENB4V	HF33	HCARUSE	HH8	HMGYNOT
HF17OC	HPENB4W	HF35	HNEIGH1	HH9	HHSCOST
HF18	HPENYR4	HF35	HNEIGH2	HH10	HHSYR04
HF19	HPENADD	HF35	HNEIGH3	HH12	HMGYR04
HF20	HPENADV	HF35	HNEIGH4	HH13	HMGLY
HF21OC	HPENADW	HF36A	HIVFA	HH14	HHSIVW7
HF22	HWINDF	HF36B	HIVFB	HH17	HMGOLD
HF23A	HWINDFA	HF36C	HIVFC	HH18	HMG LIFE
HF23B	HWINDFB	HF36D	HIVFD	HH19	HMGTYPE
HF23C	HWINDFC	HF36E	HIVFE	HH1A	HHSRINS
HF23D	HWINDFD	HF37H	HIVFOIH	HH20	HMGXTRA
HF23F	HWINDFF	HF37M	HIVFOIM	HH21	HMGNEW
HF23G	HWINDFG	HF38	HIVSC	HH22A	HMGXY1
HF23H	HWINDFH	HF101	HF101	HH22B	HMGXY2
HF24A	HWINDFAY	HF102	HF102	HH22C	HMGXY3
HF24B	HWINDFBY	HF103	HF103	HH22D	HMGXY4
HF24C	HWINDFCY	HF104	HF104	HH22E	HMGXY5
HF24D	HWINDFDY	HF105	HF105	HH23	HXPMG
HF24F	HWINDFFY	HF106	HF106	HH24A	HXPMG1
HF24G	HWINDFGY	HF116	HF116	HH24B	HXPMG2
HF24H	HWINDFH Y	HF118	HF118	HH24C	HXPMG3
HF25A	HXPMEAL	HF119	HF119	HH24D	HXPMG4
HF25B	HXPLEIS	HF121	HF121	HH25	HHSJB
HF26	HFTEXHH	HF122	HF122	HH26M1	HRENTP1

HH26M2	HRENTP2	HH51I	HCD7USE	HHG10	HHGEMP
HH27	HRENTLL	HH51J	HCD8USE	HHG10	HHGEMP
HH28	HRENTF	HH51K	HCD9USE	HHG11	HHGFNO
HH30	HRENT	HH51L	HCD12USE	HHG11	HHGFNO
HH31	HRENTW	HH52	HCDBGHT	HHG12	HHGMNO
HH32A	HRENT1	HH53A	HCD1NEW	HHG12	HHGMNO
HH32B	HRENT7	HH53B	HCD2NEW	HHG13	HHGRA
HH32C	HRENT2	HH53C	HCD10NEW	HHG13	HHGRA
HH32D	HRENT3	HH53D	HCD11NEW	HI1	HIV1
HH32E	HRENT4	HH53E	HCD3NEW	HI2	HIV2
HH32F	HRENT5	HH53F	HCD4NEW	HI4	HIV4
HH32G	HRENT8	HH53G	HCD5NEW	HI5	HIV5
HH32H	HRENT6	HH53H	HCD6NEW	HI6A	HIV6A
HH33	HRENTHB	HH53I	HCD7NEW	HI6B	HIV6B
HH34	HRENTG	HH53J	HCD8NEW	HI6C	HIV6C
HH35	HRENTG	HH53K	HCD9NEW	HI6D	HIV6D
HH36	HRENTGW	HH53L	HCD12NEW	HI6E	HIV6E
HH37	HXPHSDF	HH54A	HCD1CST	HI7	HIV6F
HH38A	HXPHSD1	HH54B	HCD2CST	HI8	HIV7
HH38B	HXPHSD2	HH54C	HCD10CST	HJ6	HNMST
HH39	HXPHSDB	HH54D	HCD11CST	HJ7D	HCJSBGD
HH40A	HHSBTH	HH54E	HCD3CST	HJ7M	HCJSBGM
HH40A	HHSGDN	HH54F	HCD4CST	HJ7Y	HCJSBGY4
HH40A	HHSKCH	HH54G	HCD5CST	HJ9	HJHSTAT
HH40A	HHSTLT	HH54H	HCD6CST	HJ10D	HCJSBGD
HH40B	HHSBTHS	HH54I	HCD7CST	HJ10D	HJHBGD
HH40B	HHSGDNS	HH54J	HCD8CST	HJ10M	HCJSBGM
HH40B	HHSKCHS	HH54K	HCD9CST	HJ10M	HJHBM
HH40B	HHSTLTS	HH54L	HCD12CST	HJ10Y	HCJSBGY4
HH41A	HXPGASY	HH55	HXPHP	HJ10Y	HJHBGY4
HH41B	HXPLECY	HH56	HXPHPDF	HJ11	HCJSBLY
HH41C	HXPOILY	HH57A	HHSCANA	HJ14	HJHSOC
HH41D	HXPSFLY	HH57B	HHSCANB	HJ15	HNJBS
HH42	HHEATCH	HH57C	HHSCANC	HJ16	HJHSEMP
HH43	HHEATYP	HH57D	HHSCAND	HJ17	HJHBOSS
HH44A	HHSPRBG	HH57E	HHSCANE	HJ18	HJHSECT
HH44B	HHSPRBH	HH57F	HHSCANF	HJ19	HJHMNGR
HH44C	HHSPRBI	HH58A	HHSCNTA	HJ21	HJHPLDF
HH44D	HHSPRBJ	HH58B	HHSCNTB	HJ22	HJHSIC
HH44E	HHSPRBK	HH58C	HHSCNTC	HJ23	HJHSIZE
HH44F	HHSPRBL	HH58D	HHSCNTD	HJ24	HJHPAYL
HH44G	HHSPRBM	HH58E	HHSCNTE	HJ25OC	HJHPYLW
HH44H	HHSPRBN	HH58F	HHSCNTF	HJ26	HJHPYLG
HH44I	HHSPRBO	HH59	HXPFOOD	HJ27	HJHSTPY
HH44J	HHSPRBP	HH60	HNCARS	HJ28	HJBLKY
HH44K	HHSPRBQ	HH61	HCAROWN	HJ31	HJBHAD
HH45	HHSTAX	HH63M1	HIVH1	HJ32	HJLEND4
HH46	HHS2OWND	HH63M2	HIVH2	HJ33	HJLSOC
HH47	HHS2VAL	HH63M3	HIVH3	HJ34	HJLSIC
HH49	HMGTOT	HHG2	HHGR2R	HJ35	HJLSEMP
HH50	HCDHAVE	HHG2	HHGR2R	HJ36	HJLBOSS
HH51A	HCD1USE	HHG3	HHGSEX	HJ37	HJLMNGR
HH51B	HCD2USE	HHG3	HHGSEX	HJ38	HJLSIZE
HH51C	HCD10USE	HHG4M	HHGBM	HJ39A	HIVJA
HH51D	HCD11USE	HHG4Y	HHGBY	HJ39B	HIVJB
HH51E	HCD3USE	HHG8	HMASTAT	HJ39C	HIVJC
HH51F	HCD4USE	HHG8	HMASTAT	HJ39D	HIVJD
HH51G	HCD5USE	HHG9	HHGSPN	HJ39E	HIVJE
HH51H	HCD6USE	HHG9	HHGSPN	HM1	HHLSTAT

HM2	HHLDSBL	HM29J2	HHLSVK	HM45A	HIVMA
HM3A	HHLPRBA	HM29L	HHLSVL	HM45B	HIVMB
HM3B	HHLPRBB	HM29M	HHLSVM	HM45C	HIVMC
HM3C	HHLPRBC	HM30A	HHLSVAN	HM45D	HIVMD
HM3D	HHLPRBD	HM30B	HHLSVBN	HM45E	HIVME
HM3E	HHLPRBE	HM30C	HHLSVCN	HP2B	HPRRS2I
HM3F	HHLPRBF	HM30D	HHLSVDN	HP2C	HPRIPN
HM3G	HHLPRBG	HM30E	HHLSVEN	HP2D	HPRWHY
HM3H	HHLPRBH	HM30F	HHLSVFN	HP3	HPPLEVR
HM3I	HHLPRBI	HM30G	HHLSVGN	HP10M	HPRESBGM
HM3J	HHLPRBJ	HM30H	HHLSVHN	HP10Y	HPRESBY4
HM3K	HHLPRBK	HM30I	HHLSVIN	HP11	HPRESLY
HM3L	HHLPRBL	HM30J1	HHLSVJN	HP23	HPRFEHQ
HM3M	HHLPRBM	HM30J2	HHLSVKN	HP25	HPRSEHQ
HM3M0	HHLPRB	HM30L	HHLSVLN	HP58	HPRJBFT
HM4	HHLLT	HM30M	HHLSVMN	HP59M	HPRJBBGM
HM5A	HHLLTA	HM31A	HHLSVAF	HP59Y	HPRJBBY4
HM5B	HHLLTB	HM31B	HHLSVBF	HP60	HPRJBLY
HM5C	HHLLTC	HM31C	HHLSVCF	HP61	HPREARN
HM5D	HHLLTD	HM31D	HHLSVDF	HP70A	HPRF101
HM5E	HHLLTE	HM31E	HHLSVEF	HP70B	HPRF102
HM6	HHLLTW	HM31F	HHLSVFF	HP70C	HPRF116
HM7	HHLENDW	HM31G	HHLSVGF	HP70D	HPRF131
HM8	HHLLTWA	HM31H	HHLSVHF	HP70F	HPRF135
HM9	HHLIV65	HM31I	HHLSVIF	HP70G	HPRF137
HM10A	HADLA	HM31J1	HHLSVJF	HP70H	HPRF139
HM10B	HADLAD	HM31J2	HHLSVKF	HP70J	HPRF141
HM11A	HADLB	HM31L	HHLSVLF	HP70NONE	HPRFIRN
HM11B	HADLBD	HM31M	HHLSVMF	HP71	HPRFITB
HM12A	HADLC	HM32	HHLCK	HPI1A	HIVPA
HM12B	HADLCD	HM33A	HHLCKA	HPI1B	HIVPB
HM13A	HADLD	HM33B	HHLCKB	HPI1C	HIVPC
HM13B	HADLDD	HM33C	HHLCKC	HPI1D	HIVPD
HM14A	HADLE	HM33D	HHLCKD	HPI1E	HIVPE
HM14B	HADLED	HM33E	HHLCKE	HS1A	HGHQA
HM15A	HADLF	HM33F	HHLCKI	HS1B	HGHQB
HM15B	HADLFD	HM33G	HHLCKF	HS1C	HGHQC
HM16	HHL2GP	HM33H	HHLCKG	HS1D	HGHQD
HM17	HHL2HOP	HM33I	HHLCKH	HS1E	HGHQE
HM18	HXDTS	HM34A	HHLCKAN	HS1F	HGHQF
HM19	HNXDTS	HM34B	HHLCKBN	HS1G	HGHQG
HM20	HHOSP	HM34C	HHLCKCN	HS1H	HGHQH
HM21	HHOSPD	HM34D	HHLCKDN	HS1I	HGHQI
HM23	HHOSPCH	HM34E	HHLCKEN	HS1J	HGHQJ
HM24	HHOSPNSH	HM34F	HHLCKIN	HS1K	HGHQK
HM25	HHLCVR	HM34G	HHLCKFN	HS1L	HGHQL
HM26	HHLCVRH	HM34H	HHLCKGN	HS2A	HOPFAMO
HM27	HHLCVRL	HM34I	HHLCKHN	HS2B	HOPFAML
HM28	HHLSV	HM35	HSMOKER	HS2C	HOPFAMP
HM29A	HHLSVA	HM36	HNCIGS	HS2D	HOPFAMQ
HM29B	HHLSVB	HM38	HAIDHH	HS2E	HOPFAMK
HM29C	HHLSVC	HM39P1	HAIDHUA	HS2F	HOPFAMR
HM29D	HHLSVD	HM39P2	HAIDHUB	HS3A	HLFSAT1
HM29E	HHLSVE	HM39P3	HAIDHUC	HS3B	HLFSAT2
HM29F	HHLSVF	HM40	HAIDXHH	HS3C	HLFSAT3
HM29G	HHLSVG	HM41	HNAIDXHH	HS3D	HLFSAT4
HM29H	HHLSVH	HM42M1	HAIDHU1	HS3E	HLFSAT5
HM29I	HHLSVI	HM42M2	HAIDHU2	HS3F	HLFSAT6
HM29J1	HHLSVJ	HM44	HAIDHRS	HS3G	HLFSAT7

HS3H	HLFSAT8	HV11F	HLFIMPF	HY9	HYPFBEAU
HS4A	HLFSATO	HV11G	HLFIMPG	HY10	HYPFCLUB
HS4B	HLFSATL	HV11H	HLFIMPH	HY11	HYPFDISC
HS5A	HNETSX1	HV12A	HLOCSERA	HY12	HYPFSPOR
HS5A	HNETSX2	HV12B	HLOCSERB	HY13	HYPFARCA
HS5A	HNETSX3	HV12C	HLOCSERC	HY14	HYPARGM
HS5B	HNET1RL	HV12D	HLOCSERD	HY15	HYPARGF
HS5B	HNET2RL	HV12E	HLOCSERE	HY16	HYPTLKM
HS5B	HNET3RL	HV13	HLOCCHD	HY17	HYPTLKF
HS5BOC	HNET1WR	HV14A	HOPNGBHA	HY18	HYPNPAL
HS5BOC	HNET2WR	HV14B	HOPNGBHB	HY19	HYPGANG
HS5BOC	HNET3WR	HV14C	HOPNGBHC	HY20	HYPMKFRN
HS5C	HNET1AG	HV14D	HOPNGBHD	HY21	HYPFGHT
HS5C	HNET2AG	HV14E	HOPNGBHE	HY22	HYPEATN
HS5C	HNET3AG	HV14F	HOPNGBHF	HY23	HYPSAVE
HS5D	HNET1KN	HV14G	HOPNGBHG	HY24L	HYPKML
HS5D	HNET2KN	HV14H	HOPNGBHH	HY24P	HYPKMP
HS5D	HNET3KN	HV15	HFRNA	HY25	HYPBEAU
HS5E	HNET1PH	HV16	HFRNB	HY26	HYPDKLM
HS5E	HNET2PH	HV17	HFRNC	HY27	HYPMEV
HS5E	HNET3PH	HV18	HYPAR	HY28	HYPMAG
HS5F	HNET1LV	HV19	HPYHLTH	HY29	HYPMOF
HS5F	HNET2LV	HV20	HPYHWRK	HY30	HYPMLW
HS5F	HNET3LV	HV21	HPYNYP	HY31	HYPMYR
HS5G	HNET1JB	HV21A1	HPYPNO1	HY32	HYPDGFR
HS5G	HNET2JB	HV21A2	HPYPNO2	HY33	HYPHAD
HS5G	HNET3JB	HV21A3	HPYPNO3	HY34	HYPWOR
HS6A	HNETSOC	HV21B1	HPYAGE1	HY35	HYPBULL
HT2B	HTELWHY	HV21B2	HPYAGE2	HY36	HYPPLONE
HT45	HTLFIYRL	HV21B3	HPYAGE3	HY37	HYPBORED
HT50	HTLFIYR	HV22Y1	HPYWHR1	HY38	HYPESTA
HV1A	HOPPOLA	HV22Y2	HPYWHR2	HY39	HYPESTB
HV1B	HOPPOLB	HV22Y3	HPYWHR3	HY40	HYPESTC
HV1C	HOPPOLC	HV23Y1	HPYMAN1	HY41	HYPESTE
HV1D	HOPPOLD	HV23Y2	HPYMAN2	HY42	HYPESTF
HV2	HVOTE1	HV23Y3	HPYMAN3	HY43	HYPESTH
HV3	HVOTE2	HV24Y1	HPYARG1	HY44	HYPTCHA
HV4	HVOTE3	HV24Y2	HPYARG2	HY45	HYPTCHB
HV5	HVOTE4	HV24Y3	HPYARG3	HY46	HYPTCHC
HV6	HVOTE5	HV25Y1	HPYTLK1	HY47	HYPESTG
HV7	HVOTE7	HV25Y2	HPYTLK2	HY48	HYPHSW
HV8	HVOTE8	HV25Y3	HPYTLK3	HY49	HYPHAP
HV9A	HLACTA	HV26Y1	HPYSMK1	HY50	HYPHFM
HV9B	HLACTB	HV26Y2	HPYSMK2	HY51	HYPHFR
HV9C	HLACTC	HV26Y3	HPYSMK3	HY52	HYPHLF
HV9D	HLACTD	HV27Y1	HPYSAD1	HY53	HYPCOMA
HV9E	HLACTE	HV27Y2	HPYSAD2	HY54	HYPCOMB
HV9F	HLACTF	HV27Y3	HPYSAD3	HY55	HYPCOMC
HV9H	HLACTH	HV28Y1	HPYWOR1	HY56	HYPCOMD
HV9I	HLACTI	HV28Y2	HPYWOR2	HY57	HYPCOME
HV9J	HLACTJ	HV28Y3	HPYWOR3	HY58	HYPCOMF
HV9K	HLACTK	HY1	HYTVHRS	HY59	HYPCOMG
HV9L	HLACTL	HY2	HYTVSTP	HY60	HYPOPLA
HV10	HTRUST	HY3	HYPFPC	HY61	HYPOPHA
HV11A	HLFIMPA	HY4	HYPFPCGM	HY62	HYPOPPL
HV11B	HLFIMPB	HY5	HYPFALS	HY63	HYPOPSCB
HV11C	HLFIMPC	HY6	HYPUTEL	HY64	HYPVTE6
HV11D	HLFIMPD	HY7	HYPLATE	HY65	HYPVTE3
HV11E	HLFIMPE	HY8	HYPFPARK	HY66	HYPWRWA

HY67	.....	HYPCRWRB	ID21Y	.....	IEDBGY1	ID25I1	.....	IEDQLIN1
HY68	.....	HYPEXPL	ID21Y2	.....	IEDBGY2	ID25I2	.....	IEDQLI2
HY69	.....	HYPVAND	ID22	.....	IEDENNE1	ID25J1	.....	IEDQLJ1
HY70	.....	HYPTRUN	ID22M	.....	IEDENM1	ID25J1	.....	IEDQLJN1
HY71	.....	HYPOPSC	ID22M2	.....	IEDENM2	ID25J2	.....	IEDQLJ2
HY72	.....	HYPASC	ID22NE2	.....	IEDENNE2	ID25NA	.....	IEDQNN2
HY73	.....	HYPLVSC	ID22Y	.....	IEDENY1	ID25NONE	.....	IEDQNN1
HY74	.....	HYPLVHM	ID22Y2	.....	IEDENY2	ID26	.....	IEDOQL1
HY75	.....	HYPAMAR	ID23A	.....	IEDFEEA1	ID26	.....	IEDOQL2
HY76	.....	HYPAPAR	ID23A	.....	IEDFEEA2	ID26NONE	...	IEDOQLN1
HY77	.....	HYPWHR	ID23B	.....	IEDFEEB1	ID26NONE	...	IEDOQLN2
HY78	.....	HYPAY	ID23B	.....	IEDFEEB2	ID27	.....	IEDMORE1
HY80	.....	HYSOC	ID23C	.....	IEDFEEC1	ID27	.....	IEDMORE2
HY81	.....	HYSOCY	ID23C	.....	IEDFEEC2	ID29DST	....	IPLBORND
HY82	.....	HYPDLFA	ID23D	.....	IEDFEED1	ID29OS	....	IPLBORNC
HY82	.....	HYPDLFB	ID23D	.....	IEDFEED2	ID30	.....	IYR2UK4
ID0AD	.....	IDOID	ID23E	.....	IEDFEEE1	ID31	.....	IMLSTAT
ID0AM	.....	IDOIM	ID23E	.....	IEDFEEE2	ID32M1	.....	ICITZN1
ID0AY	.....	IDOY4	ID23F	.....	IEDFEEF1	ID32M2	.....	ICITZN2
ID0BA	.....	IIVLYR	ID23F	.....	IEDFEEF2	ID33	.....	IRACE
ID0BB	.....	IIVSTAT2	ID23G	.....	IEDFEEG1	ID36	.....	IPASOC
ID0D	.....	IRACH12	ID23G	.....	IEDFEEG2	ID36ANA	.....	IPAJU
ID1H	.....	IIVSOIH	ID24	.....	IEDQUAL1	ID37	.....	IPASEMP
ID1M	.....	IIVSOIM	ID24	.....	IEDQUAL2	ID38	.....	IPABOSS
ID2	.....	ILKNBRD	ID25A1	.....	IEDQLA1	ID39	.....	IPAMNGR
ID3	.....	ILKMOVE	ID25A1	.....	IEDQLAN1	ID40	.....	IMAJU
ID4	.....	ILKMOVY	ID25A2	.....	IEDQLA2	ID40	.....	IMASOC
ID5	.....	IXPMOVE	ID25A2	.....	IEDQLAN2	ID41	.....	IMASEMP
ID6	.....	IPLNEW	ID25A2	.....	IEDQLBN2	ID42	.....	IMABOSS
ID7M	.....	IPLNOWM	ID25A2	.....	IEDQLCN2	ID43	.....	IMAMNGR
ID7Y	.....	IPLNOWY4	ID25A2	.....	IEDQLDN2	ID44	.....	IJ1SOC
ID8	.....	IMOVJB	ID25A2	.....	IEDQLEN2	ID44NA	.....	IJ1NONE
ID9A	.....	IMOVJBA	ID25A2	.....	IEDQLFN2	ID45	.....	IJ1SEMP
ID9B	.....	IMOVJBB	ID25A2	.....	IEDQLGN2	ID46	.....	IJ1BOSS
ID9C	.....	IMOVJBC	ID25A2	.....	IEDQLHN2	ID47	.....	IJ1MNGR
ID9D	.....	IMOVJBD	ID25A2	.....	IEDQLIN2	ID48	.....	ILCOH
ID9E	.....	IMOVJBE	ID25A2	.....	IEDQLJN2	ID49M	.....	ICOH1BM
ID9F	.....	IMOVJBF	ID25B1	.....	IEDQLB1	ID49Y	.....	ICOH1BY
ID9G	.....	IMOVJBG	ID25B1	.....	IEDQLBN1	ID50	.....	ICOH1MR
ID9H	.....	IMOVJBH	ID25B2	.....	IEDQLB2	ID51M	.....	ICOH1EM
ID9I	.....	IMOVJBI	ID25C1	.....	IEDQLC1	ID51Y	.....	ICOH1EY
ID10M1	.....	IMOVY1	ID25C1	.....	IEDQLCN1	ID52	.....	INMAR
ID10M2	.....	IMOVY2	ID25C2	.....	IEDQLC2	ID53M	.....	ILMAR1M
ID11	.....	ISEX	ID25D1	.....	IEDQLD1	ID53Y	.....	ILMAR1Y
ID11M	.....	IDOBM	ID25D1	.....	IEDQLDN1	ID54	.....	ILPRNT
ID11Y	.....	IDOBY	ID25D2	.....	IEDQLD2	ID55	.....	ILNPRNT
ID12	.....	ISEX	ID25E1	.....	IEDQLE1	ID56M	.....	ICH1BM
ID14	.....	IMLSTAT	ID25E1	.....	IEDQLEN1	ID56Y	.....	ICH1BY
ID15	.....	IMLCHNG	ID25E2	.....	IEDQLE2	ID57	.....	ISCEND
ID16M	.....	IMLCHM	ID25F1	.....	IEDQLF1	ID57NA	.....	ISCHOOL
ID16Y	.....	IMLCHY4	ID25F1	.....	IEDQLFN1	ID58	.....	ISCTYPE
ID17	.....	IJBSTAT	ID25F2	.....	IEDQLF2	ID59	.....	ISCNOW
ID18	.....	IEDLYR	ID25G1	.....	IEDQLG1	ID60	.....	IFETYPE
ID19	.....	IEDTYPE1	ID25G1	.....	IEDQLGN1	ID61	.....	IFEEND
ID19	.....	IEDTYPE2	ID25G2	.....	IEDQLG2	ID61NA	.....	IFENOW
ID20	.....	IEDBLYR1	ID25H1	.....	IEDQLH1	ID62	.....	IQFHAS
ID20	.....	IEDBLYR2	ID25H1	.....	IEDQLHN1	ID63A	.....	IQFA
ID21M	.....	IEDBGM1	ID25H2	.....	IEDQLH2	ID63B	.....	IQFB
ID21M2	.....	IEDBGM2	ID25I1	.....	IEDQLI1	ID63C	.....	IQFC

ID63D	IQFD	ID70A3	ITRWHYA3	ID75F2	ITRQLF2
ID63E	IQFE	ID70B	ITRWHYB2	ID75F3	ITRQLF3
ID63F	IQFF	ID70B1	ITRWHYB1	ID75G1	ITRQLG1
ID63G	IQFG	ID70B3	ITRWHYB3	ID75G2	ITRQLG2
ID63H	IQFH	ID70C	ITRWHYC2	ID75G3	ITRQLG3
ID63I	IQFI	ID70C1	ITRWHYC1	ID75H1	ITRQLH1
ID63J	IQFJ	ID70C3	ITRWHYC3	ID75H2	ITRQLH2
ID63K	IQFK	ID70D	ITRWHYD2	ID75H3	ITRQLH3
ID63L	IQFL	ID70D1	ITRWHYD1	ID75I1	ITRQLI1
ID63M	IQFM	ID70D3	ITRWHYD3	ID75I2	ITRQLI2
ID63N	IQFN	ID70E	ITRWHYE2	ID75I3	ITRQLI3
ID64	IQFED	ID70E1	ITRWHYE1	ID75J1	ITRQLJ1
ID65A	IQFEDA	ID70E3	ITRWHYE3	ID75J2	ITRQLJ2
ID65B	IQFEDB	ID71	ITRQ1	ID75J3	ITRQLJ3
ID65C	IQFEDC	ID71	ITRQ2	ID75NONE	ITRQLNN1
ID65D	IQFEDD	ID71	ITRQ3	ID75NONE	ITRQLNN2
ID65E	IQFEDE	ID71	ITRU1	ID75NONE	ITRQLNN3
ID65F	IQFEDF	ID71	ITRU2	ID76AN1	ITRQLAN1
ID65G	IQFEDG	ID71	ITRU3	ID76AN2	ITRQLAN2
ID65H	IQFEDH	ID72A	ITRFEEA2	ID76AN3	ITRQLAN3
ID65I	IQFEDI	ID72A1	ITRFEEA1	ID76BN1	ITRQLBN1
ID65J	IQFEDJ	ID72A3	ITRFEEA3	ID76BN2	ITRQLBN2
ID65K	IQFEDK	ID72B	ITRFEEB2	ID76BN3	ITRQLBN3
ID65L	IQFEDL	ID72B1	ITRFEEB1	ID76CN1	ITRQLCN1
ID65M	IQFEDM	ID72B3	ITRFEEB3	ID76CN2	ITRQLCN2
ID65N	IQFEDN	ID72C	ITRFEEC2	ID76CN3	ITRQLCN3
ID65O	IQFEDO	ID72C1	ITRFEEC1	ID76DN1	ITRQLDN1
ID65P	IQFEDP	ID72C3	ITRFEEC3	ID76DN2	ITRQLDN2
ID65Q	IQFEDQ	ID72E	ITRFEEE2	ID76DN3	ITRQLDN3
ID65R	IQFEDR	ID72E1	ITRFEEE1	ID76EN1	ITRQLEN1
ID65S	IQFEDS	ID72E3	ITRFEEE3	ID76EN2	ITRQLEN2
ID65T	IQFEDT	ID72F	ITRFEEF2	ID76EN3	ITRQLEN3
ID66A	INQFEDA	ID72F1	ITRFEEF1	ID76FN1	ITRQLFN1
ID66B	INQFEDB	ID72F3	ITRFEEF3	ID76FN2	ITRQLFN2
ID66C	INQFEDC	ID72G	ITRFEEG2	ID76FN3	ITRQLFN3
ID66D	INQFEDD	ID72G1	ITRFEEG1	ID76GN1	ITRQLGN1
ID66E	INQFEDE	ID72G3	ITRFEEG3	ID76GN2	ITRQLGN2
ID66F	INQFEDF	ID73	ITRQLXP1	ID76GN3	ITRQLGN3
ID66G	INQFEDG	ID73	ITRQLXP2	ID76HN1	ITRQLHN1
ID66H	INQFEDH	ID73	ITRQLXP3	ID76HN2	ITRQLHN2
ID66I	INQFEDI	ID74	ITRQLAC1	ID76HN3	ITRQLHN3
ID66J	INQFEDJ	ID74	ITRQLAC2	ID76IN1	ITRQLIN1
ID66K	INQFEDK	ID74	ITRQLAC3	ID76IN2	ITRQLIN2
ID66L	INQFEDL	ID75A1	ITRQLA1	ID76IN3	ITRQLIN3
ID66M	INQFEDM	ID75A2	ITRQLA2	ID76JN1	ITRQLJN1
ID66N	INQFEDN	ID75A3	ITRQLA3	ID76JN2	ITRQLJN2
ID66O	INQFEDO	ID75B1	ITRQLB1	ID76JN3	ITRQLJN3
ID66P	INQFEDP	ID75B2	ITRQLB2	ID77	ITROQL1
ID66Q	INQFEDQ	ID75B3	ITRQLB3	ID77	ITROQL2
ID66R	INQFEDR	ID75C1	ITRQLC1	ID77	ITROQL3
ID66S	INQFEDS	ID75C2	ITRQLC2	ID77	ITROQLN3
ID66T	INQFEDT	ID75C3	ITRQLC3	ID77NONE	ITROQLN1
ID67	ITRAIN	ID75D1	ITRQLD1	ID77NONE	ITROQLN2
ID68	INTRAIN	ID75D2	ITRQLD2	ID78	ITRMORE1
ID69	ITRPLCE1	ID75D3	ITRQLD3	ID78	ITRMORE2
ID69	ITRPLCE2	ID75E1	ITRQLE1	ID79	IMABWT
ID69	ITRPLCE3	ID75E2	ITRQLE2	ID80	IMABWTN
ID70A	ITRWHYA2	ID75E3	ITRQLE3	ID81	IBWTAG1
ID70A1	ITRWHYA1	ID75F1	ITRQLF1	ID81	IBWTAG2

ID81	IBWTAG3	ID94E	IWLSHUE	IE41	IJBONAM
ID81	IBWTAG4	ID95A	IIVDA	IE42	IJBONG
ID81	IBWTPN1	ID95B	IIVDB	IE43	IJBRISE
ID81	IBWTPN2	ID95C	IIVDC	IE44	ITUJBPL
ID81	IBWTPN3	ID95D	IIVDD	IE45	ITUIN1
ID81	IBWTPN4	ID95E	IIVDE	IE46	IJBOPPS
ID82	IBWTXP1	IE1	IJBHAS	IE46OC	IPAYSW
ID82	IBWTXP2	IE2	IJB OFF	IE47	IJB TIME
ID82	IBWTXP3	IE3	IJB OFFY	IE48	IJBWKHRA
ID82	IBWTXP4	IE4	IJB TERM1	IE48	IJBWKHRB
ID83	IBWTEL1	IE5	IJB SOC	IE48	IJBWKHRC
ID83	IBWTEL2	IE6	IJB SIC	IE48	IJBWKHRD
ID83	IBWTEL3	IE7	IJB SEMP	IE48	IJBWKHRE
ID83	IBWTEL4	IE8	IJB MNGR	IE48	IJBWKHRF
ID84	IBWTWK1	IE9	IJB SECT	IE48	IJBWKHRG
ID84	IBWTWK2	IE10	IJB SIZE	IE48	IJBWKHRH
ID84	IBWTWK3	IE11	IJB HRS	IE48	IPAYSG
ID84	IBWTWK4	IE12	IJB OT	IE49	IJB PEN
ID85	IBWTKN1	IE13	IJB OTPD	IE4A	IJB TERM2
ID85	IBWTKN2	IE14	IJB HRLK	IE50	IJB PENM
ID85	IBWTKN3	IE15	IJB PL	IE52D	IJB BGD
ID85	IBWTKN4	IE16	IJB TTWT	IE52M	IJB BGM
ID86	IBWTLB1	IE17	IJB TTWM	IE52Y	IJB BGY4
ID86	IBWTLB2	IE18B	IJB SAT2	IE53	IJB BGLY
ID86	IBWTLB3	IE18D	IJB SAT4	IE54	IPAYS
ID86	IBWTLB4	IE18F	IJB SAT6	IE59	IPAYLY
ID86	IBWTOZ1	IE18G	IJB SAT7	IE60OC	IPAYLYW
ID86	IBWTOZ2	IE19	IJB SAT	IE61	IPAYLYG
ID86	IBWTOZ3	IE20	IPAYGL	IE65	INMWCHK
ID86	IBWTOZ4	IE21OC	IPAYGW	IE66	INMWHRCH
ID87	IBWTGM1	IE22	IPAYNL	IE67	INMW PACH
ID87	IBWTGM2	IE23OC	IPAYNW	IE68	INMWOPCH
ID87	IBWTGM3	IE24	IPAYSLP	IE70	INMWGBEF
ID87	IBWTGM4	IE26	IPAYUSL	IE71	INMWGFX
ID88	IBWTG51	IE27	IPAYU	IE72A	INMWGFXA
ID88	IBWTG52	IE28OC	IPAYUW	IE72B	INMWGFXB
ID88	IBWTG53	IE29	IPAYUG	IE72C	INMWGFXC
ID88	IBWTG54	IE30A	IPAYDF1	IE72D	INMWGFXD
ID89	INATIDA	IE30B	IPAYDF2	IE73	IJSBOSS
ID89	INATIDB	IE30C	IPAYDF3	IE74	IJSSIZE
ID89	INATIDC	IE30D	IPAYDF4	IE75	IJSHRS
ID89	INATIDD	IE30E	IPAYDF5	IE76	IJSHRLK
ID89	INATIDE	IE30F	IPAYDF6	IE77	IJSTIME
ID89	INATIDF	IE30G	IPAYDF7	IE78	IJSTYPEB
ID89	INATIDG	IE30H	IPAYDF9	IE79	IJSACCS
ID89	INATIDH	IE30I	IPAYDF8	IE80	IJSPART
ID89	INATIDI	IE31	IPAYTYP	IE81BM	IJSPRBM
ID90	INATIDMN	IE32	IOVTPAY	IE81BY	IJSPRBY4
ID91	IMABORN	IE33	IEXTRATE	IE81EM	IJSPREM
ID92	IPABORN	IE33	IEXTREST	IE81EY	IJSPREY4
ID93A	IWLSHA	IE34	IBASRATE	IE82	IJSPRF
ID93B	IWLSHB	IE34	IBASREST	IE83	IJSPRLS
ID93C	IWLSHC	IE35	IOVTRATE	IE84	IJSPRTX
ID93D	IWLSHD	IE35	IOVTREST	IE85	IJSPRNI
ID93E	IWLSHE	IE36	IOVTCHC	IE86BM	IJSPRBM
ID94A	IWLSHUA	IE37	IPAYNMW1	IE86BY	IJSPRBY4
ID94B	IWLSHUB	IE38	IPAYNMW2	IE86EM	IJSPREM
ID94C	IWLSHUC	IE39	IJBPERFP	IE86EY	IJSPREY4
ID94D	IWLSHUD	IE40	IJBONUS	IE87	IJSPRF

IE88	IJSPRLS	IE127	IJBLKY1	IF3D	IFRVAL
IE89	IJSPRTX	IE128	IJBLKY2	IF3EOC	IFRW
IE90	IJSPRNI	IE129	IEAAGE	IF3F	IFRJT
IE91	IJSPAYU	IE130	IJBUB	IF3FPN	IFRJTPN
IE92	IJSPAYW	IE131	IJBUBY	IF3SEQ	IFISEQ
IE93	IJSPYTX	IE132	IJ2HAS	IF4	IFISIT
IE94	IJSPYNI	IE133	IJ2SOC	IF5	IFISITC
IE95	IJSPL	IE134	IJ2SEMP	IF6	IFISITY
IE96	IJSTTWT	IE135	IJ2HRS	IF60I	IPRF125
IE97	IJSTTWM	IE136	IJ2PAY	IF7	IFISITX
IE98A	IJSSAT1	IE137A	IIVEA	IF8	IFIYRDIA
IE98B	IJSSAT2	IE137B	IIVEB	IF9A	IFIYRDB1
IE98D	IJSSAT4	IE137C	IIVEC	IF9B	IFIYRDB2
IE98E	IJSSAT5	IE137D	IIVED	IF9C	IFIYRDB3
IE99	IJSSAT	IE137E	IIVEE	IF9D	IFIYRDB4
IE100D	IJSBGD	IEG3	PID	IF9E	IFIYRDB5
IE100M	IJSBGM	IEG4	IHGSEX	IF9F	IFIYRDB6
IE100Y	IJSBGY4	IEG4M	IHGBM	IF10	ISAVE
IE101A	IJBLKCHA	IEG4Y	IHGBY	IF11	ISAVED
IE101B	IJBLKCHB	IEG6	IIVIOW8	IF12M1	ISAVEY1
IE101C	IJBLKCHC	IEG6	IIVLYR	IF12M2	ISAVEY2
IE101D	IJBLKCHD	IEG7	IIVSTAT1	IF13	IPPPEN
IE101E	IJBLKCHE	IEG8	IIVELIG	IF14	IPENB4
IE102A	IJBXPCHA	IEG9	IHHMEM	IF15	IPENB4Y4
IE102B	IJBXPCHB	IEG10	INEWHY	IF16	IPENB4V
IE102C	IJBXPCHC	IEG11	ILVWHY	IF17OC	IPENB4W
IE102D	IJBXPCHD	IEG12M	ILVMN	IF18	IPENYR4
IE102E	IJBXPCHE	IEG12M	INEMNJJN	IF19	IPENADD
IE103A	IJBSTRNA	IEG12Y	ILVYR4	IF20	IPENADV
IE103B	IJBSTRNB	IEG12Y	INEYRJN4	IF21OC	IPENADW
IE103C	IJBSTRNC	IEG13	ILVLOC	IF22	IWINDF
IE103D	IJBSTRND	IEG14	IIVFIO	IF23A	IWINDFA
IE105M1	IJBCHC1	IEG15	IIVRREF	IF23B	IWINDFB
IE105M2	IJBCHC2	IEG16	IIVIREIS	IF23C	IWINDFC
IE105M3	IJBCHC3	IF2	INF1	IF23D	IWINDFD
IE107	IXPCHCF	IF2	INFR	IF23F	IWINDFF
IE108	IXPCHC	IF3A	IFICODE	IF23G	IWINDFG
IE109	IHUXPCH	IF3B01	IFR01	IF23H	IWINDFH
IE110	IHUNURS	IF3B02	IFR02	IF24A	IWINDFAY
IE111	IJULK1	IF3B03	IFR03	IF24B	IWINDFBY
IE112	IJULK4	IF3B04	IFR04	IF24C	IWINDFCY
IE113A	IJULKA	IF3B05	IFR05	IF24D	IWINDFDY
IE113B	IJULKB	IF3B06	IFR06	IF24F	IWINDFFY
IE113C	IJULKC	IF3B07	IFR07	IF24G	IWINDFGY
IE113D	IJULKD	IF3B08	IFR08	IF24H	IWINDFHY
IE113E	IJULKE	IF3B09	IFR09	IF25A	IXPMEAL
IE114	IJULKJB	IF3B10	IFR10	IF25B	IXPLEIS
IE115	IJUBGN	IF3B11	IFR11	IF26	IFTEXHH
IE116	IJUSPEC	IF3B12	IFR12	IF27A1	IFTEXA
IE117	IJUSOC	IF3B13	IFR13	IF27A2	IFTEXB
IE118	IJUHRXS	IF3B14	IFR14	IF27A3	IFTEXC
IE119	IJUPAYX	IF3B15	IFR15	IF27B11	IFTEXA1
IE120	IJUPAYL	IF3B16	IFR16	IF27B12	IFTEXB1
IE121	IJUHRSL	IF3B17	IFR17	IF27B13	IFTEXC1
IE122	INMWUFXA	IF3B18	IFR18	IF27B21	IFTEXA2
IE123	INMWUFXB	IF3B19	IFR19	IF27B22	IFTEXB2
IE124	IEPROSH	IF3B20	IFR20	IF27B23	IFTEXC2
IE125	IJBASP1	IF3BAL	IFRALL	IF27B31	IFTEXA3
IE126	IJBASP2	IF3C	IFRNOW	IF27B32	IFTEXB3

IF27B33	IFTEXC3	IF136	IF136	IH32B	IRENT7
IF27B41	IFTEXA4	IF137	IF137	IH32C	IRENT2
IF27B42	IFTEXB4	IF138	IF138	IH32D	IRENT3
IF27B43	IFTEXC4	IF139	IF139	IH32E	IRENT4
IF27B51	IFTEXA5	IF140	IF140	IH32F	IRENT5
IF27B52	IFTEXB5	IF141	IF141	IH32G	IRENT8
IF27B53	IFTEXC5	IF142	IF142	IH32H	IRENT6
IF27B61	IFTEXA6	IF151	IF151	IH33	IRENTHB
IF27B62	IFTEXB6	IF152	IF152	IH34	IRENTG
IF27B63	IFTEXC6	IF153	IF153	IH35	IRENTG
IF27C1	IFTEXAV	IF154	IF154	IH36	IRENTGW
IF27C2	IFTEXBV	IF155	IF155	IH37	IXPHSDF
IF27C3	IFTEXCV	IF156	IF156	IH38A	IXPHSD1
IF27DOC1	IFTEXAW	IF157	IF157	IH38B	IXPHSD2
IF27DOC2	IFTEXBW	IF158	IF158	IH39	IXPHSDB
IF27DOC3	IFTEXCW	IF159	IF159	IH40A	IHSBTH
IF28	ISPINHH	IH0AD	IHHDOI	IH40A	IHSGDN
IF29A	IHUBUYS	IH0AM	IHHMOI	IH40A	IHSKCH
IF29B	IHUFYRS	IH0AY	IHHYOI4	IH40A	IHSTLT
IF29C	IHUMOPS	IH0BH	IHHSOIH	IH40B	IHSBTHS
IF29D	IHUIRON	IH0BM	IHHSOIM	IH40B	IHSGDNS
IF30	IHHCH12	IH0C	IHSTYPE	IH40B	IHSKCHS
IF31	IHUSITS	IH1A	IHSRINS	IH40B	IHSTLTS
IF32	IHOWLNG	IH2	IHSROOM	IH41A	IXPGASY
IF33	ICARUSE	IH3	IHSOWND	IH41B	IXPLECY
IF34M1	IEVENT1	IH4M1	IHSOWR1	IH41C	IXPOILY
IF34M1	IEVENT1S	IH4M2	IHSOWR2	IH41D	IXPSFLY
IF34M2	IEVENT2	IH5	IHSVAL	IH42	IHEATCH
IF34M2	IEVENT2S	IH6	IMGHAVE	IH43	IHEATYP
IF34M3	IEVENT3	IH7	IHSOWRP	IH44A	IHSPRBG
IF34M3	IEVENT3S	IH8	IMGYNOT	IH44B	IHSPRBH
IF34M4	IEVENT4	IH9	IHSCOST	IH44C	IHSPRBI
IF34M4	IEVENT4S	IH10	IHSYR04	IH44D	IHSPRBJ
IF35A	IIVFA	IH12	IMGYR04	IH44E	IHSPRBK
IF35B	IIVFB	IH13	IMGLY	IH44F	IHSPRBL
IF35C	IIVFC	IH14	IHSIVW8	IH44G	IHSPRBM
IF35D	IIVFD	IH17	IMGOLD	IH44H	IHSPRBN
IF35E	IIVFE	IH18	IMGLIFE	IH44I	IHSPRBO
IF36H	IIVFOIH	IH19	IMGTYPE	IH44J	IHSPRBP
IF36M	IIVFOIM	IH20	IMGXTRA	IH44K	IHSPRBQ
IF37	IIVSC	IH21	IMGNEW	IH45	IHSCTAX
IF101	IF101	IH22A	IMGXTY1	IH46	IHS2OWND
IF102	IF102	IH22B	IMGXTY2	IH47	IHS2VAL
IF103	IF103	IH22C	IMGXTY3	IH49	IMGTOT
IF104	IF104	IH22D	IMGXTY4	IH50	ICDHAVE
IF105	IF105	IH22E	IMGXTY5	IH51A	ICD1USE
IF106	IF106	IH23	IXPMG	IH51B	ICD2USE
IF116	IF116	IH24A	IXPMG1	IH51C	ICD10USE
IF118	IF118	IH24B	IXPMG2	IH51D	ICD11USE
IF119	IF119	IH24C	IXPMG3	IH51E	ICD3USE
IF121	IF121	IH24D	IXPMG4	IH51F	ICD4USE
IF122	IF122	IH25	IHSJB	IH51G	ICD5USE
IF124	IF124	IH26M1	IRENTP1	IH51H	ICD6USE
IF125	IF125	IH26M2	IRENTP2	IH51I	ICD7USE
IF126	IF126	IH27	IRENTLL	IH51J	ICD8USE
IF127	IF127	IH28	IRENTF	IH51K	ICD9USE
IF128	IF128	IH30	IRENT	IH51L	ICD12USE
IF132	IF132	IH31	IRENTW	IH52	ICDBGHT
IF135	IF135	IH32A	IRENT1	IH53A	ICD1NEW

IH53B	ICD2NEW	II6A	IIV6A	IM2M	IHLPRBM
IH53C	ICD10NEW	II6B	IIV6B	IM2M0	IHLPRB
IH53D	ICD11NEW	II6C	IIV6C	IM3	IHLSF1
IH53E	ICD3NEW	II6D	IIV6D	IM4	IHLSF2
IH53F	ICD4NEW	II6E	IIV6E	IM5A	IHLSF3A
IH53G	ICD5NEW	II7	IIV6F	IM5B	IHLSF3B
IH53H	ICD6NEW	II8	IIV7	IM5C	IHLSF3C
IH53I	ICD7NEW	IJ5D	ICJSBGD	IM5D	IHLSF3D
IH53J	ICD8NEW	IJ5M	ICJSBGM	IM5E	IHLSF3E
IH53K	ICD9NEW	IJ5Y	ICJSBGY4	IM5F	IHLSF3F
IH53L	ICD12NEW	IJ6	INEMST	IM5G	IHLSF3G
IH54A	ICD1CST	IJ7D	ICJSBGD	IM5H	IHLSF3H
IH54B	ICD2CST	IJ7M	ICJSBGM	IM5I	IHLSF3I
IH54C	ICD10CST	IJ7Y	ICJSBGY4	IM5J	IHLSF3J
IH54D	ICD11CST	IJ8	ICJSBLY	IM6A	IHLSF4A
IH54E	ICD3CST	IJ9	IJHSTAT	IM6B	IHLSF4B
IH54F	ICD4CST	IJ10D	IJHBGD	IM6C	IHLSF4C
IH54G	ICD5CST	IJ10M	IJHBGM	IM6D	IHLSF4D
IH54H	ICD6CST	IJ10Y	IJHBGY4	IM7A	IHLSF5A
IH54I	ICD7CST	IJ12	INJBS	IM7B	IHLSF5B
IH54J	ICD8CST	IJ14	IJHSOC	IM7C	IHLSF5C
IH54K	ICD9CST	IJ16	IJHSEMP	IM8	IHLSF6
IH54L	ICD12CST	IJ17	IJHBOSS	IM9	IHLSF7
IH55	IXPHP	IJ18	IJHSECT	IM10	IHLSF8
IH56	IXPHPDF	IJ19	IJHMNGR	IM11A	IHLSF9A
IH57A	IHSCANA	IJ21	IJHPLDF	IM11B	IHLSF9B
IH57B	IHSCANB	IJ22	IJHSIC	IM11C	IHLSF9C
IH57C	IHSCANC	IJ23	IJHSIZE	IM11D	IHLSF9D
IH57D	IHSCAND	IJ24	IJHPAYL	IM11E	IHLSF9E
IH57E	IHSCANE	IJ25OC	IJHPYLW	IM11F	IHLSF9F
IH57F	IHSCANF	IJ26	IJHPYLG	IM11G	IHLSF9G
IH58A	IHSCNTA	IJ27	IJHSTPY	IM11H	IHLSF9H
IH58B	IHSCNTB	IJ28	IJBLKY	IM11I	IHLSF9I
IH58C	IHSCNTC	IJ31	IJBHAD	IM11J	IHLSF9J
IH58D	IHSCNTD	IJ32	IJLEND4	IM12A	IHLSF10A
IH58E	IHSCNTE	IJ33	IJLSOC	IM12B	IHLSF10B
IH58F	IHSCNTF	IJ34	IJLSIC	IM12C	IHLSF10C
IH59	IXPFOOD	IJ35	IJLSEMP	IM12D	IHLSF10D
IH60	INCARS	IJ36	IJLBOSS	IM13	IHL2GP
IH61	ICAROWN	IJ37	IJLMNGR	IM14	IHL2HOP
IH62M1	IIVH1	IJ38	IJLSIZE	IM15	IXDTS
IH62M2	IIVH2	IJ39A	IIVJA	IM16	INXDTS
IH62M3	IIVH3	IJ39B	IIVJB	IM17	IHOSP
IH63H	IHHFOIH	IJ39C	IIVJC	IM18	IHOSPD
IH63M	IHHFOIM	IJ39D	IIVJD	IM20	IHOSPCH
IHG2	IHGR2R	IJ39E	IIVJE	IM21	IHOSP NHS
IHG3	IHGSEX	IM1	IHLDSBL	IM22	IHL CVR
IHG4M	IHGBM	IM2A	IHLPRBA	IM23	IHL CVRH
IHG4Y	IHGBY	IM2B	IHLPRBB	IM24	IHL CVRL
IHG8	IMASTAT	IM2C	IHLPRBC	IM25	IHL SV
IHG9	IHGSPN	IM2D	IHLPRBD	IM26A	IHL SVA
IHG10	IHGEMP	IM2E	IHLPRBE	IM26B	IHL SVB
IHG11	IHG FNO	IM2F	IHLPRBF	IM26C	IHL SVC
IHG12	IHG MNO	IM2G	IHLPRBG	IM26D	IHL SVD
IHG13	IHG RA	IM2H	IHLPRBH	IM26E	IHL SVE
II1	IIV1	IM2I	IHLPRBI	IM26F	IHL SVF
II2	IIV2	IM2J	IHLPRBJ	IM26G	IHL SVG
II4	IIV4	IM2K	IHLPRBK	IM26H	IHL SVH
II5	IIV5	IM2L	IHLPRBL	IM26I	IHL SVI

IM26J1	IHLSVJ	IM41P3	IAIDHUC	IS2H	IOPFAMH
IM26J2	IHLSVK	IM42	IAIDXHH	IS2I	IOPFAMI
IM26L	IHLSVL	IM43	INAIDXHH	IS3A	ILFSAT1
IM26M	IHLSVM	IM44M1	IAIDHU1	IS3B	ILFSAT2
IM27A	IHLSVAN	IM44M2	IAIDHU2	IS3C	ILFSAT3
IM27B	IHLSVBN	IM45A	IIVMA	IS3D	ILFSAT4
IM27C	IHLSVCN	IM45B	IIVMB	IS3E	ILFSAT5
IM27D	IHLSVDN	IM45C	IIVMC	IS3F	ILFSAT6
IM27E	IHLSVEN	IM45D	IIVMD	IS3G	ILFSAT7
IM27F	IHLSVFN	IM45E	IIVME	IS3H	ILFSAT8
IM27G	IHLSVGN	IM46	IAIDHRS	IS4A	ILFSATO
IM27H	IHLSVHN	IP2B	IPRRS2I	IS4B	ILFSATL
IM27I	IHLSVIN	IP2C	IPRIPN	IS5A	IXSUPA
IM27J1	IHLSVJN	IP2D	IPRWYH	IS5B	IXSUPB
IM27J2	IHLSVKN	IP3	IPPLEVR	IS5C	IXSUPC
IM27L	IHLSVLN	IP10M	IPRESBGM	IS6A	ISSUPA
IM27M	IHLSVMN	IP10Y	IPRESBY4	IS6B	ISSUPB
IM28A	IHLSVAF	IP11	IPRESLY	IS6C	ISSUPC
IM28B	IHLSVBF	IP23	IPRFEHQ	IS6D	ISSUPD
IM28C	IHLSVCF	IP25	IPRSEHQ	IS6E	ISSUPE
IM28D	IHLSVDF	IP48	IPRJBFT	IS7A	ISSUP1
IM28E	IHLSVEF	IP49M	IPRJBBGM	IS7B	ISSUPR2R
IM28F	IHLSVFF	IP49Y	IPRJBBY4	IT2B	ITELWHY
IM28G	IHLSVGF	IP50	IPRJBLV	IT45	ITLFIYRL
IM28H	IHLSVHF	IP60A	IPRF101	IT50	ITLFIYR
IM28I	IHLSVIF	IP60B	IPRF102	IV1A	IOPNATA
IM28J1	IHLSVJF	IP60C	IPRF116	IV1B	IOPNATB
IM28J2	IHLSVKF	IP60D	IPRF131	IV1C	IOPNATC
IM28L	IHLSVLF	IP60F	IPRF135	IV1D	IOPNATD
IM28M	IHLSVMF	IP60G	IPRF137	IV1E	IOPNATE
IM29	IHLCK	IP60H	IPRF139	IV1F	IOPNATF
IM30A	IHLCKA	IP60J	IPRF141	IV2	IVOTE1
IM30B	IHLCKB	IP60NONE	IPRFIRN	IV3	IVOTE2
IM30C	IHLCKC	IP61	IPREARN	IV4	IVOTE3
IM30D	IHLCKD	IP61	IPRFITB	IV5	IVOTE4
IM30E	IHLCKE	IPI1A	IIVPA	IV6	IVOTE5
IM30F	IHLCKI	IPI1B	IIVPB	IV7	IVOTE7
IM30G	IHLCKF	IPI1C	IIVPC	IV8	IVOTE8
IM30H	IHLCKG	IPI1D	IIVPD	IV9	ISWVT1
IM30I	IHLCKH	IPI1E	IIVPE	IV10	ISWVT2
IM31A	IHLCKAN	IS1A	IGHQA	IV11	ISWVT3
IM31B	IHLCKBN	IS1B	IGHQB	IV12	IOPDEV1
IM31C	IHLCKCN	IS1C	IGHQC	IV13	IOPDEV2
IM31D	IHLCKDN	IS1D	IGHQD	IV14	IOPEUR1
IM31E	IHLCKEN	IS1E	IGHQE	IV15	IOPEUR2
IM31F	IHLCKIN	IS1F	IGHQF	IV16	IOPEUR3
IM31G	IHLCKFN	IS1G	IGHQG	IV17	IOPEUR4
IM31H	IHLCKGN	IS1H	IGHQH	IV18	IORGGM
IM31I	IHLCKHN	IS1I	IGHQI	IV19A	IORGMA
IM32	ISMEVER	IS1J	IGHQJ	IV19B	IORGMB
IM33	ISMNOW	IS1K	IGHQK	IV19C	IORGMC
IM34	INCIGS	IS1L	IGHQL	IV19D	IORGMD
IM35	ISMCIIGS	IS2A	IOPFAMA	IV19E	IORGME
IM36	ISMNCIGS	IS2B	IOPFAMB	IV19F	IORGMF
IM37	ISMSTOP	IS2C	IOPFAMC	IV19G	IORGMG
IM38	ISMAGBG	IS2D	IOPFAMD	IV19H	IORGMP
IM40	IAIDHH	IS2E	IOPFAME	IV19I	IORGMQ
IM41P1	IAIDHUA	IS2F	IOPFAMF	IV19J	IORGMO
IM41P2	IAIDHUB	IS2G	IOPFAMG	IV19K	IORGMH

IV19L	IORGMI	IY31	IYPLONE	JD9G	JMOVJBG
IV19M	IORGMJ	IY32	IYPBORED	JD9H	JMOVJBH
IV19N	IORGMK	IY33	IYPESTA	JD9I	JMOVJBI
IV19O	IORGML	IY34	IYPESTI	JD10M1	JMOVY1
IV19P	IORGMM	IY35	IYPESTB	JD10M2	JMOVY2
IV20	IORGA	IY36	IYPESTJ	JD11	JSEX
IV20A	IORGAA	IY37	IYPESTC	JD11M	JDOBM
IV20B	IORGAB	IY38	IYPESTK	JD11Y	JDOBY
IV20C	IORGAC	IY39	IYPESTE	JD12	JSEX
IV20D	IORGAD	IY40	IYPESTF	JD14	JMLSTAT
IV20E	IORGAE	IY41	IYPESTH	JD15	JMLCHNG
IV20F	IORGAF	IY42	IYPTCHA	JD16M	JMLCHM
IV20G	IORGAG	IY43	IYPTCHB	JD16Y	JMLCHY4
IV20H	IORGAP	IY44	IYPHSW	JD17	JJBSTAT
IV20I	IORGAQ	IY45	IYPHAP	JD18	JEDLYR
IV20J	IORGAO	IY46	IYPHFM	JD19	JEDTYPE1
IV20K	IORGAH	IY47	IYPHFR	JD19	JEDTYPE2
IV20L	IORGAI	IY48	IYPHLF	JD20	JEDBLR2
IV20M	IORGAJ	IY49	IYPOFF	JD20	JEDBLR1
IV20N	IORGAK	IY50	IYPOFB	JD21M	JEDBGM1
IV20O	IORGAL	IY51	IYPOFJ	JD21M2	JEDBGM2
IV20P	IORGAM	IY52	IYPOPL	JD21Y	JEDBGY1
IV21	IFRNA	IY53	IYPVTE6	JD21Y2	JEDBGY2
IV22	IFRNB	IY54	IYPVTE3	JD22	JEDENNE1
IV23	IFRNC	IY55	IYPCRWRA	JD22M	JEDENM1
IV24	IOPRLG1	IY56	IYPCRWRB	JD22M2	JEDENM2
IV25	IOPRLG2	IY57	IYPEXPL	JD22NE2	JEDENNE2
IV26	IOPRLG3	IY58	IYPVAND	JD22Y	JEDENY1
IY1	IYTVHRS	IY59	IYPTRUN	JD22Y2	JEDENY2
IY2	IYTVSTP	IY60	IYPOPSC	JD23A	JEDFEEA2
IY3	IYPFPC	IY61	IYPLVSC	JD23A	JEDFEEA1
IY4	IYPFPCGM	IY62	IYPLVHM	JD23B	JEDFEEB2
IY5	IYPPALS	IY63	IYPWHR	JD23B	JEDFEEB1
IY6	IYPPALO	IY64	IYPPAY	JD23C	JEDFEEC1
IY7	IYPUTEL	IY65	IYPFSOC	JD23C	JEDFEEC2
IY8	IYPLATE	IY66	IYPDLFA	JD23D	JEDFEED2
IY9	IYPFBEAU	IY67	IYPDLFB	JD23D	JEDFEED1
IY10	IYPFCLUB	JD0AD	JDOID	JD23E	JEDFEEE1
IY11	IYPFDISC	JD0AM	JDOIM	JD23E	JEDFEEE2
IY12	IYPFSPOR	JD0AY	JDOIY4	JD23F	JEDFEEF1
IY13	IYPARGM	JD0BA	JIVLYR	JD23F	JEDFEEF2
IY14	IYPARGF	JD0BB	JIVSTAT2	JD23G	JEDFEEG1
IY15	IYPTLKM	JD0D	JRACH12	JD23G	JEDFEEG2
IY16	IYPTLKF	JD1H	JIVSOIH	JD24	JEDQUAL1
IY17	IYPNPAL	JD1M	JIVSOIM	JD24	JEDQUAL2
IY18	IYPMKFRN	JD2	JLKNBRD	JD25A1	JEDQLA1
IY19	IYPFGHT	JD3	JLKMOVE	JD25A1	JEDQLAN1
IY20	IYPEATN	JD4	JLKMOVY	JD25A2	JEDQLIN2
IY21	IYPSAVE	JD5	JXPMOVE	JD25A2	JEDQLDN2
IY22L	IYPPKML	JD6	JPLNEW	JD25A2	JEDQLJN2
IY22P	IYPPKMP	JD7M	JPLNOWM	JD25A2	JEDQLHN2
IY23	IYPSMEV	JD7Y	JPLNOWY4	JD25A2	JEDQLGN2
IY24	IYPSMOF	JD8	JMOVJB	JD25A2	JEDQLFN2
IY25	IYPSMLW	JD9A	JMOVJBA	JD25A2	JEDQLFN2
IY26	IYPOPSM	JD9B	JMOVJBB	JD25A2	JEDQLBN2
IY27	IYPDGFR	JD9C	JMOVJBC	JD25A2	JEDQLAN2
IY28	IYPSAD	JD9D	JMOVJBD	JD25A2	JEDQLA2
IY29	IYPWOR	JD9E	JMOVJBE	JD25A2	JEDQLCN2
IY30	IYBULL	JD9F	JMOVJBF	JD25B1	JEDQLB1

JD25B1	JEDQLBN1	JD49Y	JCOH1BY	JD66F	JNQFEDF
JD25B2	JEDQLB2	JD50	JCOH1MR	JD66G	JNQFEDG
JD25C1	JEDQLC1	JD51M	JCOH1EM	JD66H	JNQFEDH
JD25C1	JEDQLCN1	JD51Y	JCOH1EY	JD66I	JNQFEDI
JD25C2	JEDQLC2	JD52	JNMAR	JD66J	JNQFEDJ
JD25D1	JEDQLDN1	JD53M	JLMAR1M	JD66K	JNQFEDK
JD25D1	JEDQLD1	JD53Y	JLMAR1Y	JD66L	JNQFEDL
JD25D2	JEDQLD2	JD54	JLPRNT	JD66M	JNQFEDM
JD25E1	JEDQLE1	JD55	JLNPRNT	JD66N	JNQFEDN
JD25E1	JEDQLEN1	JD56M	JCH1BM	JD66O	JNQFEDO
JD25E2	JEDQLE2	JD56Y	JCH1BY	JD66P	JNQFEDP
JD25F1	JEDQLF1	JD57	JSCEND	JD66Q	JNQFEDQ
JD25F1	JEDQLFN1	JD57NA	JSCHOOL	JD66R	JNQFEDR
JD25F2	JEDQLF2	JD58	JSCTYPE	JD66S	JNQFEDS
JD25G1	JEDQLGN1	JD59	JSCNOW	JD66T	JNQFEDT
JD25G1	JEDQLG1	JD60	JFETYPE	JD67	JTRAIN
JD25G2	JEDQLG2	JD61	JFEEND	JD68	JNTRAIN
JD25H1	JEDQLHN1	JD61NA	JFENOW	JD69	JTRPLCE1
JD25H1	JEDQLH1	JD62	JQFHAS	JD69	JTRPLCE2
JD25H2	JEDQLH2	JD63A	JQFA	JD69	JTRPLCE3
JD25I1	JEDQLIN1	JD63B	JQFB	JD70A	JTRWHYA2
JD25I1	JEDQLI1	JD63C	JQFC	JD70A1	JTRWHYA1
JD25I2	JEDQLI2	JD63D	JQFD	JD70A3	JTRWHYA3
JD25J1	JEDQLJN1	JD63E	JQFE	JD70B	JTRWHYB2
JD25J1	JEDQLJ1	JD63F	JQFF	JD70B1	JTRWHYB1
JD25J2	JEDQLJ2	JD63G	JQFG	JD70B3	JTRWHYB3
JD25NA	JEDQNN2	JD63H	JQFH	JD70C	JTRWHYC2
JD25NON	JEDQNN1	JD63I	JQFI	JD70C1	JTRWHYC1
JD26	JEDOQL2	JD63J	JQFJ	JD70C3	JTRWHYC3
JD26	JEDOQL1	JD63K	JQFK	JD70D	JTRWHYD2
JD26NON	JEDOQLN2	JD63L	JQFL	JD70D1	JTRWHYD1
JD26NON	JEDOQLN1	JD63M	JQFM	JD70D3	JTRWHYD3
JD27	JEDMORE2	JD63N	JQFN	JD70E	JTRWHYE2
JD27	JEDMORE1	JD64	JQFED	JD70E1	JTRWHYE1
JD29DST	JPLBORND	JD65A	JQFEDA	JD70E3	JTRWHYE3
JD29OS	JPLBORNC	JD65B	JQFEDB	JD71	JTRQ2
JD30	JYR2UK4	JD65C	JQFEDC	JD71	JTRQ3
JD31	JMLSTAT	JD65D	JQFEDD	JD71	JTRU1
JD32M1	JCITZN1	JD65E	JQFEDE	JD71	JTRU3
JD32M2	JCITZN2	JD65F	JQFEDF	JD71	JTRU2
JD33	JRACE	JD65G	JQFEDG	JD71	JTRQ1
JD34	JJBSTAT	JD65H	JQFEDH	JD72A	JTRFEEA2
JD36	JPASOC	JD65I	JQFEDI	JD72A1	JTRFEEA1
JD36ANA	JPAJU	JD65J	JQFEDJ	JD72A3	JTRFEEA3
JD37	JPASEMP	JD65K	JQFEDK	JD72B	JTRFEEB2
JD38	JPABOSS	JD65L	JQFEDL	JD72B1	JTRFEEB1
JD39	JPAMNGR	JD65M	JQFEDM	JD72B3	JTRFEEB3
JD40	JMASOC	JD65N	JQFEDN	JD72C	JTRFEEC2
JD40	JMAJU	JD65O	JQFEDO	JD72C1	JTRFEEC1
JD41	JMASEMP	JD65P	JQFEDP	JD72C3	JTRFEEC3
JD42	JMABOSS	JD65Q	JQFEDQ	JD72E	JTRFEEE2
JD43	JMAMNGR	JD65R	JQFEDR	JD72E1	JTRFEEE1
JD44	JJ1SOC	JD65S	JQFEDS	JD72E3	JTRFEEE3
JD44NA	JJ1NONE	JD65T	JQFEDT	JD72F	JTRFEEF2
JD45	JJ1SEMP	JD66A	JNQFEDA	JD72F1	JTRFEEF1
JD46	JJ1BOSS	JD66B	JNQFEDB	JD72F3	JTRFEEF3
JD47	JJ1MNGR	JD66C	JNQFEDC	JD72G	JTRFEEG2
JD48	JLCOH	JD66D	JNQFEDD	JD72G1	JTRFEEG1
JD49M	JCOH1BM	JD66E	JNQFEDE	JD72G3	JTRFEEG3

JD73	JTRQLXP3	JD76GN3	JTRQLGN3	JD93	JLNGWKE
JD73	JTRQLXP2	JD76HN1	JTRQLHN1	JD94	JLNGWKX
JD73	JTRQLXP1	JD76HN2	JTRQLHN2	JD95A	JIVDA
JD74	JTRQLAC1	JD76HN3	JTRQLHN3	JD95B	JIVDB
JD74	JTRQLAC2	JD76IN1	JTRQLIN1	JD95C	JIVDC
JD74	JTRQLAC3	JD76IN2	JTRQLIN2	JD95D	JIVDD
JD75A1	JTRQLA1	JD76IN3	JTRQLIN3	JD95E	JIVDE
JD75A2	JTRQLA2	JD76JN1	JTRQLJN1	JE1	JJBHAS
JD75A3	JTRQLA3	JD76JN2	JTRQLJN2	JE2	JJBOFF
JD75B1	JTRQLB1	JD76JN3	JTRQLJN3	JE3	JJBOFFY
JD75B2	JTRQLB2	JD77	JTROQL1	JE4	JJBTERM1
JD75B3	JTRQLB3	JD77	JTROQL2	JE5	JJBSOC
JD75C1	JTRQLC1	JD77	JTROQL3	JE6	JJBASIC
JD75C2	JTRQLC2	JD77	JTROQLN3	JE7	JJBSEMP
JD75C3	JTRQLC3	JD77NON	JTROQLN1	JE8	JJBMNGR
JD75D1	JTRQLD1	JD77NON	JTROQLN2	JE9	JJBSECT
JD75D2	JTRQLD2	JD78	JTRMORE1	JE10	JJBFSIZE
JD75D3	JTRQLD3	JD78	JTRMORE2	JE11	JJBHRS
JD75E1	JTRQLE1	JD79A	JBIRHH	JE12	JJBOT
JD75E2	JTRQLE2	JD79B	JMABWLY	JE13	JJBOTPD
JD75E3	JTRQLE3	JD80	JMABWNL	JE14	JJBHRLK
JD75F1	JTRQLF1	JD81AGM	JBWTAGM1	JE15	JJBPL
JD75F2	JTRQLF2	JD81AGM	JBWTAGM2	JE16	JJBTTWT
JD75F3	JTRQLF3	JD81AGM	JBWTAGM3	JE17	JJBTTWM
JD75G1	JTRQLG1	JD81PN1	JBWTPN1	JE18B	JJBSTAT2
JD75G2	JTRQLG2	JD81PN2	JBWTPN2	JE18D	JJBSTAT4
JD75G3	JTRQLG3	JD81PN3	JBWTPN3	JE18F	JJBSTAT6
JD75H1	JTRQLH1	JD82	JBWTPX1	JE18G	JJBSTAT7
JD75H2	JTRQLH2	JD82	JBWTPX2	JE19	JJBSTAT
JD75H3	JTRQLH3	JD82	JBWTPX3	JE20	JJPAYGL
JD75I1	JTRQLI1	JD83	JBWTEL1	JE21OC	JJPAYGW
JD75I2	JTRQLI2	JD83	JBWTEL2	JE22	JJPAYNL
JD75I3	JTRQLI3	JD83	JBWTEL3	JE23A	JJPYTC
JD75J1	JTRQLJ1	JD84	JBWTWK1	JE23B	JJPYWFTC
JD75J2	JTRQLJ2	JD84	JBWTWK2	JE23C	JJPYWFTCW
JD75J3	JTRQLJ3	JD84	JBWTWK3	JE23D	JJPYDPTC
JD75NON	JTRQLNN3	JD85	JBWTKN1	JE23E	JJPYDPTCW
JD75NON	JTRQLNN1	JD85	JBWTKN2	JE23OC	JJPAYNW
JD75NON	JTRQLNN2	JD85	JBWTKN3	JE24	JJPAYSLP
JD76AN1	JTRQLAN1	JD86LB1	JBWTLB1	JE26	JJPAYUSL
JD76AN2	JTRQLAN2	JD86LB2	JBWTLB2	JE27	JJPAYU
JD76AN3	JTRQLAN3	JD86LB3	JBWTLB3	JE28OC	JJPAYUW
JD76BN1	JTRQLBN1	JD86OZ1	JBWTOZ1	JE29	JJPAYUG
JD76BN2	JTRQLBN2	JD86OZ2	JBWTOZ2	JE30A	JJPAYDF1
JD76BN3	JTRQLBN3	JD86OZ3	JBWTOZ3	JE30B	JJPAYDF2
JD76CN1	JTRQLCN1	JD87	JBWTGM1	JE30C	JJPAYDF3
JD76CN2	JTRQLCN	JD87	JBWTGM2	JE30D	JJPAYDF4
JD76CN3	JTRQLCN	JD87	JBWTGM3	JE30E	JJPAYDF5
JD76DN1	JTRQLDN	JD88	JBWTG51	JE30F	JJPAYDF6
JD76DN2	JTRQLDN	JD88	JBWTG52	JE30G	JJPAYDF7
JD76DN3	JTRQLDN	JD88	JBWTG53	JE30H	JJPAYDF9
JD76EN1	JTRQLEN	JD89	JLNGENG	JE30I	JJPAYDF8
JD76EN2	JTRQLEN	JD89	JLNGOTH	JE31	JJPAYTYP
JD76EN3	JTRQLEN	JD90A	JLNGUSA	JE32	JJOVTPAY
JD76FN1	JTRQLFN	JD90B	JLNGUSB	JE33	JJEXTRATE
JD76FN2	JTRQLFN2	JD90NON	JLNGUSN	JE33	JJEXTREST
JD76FN3	JTRQLFN3	JD91	JLNGCNV	JE34	JJBASRATE
JD76GN1	JTRQLGN1	JD92	JLNGRED	JE34	JJBASREST
JD76GN2	JTRQLGN2	JD93	JLNGWKO	JE35	JJOVTREST

JE35	JOVTRATE	JE95	JJSPL	JEG4M	JHGBM
JE39	JJBPERFP	JE96	JJSTTWT	JEG4Y	JHGBY
JE40	JJBONUS	JE97	JJSTTWM	JEG6	JIVIOLW
JE41	JJBONAM	JE98A	JJSSAT1	JEG6	JIVLYR
JE42	JJBONG	JE98B	JJSSAT2	JEG7	JIVSTAT1
JE43	JJBRISE	JE98D	JJSSAT4	JEG8	JIVELIG
JE44	JTUJBPL	JE98E	JJSSAT5	JEG9	JHHMEM
JE45	JTUIN1	JE99	JJSSAT	JEG10	JNEWHY
JE46	JJBOPPS	JE100D	JJSBGD	JEG11	JLVWHY
JE46OC	JPAYSW	JE100M	JJSBGM	JEG12M	JNEMNHN
JE47	JJBTIME	JE100Y	JJSBGY4	JEG12M	JLVMN
JE48	JJBWKHRC	JE101A	JJBLKCHA	JEG12Y	JNEYRJN4
JE48	JJBWKHRH	JE101B	JJBLKCHB	JEG12Y	JLVYR4
JE48	JJBWKHRA	JE101C	JJBLKCHC	JEG13	JLVLOC
JE48	JPAYSG	JE101D	JJBLKCHD	JEG14	JIVFIO
JE48	JJBWKHRB	JE101E	JJBLKCHE	JEG15	JIVRREF
JE48	JJBWKHRD	JE102A	JJBXPCHA	JEG16	JIVIREIS
JE48	JJBWKHRF	JE102B	JJBXPCHB	JEG18	JIVFIO
JE48	JJBWKHRG	JE102C	JJBXPCHC	JF2	JNFR
JE48	JJBWKHRE	JE102D	JJBXPCHD	JF2	JNF1
JE49	JJBPEN	JE102E	JJBXPCHD	JF3A	JFICODE
JE4A	JJBTERM2	JE105M1	JJBCHC1	JF3B01	JFR01
JE50	JJBPENM	JE105M2	JJBCHC2	JF3B02	JFR02
JE52D	JJBBDG	JE105M3	JJBCHC3	JF3B03	JFR03
JE52M	JJBBDGM	JE107	JXPCHCF	JF3B04	JFR04
JE52Y	JJBBDGY4	JE108	JXPCHC	JF3B05	JFR05
JE53	JJBBDGLY	JE109	JHUXPCH	JF3B06	JFR06
JE54	JPAYS	JE110	JHUNURS	JF3B07	JFR07
JE59	JPAYLY	JE111	JJULK1	JF3B08	JFR08
JE60OC	JPAYLYW	JE112	JJULK4	JF3B09	JFR09
JE61	JPAYLYG	JE113A	JJULKA	JF3B10	JFR10
JE73	JJSBOSS	JE113B	JJULKB	JF3B11	JFR11
JE74	JJSSIZE	JE113C	JJULKC	JF3B12	JFR12
JE75	JJSHRS	JE113D	JJULKD	JF3B13	JFR13
JE76	JJSHRLK	JE113E	JJULKE	JF3B14	JFR14
JE77	JJSTIME	JE114	JJULKJB	JF3B15	JFR15
JE78	JJSTYPEB	JE115	JJUBGN	JF3B16	JFR16
JE79	JJSACCS	JE116	JJUSPEC	JF3B17	JFR17
JE80	JJSPART	JE117	JJUSOC	JF3B18	JFR18
JE81BM	JJSPRBM	JE118	JJUHRXS	JF3B19	JFR19
JE81BY	JJSPRBY4	JE119	JJUPAYX	JF3B20	JFR20
JE81EM	JJSPREM	JE120	JJUPAYL	JF3BAL	JFRALL
JE81EY	JJSPREY4	JE121	JJUHRSL	JF3C	JFRNOW
JE82	JJSPRF	JE124	JEPROSH	JF3D	JFRVAL
JE83	JJSPRLS	JE129	JEAAGE	JF3EOC	JFRW
JE84	JJSPRTX	JE130	JJBUB	JF3F	JFRJT
JE85	JJSPRNI	JE131	JJBUBY	JF3FPN	JFRJTPN
JE86BM	JJSPRBM	JE132	JJ2HAS	JF3SEQ	JFISEQ
JE86BY	JJSPRBY4	JE133	JJ2SOC	JF4	JFISIT
JE86EM	JJSPREM	JE134	JJ2SEMP	JF5	JFISITC
JE86EY	JJSPREY4	JE135	JJ2HRS	JF6	JFISITY
JE87	JJSPRF	JE136	JJ2PAY	JF7	JFISITX
JE88	JJSPRLS	JE137A	JIVEA	JF8	JFCCARD
JE89	JJSPRTX	JE137B	JIVEB	JF9	JFIYRDIA
JE90	JJSPRNI	JE137C	JIVEC	JF10A	JFIYRDB1
JE91	JJSPAYU	JE137D	JIVED	JF10B	JFIYRDB2
JE92	JJSPAYW	JE137E	JIVEE	JF10C	JFIYRDB3
JE93	JJSPYTX	JEG3	PID	JF10D	JFIYRDB4
JE94	JJSPYNI	JEG4	JHGSEX	JF10E	JFIYRDB5

JF10F	JFIYRDB6	JF37H	JWINDFH	JF58	JDFWLD
JF11	JSAVE	JF38A	JXPMEAL	JF58A1	JDFWLD1
JF12	JSAVED	JF38B	JXPLEIS	JF58A2	JDFWLD2
JF12M1	JSAVEY1	JF39	JFTEXHH	JF58A3	JDFWLD3
JF12M2	JSAVEY2	JF40A	JFTEXA	JF58A4	JDFWLD4
JF13	JSAVREG	JF40B	JFTEXB	JF59A	JIVFA
JF14	JSAVLT	JF40C	JFTEXC	JF59B	JIVFB
JF15A	JNVESTA	JF41A1	JFTEXA1	JF59C	JIVFC
JF15A	JSVAC	JF41A2	JFTEXA2	JF59D	JIVFD
JF15B	JNVEST	JF41A3	JFTEXA3	JF59E	JIVFE
JF15B	JNVESTB	JF41A4	JFTEXA4	JF60H	JIVFOIH
JF15C	JNVESTC	JF41A5	JFTEXA5	JF60M	JIVFOIM
JF15D	JNVESTD	JF41A6	JFTEXA6	JF61	JIVSC
JF15E	JNVESTE	JF41B1	JFTEXB1	JF70I	JPRF125
JF15F	JNVESTF	JF41B2	JFTEXB2	JF101	JF101
JF15G	JNVESTG	JF41B3	JFTEXB3	JF102	JF102
JF15H	JNVESTH	JF41B4	JFTEXB4	JF103	JF103
JF15I	JNVESTI	JF41B5	JFTEXB5	JF104	JF104
JF15J	JNVESTJ	JF41B6	JFTEXB6	JF105	JF105
JF15NON	JNVESTNN	JF41C1	JFTEXC1	JF106	JF106
JF16	JSVACK	JF41C2	JFTEXC2	JF116	JF116
JF17A	JSVACKB1	JF41C3	JFTEXC3	JF118	JF118
JF17B	JSVACKB2	JF41C4	JFTEXC4	JF119	JF119
JF17C	JSVACKB3	JF41C5	JFTEXC5	JF121	JF121
JF17D	JSVACKB4	JF41C6	JFTEXC6	JF122	JF122
JF18	JSVACSJ	JF42A	JFTEXAV	JF124	JF124
JF19	JSVACSK	JF42B	JFTEXBV	JF125	JF125
JF20	JSVACSP	JF42C	JFTEXCV	JF126	JF126
JF21	JNVESTK	JF43A	JFTEXAW	JF127	JF127
JF22A	JNVESTC1	JF43B	JFTEXBW	JF128	JF128
JF22B	JNVESTC2	JF43C	JFTEXCW	JF132	JF132
JF22C	JNVESTC3	JF44	JDEBT	JF135	JF135
JF22D	JNVESTC4	JF45A	JDEBTA	JF136	JF136
JF23	JNVESTSJ	JF45B	JDEBTB	JF137	JF137
JF24	JNVESTSK	JF45C	JDEBTC	JF138	JF138
JF25	JNVESTSP	JF45D	JDEBTD	JF139	JF139
JF26	JPPPEN	JF45E	JDEBTE	JF140	JF140
JF27	JPENB4	JF45F	JDEBTF	JF141	JF141
JF28	JPENB4Y4	JF45G	JDEBTG	JF142	JF142
JF29	JPENB4V	JF45H	JDEBTH	JF151	JF151
JF30	JPENB4W	JF45I	JDEBTI	JF152	JF152
JF31	JPENYR4	JF46	JDEBTY	JF153	JF153
JF32	JPENADD	JF47A	JDEBTC1	JF154	JF154
JF33	JPENADV	JF47B	JDEBTC2	JF155	JF155
JF34	JPENADW	JF47C	JDEBTC3	JF156	JF156
JF35	JWINDF	JF47D	JDEBTC4	JF157	JF157
JF36A	JWINDFA	JF48	JDEBTSJ	JF158	JF158
JF36B	JWINDFB	JF49	JDEBTSK	JF159	JF159
JF36C	JWINDFC	JF50	JDEBTSP	JH0AD	JHHDOI
JF36D	JWINDFD	JF51	JSPINHH	JH0AM	JHHMOI
JF36F	JWINDFF	JF52A	JHUBUYS	JH0AY	JHHYOI4
JF36G	JWINDFG	JF52B	JHUFRRYS	JH0BH	JHHSOIH
JF36H	JWINDFH	JF52C	JHUMOPS	JH0BM	JHHSOIM
JF37A	JWINDFAY	JF52D	JHUIRON	JH0C	JHSTYPE
JF37B	JWINDFBY	JF53	JHHCH12	JH2	JHSROOM
JF37C	JWINDFCY	JF54	JHUSITS	JH3	JHSOWND
JF37D	JWINDFDY	JF55	JHOWLNG	JH4M1	JHSOWR1
JF37F	JWINDFFY	JF56	JCARUSE	JH4M2	JHSOWR2
JF37G	JWINDFGY	JF57	JMOBUSE	JH5	JHSVAL

JH6	JMGHAVE	JH41B	JXPLECY	JH54J	JCD8CST
JH7	JHSOWRP	JH41C	JXPOILY	JH54K	JCD9CST
JH8	JMGYNOT	JH41D	JXPSFLY	JH54L	JCD12CST
JH9	JHSCOST	JH42	JHEATCH	JH55	JPCNET
JH10	JHSYR04	JH43	JHEATYP	JH56	JXPHP
JH11	JHSCOST	JH44A	JHSPRBG	JH57	JXPHPDF
JH12	JMGYR04	JH44B	JHSPRBH	JH58A	JHSCANA
JH13	JMGLY	JH44C	JHSPRBI	JH58B	JHSCANB
JH14	JHSIVW9	JH44D	JHSPRBJ	JH58C	JHSCANC
JH14	JMGYR04	JH44E	JHSPRBK	JH58D	JHSCAND
JH16	JHSCOST	JH44F	JHSPRBL	JH58E	JHSCANE
JH17	JMGOLD	JH44G	JHSPRBM	JH58F	JHSCANF
JH18	JMGLIFE	JH44H	JHSPRBN	JH59A	JHSCNTA
JH19	JMGTYPE	JH44I	JHSPRBO	JH59B	JHSCNTB
JH1A	JHSRINS	JH44J	JHSPRBP	JH59C	JHSCNTC
JH20	JMGXTRA	JH44K	JHSPRBQ	JH59D	JHSCNTD
JH21	JMGNEW	JH45	JHSCTAX	JH59E	JHSCNTE
JH22A	JMGXTY1	JH46	JHS2OWND	JH59F	JHSCNTF
JH22B	JMGXTY2	JH47	JHS2VALO	JH60	JXPFOOD
JH22C	JMGXTY3	JH47A	JHS2VALA	JH61	JNCARS
JH22D	JMGXTY4	JH47B	JHS2VALB	JH62	JCAROWN
JH22E	JMGXTY5	JH47C	JHS2VALC	JH63	JCARVAL
JH23	JXPMG	JH47D	JHS2VALD	JH64M1	JIVH1
JH24A	JXPMG1	JH49	JMGTOT	JH64M2	JIVH2
JH24B	JXPMG2	JH50	JCDHAVE	JH64M3	JIVH3
JH24C	JXPMG3	JH51A	JCD1USE	JH65H	JHHFOIH
JH24D	JXPMG4	JH51B	JCD2USE	JH65M	JHHFOIM
JH25	JHSJB	JH51C	JCD10USE	JHG2	JHG2R
JH26M1	JRENTP1	JH51D	JCD11USE	JHG3	JHGSEX
JH26M2	JRENTP2	JH51E	JCD3USE	JHG4M	JHGBM
JH27	JRENTLL	JH51F	JCD4USE	JHG4Y	JHGBY
JH28	JRENTF	JH51G	JCD5USE	JHG8	JMASTAT
JH30	JRENT	JH51H	JCD6USE	JHG9	JHGSPN
JH31	JRENTW	JH51I	JCD7USE	JHG10	JHGEMP
JH32A	JRENT1	JH51J	JCD8USE	JHG10	JHGEMP
JH32B	JRENT7	JH51K	JCD9USE	JHG11	JHGFNO
JH32C	JRENT2	JH51L	JCD12USE	JHG11	JHGFNO
JH32D	JRENT3	JH52	JCDBGHT	JHG12	JHGMNO
JH32E	JRENT4	JH53A	JCD1NEW	JHG12	JHGMNO
JH32F	JRENT5	JH53B	JCD2NEW	JHG13	JHGRA
JH32G	JRENT8	JH53C	JCD10NEW	JHG13	JHGRA
JH32H	JRENT6	JH53D	JCD11NEW	JI1	JIV1
JH33	JRENTHB	JH53E	JCD3NEW	JI2	JIV2
JH34	JRENTG	JH53F	JCD4NEW	JI4	JIV4
JH35	JRENTG	JH53G	JCD5NEW	JI5	JIV5
JH36	JRENTGW	JH53H	JCD6NEW	JI5A	JIV5AA
JH37	JXPHSDF	JH53I	JCD7NEW	JI5B	JIV5AB
JH38A	JXPHSD1	JH53J	JCD8NEW	JI5C	JIV5AC
JH38B	JXPHSD2	JH53K	JCD9NEW	JI6A	JIV6A
JH39	JXPHSDB	JH53L	JCD12NEW	JI6B	JIV6B
JH40A	JHSGDN	JH54A	JCD1CST	JI6C	JIV6C
JH40A	JHSTLT	JH54B	JCD2CST	JI6D	JIV6D
JH40A	JHSBTH	JH54C	JCD10CST	JI6E	JIV6E
JH40A	JHSKCH	JH54D	JCD11CST	JI7	JIV6F
JH40B	JHSGDNS	JH54E	JCD3CST	JI8	JIV7
JH40B	JHSTLTS	JH54F	JCD4CST	JJ5D	JCJSBGD
JH40B	JHSBTHS	JH54G	JCD5CST	JJ5M	JCJSBGM
JH40B	JHSKCHS	JH54H	JCD6CST	JJ5Y	JCJSBGY4
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JJ7D	JCJSBGD	JM5B	JHLLTWA	JM28H	JHLSVHF
JJ7M	JCJSBGM	JM6	JHLIV65	JM28I	JHLSVIF
JJ7Y	JCJSBGY4	JM7A	JADLA	JM28J1	JHLSVJF
JJ8	JCJSBLY	JM7B	JADLAD	JM28J2	JHLSVKF
JJ9	JJHSTAT	JM8A	JADLB	JM28L	JHLSVLF
JJ10D	JJHBGD	JM8B	JADLBD	JM28M	JHLSVMF
JJ10M	JJHBGM	JM9A	JADLC	JM29	JHLCK
JJ10Y	JJHBGY4	JM9B	JADLCD	JM30A	JHLCKA
JJ12	JNJBS	JM10A	JADLD	JM30B	JHLCKB
JJ14	JJHSOC	JM10B	JADLDD	JM30C	JHLCKC
JJ16	JJHSEMP	JM11A	JADLE	JM30D	JHLCKD
JJ17	JJHBOSS	JM11B	JADLED	JM30E	JHLCKE
JJ18	JJHSECT	JM12A	JADLF	JM30F	JHLCKI
JJ19	JJHMNGR	JM12B	JADLFD	JM30G	JHLCKF
JJ21	JJHPLDF	JM13	JHL2GP	JM30H	JHLCKG
JJ22	JJHSIC	JM14	JHL2HOP	JM30I	JHLCKH
JJ23	JJHSIZE	JM15	JXDTS	JM31A	JHLCKAN
JJ24	JJHPAYL	JM16	JNXDTS	JM31B	JHLCKBN
JJ25OC	JJHPYLW	JM17	JHOSP	JM31C	JHLCKCN
JJ26	JJHPYLG	JM18	JHOSPD	JM31D	JHLCKDN
JJ27	JJHSTPY	JM20	JHOSPCH	JM31E	JHLCKEN
JJ28	JJBLKY	JM21	JHOSPNHS	JM31F	JHLCKIN
JJ31	JJBHAD	JM22	JHLCVR	JM31G	JHLCKFN
JJ32	JJLEND4	JM23	JHLCVRH	JM31H	JHLCKGN
JJ33	JJLSOC	JM24	JHLCVRL	JM31I	JHLCKHN
JJ34	JJLSIC	JM25	JHLSV	JM33	JSMOKER
JJ35	JJLSEMP	JM26A	JHLSVA	JM34	JNCIGS
JJ36	JJLBOSS	JM26B	JHLSVB	JM37A	JOPHLA
JJ37	JJLMNGR	JM26C	JHLSVC	JM37B	JOPHLB
JJ38	JJLSIZE	JM26D	JHLSVD	JM37C	JOPHLC
JJ39A	JIVJA	JM26E	JHLSVE	JM40	JAIDHH
JJ39B	JIVJB	JM26F	JHLSVF	JM41P1	JAIDHUA
JJ39C	JIVJC	JM26G	JHLSVG	JM41P2	JAIDHUB
JJ39D	JIVJD	JM26H	JHLSVH	JM41P3	JAIDHUC
JJ39E	JIVJE	JM26I	JHLSVI	JM42	JAIDXHH
JM1	JHLDSBL	JM26J1	JHLSVJ	JM43	JNAIDXHH
JM1A	JHLSTAT	JM26J2	JHLSVK	JM44M1	JAIDHU1
JM2A	JHLPRBA	JM26L	JHLSVL	JM44M2	JAIDHU2
JM2B	JHLPRBB	JM26M	JHLSVM	JM45A	JIVMA
JM2C	JHLPRBC	JM27A	JHLSVAN	JM45B	JIVMB
JM2D	JHLPRBD	JM27B	JHLSVBN	JM45C	JIVMC
JM2E	JHLPRBE	JM27C	JHLSVCN	JM45D	JIVMD
JM2F	JHLPRBF	JM27D	JHLSVDN	JM45E	JIVME
JM2G	JHLPRBG	JM27E	JHLSVEN	JM46	JAIDHRS
JM2H	JHLPRBH	JM27F	JHLSVFN	JP10M	JPRESBGM
JM2I	JHLPRBI	JM27G	JHLSVGN	JP10Y	JPRESBY4
JM2J	JHLPRBJ	JM27H	JHLSVHN	JP2B	JPRRS2I
JM2K	JHLPRBK	JM27I	JHLSVIN	JP2C	JPRIPN
JM2L	JHLPRBL	JM27J1	JHLSVJN	JP2D	JPRWHY
JM2M	JHLPRBM	JM27J2	JHLSVKN	JP3	JPPLEVR
JM2M0	JHLPRB	JM27L	JHLSVLN	JP11	JPRESLY
JM3	JHLLT	JM27M	JHLSVMN	JP23	JPRFEHQ
JM4A	JHLLTA	JM28A	JHLSVAF	JP25	JPRSEHQ
JM4B	JHLLTB	JM28B	JHLSVBF	JP58	JPRJBFT
JM4C	JHLLTC	JM28C	JHLSVCF	JP59M	JPRJBBGM
JM4D	JHLLTD	JM28D	JHLSVDF	JP59Y	JPRJBBY4
JM4E	JHLLTE	JM28E	JHLSVEF	JP60	JPRJBLY
JM5	JHLLTW	JM28F	JHLSVFF	JP61	JPREARN
JM5A	JHLENDW	JM28G	JHLSVGF	JP70A	JPRF101

JP70B	JPRF102	JS5E	JNET3PH	JY18	JYPMKFRN
JP70C	JPRF116	JS5F	JNET1LV	JY19	JYPPFGHT
JP70D	JPRF131	JS5F	JNET2LV	JY20	JYPEATN
JP70F	JPRF135	JS5G	JNET3JB	JY21	JYPSAVE
JP70G	JPRF137	JS5F	JNET3LV	JY22L	JYPPKML
JP70H	JPRF139	JS5G	JNET1JB	JY22P	JYPPKMP
JP70J	JPRF141	JS5G	JNET2JB	JY23	JYPSMEV
JP70NON	JPRFIRN	JS6A	JNETSOC	JY24	JYPSMOF
JP71	JPRFITB	JT2B	JTELWHY	JY25	JYPSMLW
JPI1A	JIVPA	JT44	JTLFIYRL	JY26	JYPOPSM
JPI1B	JIVPB	JT49	JTLFIYR	JY27	JYPDGFR
JPI1C	JIVPC	JV1A	JOPSOCA	JY28	JYPSAD
JPI1D	JIVPD	JV1B	JOPSOCB	JY29	JYPWOR
JPI1E	JIVPE	JV1C	JOPSOCC	JY30	JYBULL
JS1A	JGHQA	JV1D	JOPSOCD	JY31	JYPLONE
JS1B	JGHQB	JV1E	JOPSOCE	JY32	JYBORED
JS1C	JGHQC	JV1F	JOPSOCF	JY33	JYPESTA
JS1D	JGHQD	JV2	JVOTE1	JY34	JYPESTI
JS1E	JGHQE	JV3	JVOTE2	JY35	JYPESTB
JS1F	JGHQF	JV4	JVOTE3	JY36	JYPESTJ
JS1G	JGHQG	JV5	JVOTE4	JY37	JYPESTC
JS1H	JGHQH	JV6	JVOTE5	JY38	JYPESTK
JS1I	JGHQI	JV7	JOPCLS1	JY39	JYPESTE
JS1J	JGHQJ	JV8	JOPCLS2	JY40	JYPESTF
JS1K	JGHQK	JV9	JOPCLS3	JY41	JYPESTH
JS1L	JGHQL	JV10	JVOTE7	JY42	JYPTCHA
JS2A	JOPFAMO	JV11	JVOTE8	JY43	JYPTCHB
JS2B	JOPFAML	JV12A	JLACTA	JY44	JYPHSW
JS2C	JOPFAMP	JV12B	JLACTB	JY45	JYPHAP
JS2D	JOPFAMQ	JV12C	JLACTC	JY46	JYPHFM
JS2E	JOPFAMK	JV12D	JLACTD	JY47	JYPHFR
JS2F	JOPFAMR	JV12E	JLACTE	JY48	JYPHLF
JS3A	JLFSAT1	JV12F	JLACTF	JY49	JYPOPFF
JS3B	JLFSAT2	JV12H	JLACTH	JY50	JYPOPFB
JS3C	JLFSAT3	JV12I	JLACTI	JY51	JYPOPFI
JS3D	JLFSAT4	JV12J	JLACTJ	JY52	JYPOPPL
JS3E	JLFSAT5	JV12K	JLACTK	JY53	JYPVTE6
JS3F	JLFSAT6	JV12L	JLACTL	JY54	JYPVTE3
JS3G	JLFSAT7	JV13	JTRUST	JY55	JYPCRWRA
JS3H	JLFSAT8	JV14	JFRNA	JY56	JYPCRWRB
JS4A	JLFSATO	JV15	JFRNB	JY57	JYPEXPL
JS4B	JLFSATL	JV16	JFRNC	JY58	JYPVAND
JS5A	JNETSX1	JY1	JYTVHRS	JY59	JYPTRUN
JS5A	JNETSX2	JY2	JYTVSTP	JY60	JYPOPSC
JS5A	JNETSX3	JY3	JYPFPC	JY61	JYPLVSC
JS5B	JNET1RL	JY4	JYPFPCGM	JY62	JYPLVHM
JS5B	JNET2RL	JY5	JYPPALS	JY63	JYPWHR
JS5B	JNET3RL	JY6	JYPPALO	JY64	JYPPAY
JS5BOC	JNET1WR	JY7	JYPUTEL	JY65	JYPFSOC
JS5BOC	JNET2WR	JY8	JYPLATE	JY66	JYDLFA
JS5BOC	JNET3WR	JY9	JYPFBEAU	JY67	JYDLFB
JS5C	JNET1AG	JY10	JYPFCLUB	KD0AD	KDOID
JS5C	JNET2AG	JY11	JYPFDISC	KD0AM	KDOIM
JS5C	JNET3AG	JY12	JYPFSPOR	KD0AY	KDOIY4
JS5D	JNET1KN	JY13	JYPARGM	KD0BA	KIVLYR
JS5D	JNET2KN	JY14	JYPARGF	KD0BB	KIVSTAT2
JS5D	JNET3KN	JY15	JYPTLKM	KD1H	KIVSOIH
JS5E	JNET1PH	JY16	JYPTLKF	KD1M	KIVSOIM
JS5E	JNET2PH	JY17	JYPNPAL	KD2	KLKNBRD

KD3	KLKMOVE	KD25A2	KEDQLA2	KD37	KPASEMP
KD4	KLKMOVY	KD25B1	KEDQLB1	KD38	KPABOSS
KD5	KXPMOVE	KD25B2	KEDQLB2	KD39	KPAMNGR
KD6	KPLNEW	KD25C1	KEDQLC1	KD40	KMASOC
KD7M	KPLNOWM	KD25C2	KEDQLC2	KD40	KMAJU
KD7Y	KPLNOWY4	KD25D1	KEDQLD1	KD40	KMASOC00
KD8	KMOVJB	KD25D2	KEDQLD2	KD41	KMASEMP
KD9A	KMOVJBA	KD25E1	KEDQLE1	KD42	KMABOSS
KD9B	KMOVJBB	KD25E2	KEDQLE2	KD43	KMAMNGR
KD9C	KMOVJBC	KD25F1	KEDQLF1	KD44	KJ1SOC
KD9D	KMOVJBD	KD25F2	KEDQLF2	KD44	KJ1SOC00
KD9E	KMOVJBE	KD25G1	KEDQLG1	KD44NA	KJ1NONE
KD9F	KMOVJBF	KD25G2	KEDQLG2	KD45	KJ1SEMP
KD9G	KMOVJBG	KD25H1	KEDQLH1	KD46	KJ1BOSS
KD9H	KMOVJBH	KD25H2	KEDQLH2	KD47	KJ1MNGR
KD9I	KMOVJBI	KD25I1	KEDQLI1	KD48	KLCOH
KD10M1	KMOVY1	KD25I2	KEDQLI2	KD49M	KCOH1BM
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KD11Y	KDOBY	KD25NA	KEDQNN2	KD51M	KCOH1EM
KD12	KSEX	KD25NON	KEDQNN1	KD51Y	KCOH1EY
KD12	KSEX	KD26A1	KEDQLAN1	KD52	KNMAR
KD14	KMLSTAT	KD26A2	KEDQLGN2	KD53M	KLMAR1M
KD15	KMLCHNG	KD26A2	KEDQLAN2	KD53Y	KLMAR1Y
KD16M	KMLCHM	KD26A2	KEDQLBN2	KD54	KLPRNT
KD16Y	KMLCHY4	KD26A2	KEDQLCN2	KD55	KLNPRNT
KD17	KJBSTAT	KD26A2	KEDQLDN2	KD56M	KCH1BM
KD18	KEDLYR	KD26A2	KEDQLEN2	KD56Y	KCH1BY
KD19	KEDTYPE1	KD26A2	KEDQLFN2	KD57	KSCEND
KD19	KEDTYPE2	KD26A2	KEDQLHN2	KD57NA	KSCHOOL
KD20	KEDBLYR2	KD26A2	KEDQLIN2	KD58	KSCTYPE
KD20	KEDBLYR1	KD26A2	KEDQLJN2	KD59	KSCNOW
KD21M	KEDBGM1	KD26B1	KEDQLBN1	KD60	KFETYPE
KD21M2	KEDBGM2	KD26C1	KEDQLCN1	KD61	KFEEND
KD21Y	KEDBGY1	KD26D1	KEDQLDN1	KD61NA	KFENOW
KD21Y2	KEDBGY2	KD26E1	KEDQLEN1	KD62	KQFHAS
KD22	KEDENNE1	KD26F1	KEDQLFN1	KD63A	KQFA
KD22M	KEDENM1	KD26G1	KEDQLGN1	KD63B	KQFB
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KD22NE2	KEDENNE2	KD26I1	KEDQLIN1	KD63D	KQFD
KD22Y	KEDENY1	KD26J1	KEDQLJN1	KD63E	KQFE
KD22Y2	KEDENY2	KD27	KEDOQL2	KD63F	KQFF
KD23A	KEDFEEA2	KD27	KEDOQL1	KD63G	KQFG
KD23A	KEDFEEA1	KD27NON	KEDOQLN1	KD63H	KQFH
KD23B	KEDFEEB2	KD27NON	KEDOQLN2	KD63I	KQFI
KD23B	KEDFEEB1	KD28	KEDMORE2	KD63J	KQFJ
KD23C	KEDFEEC2	KD28	KEDMORE1	KD63K	KQFK
KD23C	KEDFEEC1	KD29	KLCHMOR	KD63L	KQFL
KD23D	KEDFEED1	KD29DST	KPLBORND	KD63M	KQFM
KD23D	KEDFEED2	KD29OS	KPLBORNC	KD63N	KQFN
KD23E	KEDFEEE1	KD30	KYR2UK4	KD64	KQFED
KD23E	KEDFEEE2	KD31	KMLSTAT	KD65A	KQFEDA
KD23F	KEDFEEF1	KD32M1	KCITZN1	KD65B	KQFEDB
KD23F	KEDFEEF2	KD32M2	KCITZN2	KD65C	KQFEDC
KD23G	KEDFEEG1	KD33	KRACE	KD65D	KQFEDD
KD23G	KEDFEEG2	KD34	KJBSTAT	KD65E	KQFEDE
KD24	KEDQUAL2	KD36	KPASOC	KD65F	KQFEDF
KD24	KEDQUAL1	KD36	KPASOC00	KD65G	KQFEDG
KD25A1	KEDQLA1	KD36ANA	KPAJU	KD65H	KQFEDH

KD65I	KQFEDI	KD72A1	KTRFEEA1	KD76BN1	KTRQLBN1
KD65J	KQFEDJ	KD72A3	KTRFEEA3	KD76BN2	KTRQLBN2
KD65K	KQFEDK	KD72B	KTRFEEB2	KD76BN3	KTRQLBN3
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KD65N	KQFEDN	KD72C	KTRFEEC2	KD76CN3	KTRQLCN3
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KD65P	KQFEDP	KD72C3	KTRFEEC3	KD76DN2	KTRQLDN2
KD65Q	KQFEDQ	KD72E	KTRFEEE2	KD76DN3	KTRQLDN3
KD65R	KQFEDR	KD72E1	KTRFEEE1	KD76EN1	KTRQLEN1
KD65S	KQFEDS	KD72E3	KTRFEEE3	KD76EN2	KTRQLEN2
KD65T	KQFEDT	KD72F	KTRFEEF2	KD76EN3	KTRQLEN3
KD66A	KNQFEDA	KD72F1	KTRFEEF1	KD76FN1	KTRQLFN1
KD66B	KNQFEDB	KD72F3	KTRFEEF3	KD76FN2	KTRQLFN2
KD66C	KNQFEDC	KD72G	KTRFEEG2	KD76FN3	KTRQLFN3
KD66D	KNQFEDD	KD72G1	KTRFEEG1	KD76GN1	KTRQLGN1
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KD66F	KNQFEDF	KD73	KTRQLXP1	KD76GN3	KTRQLGN3
KD66G	KNQFEDG	KD73	KTRQLXP2	KD76HN1	KTRQLHN1
KD66H	KNQFEDH	KD73	KTRQLXP3	KD76HN2	KTRQLHN2
KD66I	KNQFEDI	KD74	KTRQLAC2	KD76HN3	KTRQLHN3
KD66J	KNQFEDJ	KD74	KTRQLAC3	KD76IN1	KTRQLIN1
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KD66L	KNQFEDL	KD75A1	KTRQLA1	KD76IN3	KTRQLIN3
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KD66N	KNQFEDN	KD75A3	KTRQLA3	KD76JN2	KTRQLJN2
KD66O	KNQFEDO	KD75B1	KTRQLB1	KD76JN3	KTRQLJN3
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KD66Q	KNQFEDQ	KD75B3	KTRQLB3	KD77	KTROQL3
KD66R	KNQFEDR	KD75C1	KTRQLC1	KD77	KTROQLN3
KD66S	KNQFEDS	KD75C2	KTRQLC2	KD77	KTROQL1
KD66T	KNQFEDT	KD75C3	KTRQLC3	KD77NON	KTROQLN2
KD67	KTRAIN	KD75D1	KTRQLD1	KD77NON	KTROQLN1
KD68	KNTRAIN	KD75D2	KTRQLD2	KD78	KTRMORE1
KD69	KTRPLCE2	KD75D3	KTRQLD3	KD78	KTRMORE2
KD69	KTRPLCE3	KD75E1	KTRQLE1	KD79A	KBIRHH
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KD70C	KTRWHYC2	KD75G3	KTRQLG3	KD81PN3	KBWTPN3
KD70C1	KTRWHYC1	KD75H1	KTRQLH1	KD82	KBWXP3
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KD70D	KTRWHYD2	KD75H3	KTRQLH3	KD82	KBWXP2
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KD70D3	KTRWHYD3	KD75I2	KTRQLI2	KD83	KBWTEL3
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KD71	KTRU3	KD75J3	KTRQLJ3	KD84	KBWTKW3
KD71	KTRQ1	KD75NON	KTRQLNN2	KD85	KBWTKN3
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KD71	KTRU2	KD76AN1	KTRQLAN1	KD86LB1	KBWTLB1
KD71	KTRQ3	KD76AN2	KTRQLAN2	KD86LB2	KBWTLB2
KD72A	KTRFEEA2	KD76AN3	KTRQLAN3	KD86LB3	KBWTLB3

KD86OZ1	KBWTOZ1	KD102G	KNATIDG	KE32	KOVTPAY
KD86OZ2	KBWTOZ2	KD102H	KNATIDH	KE33	KEXTREST
KD86OZ3	KBWTOZ3	KD102I	KNATIDI	KE33	KEXTRATE
KD87	KBWTGM1	KD103	KNATIDMN	KE34	KBASREST
KD87	KBWTGM2	KD104	KMABORN	KE34	KBASRATE
KD87	KBWTGM3	KD105	KPABORN	KE35	KOVTRATE
KD88	KBWTG53	KD106A	KIVDA	KE35	KOVTREST
KD88	KBWTG52	KD106B	KIVDB	KE39	KJBPERFP
KD88	KBWTG51	KD106C	KIVDC	KE40	KJBONUS
KD89	KAGERET	KD106D	KIVDD	KE41	KJBONAM
KD90	KREWORK	KD106E	KIVDE	KE42	KJBONG
KD91	KRETEX	KE1	KJBHAS	KE43	KJBRISE
KD92	KAGEXRT	KE2	KJBOFF	KE44	KTUJBPL
KD93	KRETFIX	KE3	KJBOFFY	KE45	KTUIN1
KD94	KRTMAGE	KE4	KJBTERM1	KE46	KJBOPPS
KD95AA	KRTRLYA	KE5	KJBSOC00	KE47	KJBTIME
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KD95AC	KRTRLYC	KE6	KJBSIC92	KE48	KJBWKHRH
KD95AD	KRTRLYD	KE6	KJBSIC	KE48	KJBWKHRF
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KD95AJ	KRTRLYJ	KE12	KJBOT	KE49	KJBPEN
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KD98	KRTSAT	KE23D	KPYDPTC	KE62	KPAYS
KD99	KRTCOMP	KE23E	KPYDPTCW	KE63OC	KPAYSW
KD100A	KRTPRO1	KE23OC	KPAYNW	KE64	KPAYSG
KD100B	KRTPRO2	KE24	KPAYSLP	KE73	KJSBOSS
KD100C	KRTPRO3	KE26	KPAYUSL	KE74	KJSSIZE
KD100D	KRTPRO4	KE27	KPAYU	KE75	KJSHRS
KD100E	KRTPRO5	KE28OC	KPAYUW	KE76	KJSHRLK
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KD101A	KRTCON1	KE30A	KPAYDF1	KE78	KJSTYPEB
KD101B	KRTCON2	KE30B	KPAYDF2	KE79	KJSACCS
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KD101D	KRTCON4	KE30D	KPAYDF4	KE81BM	KJSPRBM
KD102A	KNATIDA	KE30E	KPAYDF5	KE81BY	KJSPRBY4
KD102B	KNATIDB	KE30F	KPAYDF6	KE81EM	KJSPREM
KD102C	KNATIDC	KE30G	KPAYDF7	KE81EY	KJSPREY4
KD102D	KNATIDD	KE30H	KPAYDF9	KE82	KJSPRF
KD102E	KNATIDE	KE30I	KPAYDF8	KE83	KJSPRLS
KD102F	KNATIDF	KE31	KPAYTYP	KE84	KJSPRTX

KE85	KJSPRNI	KE132	KJ2HAS	KF4	KFISIT
KE86BM	KJSPRBM	KE133	KJ2SOC	KF5	KFISITC
KE86BY	KJSPRBY4	KE133	KJ2SOC00	KF6	KFISITY
KE86EM	KJSPREM	KE134	KJ2SEMP	KF7	KFISITX
KE86EY	KJSPREY4	KE135	KJ2HRS	KF8	KFIYRDIA
KE87	KJSPRF	KE136	KJ2PAY	KF9A	KFIYRDB1
KE91	KJSPAYU	KE137A	KIVEA	KF9B	KFIYRDB2
KE92	KJSPAYW	KE137B	KIVEB	KF9C	KFIYRDB3
KE93	KJSPYTX	KE137C	KIVEC	KF9D	KFIYRDB4
KE94	KJSPYNI	KE137D	KIVED	KF9E	KFIYRDB5
KE95	KJSPL	KE137E	KIVEE	KF9F	KFIYRDB6
KE96	KJSTTWT	KEG3	PID	KF10	KSAVE
KE97	KJSTTWM	KEG4	KHGSEX	KF11	KSAVED
KE98A	KJSSAT1	KEG5M	KHGBM	KF11AM1	KSAVEY1
KE98B	KJSSAT2	KEG5Y	KHGBY	KF11AM2	KSAVEY2
KE98D	KJSSAT4	KEG6	KIVIOLW	KF12	KSAVREG
KE98E	KJSSAT5	KEG7	KIVSTAT1	KF13	KSAVLT
KE99	KJSSAT	KEG8	KIVELIG	KF14	KPPPEN
KE100D	KJSBGD	KEG9	KHHMEM	KF15	KPENB4
KE100M	KJSBGM	KEG10	KNEWHY	KF16	KPENB4Y4
KE100Y	KJSBGY4	KEG11	KLVWHY	KF17	KPENB4V
KE101A	KJBLKCHA	KEG12M	KNEMNJJN	KF18	KPENB4W
KE101B	KJBLKCHB	KEG12M	KLVMN	KF19	KPENYR4
KE101C	KJBLKCHC	KEG12Y	KNEYRJN4	KF20	KPENADD
KE101D	KJBLKCHD	KEG12Y	KLVYR4	KF21	KPENADV
KE101E	KJBLKCHE	KEG13	KLVLOC	KF22	KPENADW
KE102A	KJBXPCHA	KEG14	KIVFIO	KF23	KPENMJN
KE102B	KJBXPCHB	KEG16	KIVRREF	KF24	KPENMCN
KE102C	KJBXPCHC	KEG17	KIVIREIS	KF25	KPENMPY
KE102D	KJBXPCHD	KEG18	KIVFIO	KF26	KPENMTP
KE102E	KJBXPCHD	KF2	KNF1	KF27	KSPINHH
KE104	KRACH12	KF3A	KFICODE	KF28	KPENMSP
KE105M1	KJBCHC1	KF3B01	KFR01	KF29	KPENMEX
KE105M2	KJBCHC2	KF3B02	KFR02	KF30	KPPPEX
KE105M3	KJBCHC3	KF3B03	KFR03	KF31	KPPPEXM
KE107	KXPCHCF	KF3B04	KFR04	KF32	KSTAKEH
KE108	KXPCHC	KF3B05	KFR05	KF34	KSPPEN
KE109	KHUXPCH	KF3B06	KFR06	KF35A	KRETEXP
KE110	KHUNURS	KF3B07	KFR07	KF35B	KRETAMT
KE111	KJULK1	KF3B08	KFR08	KF36	KWINDF
KE112	KJULK4	KF3B09	KFR09	KF36	KRETSUF
KE113A	KJULKA	KF3B10	KFR10	KF38A	KWINDFA
KE113B	KJULKB	KF3B11	KFR11	KF38B	KWINDFB
KE113C	KJULKC	KF3B12	KFR12	KF38C	KWINDFC
KE113D	KJULKD	KF3B13	KFR13	KF38D	KWINDFD
KE113E	KJULKE	KF3B14	KFR14	KF38F	KWINDFF
KE114	KJULKJB	KF3B15	KFR15	KF38G	KWINDFG
KE115	KJUBGN	KF3B16	KFR16	KF38H	KWINDFH
KE116	KJUSPEC	KF3B17	KFR17	KF39A	KWINDFAY
KE117	KJUSOC	KF3B18	KFR18	KF39B	KWINDFBY
KE117	KJUSOC00	KF3B19	KFR19	KF39C	KWINDFCY
KE118	KJUHRXS	KF3B20	KFR20	KF39D	KWINDFDY
KE119	KJUPAYX	KF3BAL	KFRALL	KF39F	KWINDFFY
KE120	KJUPAYL	KF3C	KFRNOW	KF39G	KWINDFGY
KE121	KJUHRSL	KF3D	KFRVAL	KF39H	KWINDFHY
KE124	KEPROSH	KF3EOC	KFRW	KF40A	KXPMEAL
KE129	KEAAGE	KF3F	KFRJT	KF40B	KXPLEIS
KE130	KJBUB	KF3FPN	KFRJTPN	KF41	KFTEXHH
KE131	KJBUBY	KF3SEQ	KFISEQ	KF42A	KFTEXAV

KF42A	KFTEXA	KF103	KF103	KH21	KMGNEW
KF42B	KFTEXBV	KF104	KF104	KH22A	KMGXTY1
KF42B	KFTEXB	KF105	KF105	KH22B	KMGXTY2
KF42C	KFTEXCV	KF106	KF106	KH22C	KMGXTY3
KF42C	KFTEXC	KF116	KF116	KH22D	KMGXTY4
KF43A	KFTEXAW	KF118	KF118	KH22E	KMGXTY5
KF43A1	KFTEXA1	KF119	KF119	KH23	KXPMG
KF43A2	KFTEXA2	KF121	KF121	KH24A	KXPMG1
KF43A3	KFTEXA3	KF122	KF122	KH24B	KXPMG2
KF43A4	KFTEXA4	KF124	KF124	KH24C	KXPMG3
KF43A5	KFTEXA5	KF125	KF125	KH24D	KXPMG4
KF43A6	KFTEXA6	KF126	KF126	KH25	KHSJB
KF43B	KFTEXBW	KF127	KF127	KH26M1	KRENTP1
KF43B1	KFTEXB1	KF128	KF128	KH26M2	KRENTP2
KF43B2	KFTEXB2	KF132	KF132	KH27	KRENTLL
KF43B3	KFTEXB3	KF135	KF135	KH28	KRENTF
KF43B4	KFTEXB4	KF136	KF136	KH30	KRENT
KF43B5	KFTEXB5	KF137	KF137	KH31	KRENTW
KF43B6	KFTEXB6	KF138	KF138	KH32A	KRENT1
KF43C	KFTEXCW	KF139	KF139	KH32B	KRENT7
KF43C1	KFTEXC1	KF140	KF140	KH32C	KRENT2
KF43C2	KFTEXC2	KF141	KF141	KH32D	KRENT3
KF43C3	KFTEXC3	KF142	KF142	KH32E	KRENT4
KF43C4	KFTEXC4	KF151	KF151	KH32F	KRENT5
KF43C5	KFTEXC5	KF152	KF152	KH32G	KRENT8
KF43C6	KFTEXC6	KF153	KF153	KH32H	KRENT6
KF47A	KHUBUYS	KF154	KF154	KH33	KRENTHB
KF47B	KHUFYRS	KF155	KF155	KH34	KRENTG
KF47C	KHUMOPS	KF156	KF156	KH35	KRENTG
KF47D	KHUIRON	KF157	KF157	KH36	KRENTGW
KF48	KHHCH12	KF158	KF158	KH37	KXPHSDF
KF49	KHUSITS	KF159	KF159	KH38A	KXPHSD1
KF50	KHOWLNG	KH0AD	KHHDOI	KH38B	KXPHSD2
KF51	KCARUSE	KH0AM	KHHMOI	KH39	KXPHSDB
KF52	KMOBUSE	KH0AY	KHHYOI4	KH40A	KHSKCH
KF53	KAGEADV	KH0BH	KHHSOIH	KH40A	KHSBTH
KF53A1	KAGEAD1	KH0BM	KHHSOIM	KH40A	KHSTLT
KF53A2	KAGEAD2	KH0C	KHSTYPE	KH40A	KHSGDN
KF53A3	KAGEAD3	KH1A	KHSRINS	KH40B	KHSTLTS
KF53A4	KAGEAD4	KH2	KHSROOM	KH40B	KHSKCHS
KF53M1	KEVENT1S	KH3	KHSOWND	KH40B	KHSGDNS
KF53M1	KEVENT1	KH4M1	KHSOWR1	KH40B	KHSBTHS
KF53M2	KEVENT2	KH4M2	KHSOWR2	KH41A	KXPGASY
KF53M2	KEVENT2S	KH5	KHSVAL	KH41B	KXPLECY
KF53M3	KEVENT3	KH6	KMGHAVE	KH41C	KXPOILY
KF53M3	KEVENT3S	KH7	KHSOWRP	KH41D	KXPSFLY
KF53M4	KEVENT4	KH8	KMGYNOT	KH42	KHEATCH
KF53M4	KEVENT4S	KH9	KHSCOST	KH43	KHEATYP
KF54A	KIVFA	KH10	KHSYR04	KH44A	KHSPRBG
KF54B	KIVFB	KH11	KHSCOST	KH44B	KHSPRBH
KF54C	KIVFC	KH12	KMGYR04	KH44C	KHSPRBI
KF54D	KIVFD	KH13	KMGLY	KH44D	KHSPRBJ
KF54E	KIVFE	KH14	KHSIVLW	KH44E	KHSPRBK
KF55H	KIVFOIH	KH15	KMGYR04	KH44F	KHSPRBL
KF55M	KIVFOIM	KH16	KHSCOST	KH44G	KHSPRBM
KF56	KIVSC	KH17	KMGOLD	KH44H	KHSPRBN
KF70I	KPRF125	KH18	KMGLIFE	KH44I	KHSPRBO
KF101	KF101	KH19	KMGTYPE	KH44J	KHSPRBP
KF102	KF102	KH20	KMGXTRA	KH44K	KHSPRBQ

KH45	KHSCTAX	KH59E	KHSCNTE	KJ24	KJHPAYL
KH46	KHS2OWND	KH59F	KHSCNTF	KJ25OC	KJHPYLW
KH47	KHS2VALO	KH60	KXPFOOD	KJ26	KJHPYLG
KH47A	KHS2VALA	KH61	KNCARS	KJ27	KJHSTPY
KH47B	KHS2VALB	KH62	KCAROWN	KJ28	KJBLKY
KH47C	KHS2VALC	KH63	KCARVAL	KJ31	KJBHAD
KH47D	KHS2VALD	KH64M1	KIVH1	KJ32	KJLEND4
KH49	KMGTOT	KH64M2	KIVH2	KJ33	KJLSOC00
KH50	KCDHAVE	KH64M3	KIVH3	KJ33	KJLSOC
KH51A	KCD1USE	KH65H	KHHFOIH	KJ34	KJLSIC
KH51B	KCD2USE	KH65M	KHHFOIM	KJ34	KJLSIC92
KH51C	KCD10USE	KHG2	KHGR2R	KJ35	KJLSEMP
KH51D	KCD11USE	KHG3	KHGSEX	KJ36	KJLBOSS
KH51E	KCD3USE	KHG4M	KHGBM	KJ37	KJLMNGR
KH51F	KCD4USE	KHG4Y	KHGBY	KJ38	KJLSIZE
KH51G	KCD5USE	KHG8	KMASTAT	KJ39A	KIVJA
KH51H	KCD6USE	KHG9	KHGSPN	KJ39B	KIVJB
KH51I	KCD7USE	KHG10	KHGEMP	KJ39C	KIVJC
KH51J	KCD8USE	KHG10	KHGEMP	KJ39D	KIVJD
KH51K	KCD9USE	KHG11	KHGFNO	KJ39E	KIVJE
KH51L	KCD12USE	KHG11	KHGFNO	KL2	KMLSTAT
KH52	KCDBGHT	KHG12	KHGMNO	KL3	KNMAR
KH53A	KCD1NEW	KHG12	KHGMNO	KL4M	KLMARM
KH53B	KCD2NEW	KHG13	KHGRA	KL4M	KLMARY4
KH53C	KCD10NEW	KHG13	KHGRA	KL4M	KLCMARM
KH53D	KCD11NEW	KI1	KIV1	KL4Y	KLCMARY4
KH53E	KCD3NEW	KI2	KIV2	KL5	KMPNO
KH53F	KCD4NEW	KI4	KIV4	KL5	KMPNO
KH53G	KCD5NEW	KI5	KIV5	KL6	KLCMCOH
KH53H	KCD6NEW	KI5A	KIV5AA	KL7M	KLCMCBM
KH53I	KCD7NEW	KI5B	KIV5AB	KL7Y	KLCMCBY4
KH53J	KCD8NEW	KI5C	KIV5AC	KL8M	KLCMSPM
KH53K	KCD9NEW	KI6A	KIV6A	KL8Y	KLCMSPY4
KH53L	KCD12NEW	KI6B	KIV6B	KL10	KLMCOH
KH54A	KCD1CST	KI6C	KIV6C	KL11M	KLMCBM
KH54B	KCD2CST	KI6D	KIV6D	KL11Y	KLMCBY4
KH54C	KCD10CST	KI6E	KIV6E	KL12	KLMEND
KH54D	KCD11CST	KI7	KIV6F	KL13M	KLMWWM
KH54E	KCD3CST	KI8	KIV7	KL13Y	KLMWWY4
KH54F	KCD4CST	KJ5D	KCJSBGD	KL15M	KLMDVM
KH54G	KCD5CST	KJ5M	KCJSBGM	KL15Y	KLMDVY4
KH54H	KCD6CST	KJ5Y	KCJSBGY4	KL16M	KLMSPM
KH54I	KCD7CST	KJ6	KNEMST	KL16Y	KLMSPY4
KH54J	KCD8CST	KJ8	KCJSBLY	KL18	KLCOH
KH54K	KCD9CST	KJ9	KJHSTAT	KL19	KLNCOH
KH54L	KCD12CST	KJ10D	KJHBGD	KL20M	KLCSBM
KH55	KPCNET	KJ10M	KJHBGM	KL20Y	KLCSBY4
KH56	KXPHP	KJ10Y	KJHBGY4	KL21M	KLCSEM
KH57	KXPHPDF	KJ12	KNJBS	KL21NE	KLCSNE
KH58A	KHSCANA	KJ14	KJHSOC00	KL21Y	KLCSEY4
KH58B	KHSCANB	KJ14	KJHSOC	KL22	KLADOPT
KH58C	KHSCANC	KJ16	KJHSEMP	KL23	KLNAOPT
KH58D	KHSCAND	KJ17	KJHBOSS	KL24AM	KLACBM
KH58E	KHSCANE	KJ18	KJHSECT	KL24AY	KLACBY4
KH58F	KHSCANF	KJ19	KJHMNGR	KL24B	KLACSX
KH59A	KHSCNTA	KJ21	KJHPLDF	KL24C	KLACST
KH59B	KHSCNTB	KJ22	KJHSIC92	KL24D	KLACYB4
KH59C	KHSCNTC	KJ22	KJHSIC	KL24E	KLACLV
KH59D	KHSCNTD	KJ23	KJHSIZE	KL24F	KLACNO

KL24G	KLACYD4	KM10A	KHLLTA	KM36	KHLCVRL
KL24H	KLACAL	KM10B	KHLLTB	KM37	KHLSV
KL25	KLPRNT	KM10C	KHLLTC	KM38A	KHLSVA
KL26	KLNPRNT	KM10D	KHLLTD	KM38B	KHLSVB
KL27AM	KLCHBM	KM10E	KHLLTE	KM38C	KHLSVC
KL27AY	KLCHBY4	KM11	KHLLTW	KM38D	KHLSVD
KL27B	KLCHSX	KM11A	KHLENDW	KM38E	KHLSVE
KL27C	KLCHLV	KM11B	KHLLTWA	KM38F	KHLSVF
KL27DNO	KLNCNO	KM12	KHLPAIN	KM38G	KHLSVG
KL27E	KLCHYD4	KM13	KHLTRPN	KM38H	KHLSVH
KL27F	KLCHAL	KM14	KHLAVPN	KM38I	KHLSVI
KL28	KCBAGE	KM15	KHLWTPN	KM38J1	KHLSVJ
KL30	KLCHMORN	KM16	KHLIV65	KM38J2	KHLSVK
KL31A	KIVLA	KM17A	KADLA	KM38L	KHLSVL
KL31B	KIVLB	KM17B	KADLAD	KM38M	KHLSVM
KL31C	KIVLC	KM18A	KADLB	KM39A	KHLSVAN
KL31D	KIVLD	KM18B	KADLBD	KM39B	KHLSVBN
KL31E	KIVLE	KM19A	KADLC	KM39C	KHLSVCN
KL32M	KLEDENDM	KM19B	KADLCD	KM39D	KHLSVDN
KL32NL	KLEDNOW	KM20A	KADLD	KM39E	KHLSVEN
KL33	KLESHST	KM20B	KADLDD	KM39F	KHLSVFN
KL33SPN	KLESHNO	KM21A	KADLE	KM39G	KHLSVGN
KL34M	KLESHEM	KM21B	KADLED	KM39H	KHLSVHN
KL34NE	KLESHNE	KM22A	KADLF	KM39I	KHLSVIN
KL34Y	KLESHEY4	KM22B	KADLFD	KM39J1	KHLSVJN
KL37SPN	KLCSNO	KM23	KRTRHM	KM39J2	KHLSVKN
KM1	KHLDSBL	KM24	KLVLONG	KM39L	KHLSVLN
KM1A	KHLSTAT	KM25	KHL2GP	KM39M	KHLSVMN
KM2A	KHLPRBA	KM26	KHL2HOP	KM40A	KHLSVAF
KM2B	KHLPRBB	KM27	KXDTS	KM40B	KHLSVBF
KM2C	KHLPRBC	KM28	KNXDTS	KM40C	KHLSVCF
KM2D	KHLPRBD	KM29	KHLCK	KM40D	KHLSVDF
KM2E	KHLPRBE	KM29	KHOSP	KM40E	KHLSVEF
KM2F	KHLPRBF	KM2O	KHLPRBO	KM40F	KHLSVFF
KM2G	KHLPRBG	KM30	KHOSPD	KM40G	KHLSVGF
KM2H	KHLPRBH	KM30A	KHLCKA	KM40H	KHLSVHF
KM2I	KHLPRBI	KM30B	KHLCKB	KM40I	KHLSVIF
KM2J	KHLPRBJ	KM30C	KHLCKC	KM40J1	KHLSVJF
KM2K	KHLPRBK	KM30D	KHLCKD	KM40J2	KHLSVKF
KM2L	KHLPRBL	KM30E	KHLCKE	KM40L	KHLSVLF
KM2M	KHLPRBM	KM30F	KHLCKI	KM40M	KHLSVMF
KM2M0	KHLPRB	KM30G	KHLCKF	KM47	KAIDHH
KM2N	KHLPRBN	KM30H	KHLCKG	KM48P1	KAIDHUA
KM3A	KHLPRXA	KM30I	KHLCKH	KM48P2	KAIDHUB
KM3B	KHLPRXB	KM31A	KHLCKAN	KM48P3	KAIDHUC
KM3C	KHLPRXC	KM31B	KHLCKBN	KM49	KAIDXHH
KM3D	KHLPRXD	KM31C	KHLCKCN	KM50	KNAIDXHH
KM3E	KHLPRXE	KM31D	KHLCKDN	KM51M1	KAIDHU1
KM3F	KHLPRXF	KM31E	KHLCKEN	KM51M2	KAIDHU2
KM3G	KHLPRXG	KM31F	KHLCKIN	KM53	KAIDHRS
KM3H	KHLPRXH	KM31G	KHLCKFN	KM54A	KIVMA
KM3I	KHLPRXI	KM31H	KHLCKGN	KM54B	KIVMB
KM3J	KHLPRXJ	KM31I	KHLCKHN	KM54C	KIVMC
KM3K	KHLPRXK	KM32	KHOSPCH	KM54D	KIVMD
KM3L	KHLPRXL	KM33	KHOSPNHS	KM54E	KIVME
KM3M	KHLPRXM	KM33	KSMOKER	KP2B	KPRRS2I
KM3N	KHLPRXN	KM34	KHLCVR	KP2C	KPRIPN
KM3O	KHLPRXO	KM34	KNCIGS	KP2D	KPRWHY
KM9	KHLLT	KM35	KHLCVRH	KP3	KPPLEVR

KP10M	KPRESBGM	KS3N	KQLFN	KV12K	KORGAH
KP10Y	KPRESBY4	KS3O	KQLFO	KV12L	KORGAI
KP11	KPRESLY	KS3P	KQLFP	KV12M	KORGAJ
KP23	KPRFEHQ	KS3Q	KQLFQ	KV12N	KORGAK
KP25	KPRSEHQ	KS3R	KQLFR	KV12O	KORGAL
KP58	KPRJBFT	KS3S	KQLFS	KV12P	KORGAM
KP59M	KPRJBBGM	KS4A	KXSUPA	KV13	KOPRLG2
KP59Y	KPRJBBY4	KS4B	KXSUPB	KV14	KFRNA
KP60	KPRJBLY	KS4C	KXSUPC	KV15	KFRNB
KP61	KPREARN	KS5A	KSSUPA	KV16	KFRNC
KP70A	KPRF101	KS5B	KSSUPB	KV16A	KOPRLG1
KP70B	KPRF102	KS5C	KSSUPC	KV16C	KOPRLG3
KP70C	KPRF116	KS5D	KSSUPD	KV17A	KNOLVREL
KP70D	KPRF131	KS5E	KSSUPE	KV17A	KLVGGPA
KP70F	KPRF135	KS6A	KSSUP1	KV17A	KLVMA
KP70G	KPRF137	KS6B	KSSUPR2R	KV17A	KLVGGCH
KP70H	KPRF139	KT2B	KTELWHY	KV17A	KLVGPAR
KP70J	KPRF141	KT45	KTLFIYRL	KV17A	KLVSIB
KP70NON	KPRFIRN	KT50	KTLFIYR	KV17A	KLVPA
KP71	KPRFITB	KV1A	KOPPOLA	KV17A	KLVGCH
KPI1A	KIVPA	KV1B	KOPPOLB	KV17A	KLVCH
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KPI1C	KIVPC	KV1D	KOPPOLD	KV17B	KPAAGE
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KPI1E	KIVPE	KV3	KVOTE2	KV17C	KNLVGGCH
KS1A	KGHQA	KV4	KVOTE3	KV17C	KNLVGPA
KS1B	KGHQB	KV5	KVOTE4	KV17C	KNLVGCH
KS1C	KGHQC	KV6	KVOTE5	KV17C	KNLVSIB
KS1D	KGHQD	KV7	KVOTE7	KV17C	KNLVCH
KS1E	KGHQE	KV8	KVOTE8	KV18	KPARMAR
KS1F	KGHQF	KV9	KVOTE6	KV19	KMALONE
KS1G	KGHQG	KV10	KORGM	KV20	KPALONE
KS1H	KGHQH	KV11A	KORGMA	KV21A	KMASEE
KS1I	KGHQI	KV11B	KORGMB	KV21B	KMATEL
KS1J	KGHQJ	KV11C	KORGMC	KV21C	KMAMAIL
KS1K	KGHQK	KV11D	KORGMD	KV22	KMAFAR
KS1L	KGHQL	KV11E	KORGME	KV23A	KPASEE
KS2A	KOPFAMA	KV11F	KORGMF	KV23B	KPATEL
KS2B	KOPFAMB	KV11G	KORGMG	KV23C	KPAMAIL
KS2C	KOPFAMC	KV11H	KORGMF	KV24	KPAFAR
KS2D	KOPFAMD	KV11I	KORGMQ	KV25A	KCHSEE
KS2E	KOPFAME	KV11J	KORGMO	KV25B	KCHTEL
KS2F	KOPFAMF	KV11K	KORGMH	KV25C	KCHMAIL
KS2G	KOPFAMG	KV11L	KORGMI	KV26	KCHFAR
KS2H	KOPFAMH	KV11M	KORGMJ	KV27A	KCHAIDA
KS2I	KOPFAMI	KV11N	KORGMK	KV27B	KCHAIDB
KS3A	KQLFA	KV11O	KORGMML	KV27C	KCHAIDC
KS3B	KQLFB	KV11P	KORGMM	KV27D	KCHAIDD
KS3C	KQLFC	KV120	KORGA	KV27E	KCHAIDE
KS3D	KQLFD	KV12A	KORGAA	KV27F	KCHAIDF
KS3E	KQLFE	KV12B	KORGAB	KV27G	KCHAIDG
KS3F	KQLFF	KV12C	KORGAC	KV27H	KCHAIDH
KS3G	KQLFG	KV12D	KORGAD	KV27I	KCHAIDI
KS3H	KQLFH	KV12E	KORGAE	KV27NON	KNOCHAID
KS3I	KQLFI	KV12F	KORGAF	KV28A	KCAIDUA
KS3J	KQLFJ	KV12G	KORGAG	KV28B	KCAIDUB
KS3K	KQLFK	KV12H	KORGAP	KV28C	KCAIDUC
KS3L	KQLFL	KV12I	KORGAQ	KV28D	KCAIDUD
KS3M	KQLFM	KV12J	KORGAO	KV28E	KCAIDUE

KV28F	KCAIDUF	KY34	KYPESTI	LD10M2	LMOVY2
KV28G	KCAIDUG	KY35	KYPESTB	LD11M	LDOBM
KV28H	KCAIDUH	KY36	KYPESTJ	LD11Y	LDOBY
KV28I	KCAIDUI	KY37	KYPESTC	LD12	LSEX
KV28NON	KNOCAIDU	KY38	KYPESTK	LD14	LMLSTAT
KV29A	KPAAIDA	KY39	KYPESTE	LD15	LMLCHNG
KV29B	KPAAIDB	KY40	KYPESTF	LD16M	LMLCHM
KV29C	KPAAIDC	KY41	KYPESTH	LD16Y	LMLCHY4
KV29D	KPAAIDD	KY42	KYPTCHA	LD17	LJBSTAT
KV29E	KPAAIDE	KY43	KYPTCHB	LD17A	LHIFUED
KV29F	KPAAIDF	KY44	KYPHSW	LD18	LEDLYR
KV29G	KPAAIDG	KY45	KYPHAP	LD19	LEDTYPE1
KV29H	KPAAIDH	KY46	KYPHFM	LD19	LEDTYPE2
KV29I	KPAAIDI	KY47	KYPHFR	LD20	LEDBLYR1
KV29NON	KNOPAAID	KY48	KYPHLF	LD20	LEDBLYR2
KV30A	KPAIDUA	KY49	KYPOPF	LD21M	LEDBGM1
KV30B	KPAIDUB	KY50	KYPOPFB	LD21Y	LEDBGY1
KV30C	KPAIDUC	KY51	KYPOPFJ	LD21M2	LEDBGM2
KV30D	KPAIDUD	KY52	KYPOPPL	LD21Y2	LEDBGY2
KV30E	KPAIDUE	KY53	KYPVTE6	LD22	LEDENNE1
KV30F	KPAIDUF	KY54	KYPVTE3	LD22M	LEDENM1
KV30G	KPAIDUG	KY55	KYPCRWRA	LD22Y	LEDENY1
KV30H	KPAIDUH	KY56	KYPCRWRB	LD22M2	LEDENM2
KV30I	KPAIDUI	KY57	KYPEXPL	LD22Y2	LEDENY2
KV30NON	KNOPAIDU	KY58	KYPVAND	LD22NE	LEDENNE2
KY1	KYTVHRS	KY59	KYPTRUN	LD23A1	LEDFEEA1
KY2	KYTVSTP	KY60	KYPOPSC	LD23A2	LEDFEEA2
KY3	KYPFPC	KY61	KYPLVSC	LD23B1	LEDFEEB1
KY4	KYPFPCGM	KY62	KYPLVHM	LD23B2	LEDFEEB2
KY5	KYPPALS	KY63	KYPWHRS	LD23C1	LEDFEEC1
KY6	KYPPALO	KY64	KYPPAY	LD23C2	LEDFEEC2
KY7	KYPUTEL	KY65	KYPFSOC	LD23D1	LEDFEED1
KY8	KYPLATE	KY67	KYPDLFA	LD23D2	LEDFEED2
KY9	KYPFBEAU	KY67	KYPDLFB	LD23E1	LEDFEEE1
KY10	KYPFLUB	LD0AD	LDOID	LD23E2	LEDFEEE2
KY11	KYPFDISC	LD0AM	LDOIM	LD23F1	LEDFEEF1
KY12	KYPFSPOR	LD0AY	LDOIY4	LD23F2	LEDFEEF2
KY13	KYPARGM	LD0BA	LIVLYR	LD23G1	LEDFEEG1
KY14	KYPARGF	LD0BB	LIVSTAT2	LD23G2	LEDFEEG2
KY15	KYPTLKM	LD1H	LIVSOIH	LD24	LEDQUAL1
KY16	KYPTLKF	LD1M	LIVSOIM	LD24	LEDQUAL2
KY17	KYPNPAL	LD2	LLKNBRD	LD25A1	LEDQLA1
KY18	KYPMKFRN	LD3	LLKMOVE	LD25A2	LEDQLA2
KY19	KYPFGHT	LD4	LLKMOVY	LD25B1	LEDQLB1
KY20	KYPEATN	LD5	LXPMOVE	LD25B2	LEDQLB2
KY21	KYPSAVE	LD6	LPLNEW	LD25C1	LEDQLC1
KY22L	KYPPKML	LD7M	LPLNOWM	LD25C2	LEDQLC2
KY22P	KYPPKMP	LD7Y	LPLNOWY4	LD25D1	LEDQLD1
KY23	KYPSMEV	LD8	LMOVJB	LD25D2	LEDQLD2
KY24	KYPSMOF	LD9A	LMOVJBA	LD25E1	LEDQLE1
KY25	KYPSMLW	LD9B	LMOVJBB	LD25E2	LEDQLE2
KY26	KYPOPSM	LD9C	LMOVJBC	LD25F1	LEDQLF1
KY27	KYPDGFR	LD9D	LMOVJBD	LD25F2	LEDQLF2
KY28	KYPSAD	LD9E	LMOVJBE	LD25G1	LEDQLG1
KY29	KYPWOR	LD9F	LMOVJBF	LD25G2	LEDQLG2
KY30	KYPBULL	LD9G	LMOVJBG	LD25H1	LEDQLH1
KY31	KYPLONE	LD9H	LMOVJBH	LD25H2	LEDQLH2
KY32	KYPBORED	LD9I	LMOVJBI	LD25I1	LEDQLI1
KY33	KYPESTA	LD10M1	LMOVY1	LD25I2	LEDQLI2

LD25J1	LEDQLJ1	LD51M	LCOH1EM	LD66G	LNQFEDG
LD25J2	LEDQLJ2	LD51Y	LCOH1EY	LD66H	LNQFEDH
LD25NA	LEDQNN2	LD52	LNMAR	LD66I	LNQFEDI
LD25NO	LEDQNN1	LD53M	LLMAR1M	LD66J	LNQFEDJ
LD26A1	LEDQLAN1	LD53Y	LLMAR1Y	LD66K	LNQFEDK
LD26A2	LEDQLAN2	LD54	LLPRNT	LD66L	LNQFEDL
LD26B1	LEDQLBN1	LD55	LLNPRNT	LD66M	LNQFEDM
LD26B2	LEDQLBN2	LD56M	LCH1BM	LD66N	LNQFEDN
LD26C1	LEDQLCN1	LD56Y	LCH1BY	LD66O	LNQFEDO
LD26C2	LEDQLCN2	LD57	LSCEND	LD66P	LNQFEDP
LD26D1	LEDQLDN1	LD57NA	LSCHOOL	LD66Q	LNQFEDQ
LD26D2	LEDQLDN2	LD58	LSCTYPE	LD66R	LNQFEDR
LD26E1	LEDQLEN1	LD59	LSCNOW	LD66S	LNQFEDS
LD26E2	LEDQLEN2	LD60	LFETYPE	LD66T	LNQFEDT
LD26F1	LEDQLFN1	LD61	LFEEND	LD66U	LNQFEDU
LD26F2	LEDQLFN2	LD61NA	LFENOW	LD67	LTRAIN
LD26G1	LEDQLGN1	LD62	LQFHAS	LD68	LNTRAIN
LD26G2	LEDQLGN2	LD63A	LQFA	LD69	LTRPLCE1
LD26H1	LEDQLHN1	LD63B	LQFB	LD69	LTRPLCE2
LD26H2	LEDQLHN2	LD63C	LQFC	LD69	LTRPLCE3
LD26I1	LEDQLIN1	LD63D	LQFD	LD70A1	LTRWHYA1
LD26I2	LEDQLIN2	LD63E	LQFE	LD70B1	LTRWHYB1
LD26J1	LEDQLJN1	LD63F	LQFF	LD70C1	LTRWHYC1
LD26J2	LEDQLJN2	LD63G	LQFG	LD70D1	LTRWHYD1
LD27	LEDOQL1	LD63H	LQFH	LD70E1	LTRWHYE1
LD27	LEDOQL2	LD63I	LQFI	LD70A2	LTRWHYA2
LD27NO	LEDOQLN1	LD63J	LQFJ	LD70B2	LTRWHYB2
LD27NO	LEDOQLN2	LD63K	LQFK	LD70C2	LTRWHYC2
LD28	LEDMORE1	LD63L	LQFL	LD70D2	LTRWHYD2
LD28	LEDMORE2	LD63M	LQFM	LD70E2	LTRWHYE2
LD29	LLCHMOR	LD63N	LQFN	LD70A3	LTRWHYA3
LD29DS	LPLBORND	LD64	LQFED	LD70B3	LTRWHYB3
LD29OS	LPLBORNC	LD65A	LQFEDA	LD70C3	LTRWHYC3
LD30	LYR2UK4	LD65B	LQFEDB	LD70D3	LTRWHYD3
LD32M1	LCITZN1	LD65C	LQFEDC	LD70E3	LTRWHYE3
LD32M2	LCITZN2	LD65D	LQFEDD	LD71	LTRQ1
LD33	LRACE	LD65E	LQFEDE	LD71	LTRQ2
LD36	LPASOC	LD65F	LQFEDF	LD71	LTRQ3
LD36	LPASOC00	LD65G	LQFEDG	LD71	LTRU1
LD36AN	LPAJU	LD65H	LQFEDH	LD71	LTRU2
LD37	LPASEMP	LD65I	LQFEDI	LD71	LTRU3
LD38	LPABOSS	LD65J	LQFEDJ	LD72A1	LTRFEEA1
LD39	LPAMNGR	LD65K	LQFEDK	LD72B1	LTRFEEB1
LD40	LMAJU	LD65L	LQFEDL	LD72C1	LTRFEEC1
LD40	LMASOC	LD65M	LQFEDM	LD72E1	LTRFEEA1
LD40	LMASOC00	LD65N	LQFEDN	LD72F1	LTRFEEF1
LD41	LMASEMP	LD65O	LQFEDO	LD72G1	LTRFEEG1
LD42	LMABOSS	LD65P	LQFEDP	LD72A2	LTRFEEA2
LD43	LMAMNGR	LD65Q	LQFEDQ	LD72B2	LTRFEEB2
LD44	LJ1SOC	LD65R	LQFEDR	LD72C2	LTRFEEC2
LD44	LJ1SOC00	LD65S	LQFEDS	LD72E2	LTRFEEA2
LD44NA	LJ1NONE	LD65T	LQFEDT	LD72F2	LTRFEEF2
LD45	LJ1SEMP	LD65U	LQFEDU	LD72G2	LTRFEEG2
LD46	LJ1BOSS	LD66A	LNQFEDA	LD72A3	LTRFEEA3
LD47	LJ1MNGR	LD66B	LNQFEDB	LD72B3	LTRFEEB3
LD48	LLCOH	LD66C	LNQFEDC	LD72C3	LTRFEEC3
LD49M	LCOH1BM	LD66D	LNQFEDD	LD72E3	LTRFEEA3
LD49Y	LCOH1BY	LD66E	LNQFEDE	LD72F3	LTRFEEF3
LD50	LCOH1MR	LD66F	LNQFEDF	LD72G3	LTRFEEG3

LD73	LTRQLXP1	LD76GN3 . . .	LTRQLGN3	LD92E	LCRRACE
LD73	LTRQLXP2	LD76HN1 . . .	LTRQLHN1	LD92F	LCRBURG
LD73	LTRQLXP3	LD76HN2 . . .	LTRQLHN2	LD92G	LCRCAR
LD74	LTRQLAC1	LD76HN3 . . .	LTRQLHN3	LD92H	LCRMUGG
LD74	LTRQLAC2	LD76IN1	LTRQLIN1	LD93	LPCUSE
LD74	LTRQLAC3	LD76IN2	LTRQLIN2	LD94A	LPCUSEA
LD75A1	LTRQLA1	LD76IN3	LTRQLIN3	LD94B	LPCUSEB
LD75A2	LTRQLA2	LD76JN3	LTRQLJN3	LD94C	LPCUSEC
LD75A3	LTRQLA3	LD76JN1	LTRQLJN1	LD94D	LPCUSED
LD75B1	LTRQLB1	LD76JN2	LTRQLJN2	LD94E	LPCUSEE
LD75B2	LTRQLB2	LD77	LTROQL1	LD94F	LPCUSEF
LD75B3	LTRQLB3	LD77	LTROQL2	LD94G	LPCUSEG
LD75C1	LTRQLC1	LD77	LTROQL3	LD94H	LPCUSEH
LD75C2	LTRQLC2	LD77NO	LTROQLN1	LD94I	LPCUSEI
LD75C3	LTRQLC3	LD77NO	LTROQLN2	LD95	LPCUSEM
LD75D1	LTRQLD1	LD77NO	LTROQLN3	LD96	LPCOFTN
LD75D2	LTRQLD2	LD78	LTRMORE1	LD97A	LBIRHH
LD75D3	LTRQLD3	LD78	LTRMORE2	LD97B	LMABWLY
LD75E1	LTRQLE1	LD79	LAGLT20	LD98	LMABWNLY
LD75E2	LTRQLE2	LD80	LSCNOW2	LD99AG	LBWTAGM1
LD75E3	LTRQLE3	LD81	LINFTEd	LD99AG	LBWTAGM2
LD75F1	LTRQLF1	LD82	LEDASP	LD99AG	LBWTAGM3
LD75F2	LTRQLF2	LD83	LFEDASP	LD99PN	LBWTPN1
LD75F3	LTRQLF3	LD83A	LFEDTYP	LD99PN	LBWTPN2
LD75G1	LTRQLG1	LD84	LFEDLIK	LD99PN	LBWTPN3
LD75G2	LTRQLG2	LD85M1	LFEDNT1	LD100	LBWTXP1
LD75G3	LTRQLG3	LD85M2	LFEDNT2	LD100	LBWTXP2
LD75H3	LTRQLH3	LD86	LOCFUT	LD100	LBWTXP3
LD75H1	LTRQLH1	LD87A	LOCIMPA	LD101	LBWTEL1
LD75H2	LTRQLH2	LD87B	LOCIMPB	LD101	LBWTEL2
LD75I1	LTRQLI1	LD87C	LOCIMPC	LD101	LBWTEL3
LD75I2	LTRQLI2	LD87D	LOCIMPD	LD102	LBWTWK1
LD75I3	LTRQLI3	LD87E	LOCIMPE	LD102	LBWTWK2
LD75J1	LTRQLJ1	LD87F	LOCIMPF	LD102	LBWTWK3
LD75J2	LTRQLJ2	LD87G	LOCIMPG	LD103	LBWTKN1
LD75J3	LTRQLJ3	LD87H	LOCIMPH	LD103	LBWTKN2
LD75NO	LTRQLNN1	LD87I	LOCIMPI	LD103	LBWTKN3
LD75NO	LTRQLNN2	LD87J	LOCIMPJ	LD104L	LBWTLB1
LD75NO	LTRQLNN3	LD87K	LOCIMPK	LD104L	LBWTLB2
LD76AN1	LTRQLAN1	LD87L	LOCIMPL	LD104L	LBWTLB3
LD76AN2	LTRQLAN2	LD88A	LFUTRA	LD104O	LBWTOZ1
LD76AN3	LTRQLAN3	LD88B	LFUTRB	LD104O	LBWTOZ2
LD76BN1	LTRQLBN1	LD88C	LFUTRC	LD104O	LBWTOZ3
LD76BN2	LTRQLBN2	LD88D	LFUTRD	LD105	LBWTGM1
LD76BN3	LTRQLBN3	LD88E	LFUTRE	LD105	LBWTGM2
LD76CN1	LTRQLCN1	LD88F	LFUTRF	LD105	LBWTGM3
LD76CN2	LTRQLCN2	LD88G	LFUTRG	LD106	LBWTG51
LD76CN3	LTRQLCN3	LD88H	LFUTRH	LD106	LBWTG52
LD76DN1	LTRQLDN1	LD88I	LFUTRI	LD106	LBWTG53
LD76DN2	LTRQLDN2	LD88J	LFUTRJ	LD110A	LNATIDA
LD76DN3	LTRQLDN3	LD88K	LFUTRK	LD110B	LNATIDB
LD76EN1	LTRQLEN1	LD88L	LFUTRL	LD110C	LNATIDC
LD76EN2	LTRQLEN2	LD89	LCRWORA	LD110D	LNATIDD
LD76EN3	LTRQLEN3	LD90	LCRWORB	LD110E	LNATIDE
LD76FN1	LTRQLFN1	LD91	LCRDARK	LD110F	LNATIDF
LD76FN2	LTRQLFN2	LD92A	LCRGRAF	LD110G	LNATIDG
LD76FN3	LTRQLFN3	LD92B	LCRTEEN	LD110H	LNATIDH
LD76GN1	LTRQLGN1	LD92C	LCRDRNK	LD110I	LNATIDI
LD76GN2	LTRQLGN2	LD92D	LCRVAND	LD111	LNATIDM

LD113A	LWLSHA	LE30D	LPAYDF4	LE91	LJSPAYU
LD113B	LWLSHB	LE30E	LPAYDF5	LE92	LJSPAYW
LD113C	LWLSHC	LE30F	LPAYDF6	LE93	LJSPYTX
LD113D	LWLSHD	LE30G	LPAYDF7	LE94	LJSPYNI
LD113E	LWLSHE	LE30H	LPAYDF9	LE95	LJSPL
LD114A	LWLSHUA	LE30I	LPAYDF8	LE96	LJSTTWT
LD114B	LWLSHUB	LE31	LPAYTYP	LE97	LJSTTWM
LD114C	LWLSHUC	LE32	LOVTPAY	LE98A	LJSSAT1
LD114D	LWLSHUD	LE33	LEXTRATE	LE98B	LJSSAT2
LD114E	LWLSHUE	LE33	LEXTREST	LE98D	LJSSAT4
LD115A	LIVDA	LE34	LBASRATE	LE98E	LJSSAT5
LD115B	LIVDB	LE34	LBASREST	LE99	LJSSAT
LD115C	LIVDC	LE35	LOVTRATE	LE100D	LJSBGD
LD115D	LIVDD	LE35	LOVTREST	LE100M	LJSBGM
LD115E	LIVDE	LE39	LJBPERFP	LE100Y	LJSBGY4
LDA67	LUNIB	LE40	LJBONUS	LE101A	LJBLKCHA
LDA68	LUNIM	LE41	LJBONAM	LE102A	LJBXPCHA
LE1	LJBHAS	LE42	LJBONG	LE101B	LJBLKCHB
LE2	LJBOFF	LE43	LJBRISE	LE102B	LJBXPCHB
LE3	LJBOFFY	LE44	LTUJBPL	LE101C	LJBLKCHC
LE4	LJBTERM1	LE45	LTUIN1	LE102C	LJBXPCHC
LE4A	LJBTERM2	LE46	LJBOPPS	LE101D	LJBLKCHD
LE5	LJBSOC	LE47	LJBTIME	LE102D	LJBXPCHD
LE5	LJBSOC00	LE48	LJBWKHRA	LE101E	LJBLKCHE
LE6	LJBSIC	LE48	LJBWKHRB	LE102E	LJBXPCHE
LE6	LJBSIC92	LE48	LJBWKHRC	LE104	LRACH12
LE7	LJBSEMP	LE48	LJBWKHRD	LE105M	LJBCHC1
LE8	LJBMNGR	LE48	LJBWKHRE	LE105M	LJBCHC2
LE9	LJBSECT	LE48	LJBWKHRF	LE105M	LJBCHC3
LE10	LJBSIZE	LE48	LJBWKHRG	LE107	LXPCHCF
LE11	LJBHRS	LE48	LJBWKHRH	LE108	LXPCHC
LE12	LJBOT	LE49	LJBPEN	LE109	LHUXPCH
LE13	LJBOTPD	LE50	LJBPENM	LE110	LHUNURS
LE14	LJBHRLK	LE52D	LJBBGD	LE111	LJULK1
LE15	LJBPL	LE52M	LJBBGM	LE112	LJULK4
LE16	LJBTTWT	LE52Y	LJBBGY4	LE113A	LJULKA
LE17	LJBTTWM	LE53	LJBBGLY	LE113B	LJULKB
LE18B	LJBSAT2	LE54	LPAYS	LE113C	LJULKC
LE18D	LJBSAT4	LE55OC	LPAYSW	LE113D	LJULKD
LE18F	LJBSAT6	LE56	LPAYSG	LE113E	LJULKE
LE18G	LJBSAT7	LE59	LPAYLY	LE114	LJULKJB
LE19	LJBSAT	LE60OC	LPAYLYW	LE115	LJUBGN
LE20	LPAYGL	LE61	LPAYLYG	LE116	LJUSPEC
LE21OC	LPAYGW	LE73	LJSBOSS	LE117	LJUSOC
LE22	LPAYNL	LE74	LJSSIZE	LE117	LJUSOC00
LE23OC	LPAYNW	LE75	LJSHRS	LE118	LJUHRXS
LE23A	LPYTC	LE76	LJSHRLK	LE119	LJUPAYX
LE23B	LPYWFTC	LE77	LJSTIME	LE120	LJUPAYL
LE23C	LPYWFTCW	LE78	LJSTYPEB	LE121	LJUHRSL
LE23D	LPYDPTC	LE79	LJSACCS	LE124	LEPROSH
LE23E	LPYDPTCW	LE80	LJSPART	LE129	LEAAGE
LE24	LPAYSLP	LE81BM	LJSPRBM	LE130	LJBUB
LE26	LPAYUSL	LE81BY	LJSPRBY4	LE131	LJBUBY
LE27	LPAYU	LE81EM	LJSPREM	LE132	LJ2HAS
LE28OC	LPAYUW	LE81EY	LJSPREY4	LE133	LJ2SOC
LE29	LPAYUG	LE82	LJSPRF	LE133	LJ2SOC00
LE30A	LPAYDF1	LE83	LJSPRLS	LE134	LJ2SEMP
LE30B	LPAYDF2	LE84	LJSPRTX	LE135	LJ2HRS
LE30C	LPAYDF3	LE85	LJSPRNI	LE136	LJ2PAY

LE137A	LIVEA	LF9B	LFIIYRDB2	LF43C3	LFTEXC3
LE137B	LIVEB	LF9C	LFIIYRDB3	LF43C4	LFTEXC4
LE137C	LIVEC	LF9D	LFIIYRDB4	LF43C5	LFTEXC5
LE137D	LIVED	LF9E	LFIIYRDB5	LF43C6	LFTEXC6
LE137E	LIVEE	LF9F	LFIIYRDB6	LF44C	LFTEXCV
LEG3	PID	LF10	LSAVE	LF45C	LFTEXCW
LEG4	LHGSEX	LF11	LSAVED	LF46	LSPINHH
LEG5M	LHGBM	LF11AM	LSAVEY1	LF47A	LHUBUYS
LEG5Y	LHGBY	LF11AM	LSAVEY2	LF47B	LHUFYRS
LEG6	LIVOLW	LF12	LSAVREG	LF47C	LHUMOPS
LEG7	LIVSTAT1	LF13	LSAVLT	LF47D	LHUIRON
LEG8	LIVELIG	LF14	LPPPEN	LF48	LHHCH12
LEG9	LHHMEM	LF15	LPENB4	LF49	LHUSITS
LEG10	LNEWHY	LF16	LPENB4Y4	LF50	LHOWLNG
LEG11	LLVWHY	LF17	LPENB4V	LF51	LCARUSE
LEG12M	LLVMN	LF18	LPENB4W	LF52	LMOBUSE
LEG12M	LNEMNJJN	LF19	LPENYR4	LF53	LQALLIF1
LEG12Y	LLVYR4	LF20	LPENADD	LF53	LQALLIF2
LEG12Y	LNEYRJJN4	LF21	LPENADV	LF53	LQALLIF3
LEG13	LLVLOC	LF22	LPENADW	LF53	LQALLIF4
LEG14	LIVFIO	LF37	LWINDF	LF54A	LIVFA
LEG16	LIVRREF	LF38A	LWINDFA	LF54B	LIVFB
LEG17	LIVIREIS	LF39A	LWINDFAY	LF54C	LIVFC
LEG18	LIVFIO	LF38B	LWINDFB	LF54D	LIVFD
LF2	LNF1	LF39B	LWINDFBY	LF54E	LIVFE
LF3A	LFICODE	LF38C	LWINDFC	LF55H	LIVFOIH
LF3BAL	LFRALL	LF39C	LWINDFCY	LF55M	LIVFOIM
LF3B01	LFR01	LF38D	LWINDFD	LF56	LIVSC
LF3B02	LFR02	LF39D	LWINDFDY	LF101	LF101
LF3B03	LFR03	LF38F	LWINDFF	LF102	LF102
LF3B04	LFR04	LF39F	LWINDFFY	LF103	LF103
LF3B05	LFR05	LF38G	LWINDFG	LF104	LF104
LF3B06	LFR06	LF39G	LWINDFGY	LF105	LF105
LF3B07	LFR07	LF38H	LWINDFH	LF106	LF106
LF3B08	LFR08	LF39H	LWINDFHY	LF116	LF116
LF3B09	LFR09	LF40A	LXPMEAL	LF118	LF118
LF3B10	LFR10	LF40B	LXPLEIS	LF119	LF119
LF3B11	LFR11	LF41	LFTEXHH	LF121	LF121
LF3B12	LFR12	LF42A	LFTEXA	LF122	LF122
LF3B13	LFR13	LF43A1	LFTEXA1	LF124	LF124
LF3B14	LFR14	LF43A2	LFTEXA2	LF125	LF125
LF3B15	LFR15	LF43A3	LFTEXA3	LF126	LF126
LF3B16	LFR16	LF43A4	LFTEXA4	LF127	LF127
LF3B17	LFR17	LF43A5	LFTEXA5	LF128	LF128
LF3B18	LFR18	LF43A6	LFTEXA6	LF132	LF132
LF3B19	LFR19	LF44A	LFTEXAV	LF142	LF142
LF3B20	LFR20	LF45A	LFTEXAW	LF135	LF135
LF3C	LFRNOW	LF42B	LFTEXB	LF136	LF136
LF3D	LFRVAL	LF43B1	LFTEXB1	LF137	LF137
LF3EOC	LFRW	LF43B2	LFTEXB2	LF138	LF138
LF3F	LFRJT	LF43B3	LFTEXB3	LF139	LF139
LF3FPN	LFRJTJPN	LF43B4	LFTEXB4	LF140	LF140
LF3SEQ	LFISEQ	LF43B5	LFTEXB5	LF141	LF141
LF4	LFISIT	LF43B6	LFTEXB6	LF151	LF151
LF5	LFISITC	LF44B	LFTEXBV	LF152	LF152
LF6	LFISITY	LF45B	LFTEXBW	LF153	LF153
LF7	LFISITX	LF42C	LFTEXC	LF154	LF154
LF8	LFIIYRDIA	LF43C1	LFTEXC1	LF155	LF155
LF9A	LFIIYRDB1	LF43C2	LFTEXC2	LF156	LF156

LF157	LF157	LH36	LRENTGW	LH53H	LCD6NEW
LF158	LF158	LH37	LXPHSDF	LH53I	LCD7NEW
LF159	LF159	LH38A	LXPHSD1	LH53J	LCD8NEW
LH0AD	LHHDOI	LH38B	LXPHSD2	LH53K	LCD9NEW
LH0AM	LHHMOI	LH39	LXPHSDB	LH53L	LCD12NEW
LH0AY	LHHYOI4	LH40A	LHSKCH	LH54A	LCD1CST
LH0BH	LHHSOIH	LH40B	LHSKCHS	LH54B	LCD2CST
LH0BM	LHHSOIM	LH40A	LHSBTH	LH54C	LCD10CST
LH0C	LHSTYPE	LH40B	LHSBTHS	LH54D	LCD11CST
LH1A	LHSRINS	LH40A	LHSTLT	LH54E	LCD3CST
LH2	LHSROOM	LH40B	LHSTLTS	LH54F	LCD4CST
LH3	LHSOWND	LH40A	LHSGDN	LH54G	LCD5CST
LH4M1	LHSOWR1	LH40B	LHSGDNS	LH54H	LCD6CST
LH4M2	LHSOWR2	LH41A	LXPGASY	LH54I	LCD7CST
LH5	LHSVAL	LH41B	LXPLECY	LH54J	LCD8CST
LH6	LMGHAVE	LH41C	LXPOILY	LH54K	LCD9CST
LH7	LHSOWRP	LH41D	LXPSFLY	LH54L	LCD12CST
LH8	LMGYNOT	LH42	LHEATCH	LH55	LPCNET
LH9	LHSCOST	LH43	LHEATYP	LH56	LXPHP
LH10	LHSYR04	LH44A	LHSPRBG	LH57	LXPHPDF
LH11	LHSCOST	LH44B	LHSPRBH	LH58A	LHSCANA
LH12	LMGYR04	LH44C	LHSPRBI	LH58B	LHSCANB
LH13	LMGLY	LH44D	LHSPRBJ	LH58C	LHSCANC
LH14	LHSIVLW	LH44E	LHSPRBK	LH58D	LHSCAND
LH15	LMGYR04	LH44F	LHSPRBL	LH58E	LHSCANE
LH16	LHSCOST	LH44G	LHSPRBM	LH58F	LHSCANF
LH17	LMGOLD	LH44H	LHSPRBN	LH59A	LHSCNTA
LH18	LMGLIFE	LH44I	LHSPRBO	LH59B	LHSCNTB
LH19	LMGTYPE	LH44J	LHSPRBP	LH59C	LHSCNTC
LH20	LMGXTRA	LH44K	LHSPRBQ	LH59D	LHSCNTD
LH21	LMGNEW	LH45	LHSCTAX	LH59E	LHSCNTE
LH22A	LMGXTY1	LH46	LHS2OWND	LH59F	LHSCNTF
LH22B	LMGXTY2	LH47	LHS2VALO	LH60	LXPFOOD
LH22C	LMGXTY3	LH47A	LHS2VALA	LH61	LNCARS
LH22D	LMGXTY4	LH47B	LHS2VALB	LH62	LCAROWN
LH22E	LMGXTY5	LH47C	LHS2VALC	LH63	LCARVAL
LH23	LXPMG	LH47D	LHS2VALD	LH64M1	LIVH1
LH24A	LXPMG1	LH49	LMGTOT	LH64M2	LIVH2
LH24B	LXPMG2	LH50	LCDHAVE	LH64M3	LIVH3
LH24C	LXPMG3	LH51A	LCD1USE	LH65H	LHHFOIH
LH24D	LXPMG4	LH51B	LCD2USE	LH65M	LHHFOIM
LH25	LHSJB	LH51C	LCD10USE	LHG2	LHGR2R
LH26M1	LRENTP1	LH51D	LCD11USE	LHG3	LHGSEX
LH26M2	LRENTP2	LH51E	LCD3USE	LHG4M	LHGBM
LH27	LRENTLL	LH51F	LCD4USE	LHG4Y	LHGBY
LH28	LRENTF	LH51G	LCD5USE	LHG8	LMASTAT
LH30	LRENT	LH51H	LCD6USE	LHG9	LHGSPN
LH31	LRENTW	LH51I	LCD7USE	LHG10	LHGEMP
LH32A	LRENT1	LH51J	LCD8USE	LHG11	LHGFNO
LH32C	LRENT2	LH51K	LCD9USE	LHG12	LHGMNO
LH32D	LRENT3	LH51L	LCD12USE	LHG13	LHGRA
LH32E	LRENT4	LH52	LCDBGHT	LI1	LIV1
LH32F	LRENT5	LH53A	LCD1NEW	LI2	LIV2
LH32H	LRENT6	LH53B	LCD2NEW	LI4	LIV4
LH32B	LRENT7	LH53C	LCD10NEW	LI5	LIV5
LH32G	LRENT8	LH53D	LCD11NEW	LI5A	LIV5AA
LH33	LRENTHB	LH53E	LCD3NEW	LI5B	LIV5AB
LH34	LRENTG	LH53F	LCD4NEW	LI5C	LIV5AC
LH35	LRENTG	LH53G	LCD5NEW	LI6A	LIV6A

LI6B	LIV6B	LL13Y	LLMWWY4	LM2N	LHLPRBN
LI6C	LIV6C	LL15M	LLMDVM	LM2O	LHLPRBO
LI6D	LIV6D	LL15Y	LLMDVY4	LM2M	LHLPRBM
LI6E	LIV6E	LL16M	LLMSPM	LM2M0	LHLPRB
LI7	LIV6F	LL16Y	LLMSPY4	LM9	LHLLT
LI8	LIV7	LL19	LLNCOH	LM10A	LHLLTA
LJ5D	LCJSBGD	LL20M	LLCSBM	LM10B	LHLLTB
LJ5M	LCJSBGM	LL20Y	LLCSBY4	LM10C	LHLLTC
LJ5Y	LCJSBGY4	LL21M	LLCSEM	LM10D	LHLLTD
LJ6	LNEMST	LL21Y	LLCSEY4	LM10E	LHLLTE
LJ8	LCJSBLY	LL21NE	LLCSNE	LM11	LHLLTW
LJ9	LJHSTAT	LL20SP	LLCSNO	LM11A	LHLENDW
LJ10D	LJHBGD	LL22	LLADOPT	LM11B	LHLLTWA
LJ10M	LJHBGM	LL23	LLNADOPT	LM12	LHLIV65
LJ10Y	LJHBGY4	LL24AM	LLACBM	LM13A	LADLA
LJ12	LNJBBS	LL24AY	LLACBY4	LM13B	LADLAD
LJ14	LJHSOC	LL24B	LLACSX	LM14A	LADLB
LJ14	LJHSOC00	LL24C	LLACST	LM14B	LADLBD
LJ16	LJHSEMP	LL24D	LLACYB4	LM15A	LADLC
LJ17	LJHBOSS	LL24E	LLACLV	LM15B	LADLCD
LJ18	LJHSECT	LL24G	LLACYD4	LM16A	LADLD
LJ19	LJHMNGR	LL24H	LLACAL	LM16B	LADLDD
LJ21	LJHPLDF	LL24F	LLACNO	LM17A	LADLE
LJ22	LJHSIC	LL27AM	LLCHBM	LM17B	LADLED
LJ22	LJHSIC92	LL27AY	LLCHBY4	LM18A	LADLF
LJ23	LJHSIZE	LL27B	LLCHSX	LM18B	LADLFD
LJ24	LJHPAYL	LL27C	LLCHLV	LM21	LHL2GP
LJ25OC	LJHPYLW	LL27E	LLCHYD4	LM22	LHL2HOP
LJ26	LJHPYLG	LL27F	LLCHAL	LM23	LXDTTS
LJ27	LJHSTPY	LL28	LCBAGE	LM24	LNXDTS
LJ28	LJBLKY	LL30	LLCHMORN	LM25	LHOSP
LJ31	LJBHAD	LL31A	LIVLA	LM26	LHOSPD
LJ32	LJLEND4	LL31B	LIVLB	LM28	LHOSPCCH
LJ33	LJLSOC	LL31C	LIVLC	LM29	LHOSP NHS
LJ33	LJLSOC00	LL31D	LIVLD	LM30	LHLCV R
LJ34	LJLSIC	LL31E	LIVLE	LM31	LHLCVRH
LJ34	LJLSIC92	LL32M	LLEDENDM	LM32	LHLCVRL
LJ35	LJLSEMP	LL32Y	LLEDENY4	LM33	LHLSV
LJ36	LJLBOSS	LL32NL	LLEDNOW	LM34A	LHLSVA
LJ37	LJLMNGR	LL27DN	LLNCNO	LM35A	LHLSVAN
LJ38	LJLSIZE	LL33SP	LLESHNO	LM36A	LHLSVAF
LJ39A	LIVJA	LL33	LLESHST	LM34B	LHLSVB
LJ39B	LIVJB	LL34M	LLESTEM	LM35B	LHLSVBN
LJ39C	LIVJC	LL34Y	LLESHEY4	LM36B	LHLSVBF
LJ39D	LIVJD	LL34NE	LLESHNE	LM34C	LHLSVC
LJ39E	LIVJE	LM1	LHLSDBL	LM35C	LHLSVCN
LL4M	LLMARM	LM1A	LHLSTAT	LM36C	LHLSVCF
LL4M	LLMARY4	LM2A	LHLPRBA	LM34D	LHLSVD
LL5	LMPNO	LM2B	LHLPRBB	LM35D	LHLSVDN
LL6	LLCMCOH	LM2C	LHLPRBC	LM36D	LHLSVDF
LL7M	LLCMCBM	LM2D	LHLPRBD	LM34E	LHLSVE
LL7Y	LLCMCBY4	LM2E	LHLPRBE	LM35E	LHLSVEN
LL8M	LLCMSPM	LM2F	LHLPRBF	LM36E	LHLSVEF
LL8Y	LLCMSPY4	LM2G	LHLPRBG	LM34F	LHLSVF
LL10	LLMCOH	LM2H	LHLPRBH	LM35F	LHLSVFN
LL11M	LLMCBM	LM2I	LHLPRBI	LM36F	LHLSVFF
LL11Y	LLMCBY4	LM2J	LHLPRBJ	LM34G	LHLSVG
LL12	LLMEND	LM2K	LHLPRBK	LM35G	LHLSVGN
LL13M	LLMWWM	LM2L	LHLPRBL	LM36G	LHLSVGF

LM34H	LHLSVH	LP10M	LPRESBGM	LS5B	LNET3RL
LM35H	LHLSVHN	LP10Y	LPRESBY4	LS5BOC	LNET1WR
LM36H	LHLSVHF	LP11	LPRESLY	LS5BOC	LNET2WR
LM34I	LHLSVI	LP23	LPRFEHQ	LS5BOC	LNET3WR
LM35I	LHLSVIN	LP25	LPRSEHQ	LS5C	LNET1AG
LM36I	LHLSVIF	LP58	LPRJBFT	LS5C	LNET2AG
LM34L	LHLSVL	LP59M	LPRJBBGM	LS5C	LNET3AG
LM35L	LHLSVLN	LP59Y	LPRJBBY4	LS5D	LNET1KN
LM36L	LHLSVLF	LP60	LPRJBL Y	LS5D	LNET2KN
LM34M	LHLSVM	LP61	LPREARN	LS5D	LNET3KN
LM35M	LHLSVMN	LP70A	LPRF101	LS5E	LNET1PH
LM36M	LHLSVMF	LP70B	LPRF102	LS5E	LNET2PH
LM34J1	LHLSVJ	LP70C	LPRF116	LS5E	LNET3PH
LM35J1	LHLSVJN	LP70D	LPRF131	LS5F	LNET1LV
LM36J1	LHLSVJF	LP70F	LPRF135	LS5F	LNET2LV
LM34J2	LHLSVK	LP70G	LPRF137	LS5F	LNET3LV
LM35J2	LHLSVKN	LP70H	LPRF139	LS5G	LNET1JB
LM36J2	LHLSVKF	LF70I	LPRF125	LS5G	LNET2JB
LM37	LHLCK	LP70J	LPRF141	LS5G	LNET3JB
LM38A	LHLCKA	LP70NO	LPRFIRN	LS6A	LNETSOC
LM39A	LHLCKAN	LP71	LPRFITB	LT2B	LTELWHY
LM38B	LHLCKB	LPI1A	LIVPA	LT45	LTLFIYRL
LM39B	LHLCKBN	LPI1B	LIVPB	LT50	LTLFIYR
LM38C	LHLCKC	LPI1C	LIVPC	LV1A	LOPNATA
LM39C	LHLCKCN	LPI1D	LIVPD	LV1B	LOPNATB
LM38D	LHLCKD	LPI1E	LIVPE	LV1C	LOPNATC
LM39D	LHLCKDN	LS1A	LGHQA	LV1D	LOPNATD
LM38E	LHLCKE	LS1B	LGHQB	LV1E	LOPNATE
LM39E	LHLCKEN	LS1C	LGHQC	LV1F	LOPNATF
LM38F	LHLCKI	LS1D	LGHQD	LV2	LVOTE1
LM39F	LHLCKIN	LS1E	LGHQE	LV3	LVOTE2
LM38G	LHLCKF	LS1F	LGHQF	LV4	LVOTE3
LM39G	LHLCKFN	LS1G	LGHQG	LV5	LVOTE4
LM38H	LHLCKG	LS1H	LGHQH	LV6	LVOTE5
LM39H	LHLCKGN	LS1I	LGHQI	LV7	LVOTE7
LM38I	LHLCKH	LS1J	LGHQJ	LV8	LVOTE8
LM39I	LHLCKHN	LS1K	LGHQK	LV9	LVOTE6
LM40	LSMOKER	LS1L	LGHQL	LV10	LOPDEV1
LM41	LNCIGS	LS2A	LOPFAMO	LV11	LOPDEV2
LM42	LSMCIGS	LS2B	LOPFAML	LV12	LOPEUR1
LM43	LAGLQUT	LS2C	LOPFAMP	LV13	LOPEUR2
LM45	LAIDHH	LS2D	LOPFAMQ	LV14	LOPEUR3
LM46P1	LAIDHUA	LS2E	LOPFAMK	LV15	LOPEUR4
LM46P2	LAIDHUB	LS2F	LOPFAMR	LV16A	LLACTA
LM46P3	LAIDHUC	LS3A	LLFSAT1	LV16B	LLACTB
LM47	LAIDXHH	LS3B	LLFSAT2	LV16C	LLACTC
LM48	LNAIDXHH	LS3C	LLFSAT3	LV16D	LLACTD
LM49M1	LAIDHU1	LS3D	LLFSAT4	LV16E	LLACTE
LM49M2	LAIDHU2	LS3E	LLFSAT5	LV16F	LLACTF
LM51	LAIDHRS	LS3F	LLFSAT6	LV16H	LLACTH
LM52A	LIVMA	LS3G	LLFSAT7	LV16I	LLACTI
LM52B	LIVMB	LS3H	LLFSAT8	LV16J	LLACTJ
LM52C	LIVMC	LS4A	LLFSATO	LV16K	LLACTK
LM52D	LIVMD	LS4B	LLFSATL	LV16L	LLACTL
LM52E	LIVME	LS5A	LNETSX1	LV17	LFRNA
LP2B	LPRRS2I	LS5A	LNETSX2	LV18	LFRNB
LP2C	LPRIPN	LS5A	LNETSX3	LV19	LFRNC
LP2D	LPRWHY	LS5B	LNET1RL	LV20A	LLVMA
LP3	LPPLEVR	LS5B	LNET2RL	LV20B	LMAAGE

LV20A	LLVPA	LV48	LSCTUTL	LY13	LYPARGM
LV20B	LPAAGE	LV48	LSCTUTH	LY14	LYPARGF
LV20A	LLVCH	LV48	LSCTUTO	LY15	LYPTLKM
LV20C	LNLVCH	LV49A	LSC2UNI	LY16	LYPTLKF
LV20A	LNOLVREL	LV49B	LSCLUNI	LY17	LYPNPAL
LV21	LPARMAR	LV50	LSCARG	LY18	LYPFGHT
LV22	LMALONE	LV51	LSCTALK	LY19	LYPEATN
LV23	LPALONE	LV52	LSCPRAZ	LY20	LYPSMEV
LV24A	LMASEE	LV53	LSCSMAK	LY21	LYPSMOF
LV24B	LMATEL	LV54	LSCCUDL	LY22	LYPSMLW
LV24C	LMAMAIL	LV55	LSCYELL	LY23	LYPDGFR
LV25	LMAFAR	LV56	LSCHOSA	LY24	LYPESTA
LV26A	LPASEE	LV57	LSCHOS1	LY25	LYPESTI
LV26B	LPATEL	LV57	LSCHOS2	LY26	LYPESTB
LV26C	LPAMAIL	LV58	LHSCIMP	LY27	LYPESTJ
LV27	LPAFAR	LV59	LPLYKID	LY28	LYPESTC
LV28A	LCHSEE	LV60	LLEIKID	LY29	LYPESTK
LV28B	LCHTEL	LV61	LKIDOPA	LY30	LYPESTE
LV28C	LCHMAIL	LV62	LKIDSEE	LY31	LYPESTF
LV29	LCHFAR	LV63	LKIDWE	LY32	LYPTCHA
LV30A	LCHAIDA	LV64	LKIDHOL	LY33	LYPTCHB
LV30B	LCHAIDB	LV64A	LKIDFAR	LY34	LYPHSW
LV30C	LCHAIDC	LV65	LKIDREL	LY35	LYPHAP
LV30D	LCHAIDD	LV66	LOHCH16	LY36	LYPHFM
LV30E	LCHAIDE	LV67	LSEEKID	LY37	LYPHFR
LV30F	LCHAIDF	LV68	LWEKID	LY38	LYPHSC
LV30G	LCHAIDG	LV69	LHOLKID	LY39	LYPHLF
LV30H	LCHAIDH	LV69A	LFARKID	LY40	LYPVTE6
LV30I	LCHAIDI	LV70	LRELKID	LY41	LYPVTE3
LV30NO	LNOCHAID	LV71A	LIVVA	LY42	LYPVT11
LV31A	LCAIDUA	LV71B	LIVVB	LY43	LYPTRUN
LV31B	LCAIDUB	LV71C	LIVVC	LY44	LYPBULL
LV31C	LCAIDUC	LV71D	LIVVD	LY45	LYPOPSC
LV31D	LCAIDUD	LV71E	LIVVE	LY46	LYPLVSC
LV31E	LCAIDUE	LVN12	LNIPOP1	LY47	LYPACVS
LV31F	LCAIDUF	LVN13	LNIPOP2	LY49	LYPSOC
LV31G	LCAIDUG	LVN14	LNIPOP3	LY50	LYPWKLW
LV31H	LCAIDUH	LVN15	LNIPOP4	LY51M1	LYPSOC1
LV31I	LCAIDUI	LVN16	LNIPOP5	LY51M2	LYPSOC2
LV31NO	LNOCAIDU	LVN17	LNIPOP6	LY52	LYPWHR
LV32	LHHCH16	LY1	LYTVHRS	LY53	LYPPAY
LV34	LPNO	LY2	LYTVSTP	LY54A	LYPWKM
LV35	LSCAGE	LY3A	LYPACTA	LY54B	LYPWKT
LV36	LSCTEX	LY3B	LYPACTB	LY54C	LYPWKW
LV37	LSCAGE4	LY3C	LYPACTC	LY54D	LYPWKTH
LV38	LSCTYP	LY3D	LYPACTD	LY54E	LYPWKF
LV39Y	LSCHBGY	LY3E	LYPACTE	LY54F	LYPWKSA
LV39M	LSCHBGM	LY3F	LYPACTM	LY54G	LYPWKSU
LV40	LSCHSTA	LY3G	LYPACTN	LY55	LYPLVHM
LV41	LSCHLNG	LY3H	LYPACTL	LY56	LYP2UNI
LV42	LSCHSAT	LY4	LYPCHOR	LY57M1	LYPNUNA
LV43	LSCHHW	LY5	LYPCOMP	LY57M2	LYPNUNB
LV44	LSCACVS	LY6	LYPPCHW	LY58A	LYPJBQA
LV45	LSCACH	LY7	LYPPCG	LY58B	LYPJBQD
LV46	LSCAG11	LY8	LYPPCNT	LY58C	LYPJBQB
LV47	LSCTUT	LY9	LYPMOBU	LY58D	LYPJBQF
LV48	LSCTUTE	LY10	LYPPALS	LY58E	LYPJBQG
LV48	LSCTUTM	LY11	LYPPALO	LY58F	LYPJBQH
LV48	LSCTUTS	LY12	LYPLATE	LY59A	LYPFUTA

LY59B	LYPFUTB	MD24	MEDQUAL1	MD33B	MOPRLG5
MD0AD	MDOID	MD24	MEDQUAL2	MD33C	MOPRLG6
MD0AM	MDOIM	MD25A1	MEDQLA1	MD34	MJBSTAT
MD0AY	MDOIY4	MD25A2	MEDQLA2	MD36	MPASOC
MD0BA	MIVLYR	MD25B1	MEDQLB1	MD36	MPASOC00
MD0BB	MIVSTAT2	MD25B2	MEDQLB2	MD36ANA	MPAJU
MD1H	MIVSOIH	MD25C1	MEDQLC1	MD37	MPASEMP
MD1M	MIVSOIM	MD25C2	MEDQLC2	MD38	MPABOSS
MD2	MLKNBRD	MD25D1	MEDQLD1	MD39	MPAMNGR
MD9A	MMOVJBA	MD25D2	MEDQLD2	MD4	MLKMOVY
MD9B	MMOVJBB	MD25E1	MEDQLE1	MD40	MMASOC00
MD9C	MMOVJBC	MD25E2	MEDQLE2	MD40	MMASOC
MD9D	MMOVJBD	MD25F1	MEDQLF1	MD40	MMAJU
MD9E	MMOVJBE	MD25F2	MEDQLF2	MD41	MMASEMP
MD9F	MMOVJBF	MD25G1	MEDQLG1	MD42	MMABOSS
MD9G	MMOVJBG	MD25G2	MEDQLG2	MD43	MMAMNGR
MD9H	MMOVJBH	MD25H1	MEDQLH1	MD44	MJ1SOC
MD9I	MMOVJBI	MD25H2	MEDQLH2	MD44	MJ1SOC00
MD10M1	MMOVY1	MD25I1	MEDQLI1	MD44NA	MJ1NONE
MD10M2	MMOVY2	MD25I2	MEDQLI2	MD45	MJ1SEMP
MD11M	MDOBM	MD25J1	MEDQLJ1	MD46	MJ1BOSS
MD11Y	MDOBY	MD25J2	MEDQLJ2	MD47	MJ1MNGR
MD12	MSEX	MD25NA	MEDQNN2	MD48	MLCOH
MD12	MSEX	MD25NONE	MEDQNN1	MD49M	MCOH1BM
MD14	MMLSTAT	MD26A1	MEDQLAN1	MD49Y	MCOH1BY
MD15	MMLCHNG	MD26A2	MEDQLAN2	MD5	MXPMOVE
MD16M	MMLCHM	MD26B1	MEDQLBN1	MD50	MCOH1MR
MD16Y	MMLCHY4	MD26B2	MEDQLBN2	MD51M	MCOH1EM
MD17	MJBSTAT	MD26C1	MEDQLCN1	MD51Y	MCOH1EY
MD17A	MRACEL	MD26C2	MEDQLCN2	MD52	MNMAR
MD18	MEDLYR	MD26D1	MEDQLDN1	MD53M	MLMAR1M
MD19	MEDTYPE2	MD26D2	MEDQLDN2	MD53Y	MLMAR1Y
MD19	MEDTYPE1	MD26E1	MEDQLEN1	MD54	MLPRNT
MD20	MEDBLYR2	MD26E2	MEDQLEN2	MD55	MLNPRNT
MD20	MEDBLYR1	MD26F1	MEDQLFN1	MD56M	MCH1BM
MD21M	MEDBGM1	MD26F2	MEDQLFN2	MD56Y	MCH1BY
MD21M2	MEDBGM2	MD26G1	MEDQLGN1	MD57	MSCEND
MD21Y	MEDBGY1	MD26G2	MEDQLGN2	MD57NA	MSCHOOL
MD21Y2	MEDBGY2	MD26H1	MEDQLHN1	MD58	MSCTYPE
MD22	MEDENNE1	MD26H2	MEDQLHN2	MD59	MSCNOW
MD22M	MEDENM1	MD26I1	MEDQLIN1	MD6	MPLNEW
MD22M2	MEDENM2	MD26I2	MEDQLIN2	MD60	MFETYPE
MD22NE2	MEDENNE2	MD26J1	MEDQLJN1	MD61	MFEEND
MD22Y	MEDENY1	MD26J2	MEDQLJN2	MD61NA	MFENOW
MD22Y2	MEDENY2	MD27	MEDOQL1	MD62	MQFHAS
MD23A	MEDFEEA1	MD27	MEDOQL2	MD63A	MQFA
MD23A2	MEDFEEA2	MD27NONE	MEDOQLN1	MD63B	MQFB
MD23B	MEDFEEB1	MD27NONE	MEDOQLN2	MD63C	MQFC
MD23B2	MEDFEEB2	MD28	MEDMORE2	MD63D	MQFD
MD23C	MEDFEEC1	MD28	MEDMORE1	MD63E	MQFE
MD23C2	MEDFEEC2	MD29DST	MPLBORND	MD63F	MQFF
MD23D	MEDFEED1	MD29OS	MPLBORNC	MD63G	MQFG
MD23D2	MEDFEED2	MD3	MLKMOVE	MD63H	MQFH
MD23E	MEDFEEE1	MD30	MYR2UK4	MD63I	MQFI
MD23E2	MEDFEEE2	MD31	MMLSTAT	MD63J	MQFJ
MD23F	MEDFEEF1	MD32M1	MCITZN1	MD63K	MQFK
MD23F2	MEDFEEF2	MD32M2	MCITZN2	MD63L	MQFL
MD23G	MEDFEEG1	MD33	MRACEL	MD63M	MQFM
MD23G2	MEDFEEG2	MD33A	MOPRLG4	MD63N	MQFN

MD64	MQFED	MD70D3	MTRWHYD3	MD75I2	MTRQLI2
MD65A	MQFEDA	MD70E1	MTRWHYE1	MD75I3	MTRQLI3
MD65B	MQFEDB	MD70E2	MTRWHYE2	MD75J1	MTRQLJ1
MD65C	MQFEDC	MD70E3	MTRWHYE3	MD75J2	MTRQLJ2
MD65D	MQFEDD	MD71	MTRQ3	MD75J3	MTRQLJ3
MD65E	MQFEDE	MD71	MTRQ1	MD75NONE	MTRQLNN1
MD65F	MQFEDF	MD71	MTRU3	MD75NONE	MTRQLNN3
MD65G	MQFEDG	MD71	MTRQ2	MD75NONE	MTRQLNN2
MD65H	MQFEDH	MD71	MTRU1	MD76AN1	MTRQLAN1
MD65I	MQFEDI	MD71	MTRU2	MD76AN2	MTRQLAN2
MD65J	MQFEDJ	MD72A1	MTRFEEA1	MD76AN3	MTRQLAN3
MD65K	MQFEDK	MD72A2	MTRFEEA2	MD76BN1	MTRQLBN1
MD65L	MQFEDL	MD72A3	MTRFEEA3	MD76BN2	MTRQLBN2
MD65M	MQFEDM	MD72B1	MTRFEEB1	MD76BN3	MTRQLBN3
MD65N	MQFEDN	MD72B2	MTRFEEB2	MD76CN1	MTRQLCN1
MD65O	MQFEDO	MD72B3	MTRFEEB3	MD76CN2	MTRQLCN2
MD65P	MQFEDP	MD72C1	MTRFEEC1	MD76CN3	MTRQLCN3
MD65Q	MQFEDQ	MD72C2	MTRFEEC2	MD76DN1	MTRQLDN1
MD65R	MQFEDR	MD72C3	MTRFEEC3	MD76DN2	MTRQLDN2
MD65S	MQFEDS	MD72E1	MTRFEEE1	MD76DN3	MTRQLDN3
MD65T	MQFEDT	MD72E2	MTRFEEE2	MD76EN1	MTRQLEN1
MD65U	MQFEDU	MD72E3	MTRFEEE3	MD76EN2	MTRQLEN2
MD66A	MNQFEDA	MD72F1	MTRFEEF1	MD76EN3	MTRQLEN3
MD66B	MNQFEDB	MD72F2	MTRFEEF2	MD76FN1	MTRQLFN1
MD66C	MNQFEDC	MD72F3	MTRFEEF3	MD76FN2	MTRQLFN2
MD66D	MNQFEDD	MD72G1	MTRFEEG1	MD76FN3	MTRQLFN3
MD66E	MNQFEDE	MD72G2	MTRFEEG2	MD76GN1	MTRQLGN1
MD66F	MNQFEDF	MD72G3	MTRFEEG3	MD76GN2	MTRQLGN2
MD66G	MNQFEDG	MD73	MTRQLXP3	MD76GN3	MTRQLGN3
MD66H	MNQFEDH	MD73	MTRQLXP1	MD76HN1	MTRQLHN1
MD66I	MNQFEDI	MD73	MTRQLXP2	MD76HN2	MTRQLHN2
MD66J	MNQFEDJ	MD74	MTRQLAC3	MD76HN3	MTRQLHN3
MD66K	MNQFEDK	MD74	MTRQLAC2	MD76IN1	MTRQLIN1
MD66L	MNQFEDL	MD74	MTRQLAC1	MD76IN2	MTRQLIN2
MD66M	MNQFEDM	MD75A1	MTRQLA1	MD76IN3	MTRQLIN3
MD66N	MNQFEDN	MD75A2	MTRQLA2	MD76JN1	MTRQLJN1
MD66O	MNQFEDO	MD75A3	MTRQLA3	MD76JN2	MTRQLJN2
MD66P	MNQFEDP	MD75B1	MTRQLB1	MD76JN3	MTRQLJN3
MD66Q	MNQFEDQ	MD75B2	MTRQLB2	MD77	MTROQL1
MD66R	MNQFEDR	MD75B3	MTRQLB3	MD77	MTROQL3
MD66S	MNQFEDS	MD75C1	MTRQLC1	MD77	MTROQL2
MD66T	MNQFEDT	MD75C2	MTRQLC2	MD77NO	MTROQLN3
MD66U	MNQFEDU	MD75C3	MTRQLC3	MD77NONE	MTROQLN1
MD67	MTRAIN	MD75D1	MTRQLD1	MD77NONE	MTROQLN2
MD68	MNTRAIN	MD75D2	MTRQLD2	MD78	MTRMORE1
MD69	MTRPLCE2	MD75D3	MTRQLD3	MD78	MTRMORE2
MD69	MTRPLCE3	MD75E1	MTRQLE1	MD79	MIVLPAR
MD69	MTRPLCE1	MD75E2	MTRQLE2	MD7M	MPLNOWM
MD70A1	MTRWHYA1	MD75E3	MTRQLE3	MD7Y	MPLNOWY4
MD70A2	MTRWHYA2	MD75F1	MTRQLF1	MD8	MMOVJB
MD70A3	MTRWHYA3	MD75F2	MTRQLF2	MD80	MNRPART
MD70B1	MTRWHYB1	MD75F3	MTRQLF3	MD81	MNRPTIM
MD70B2	MTRWHYB2	MD75G1	MTRQLG1	MD82	MNRPXPM1
MD70B3	MTRWHYB3	MD75G2	MTRQLG2	MD83	MNRPXPM2
MD70C1	MTRWHYC1	MD75G3	MTRQLG3	MD84	MCOHADV
MD70C2	MTRWHYC2	MD75H1	MTRQLH1	MD85	MCOHAD1
MD70C3	MTRWHYC3	MD75H2	MTRQLH2	MD85	MCOHAD2
MD70D1	MTRWHYD1	MD75H3	MTRQLH3	MD86	MCOHDIS
MD70D2	MTRWHYD2	MD75I1	MTRQLI1	MD87	MCOHDS2

MD87	MCOHDS1	MD117E	MWLSHE	ME15	MJBPL
MD88	MCOHXPM1	MD118A	MWLSHUA	ME16	MJBTTWT
MD89	MCOHXPM2	MD118B	MWLSHUB	ME17	MJBTTWM
MD90A	MBIRHH	MD118C	MWLSHUC	ME18B	MJBSAT2
MD90B	MMABWLY	MD118D	MWLSHUD	ME18D	MJBSAT4
MD91	MMABWNLY	MD118E	MWLSHUE	ME18F	MJBSAT6
MD92AGM1	MBWTAGM1	MD119	MAGLT20	ME18G	MJBSAT7
MD92AGM2	MBWTAGM2	MD120	MSCNOW2	ME19	MJBSAT
MD92AGM3	MBWTAGM3	MD121	MINFTED	ME20	MPAYGL
MD92PN1 . . .	MBWTPN1	MD122	MEDASP	ME21OC	MPAYGW
MD92PN2 . . .	MBWTPN2	MD123	MFEDASP	ME22	MPAYNL
MD92PN3 . . .	MBWTPN3	MD123A	MFEDTYP	ME23A	MPYTC
MD93	MBWTXP2	MD124	MFEDLIK	ME23B	MPYWFTC
MD93	MBWTXP3	MD125M1 . . .	MFEDNT1	ME23C	MPYWFTCW
MD93	MBWTXP1	MD125M2 . . .	MFEDNT2	ME23OC	MPAYNW
MD94	MBWTEL2	MD126	MOCFUT	ME24	MPAYSLP
MD94	MBWTEL3	MD127A	MOCIMPA	ME26	MPAYUSL
MD94	MBWTEL1	MD127B	MOCIMPB	ME27	MPAYU
MD95	MBWTWK2	MD127C	MOCIMPC	ME28OC	MPAYUW
MD95	MBWTWK3	MD127D	MOCIMPD	ME29	MPAYUG
MD95	MBWTWK1	MD127E	MOCIMPE	ME30A	MPAYDF1
MD96	MBWTKN1	MD127F	MOCIMPF	ME30B	MPAYDF2
MD96	MBWTKN2	MD127G	MOCIMPG	ME30C	MPAYDF3
MD96	MBWTKN3	MD127H	MOCIMPH	ME30D	MPAYDF4
MD97LB1 . . .	MBWTLB1	MD127I	MOCIMPI	ME30E	MPAYDF5
MD97LB2 . . .	MBWTLB2	MD127J	MOCIMPJ	ME30F	MPAYDF6
MD97LB3 . . .	MBWTLB3	MD127K	MOCIMPK	ME30G	MPAYDF7
MD97OZ1 . . .	MBWTOZ1	MD127L	MOCIMPL	ME30H	MPAYDF9
MD97OZ2 . . .	MBWTOZ2	MD128A	MFUTRA	ME30I	MPAYDF8
MD97OZ3 . . .	MBWTOZ3	MD128B	MFUTRB	ME31	MPAYTYP
MD98	MBWTGM3	MD128C	MFUTRC	ME32	MOVTPAY
MD98	MBWTGM2	MD128D	MFUTRD	ME33	MEXTRATE
MD98	MBWTGM1	MD128E	MFUTRE	ME33	MEXTREST
MD99	MBWTG53	MD128F	MFUTRF	ME34	MBASRATE
MD99	MBWTG51	MD128G	MFUTRG	ME34	MBASREST
MD99	MBWTG52	MD128H	MFUTRH	ME35	MOVTRATE
MD100	MCBAGE	MD128I	MFUTRI	ME35	MOVTREST
MD101	MLCHMOR	MD128J	MFUTRJ	ME39	MJBPERFP
MD102	MLCHMORN	MD129A	MIVDA	ME40	MJBONUS
MD103	MLVAG16	MD129B	MIVDB	ME41	MJBONAM
MD104	MAGELH	MD129C	MIVDC	ME42	MJBONG
MD105	MLVAG14	MD129D	MIVDD	ME43	MJBRISE
MD106	MYNLP14	MD129E	MIVDE	ME44	MTUJBPL
MD107	MSIBS	ME1	MJBHAS	ME45	MTUIN1
MD108	MNSIBS	ME2	MJBOFF	ME46	MJBOPPS
MD108A	MFAMSIZ	ME3	MJBOFFY	ME47	MJBPEN
MD109	MFAMPOS	ME4	MJBTERM1	ME48	MJBPENM
MD110	MPABY	ME4A	MJBTERM2	ME49A	MJBWKHRC
MD110A	MPAAGYB	ME5	MJBSOC	ME49A	MJBWKHRH
MD111	MMABY	ME5	MJBSOC00	ME49A	MJBWKHRG
MD111A	MMAAGYB	ME6	MJBSIC92	ME49A	MJBWKHRF
MD112	MPAEDHI	ME7	MJBSEMP	ME49A	MJBWKHRD
MD113	MMAEDHI	ME8	MJBMNGR	ME49A	MJBWKHRB
MD114	MNBOOKS	ME9	MJBSECT	ME49A	MJBWKHRA
MD115	MHOOD15	ME10	MJBSIZE	ME49A	MJBWKHRE
MD117A	MWLSHA	ME11	MJBHRS	ME49B	MJBWKPAT
MD117B	MWLSHB	ME12	MJBOT	ME49C	MJBEN2M
MD117C	MWLSHC	ME13	MJBOTPD	ME49C	MJBEN3M
MD117D	MWLSHD	ME14	MJBHRLK	ME49C	MJBEN2H

ME49C	MJBST2M	ME62	MPAYS	ME81BY	MJSPRBY4
ME49C	MJBST1M	ME63OC	MPAYSW	ME81EM	MJSPREM
ME49C	MJBEN1H	ME64	MPAYSG	ME81EY	MJSPREY4
ME49C	MJBEN3H	ME73	MJSBOSS	ME82	MJSPRF
ME49C	MJBEN1M	ME74	MJSSIZE	ME83	MJSPRLS
ME49C	MJBST2H	ME75	MJSHRS	ME84	MJSPRTX
ME49C	MJBST3M	ME76	MJSHRLK	ME85	MJSPRNI
ME49C	MJBST3H	ME77A	MJSWKPAT	ME86BM	MJSPRBM
ME49C	MJBST1H	ME77B	MJSEN2H	ME86BY	MJSPRBY4
ME49D	MLWEN7M	ME77B	MJSST1M	ME86EM	MJSPREM
ME49D	MLWEN4H	ME77B	MJSEN1H	ME86EY	MJSPREY4
ME49D	MLWEN4M	ME77B	MJSEN1M	ME87	MJSPRF
ME49D	MLWDNW4	ME77B	MJSST2H	ME88	MJSPRLS
ME49D	MLWST5H	ME77B	MJSST2M	ME89	MJSPRTX
ME49D	MLWST5M	ME77B	MJSEN3M	ME90	MJSPRNI
ME49D	MLWEN5H	ME77B	MJSEN3H	ME91	MJSPAYU
ME49D	MLWEN5M	ME77B	MJSST3M	ME92	MJSPAYW
ME49D	MLWDNW5	ME77B	MJSST3H	ME93	MJSPYTX
ME49D	MLWST6H	ME77B	MJSEN2M	ME94	MJSPYNI
ME49D	MLWDNW6	ME77B	MJSST1H	ME95	MJSPL
ME49D	MLWEN6H	ME77C	MLWSST6H	ME96	MJSTTWT
ME49D	MLWEN6M	ME77C	MLWSEN6M	ME97	MJSTTWM
ME49D	MLWST1H	ME77C	MLWSEN4M	ME98A	MJSSAT1
ME49D	MLWST7H	ME77C	MLWSDNW4	ME98B	MJSSAT2
ME49D	MLWDNW7	ME77C	MLWSST5H	ME98D	MJSSAT4
ME49D	MLWST4M	ME77C	MLWSST5M	ME98E	MJSSAT5
ME49D	MLWST7M	ME77C	MLWSEN5H	ME99	MJSSAT
ME49D	MLWEN7H	ME77C	MLWSDNW5	ME100D	MJSBGD
ME49D	MLWST6M	ME77C	MLWSEN4H	ME100M	MJSBGM
ME49D	MLWDNW1	ME77C	MLWSEN6H	ME100Y	MJSBGY4
ME49D	MLWEN1H	ME77C	MLWSST7M	ME101A	MJBLKCHA
ME49D	MLWST4H	ME77C	MLWSDNW6	ME101B	MJBLKCHB
ME49D	MLWEN1M	ME77C	MLWSST7H	ME101C	MJBLKCHC
ME49D	MLWST2H	ME77C	MLWSEN7H	ME101D	MJBLKCHD
ME49D	MLWST2M	ME77C	MLWSEN5M	ME101E	MJBLKCHE
ME49D	MLWEN2H	ME77C	MLWSDNW7	ME102A	MJBXPCHA
ME49D	MLWEN3M	ME77C	MLWSST1H	ME102B	MJBXPCHB
ME49D	MLWST1M	ME77C	MLWSST6M	ME102C	MJBXPCHC
ME49D	MLWDNW3	ME77C	MLWSST1M	ME102D	MJBXPCHD
ME49D	MLWEN2M	ME77C	MLWSEN7M	ME102E	MJBXPCHD
ME49D	MLWEN3H	ME77C	MLWSST4M	ME104	MRACH12
ME49D	MLWST3M	ME77C	MLWSEN1H	ME105M1	MJBCHC1
ME49D	MLWST3H	ME77C	MLWSDNW1	ME105M2	MJBCHC2
ME49D	MLWDNW2	ME77C	MLWSST2H	ME105M3	MJBCHC3
ME49E	MJBPATW	ME77C	MLWSST2M	ME107	MXPCHCF
ME52D	MJBBGD	ME77C	MLWSEN2H	ME108	MXPCHC
ME52M	MJBBGM	ME77C	MLWSEN2M	ME109	MHUXPCH
ME52Y	MJBBGY4	ME77C	MLWSST3H	ME110	MHUNURS
ME53	MJBBGLY	ME77C	MLWSST3M	ME111	MJULK1
ME54	MPAYS	ME77C	MLWSST4H	ME112	MJULK4
ME55OC	MPAYSW	ME77C	MLWSEN3H	ME113A	MJULKA
ME56	MPAYSG	ME77C	MLWSDNW3	ME113B	MJULKB
ME57D	MJBBGD	ME77C	MLWSEN3M	ME113C	MJULKC
ME57M	MJBBGM	ME77C	MLWSDNW2	ME113D	MJULKD
ME57Y	MJBBGY4	ME77C	MLWSEN1M	ME113E	MJULKE
ME58	MJBBGLY	ME78	MJSTYPEB	ME114	MJULKJB
ME59	MPAYLY	ME79	MJSACCS	ME115	MJUBGN
ME60OC	MPAYLYW	ME80	MJSPART	ME116	MJUSPEC
ME61	MPAYLYG	ME81BM	MJSPRBM	ME117	MJUSOC00

ME117	MJUSOC	MF3B18	MFR18	MF43A3	MFTEXA3
ME118	MJUHRXS	MF3B19	MFR19	MF43A4	MFTEXA4
ME119	MJUPAYX	MF3B20	MFR20	MF43A5	MFTEXA5
ME120	MJUPAYL	MF3BAL	MFRALL	MF43A6	MFTEXA6
ME121	MJUHRSL	MF3C	MFRNOW	MF43B1	MFTEXB1
ME124	MEPROSH	MF3D	MFRVAL	MF43B2	MFTEXB2
ME129	MEAAGE	MF3EOC	MFRW	MF43B3	MFTEXB3
ME130	MJBUB	MF3F	MFRJT	MF43B4	MFTEXB4
ME131	MJBUBY	MF3FPN	MFRJTPN	MF43B5	MFTEXB5
ME132	MJ2HAS	MF3SEQ	MFISEQ	MF43B6	MFTEXB6
ME133	MJ2SOC00	MF4	MFISIT	MF43C1	MFTEXC1
ME133	MJ2SOC	MF5	MFISITC	MF43C2	MFTEXC2
ME134	MJ2SEMP	MF6	MFISITY	MF43C3	MFTEXC3
ME135	MJ2HRS	MF7	MFISITX	MF43C4	MFTEXC4
ME136	MJ2PAY	MF8	MFIYRDIA	MF43C5	MFTEXC5
ME137A	MIVEA	MF9A	MFIYRDB1	MF43C6	MFTEXC6
ME137B	MIVEB	MF9B	MFIYRDB2	MF44A	MFTEXAV
ME137C	MIVEC	MF9C	MFIYRDB3	MF44B	MFTEXBV
ME137D	MIVED	MF9D	MFIYRDB4	MF44C	MFTEXCv
ME137E	MIVEE	MF9E	MFIYRDB5	MF45A	MFTEXAW
MEG3	PID	MF9F	MFIYRDB6	MF45B	MFTEXBW
MEG4	MHGSEX	MF10	MSAVE	MF45C	MFTEXCW
MEG5M	MHGBM	MF11	MSAVED	MF46	MSPINHH
MEG5Y	MHGBY	MF11AM1	MSAVEY1	MF47A	MHUBUYS
MEG6	MIVLYR	MF11AM2	MSAVEY2	MF47B	MHUFRRYS
MEG6	MIVIOLW	MF12	MSAVREG	MF47C	MHUMOPS
MEG7	MIVSTAT1	MF13	MSAVLT	MF47D	MHUIRON
MEG8	MIVELIG	MF14	MPPPEN	MF48	MHHCH12
MEG9	MHHMEM	MF15	MPENB4	MF49	MHUSITS
MEG10	MNEWHY	MF16	MPENB4Y4	MF50	MHOWLNG
MEG11	MLVWHY	MF17	MPENB4V	MF51	MCARUSE
MEG12M	MLVMN	MF18	MPENB4W	MF52	MMOBUSE
MEG12M	MNEMNJJN	MF19	MPENYR4	MF53	MNEIGH
MEG12Y	MLVYR4	MF20	MPENADD	MF54	MNEIGH3
MEG12Y	MNEYRJJN4	MF21	MPENADV	MF54	MNEIGH4
MEG13	MLVLOC	MF22	MPENADW	MF54	MNEIGH2
MEG14	MIVFIO	MF37	MWINDF	MF54	MNEIGH1
MEG16	MIVRREF	MF38A	MWINDFA	MF63	MDFWLD
MEG17	MIVIREIS	MF38B	MWINDFB	MF648A3	MDFWLD3
MEG18	MIVFIO	MF38C	MWINDFC	MF64A1	MDFWLD1
MF2	MNF1	MF38D	MWINDFD	MF64A2	MDFWLD2
MF3A	MFICODE	MF38F	MWINDFF	MF64A4	MDFWLD4
MF3B01	MFR01	MF38G	MWINDFG	MF65A	MIVFA
MF3B02	MFR02	MF38H	MWINDFH	MF65B	MIVFB
MF3B03	MFR03	MF39A	MWINDFAY	MF65C	MIVFC
MF3B04	MFR04	MF39B	MWINDFBY	MF65D	MIVFD
MF3B05	MFR05	MF39C	MWINDFCY	MF65E	MIVFE
MF3B06	MFR06	MF39D	MWINDFDY	MF66H	MIVFOIH
MF3B07	MFR07	MF39F	MWINDFFY	MF66M	MIVFOIM
MF3B08	MFR08	MF39G	MWINDFGY	MF67	MIVSC
MF3B09	MFR09	MF39H	MWINDFHY	MF70I	MPRF125
MF3B10	MFR10	MF40A	MXPMEAL	MF101	MF101
MF3B11	MFR11	MF40B	MXPLEIS	MF102	MF102
MF3B12	MFR12	MF41	MFTEXHH	MF103	MF103
MF3B13	MFR13	MF42A	MFTEXA	MF104	MF104
MF3B14	MFR14	MF42B	MFTEXB	MF105	MF105
MF3B15	MFR15	MF42C	MFTEXC	MF106	MF106
MF3B16	MFR16	MF43A1	MFTEXA1	MF116	MF116
MF3B17	MFR17	MF43A2	MFTEXA2	MF118	MF118

MF119	MF119	MH22E	MMGXTY5	MH47C	MHS2VALC
MF121	MF121	MH23	MXPMG	MH47D	MHS2VALD
MF122	MF122	MH24A	MXPMG1	MH49	MMGTOT
MF124	MF124	MH24B	MXPMG2	MH50	MCDHAVE
MF125	MF125	MH24C	MXPMG3	MH51A	MCD1USE
MF126	MF126	MH24D	MXPMG4	MH51B	MCD2USE
MF127	MF127	MH25	MHSJB	MH51C	MCD10USE
MF128	MF128	MH26M1	MREntp1	MH51D	MCD11USE
MF132	MF132	MH26M2	MREntp2	MH51E	MCD3USE
MF135	MF135	MH27	MREntll	MH51F	MCD4USE
MF136	MF136	MH28	MREntf	MH51G	MCD5USE
MF137	MF137	MH30	MREnt	MH51H	MCD6USE
MF138	MF138	MH31	MREntw	MH51I	MCD7USE
MF139	MF139	MH32A	MREnt1	MH51J	MCD8USE
MF140	MF140	MH32B	MREnt7	MH51K	MCD9USE
MF141	MF141	MH32C	MREnt2	MH51L	MCD12USE
MF142	MF142	MH32D	MREnt3	MH52	MCDBgHT
MF143	MF143	MH32E	MREnt4	MH53A	MCD1NEW
MF151	MF151	MH32F	MREnt5	MH53B	MCD2NEW
MF152	MF152	MH32G	MREnt8	MH53C	MCD10NEW
MF153	MF153	MH32H	MREnt6	MH53D	MCD11NEW
MF154	MF154	MH33	MREntHB	MH53E	MCD3NEW
MF155	MF155	MH34	MREntG	MH53F	MCD4NEW
MF156	MF156	MH35	MREntG	MH53G	MCD5NEW
MF157	MF157	MH36	MREntGW	MH53H	MCD6NEW
MF158	MF158	MH37	MXPHSDF	MH53I	MCD7NEW
MF159	MF159	MH38A	MXPHSD1	MH53J	MCD8NEW
MH0AD	MHHDOI	MH38B	MXPHSD2	MH53K	MCD9NEW
MH0AM	MHHMOI	MH39	MXPHSDB	MH53L	MCD12NEW
MH0AY	MHHYOI4	MH40A	MHSBTH	MH54A	MCD1CST
MH0BH	MHHSOIH	MH40A	MHSTLT	MH54B	MCD2CST
MH0BM	MHHSOIM	MH40A	MHSGDN	MH54C	MCD10CST
MH0C	MHSTYPE	MH40A	MHskCH	MH54D	MCD11CST
MH1A	MHSRINS	MH40B	MHskCHS	MH54E	MCD3CST
MH2	MHSROOM	MH40B	MHSTLTS	MH54F	MCD4CST
MH3	MHSOWND	MH40B	MHSGDNS	MH54G	MCD5CST
MH4M1	MHSOWR1	MH40B	MHSBTHS	MH54H	MCD6CST
MH4M2	MHSOWR2	MH41A	MXPGASY	MH54I	MCD7CST
MH5	MHSVAL	MH41B	MXPLECY	MH54J	MCD8CST
MH6	MMGHAVE	MH41C	MXPOILY	MH54K	MCD9CST
MH7	MHSOWRP	MH41D	MXPSFLY	MH54L	MCD12CST
MH8	MMGYNOT	MH42	MHEATCH	MH55	MPCNET
MH9	MHSCOST	MH43	MHEATYP	MH56	MXPHP
MH10	MHSYR04	MH44A	MHSPRBG	MH57	MXPHPDF
MH11	MHSCOST	MH44B	MHSPRBH	MH58A	MHSCANA
MH12	MMGYR04	MH44C	MHSPRBI	MH58B	MHSCANB
MH13	MMGLY	MH44D	MHSPRBJ	MH58C	MHSCANC
MH14	MHSIVLW	MH44E	MHSPRBK	MH58D	MHSCAND
MH15	MMGYR04	MH44F	MHSPRBL	MH58E	MHSCANE
MH16	MHSCOST	MH44G	MHSPRBM	MH58F	MHSCANF
MH17	MMGOLD	MH44H	MHSPRBN	MH59A	MHSCNTA
MH18	MMGLIFE	MH44I	MHSPRBO	MH59B	MHSCNTB
MH19	MMGTYPE	MH44J	MHSPRBP	MH59C	MHSCNTC
MH20	MMGXTRA	MH44K	MHSPRBQ	MH59D	MHSCNTD
MH21	MMGNEW	MH45	MHSCTAX	MH59E	MHSCNTE
MH22A	MMGXTY1	MH46	MHS2OWND	MH59F	MHSCNTF
MH22B	MMGXTY2	MH47	MHS2VALO	MH60	MXPFOOD
MH22C	MMGXTY3	MH47A	MHS2VALA	MH61	MNCARS
MH22D	MMGXTY4	MH47B	MHS2VALB	MH62	MCAROWN

MH63	MCARVAL	MJ31	MJBHAD	MM23	MXDTS
MH64M1	MIVH1	MJ32	MJLEND4	MM24	MNXDTS
MH64M2	MIVH2	MJ33	MJLSOC	MM25	MHOSP
MH64M3	MIVH3	MJ33	MJLSOC00	MM26	MHOSPD
MH65H	MHHFOIH	MJ34	MJLSIC92	MM28	MHOSPCH
MH65M	MHHFOIM	MJ35	MJLSEMP	MM29	MHOSPNHS
MHG2	MHGR2R	MJ36	MJLBOSS	MM20	MHLPRBO
MHG3	MHGSEX	MJ37	MJLMNGR	MM30	MHLCVR
MHG4M	MHGBM	MJ38	MJLSIZE	MM31	MHLCVRH
MHG4Y	MHGBY	MJ39A	MIVJA	MM32	MHLCVRL
MHG8	MMASTAT	MJ39B	MIVJB	MM33	MHLSV
MHG9	MHGSPN	MJ39C	MIVJC	MM34A	MHLSVA
MHG10	MHGEMP	MJ39D	MIVJD	MM34B	MHLSVB
MHG11	MHGFNO	MJ39E	MIVJE	MM34C	MHLSVC
MHG12	MHGMNO	ML2	MMLSTAT	MM34D	MHLSVD
MHG13	MHGRA	ML3	MNMAR	MM34E	MHLSVE
MI1	MIV1	ML18	MLCOH	MM34F	MHLSVF
MI2	MIV2	ML26	MLNPRNT	MM34G	MHLSVG
MI4	MIV4	MM1	MHLDSBL1	MM34H	MHLSVH
MI5	MIV5	MM1A	MHLSTAT	MM34I	MHLSVI
MI6A	MIV6A	MM2A	MHLPRBA	MM34J1	MHLSVJ
MI6B	MIV6B	MM2B	MHLPRBB	MM34J2	MHLSVK
MI6C	MIV6C	MM2C	MHLPRBC	MM34L	MHLSVL
MI6D	MIV6D	MM2D	MHLPRBD	MM34M	MHLSVM
MI6E	MIV6E	MM2E	MHLPRBE	MM35A	MHLSVAN
MI7	MIV6F	MM2F	MHLPRBF	MM35B	MHLSVBN
MI8	MIV7	MM2G	MHLPRBG	MM35C	MHLSVCN
MJ5D	MCJSBGD	MM2H	MHLPRBH	MM35D	MHLSVDN
MJ5M	MCJSBGM	MM2I	MHLPRBI	MM35E	MHLSVEN
MJ5Y	MCJSBGY4	MM2J	MHLPRBJ	MM35F	MHLSVFN
MJ6	MNEMST	MM2K	MHLPRBK	MM35G	MHLSVGN
MJ7D	MCJSBGD	MM2L	MHLPRBL	MM35H	MHLSVHN
MJ7M	MCJSBGM	MM2M	MHLPRBM	MM35I	MHLSVIN
MJ7Y	MCJSBGY4	MM2M0	MHLPRB	MM35J1	MHLSVJN
MJ8	MCJSBLY	MM2N	MHLPRBN	MM35J2	MHLSVKN
MJ9	MJHSTAT	MM9	MHLLT	MM35L	MHLSVLN
MJ10D	MJHBGD	MM10A	MHLLTA	MM35M	MHLSVMN
MJ10M	MJHBGM	MM10B	MHLLTB	MM36A	MHLSVAF
MJ10Y	MJHBGY4	MM10C	MHLLTC	MM36B	MHLSVBF
MJ12	MNJBS	MM10D	MHLLTD	MM36C	MHLSVCF
MJ13	MJHSTAT	MM10E	MHLLTE	MM36D	MHLSVDF
MJ13M	MJHBGM	MM11	MHLLTW	MM36E	MHLSVEF
MJ13Y	MJHBGY4	MM11A	MHLENDW	MM36F	MHLSVFF
MJ14	MJHSOC	MM11B	MHLLTWA	MM36G	MHLSVGF
MJ14	MJHSOC00	MM12	MHLIV65	MM36H	MHLSVHF
MJ15	MJHSTAT	MM13A	MADLA	MM36I	MHLSVIF
MJ16	MJHSEMP	MM13B	MADLAD	MM36J1	MHLSVJF
MJ17	MJHBOSS	MM14A	MADLB	MM36J2	MHLSVKF
MJ18	MJHSECT	MM14B	MADLBD	MM36L	MHLSVLF
MJ19	MJHMNGR	MM15A	MADLC	MM36M	MHLSVMF
MJ20	MJHSTAT	MM15B	MADLCD	MM37	MHLCK
MJ21	MJHPLDF	MM16A	MADLD	MM38A	MHLCKA
MJ22	MJHSIC92	MM16B	MADLDD	MM38B	MHLCKB
MJ23	MJHSIZE	MM17A	MADLE	MM38C	MHLCKC
MJ24	MJHPAYL	MM17B	MADLED	MM38D	MHLCKD
MJ25OC	MJHPYLW	MM18A	MADLF	MM38E	MHLCKE
MJ26	MJHPYLG	MM18B	MADLFD	MM38F	MHLCKI
MJ27	MJHSTPY	MM21	MHL2GP	MM38G	MHLCKF
MJ28	MJBLKY	MM22	MHL2HOP	MM38H	MHLCKG

MM38I	MHLCKH	MS1A	MGHQA	MV13	MSWPOP1
MM39A	MHLCKAN	MS1B	MGHQB	MV14	MSWPOP2
MM39B	MHLCKBN	MS1C	MGHQC	MV15	MSWPOP3
MM39C	MHLCKCN	MS1D	MGHQD	MV16	MSWPOP4
MM39D	MHLCKDN	MS1E	MGHQE	MV18	MOPDEV2
MM39E	MHLCKEN	MS1F	MGHQF	MV19	MORGM
MM39F	MHLCKIN	MS1G	MGHQG	MV20A	MORGMMA
MM39G	MHLCKFN	MS1H	MGHQH	MV20B	MORGMMA
MM39H	MHLCKGN	MS1I	MGHQI	MV20C	MORGMMA
MM39I	MHLCKHN	MS1J	MGHQJ	MV20D	MORGMMA
MM40	MSMOKER	MS1K	MGHQK	MV20E	MORGMMA
MM41	MNCIGS	MS1L	MGHQL	MV20F	MORGMMA
MM43	MAIDHH	MS2A	MOPFAMA	MV20G	MORGMMA
MM44P1	MAIDHUA	MS2B	MOPFAMB	MV20H	MORGMMA
MM44P2	MAIDHUB	MS2C	MOPFAMC	MV20I	MORGMMA
MM44P3	MAIDHUC	MS2D	MOPFAMD	MV20J	MORGMMA
MM45	MAIDXHH	MS2E	MOPFAME	MV20K	MORGMMA
MM46	MNAIDXHH	MS2F	MOPFAMF	MV20L	MORGMMA
MM47M1	MAIDHU1	MS2G	MOPFAMG	MV20M	MORGMMA
MM47M2	MAIDHU2	MS2H	MOPFAMH	MV20N	MORGMMA
MM49	MAIDHRS	MS2I	MOPFAMI	MV20O	MORGMMA
MM50A	MIVMA	MS3A	MLFSAT1	MV20P	MORGMMA
MM50B	MIVMB	MS3B	MLFSAT2	MV21	MORGA
MM50C	MIVMC	MS3C	MLFSAT3	MV21A	MORGAA
MM50D	MIVMD	MS3D	MLFSAT4	MV21B	MORGAB
MM50E	MIVME	MS3E	MLFSAT5	MV21C	MORGAC
MNF3	MNIPENS	MS3F	MLFSAT6	MV21D	MORGAD
MNF4	MNISERPS	MS3G	MLFSAT7	MV21E	MORGAE
MP2B	MPPRRS2I	MS3H	MLFSAT8	MV21F	MORGAF
MP2C	MPPRIPN	MS4A	MLFSATO	MV21G	MORGAG
MP2D	MPPRWYH	MS4B	MLFSATL	MV21H	MORGAP
MP3	MPPLEVR	MS5A	MXSUPA	MV21I	MORGAQ
MP10M	MPRESBGM	MS5B	MXSUPB	MV21J	MORGAO
MP10Y	MPRESBY4	MS5C	MXSUPC	MV21K	MORGAH
MP11	MPRESLY	MS6A	MSSUPA	MV21L	MORGAI
MP23	MPPRFHQ	MS6B	MSSUPB	MV21M	MORGAI
MP25	MPPRSEHQ	MS6C	MSSUPC	MV21N	MORGAK
MP27	MHLDSBL	MS6D	MSSUPD	MV21O	MORGAL
MP58	MPPRJFT	MS6E	MSSUPE	MV21P	MORGAM
MP59M	MPPRJBBGM	MS7A	MSSUP1	MV22	MFRNA
MP59Y	MPPRJBBY4	MS7B	MSSUPR2R	MV23	MFRNB
MP60	MPPRJBL	MT2B	MTELWHY	MV24	MFRNC
MP61	MPPREARN	MT45	MTLFIYRL	MV25	MTRUST
MP70A	MPPRF101	MT50	MTLFIYR	MV26A	MLFIMPA
MP70B	MPPRF102	MV1A	MOPPOLA	MV26B	MLFIMPB
MP70C	MPPRF116	MV1B	MOPPOLB	MV26C	MLFIMPC
MP70D	MPPRF131	MV1C	MOPPOLC	MV26D	MLFIMPD
MP70F	MPPRF135	MV1D	MOPPOLD	MV26E	MLFIMPE
MP70G	MPPRF137	MV2	MVOTE1	MV26F	MLFIMPF
MP70H	MPPRF139	MV3	MVOTE2	MV26G	MLFIMPG
MP70J	MPPRF141	MV4	MVOTE3	MV26H	MLFIMPH
MP70K	MPPRF143	MV5	MVOTE4	MV27A	MLOCSERA
MP70NONE	MPPRF1RN	MV6	MVOTE5	MV27B	MLOCSERB
MP71	MPPRFITB	MV7	MVOTE7	MV27C	MLOCSERC
MPI1A	MIVPA	MV8	MVOTE8	MV27D	MLOCSERD
MPI1B	MIVPB	MV9	MVOTE6	MV27E	MLOCSERE
MPI1C	MIVPC	MV10	MSWVT1	MV28	MLOCCHD
MPI1D	MIVPD	MV11	MSWVT2	MV29A	MOPNGBHA
MPI1E	MIVPE	MV12	MSWVT3	MV29B	MOPNGBHB

MV29C	MOPNGBHC	MY1	MYTVHRS	MY53	MYPPAY
MV29D	MOPNGBHD	MY2	MYTVSTP	MY54A	MYPWKM
MV29E	MOPNGBHE	MY3A	MYPACTA	MY54B	MYPWKT
MV29F	MOPNGBHF	MY3B	MYPACTB	MY54C	MYPWKW
MV29G	MOPNGBHG	MY3C	MYPACTC	MY54D	MYPWKTH
MV29H	MOPNGBHH	MY3D	MYPACTD	MY54E	MYPWKF
MV30A	MHHCH16	MY3E	MYPACTE	MY54F	MYPWKSA
MV32	MSCPNO	MY3F	MYPACTM	MY54G	MYPWKSU
MV33	MSCAGE	MY3G	MYPACTN	MY55	MYPLVHM
MV34	MSCSEX	MY3H	MYPACTL	MY56	MYP2UNI
MV35	MSCAGE4	MY4	MYPCHOR	MY57M1	MYPNUNA
MV36	MSCTYP	MY5	MYPCOMP	MY57M2	MYPNUNB
MV37M	MSCHBGM	MY6	MYPCHW	MY58A	MYPJBQA
MV37Y	MSCHBGY	MY7	MYPCCG	MY58B	MYPJBQD
MV38	MSCHSTA	MY8	MYPCCNT	MY58C	MYPJBQB
MV39	MSCHSAT	MY9	MYPMOBU	MY58D	MYPJBQF
MV40	MSCHHW	MY10	MYPALS	MY58E	MYPJBQG
MV41	MSCACVS	MY11	MYPALO	MY58F	MYPJBQH
MV42	MSCACH	MY12	MYPALTE	MY59A	MYPFUTA
MV43	MSCAG11	MY13	MYPARGM	MY59B	MYPFUTB
MV44	MSCTUT	MY14	MYPARGF	ND0AD	ND0ID
MV45	MSCTUTO	MY15	MYPTLKM	ND0AM	ND0IM
MV45	MSCTUTE	MY16	MYPTLKF	ND0AY	ND0IY4
MV45	MSCTUTM	MY17	MYPNPAL	ND0BA	NIVLYR
MV45	MSCTUTS	MY18	MYPFGHT	ND0BB	NIVSTAT2
MV45	MSCTUTL	MY19	MYPEATN	ND1H	NIVSOIH
MV45	MSCTUTH	MY20	MYPSEMEV	ND1M	NIVSOIM
MV46A	MSC2UNI	MY21	MYPSEMOF	ND2	NLKNBRD
MV46B	MSCLUNI	MY22	MYPSEMLW	ND3	NLKMVE
MV47	MSCARG	MY23	MYPDGFR	ND4	NLKMVEY
MV48	MSCTALK	MY24	MYPESTA	ND5	NXPMOVE
MV49	MSCPRAZ	MY25	MYPESTI	ND6	NPLNEW
MV50	MSCSMAK	MY26	MYPESTB	ND7M	NPLNOWM
MV51	MSCCUDL	MY27	MYPESTJ	ND7Y	NPLNOWY4
MV52	MSCYELL	MY28	MYPESTC	ND8	NMOVJB
MV53	MSCHOSA	MY29	MYPESTK	ND9A	NMOVJBA
MV54M1	MSCHOS2	MY30	MYPESTE	ND9B	NMOVJBB
MV54M1	MSCHOS1	MY31	MYPESTF	ND9C	NMOVJBC
MV55	MHSCIMP	MY32	MYPTCHA	ND9D	NMOVJBD
MV56	MPLYKID	MY33	MYPTCHB	ND9E	NMOVJBE
MV57	MLEIKID	MY34	MYPHSW	ND9F	NMOVJBF
MV58	MKIDOPA	MY35	MYPHAP	ND9G	NMOVJBG
MV59	MKIDSEE	MY36	MYPHFM	ND9H	NMOVJBH
MV60	MKIDWE	MY37	MYPHFR	ND9I	NMOVJBI
MV61	MKIDHOL	MY38	MYPHSC	ND10M1	NMOVY1
MV61A	MKIDFAR	MY39	MYPHLF	ND10M2	NMOVY2
MV62	MKIDREL	MY40	MYPVTE6	ND11M	NDOBM
MV63	MOHCH16	MY41	MYPVTE3	ND11Y	NDOBY
MV64	MSEEKID	MY42	MYPVT11	ND12	NSEX
MV65	MWEKID	MY43	MYPTRUN	ND12	NSEX
MV66	MHOLKID	MY44	MYPBULL	ND14	NMLSTAT
MV66A	MFARKID	MY45	MYPPOSC	ND15	NMLCHNG
MV67	MRELKID	MY46	MYPVSC	ND16M	NMLCHM
MV68A	MIVVA	MY47	MYPACVS	ND16Y	NMLCHY4
MV68B	MIVVB	MY49	MYPPOC	ND17	NJBSTAT
MV68C	MIVVC	MY50	MYPWKLW	ND18	NEDLYR
MV68D	MIVVD	MY51M1	MYPPOC1	ND18	NLCOH
MV68E	MIVVE	MY51M2	MYPPOC2	ND19	NEDTYPE2
MVN17	MNIPOP5	MY52	MYPWHRS	ND19	NEDTYPE1

ND19	NEDTYPE3	ND25F2	NEDQLF2	ND32M1	NCITZN1
ND20	NEDBLYR1	ND25F3	NEDQLF3	ND32M2	NCITZN2
ND20	NEDBLYR2	ND25G1	NEDQLG1	ND33	NRACEL
ND20	NEDBLYR3	ND25G2	NEDQLG2	ND34	NJBSTAT
ND21M	NEDBGM1	ND25G3	NEDQLG3	ND36	NPASOC
ND21M2	NEDBGM2	ND25H1	NEDQLH1	ND36	NPASOC00
ND21M3	NEDBGM3	ND25H2	NEDQLH2	ND36ANA	NPAJU
ND21Y	NEDBGY1	ND25H3	NEDQLH3	ND37	NPASEMP
ND21Y2	NEDBGY2	ND25I1	NEDQLI1	ND38	NPABOSS
ND21Y3	NEDBGY3	ND25I2	NEDQLI2	ND39	NPAMNGR
ND22	NEDENNE1	ND25I3	NEDQLI3	ND40	NMAJU
ND22M	NEDENM1	ND25J1	NEDQLJ1	ND40	NMASOC
ND22M2	NEDENM2	ND25J2	NEDQLJ2	ND40	NMASOC00
ND22M3	NEDENM3	ND25J3	NEDQLJ3	ND41	NMASEMP
ND22NE2	NEDENNE2	ND25NA	NEDQNN2	ND42	NMABOSS
ND22NE3	NEDENNE3	ND25NA	NEDQNN3	ND43	NMAMNGR
ND22Y	NEDENY1	ND25NONE	NEDQNN1	ND44	NJ1SOC
ND22Y2	NEDENY2	ND26A1	NEDQLAN1	ND44	NJ1SOC00
ND22Y3	NEDENY3	ND26A2	NEDQLAN2	ND44NA	NJ1NONE
ND23A	NEDFEEA1	ND26A3	NEDQLAN3	ND45	NJ1SEMP
ND23A2	NEDFEEA2	ND26B1	NEDQLBN1	ND46	NJ1BOSS
ND23A3	NEDFEEA3	ND26B2	NEDQLBN2	ND47	NJ1MNGR
ND23B	NEDFEEB1	ND26B3	NEDQLBN3	ND48	NLCOH
ND23B2	NEDFEEB2	ND26C1	NEDQLCN1	ND49M	NCOH1BM
ND23B3	NEDFEEB3	ND26C2	NEDQLCN2	ND49Y	NCOH1BY
ND23C	NEDFEEC1	ND26C3	NEDQLCN3	ND50	NCOH1MR
ND23C2	NEDFEEC2	ND26D1	NEDQLDN1	ND51M	NCOH1EM
ND23C3	NEDFEEC3	ND26D2	NEDQLDN2	ND51Y	NCOH1EY
ND23D	NEDFEED1	ND26D3	NEDQLDN3	ND52	NNMAR
ND23D2	NEDFEED2	ND26E1	NEDQLEN1	ND53M	NLMAR1M
ND23D3	NEDFEED3	ND26E2	NEDQLEN2	ND53Y	NLMAR1Y
ND23E	NEDFEEE1	ND26E3	NEDQLEN3	ND54	NLPRNT
ND23E2	NEDFEEE2	ND26F1	NEDQLFN1	ND55	NLNPRNT
ND23E3	NEDFEEE3	ND26F2	NEDQLFN2	ND56M	NCH1BM
ND23F	NEDFEEF1	ND26F3	NEDQLFN3	ND56Y	NCH1BY
ND23F2	NEDFEEF2	ND26G1	NEDQLGN1	ND57	NSCEND
ND23F3	NEDFEEF3	ND26G2	NEDQLGN2	ND57NA	NSCHOOL
ND23G	NEDFEEG1	ND26G3	NEDQLGN3	ND58	NSCTYPE
ND23G2	NEDFEEG2	ND26H1	NEDQLHN1	ND59	NSCNOW
ND23G3	NEDFEEG3	ND26H2	NEDQLHN2	ND60	NFETYPE
ND24	NEDQUAL1	ND26H3	NEDQLHN3	ND61	NFEEND
ND24	NEDQUAL2	ND26I1	NEDQLIN1	ND61NA	NFENOW
ND24	NEDQUAL3	ND26I2	NEDQLIN2	ND62	NQFHAS
ND25A1	NEDQLA1	ND26I3	NEDQLIN3	ND63A	NQFA
ND25A2	NEDQLA2	ND26J1	NEDQLJN1	ND63B	NQFB
ND25A3	NEDQLA3	ND26J2	NEDQLJN2	ND63C	NQFC
ND25B1	NEDQLB1	ND26J3	NEDQLJN3	ND63D	NQFD
ND25B2	NEDQLB2	ND27	NEDOQL1	ND63E	NQFE
ND25B3	NEDQLB3	ND27	NEDOQL2	ND63F	NQFF
ND25C1	NEDQLC1	ND27	NEDOQL3	ND63G	NQFG
ND25C2	NEDQLC2	ND27NONE	NEDOQLN1	ND63H	NQFH
ND25C3	NEDQLC3	ND27NONE	NEDOQLN2	ND63I	NQFI
ND25D1	NEDQLD1	ND27NONE	NEDOQLN3	ND63J	NQFJ
ND25D2	NEDQLD2	ND28	NEDMORE1	ND63K	NQFK
ND25D3	NEDQLD3	ND28	NEDMORE2	ND63L	NQFL
ND25E1	NEDQLE1	ND29DST	NPLBORND	ND63M	NQFM
ND25E2	NEDQLE2	ND29OS	NPLBORNC	ND63N	NQFN
ND25E3	NEDQLE3	ND30	NYR2UK4	ND64	NQFED
ND25F1	NEDQLF1	ND31	NMLSTAT	ND65A	NQFEDA

ND65B	NQFEDB	ND70E2	NTRWHYE2	ND75J1	NTRQLJ1
ND65C	NQFEDC	ND70E3	NTRWHYE3	ND75J2	NTRQLJ2
ND65D	NQFEDD	ND71	NTRQ1	ND75J3	NTRQLJ3
ND65E	NQFEDE	ND71	NTRQ2	ND75NONE	NTRQLNN1
ND65F	NQFEDF	ND71	NTRQ3	ND75NONE	NTRQLNN2
ND65G	NQFEDG	ND71	NTRU1	ND75NONE	NTRQLNN3
ND65H	NQFEDH	ND71	NTRU2	ND76AN1	NTRQLAN1
ND65I	NQFEDI	ND71	NTRU3	ND76AN2	NTRQLAN2
ND65J	NQFEDJ	ND72A1	NTRFEEA1	ND76AN3	NTRQLAN3
ND65K	NQFEDK	ND72A2	NTRFEEA2	ND76BN1	NTRQLBN1
ND65L	NQFEDL	ND72A3	NTRFEEA3	ND76BN2	NTRQLBN2
ND65M	NQFEDM	ND72B1	NTRFEEB1	ND76BN3	NTRQLBN3
ND65N	NQFEDN	ND72B2	NTRFEEB2	ND76CN1	NTRQLCN1
ND65O	NQFEDO	ND72B3	NTRFEEB3	ND76CN2	NTRQLCN2
ND65P	NQFEDP	ND72C1	NTRFEEC1	ND76CN3	NTRQLCN3
ND65Q	NQFEDQ	ND72C2	NTRFEEC2	ND76DN1	NTRQLDN1
ND65R	NQFEDR	ND72C3	NTRFEEC3	ND76DN2	NTRQLDN2
ND65S	NQFEDS	ND72E1	NTRFEEE1	ND76DN3	NTRQLDN3
ND65T	NQFEDT	ND72E2	NTRFEEE2	ND76EN1	NTRQLEN1
ND65U	NQFEDU	ND72E3	NTRFEEE3	ND76EN2	NTRQLEN2
ND66A	NNQFEDA	ND72F1	NTRFEEF1	ND76EN3	NTRQLEN3
ND66B	NNQFEDB	ND72F2	NTRFEEF2	ND76FN1	NTRQLFN1
ND66C	NNQFEDC	ND72F3	NTRFEEF3	ND76FN2	NTRQLFN2
ND66D	NNQFEDD	ND72G1	NTRFEEG1	ND76FN3	NTRQLFN3
ND66E	NNQFEDE	ND72G2	NTRFEEG2	ND76GN1	NTRQLGN1
ND66F	NNQFEDF	ND72G3	NTRFEEG3	ND76GN2	NTRQLGN2
ND66G	NNQFEDG	ND73	NTRQLXP1	ND76GN3	NTRQLGN3
ND66H	NNQFEDH	ND73	NTRQLXP2	ND76HN1	NTRQLHN1
ND66I	NNQFEDI	ND73	NTRQLXP3	ND76HN2	NTRQLHN2
ND66J	NNQFEDJ	ND74	NTRQLAC1	ND76HN3	NTRQLHN3
ND66K	NNQFEDK	ND74	NTRQLAC2	ND76IN1	NTRQLIN1
ND66L	NNQFEDL	ND74	NTRQLAC3	ND76IN2	NTRQLIN2
ND66M	NNQFEDM	ND75A1	NTRQLA1	ND76IN3	NTRQLIN3
ND66N	NNQFEDN	ND75A2	NTRQLA2	ND76JN1	NTRQLJN1
ND66O	NNQFEDO	ND75A3	NTRQLA3	ND76JN2	NTRQLJN2
ND66P	NNQFEDP	ND75B1	NTRQLB1	ND76JN3	NTRQLJN3
ND66Q	NNQFEDQ	ND75B2	NTRQLB2	ND77	NTROQL1
ND66R	NNQFEDR	ND75B3	NTRQLB3	ND77	NTROQL2
ND66S	NNQFEDS	ND75C1	NTRQLC1	ND77	NTROQL3
ND66T	NNQFEDT	ND75C2	NTRQLC2	ND77NO	NTROQLN3
ND66U	NNQFEDU	ND75C3	NTRQLC3	ND77NONE	NTROQLN1
ND67	NTRAIN	ND75D1	NTRQLD1	ND77NONE	NTROQLN2
ND68	NNTRAIN	ND75D2	NTRQLD2	ND78	NTRMORE1
ND69	NTRPLCE1	ND75D3	NTRQLD3	ND78	NTRMORE2
ND69	NTRPLCE2	ND75E1	NTRQLE1	ND79	NPAPER
ND69	NTRPLCE3	ND75E2	NTRQLE2	ND80	NPAPERM
ND70A1	NTRWHYA1	ND75E3	NTRQLE3	ND81	NPAPERP
ND70A2	NTRWHYA2	ND75F1	NTRQLF1	ND82A	NBIRHH
ND70A3	NTRWHYA3	ND75F2	NTRQLF2	ND82B	NMABWLY
ND70B1	NTRWHYB1	ND75F3	NTRQLF3	ND83	NMABWNLY
ND70B2	NTRWHYB2	ND75G1	NTRQLG1	ND84AGM1	NBWTAGM1
ND70B3	NTRWHYB3	ND75G2	NTRQLG2	ND84AGM2	NBWTAGM2
ND70C1	NTRWHYC1	ND75G3	NTRQLG3	ND84AGM3	NBWTAGM3
ND70C2	NTRWHYC2	ND75H1	NTRQLH1	ND84PN1	NBWTPN1
ND70C3	NTRWHYC3	ND75H2	NTRQLH2	ND84PN2	NBWTPN2
ND70D1	NTRWHYD1	ND75H3	NTRQLH3	ND84PN3	NBWTPN3
ND70D2	NTRWHYD2	ND75I1	NTRQLI1	ND85	NBWTXP1
ND70D3	NTRWHYD3	ND75I2	NTRQLI2	ND85	NBWTXP2
ND70E1	NTRWHYE1	ND75I3	NTRQLI3	ND85	NBWTXP3

ND86	NBWTEL1	NE13	NJBOTPD	NE52D	NJBBGD
ND86	NBWTEL2	NE14	NJBHRLK	NE52M	NJBBGM
ND86	NBWTEL3	NE15	NJBPL	NE52Y	NJBBGY4
ND87	NBWTWK1	NE16	NJBTTWT	NE53	NJBBGLY
ND87	NBWTWK2	NE17	NJBTTWM	NE54	NPAYS
ND87	NBWTWK3	NE18B	NJBSAT2	NE55OC	NPAYSW
ND88	NBWTKN1	NE18D	NJBSAT4	NE56	NPAYSG
ND88	NBWTKN2	NE18F	NJBSAT6	NE57D	NJBBGD
ND88	NBWTKN3	NE18G	NJBSAT7	NE57M	NJBBGM
ND89LB1	NBWTLB1	NE19	NJBSAT	NE57Y	NJBBGY4
ND89LB2	NBWTLB2	NE20	NPAYGL	NE58	NJBBGLY
ND89LB3	NBWTLB3	NE21OC	NPAYGW	NE59	NPAYLY
ND89OZ1	NBWTOZ1	NE22	NPAYNL	NE60OC	NPAYLYW
ND89OZ2	NBWTOZ2	NE23A	NPYTC	NE61	NPAYLYG
ND89OZ3	NBWTOZ3	NE23B	NPYWFTC	NE62	NPAYS
ND90	NBWTGM1	NE23C	NPYWFTCW	NE63OC	NPAYSW
ND90	NBWTGM2	NE23OC	NPAYNW	NE64	NPAYSG
ND90	NBWTGM3	NE24	NPAYSLP	NE74	NJSBOSS
ND91	NBWTG51	NE26	NPAYUSL	NE75	NJSSIZE
ND91	NBWTG52	NE27	NPAYU	NE76	NJSHRS
ND91	NBWTG53	NE28OC	NPAYUW	NE77	NJSHRLK
ND93A	NWLSHA	NE29	NPAYUG	NE78	NJSTYPEB
ND93B	NWLSHB	NE30A	NPAYDF1	NE79	NJSACCS
ND93C	NWLSHC	NE30B	NPAYDF2	NE80	NJSPART
ND93D	NWLSHD	NE30C	NPAYDF3	NE81BM	NJSPRBM
ND93E	NWLSHE	NE30D	NPAYDF4	NE81BY	NJSPRBY4
ND94A	NWLSHUA	NE30E	NPAYDF5	NE81EM	NJSPREM
ND94B	NWLSHUB	NE30F	NPAYDF6	NE81EY	NJSPREY4
ND94C	NWLSHUC	NE30G	NPAYDF7	NE82	NJSPRF
ND94D	NWLSHUD	NE30H	NPAYDF9	NE83	NJSPRLS
ND94E	NWLSHUE	NE30I	NPAYDF8	NE84	NJSPRTX
ND95	NAGLT20	NE31	NPAYTYP	NE85	NJSPRNI
ND96	NSCNOW2	NE32	NOVTPAY	NE86BM	NJSPRBM
ND97	NINFTED	NE33	NEXTRATE	NE86BY	NJSPRBY4
ND98	NEDASP	NE33	NEXTREST	NE86EM	NJSPREM
ND99	NFEDASP	NE34	NBASRATE	NE86EY	NJSPREY4
ND99A	NFEDTYP	NE34	NBASREST	NE87	NJSPRF
ND100	NFEDLIK	NE35	NOVTRATE	NE88	NJSPRLS
ND101M1	NFEDNT1	NE35	NOVTREST	NE89	NJSPRTX
ND101M2	NFEDNT2	NE39	NJBPERFP	NE90	NJSPRNI
ND102	NOCFUT	NE40	NJBONUS	NE91	NJSPAYU
ND105A	NIVDA	NE41	NJBONAM	NE92	NJSPAYW
ND105B	NIVDB	NE42	NJBONG	NE93	NJSPYTX
ND105C	NIVDC	NE43	NJBRISE	NE94	NJSPYNI
ND105D	NIVDD	NE44	NTUJBPL	NE95	NJSPL
ND105E	NIVDE	NE45	NTUIN1	NE96	NJSTTWT
NE1	NJBHAS	NE46	NJBOPPS	NE97	NJSTTWM
NE2	NJB OFF	NE47	NJB PEN	NE98A	NJSSAT1
NE3	NJB OFFY	NE48	NJB PENM	NE98B	NJSSAT2
NE4	NJB TERM1	NE49	NJB TIME	NE98D	NJSSAT4
NE5	NJB SOC	NE4A	NJB TERM2	NE98E	NJSSAT5
NE5	NJB SOC00	NE50A	NJB WKHRA	NE99	NJSSAT
NE6	NJB SIC92	NE50A	NJB WKHRB	NE100D	NJSBGD
NE7	NJB SEMP	NE50A	NJB WKHRC	NE100M	NJSBGM
NE8	NJB MNGR	NE50A	NJB WKHRD	NE100Y	NJSBGY4
NE9	NJB SECT	NE50A	NJB WKHRE	NE101A	NJBLKCHA
NE10	NJB SIZE	NE50A	NJB WKHRF	NE101B	NJBLKCHB
NE11	NJB HRS	NE50A	NJB WKHRG	NE101C	NJBLKCHC
NE12	NJBOT	NE50A	NJB WKHRH	NE101D	NJBLKCHD

NE101E	NJBLKCHE	NEG7	NIVSTAT1	NF13	NSAVLT
NE102A	NJBXPCHA	NEG8	NIVELIG	NF14	NPPPEN
NE102B	NJBXPCHB	NEG9	NHHMEM	NF15	NPENB4
NE102C	NJBXPCHC	NEG10	NNEWHY	NF16	NPENB4Y4
NE102D	NJBXPCHD	NEG11	NLVWHY	NF17	NPENB4V
NE102E	NJBXPCHE	NEG12M	NLVMN	NF18	NPENB4W
NE103A	NJBSTRNA	NEG12M	NNEMNJJN	NF19	NPENYR4
NE103B	NJBSTRNB	NEG12Y	NLVYR4	NF20	NPENADD
NE103C	NJBSTRNC	NEG12Y	NNEYRJN4	NF21	NPENADV
NE103D	NJBSTRND	NEG13	NLVLOC	NF22	NPENADW
NE104	NRACH12	NEG14	NIVFIO	NF37	NWINDF
NE105M1	NJBCHC1	NEG16	NIVRREF	NF38A	NWINDFA
NE105M2	NJBCHC2	NEG17	NIVIREIS	NF38B	NWINDFB
NE105M3	NJBCHC3	NEG18	NIVFIO	NF38C	NWINDFC
NE107	NXPCHCF	NF2	NNF1	NF38D	NWINDFD
NE108	NXPCHC	NF3A	NFICODE	NF38F	NWINDFF
NE109	NHUXPCH	NF3B01	NFR01	NF38G	NWINDFG
NE110	NHUNURS	NF3B02	NFR02	NF38H	NWINDFH
NE111	NJULK1	NF3B03	NFR03	NF39A	NWINDFAY
NE112	NJULK4	NF3B04	NFR04	NF39B	NWINDFBY
NE113A	NJULKA	NF3B05	NFR05	NF39C	NWINDFCY
NE113B	NJULKB	NF3B06	NFR06	NF39D	NWINDFDY
NE113C	NJULKC	NF3B07	NFR07	NF39F	NWINDFFY
NE113D	NJULKD	NF3B08	NFR08	NF39G	NWINDFGY
NE113E	NJULKE	NF3B09	NFR09	NF39H	NWINDFHY
NE114	NJULKJB	NF3B10	NFR10	NF40A	NXPMEAL
NE115	NJUBGN	NF3B11	NFR11	NF40B	NXPLEIS
NE116	NJUSPEC	NF3B12	NFR12	NF41	NFTEXHH
NE117	NJUSOC	NF3B13	NFR13	NF42A	NFTEXA
NE117	NJUSOC00	NF3B14	NFR14	NF42B	NFTEXB
NE118	NJUHRXS	NF3B15	NFR15	NF42C	NFTEXC
NE119	NJUPAYX	NF3B16	NFR16	NF43A1	NFTEXA1
NE120	NJUPAYL	NF3B17	NFR17	NF43A2	NFTEXA2
NE121	NJUHRSL	NF3B18	NFR18	NF43A3	NFTEXA3
NE124	NEPROSH	NF3B19	NFR19	NF43A4	NFTEXA4
NE125	NJBASP1	NF3B20	NFR20	NF43A5	NFTEXA5
NE126	NJBASP2	NF3BAL	NFRALL	NF43A6	NFTEXA6
NE127	NJBLKY1	NF3C	NFRNOW	NF43B1	NFTEXB1
NE128	NJBLKY2	NF3D	NFRVAL	NF43B2	NFTEXB2
NE129	NEAAGE	NF3EOC	NFRW	NF43B3	NFTEXB3
NE130	NJBUB	NF3F	NFRJT	NF43B4	NFTEXB4
NE131	NJBUBY	NF3FPN	NFRJTPN	NF43B5	NFTEXB5
NE132	NJ2HAS	NF3SEQ	NFISEQ	NF43B6	NFTEXB6
NE133	NJ2SOC	NF4	NFISIT	NF43C1	NFTEXC1
NE133	NJ2SOC00	NF5	NFISITC	NF43C2	NFTEXC2
NE134	NJ2SEMP	NF6	NFISITY	NF43C3	NFTEXC3
NE135	NJ2HRS	NF7	NFISITX	NF43C4	NFTEXC4
NE136	NJ2PAY	NF8	NFIYRDIA	NF43C5	NFTEXC5
NE137A	NIVEA	NF9A	NFIYRDB1	NF43C6	NFTEXC6
NE137B	NIVEB	NF9B	NFIYRDB2	NF44A	NFTEXAV
NE137C	NIVEC	NF9C	NFIYRDB3	NF44B	NFTEXBV
NE137D	NIVED	NF9D	NFIYRDB4	NF44C	NFTEXCV
NE137E	NIVEE	NF9E	NFIYRDB5	NF45A	NFTEXAW
NEG3	PID	NF9F	NFIYRDB6	NF45B	NFTEXBW
NEG4	NHGSEX	NF10	NSAVE	NF45C	NFTEXCW
NEG5M	NHGBM	NF11	NSAVED	NF46	NSPINHH
NEG5Y	NHGBY	NF11AM1	NSAVEY1	NF47A	NHUBUYS
NEG6	NIVIOLW	NF11AM2	NSAVEY2	NF47B	NHUFRRYS
NEG6	NIVLYR	NF12	NSAVREG	NF47C	NHUMOPS

NF47D	NHUIRON	NH0AM	NHHMOI	NH39	NXPHSDB
NF48	NHHCH12	NH0AY	NHHYOI4	NH40A	NHSBTH
NF49	NHUSITS	NH0BH	NHHSOIH	NH40A	NHSGDN
NF50	NHOWLNG	NH0BM	NHHSOIM	NH40A	NHSHKCH
NF51	NCARUSE	NH0C	NHSTYPE	NH40A	NHSTLT
NF52	NMOBUSE	NH1A	NHSRINS	NH40B	NHSBTHS
NF53M1	NEVENT1	NH2	NHSROOM	NH40B	NHSGDNS
NF53M1	NEVENT1S	NH3	NHSOWND	NH40B	NHSHKCHS
NF53M2	NEVENT2	NH4M1	NHSOWR1	NH40B	NHSTLTS
NF53M2	NEVENT2S	NH4M2	NHSOWR2	NH41A	NXPGASY
NF53M3	NEVENT3	NH5	NHSVAL	NH41B	NXPLECY
NF53M3	NEVENT3S	NH6	NMGHAVE	NH41C	NXPOILY
NF53M4	NEVENT4	NH7	NHSOWRP	NH41D	NXPSFLY
NF53M4	NEVENT4S	NH8	NMGYNOT	NH42	NHEATCH
NF64A	NIVFA	NH9	NHSCOST	NH43	NHEATYP
NF64B	NIVFB	NH10	NHSYR04	NH44A	NHSPRBG
NF64C	NIVFC	NH11	NHSCOST	NH44B	NHSPRBH
NF64D	NIVFD	NH12	NMGYR04	NH44C	NHSPRBI
NF64E	NIVFE	NH13	NMGLY	NH44D	NHSPRBJ
NF65H	NIVFOIH	NH14	NHSIVLW	NH44E	NHSPRBK
NF65M	NIVFOIM	NH15	NMGYR04	NH44F	NHSPRBL
NF66	NIVSC	NH16	NHSCOST	NH44G	NHSPRBM
NF70I	NPRF125	NH17	NMGOLD	NH44H	NHSPRBN
NF101	NF101	NH18	NMGLIFE	NH44I	NHSPRBO
NF102	NF102	NH19	NMGTYPE	NH44J	NHSPRBP
NF103	NF103	NH20	NMGXTRA	NH44K	NHSPRBQ
NF104	NF104	NH21	NMGNEW	NH45	NHSCTAX
NF105	NF105	NH22A	NMGXTY1	NH46	NHS2OWND
NF106	NF106	NH22B	NMGXTY2	NH47	NHS2VALO
NF107	NF107	NH22C	NMGXTY3	NH47A	NHS2VALA
NF116	NF116	NH22D	NMGXTY4	NH47B	NHS2VALB
NF118	NF118	NH22E	NMGXTY5	NH47C	NHS2VALC
NF119	NF119	NH23	NXPMG	NH47D	NHS2VALD
NF121	NF121	NH24A	NXPMG1	NH49	NMGTOT
NF122	NF122	NH24B	NXPMG2	NH50	NCDHAVE
NF125	NF125	NH24C	NXPMG3	NH51A	NCD1USE
NF126	NF126	NH24D	NXPMG4	NH51B	NCD2USE
NF127	NF127	NH25	NHSJB	NH51C	NCD10USE
NF128	NF128	NH26M1	NRENTP1	NH51D	NCD11USE
NF132	NF132	NH26M2	NRENTP2	NH51E	NCD3USE
NF135	NF135	NH27	NRENTLL	NH51F	NCD4USE
NF136	NF136	NH28	NRENTF	NH51G	NCD5USE
NF137	NF137	NH30	NRENT	NH51H	NCD6USE
NF138	NF138	NH31	NRENTW	NH51I	NCD7USE
NF139	NF139	NH32A	NRENT1	NH51J	NCD8USE
NF140	NF140	NH32B	NRENT7	NH51K	NCD9USE
NF141	NF141	NH32C	NRENT2	NH51L	NCD12USE
NF142	NF142	NH32D	NRENT3	NH52	NCDBGHT
NF143	NF143	NH32E	NRENT4	NH53A	NCD1NEW
NF151	NF151	NH32F	NRENT5	NH53B	NCD2NEW
NF152	NF152	NH32G	NRENT8	NH53C	NCD10NEW
NF153	NF153	NH32H	NRENT6	NH53D	NCD11NEW
NF154	NF154	NH33	NRENTHB	NH53E	NCD3NEW
NF155	NF155	NH34	NRENTG	NH53F	NCD4NEW
NF156	NF156	NH35	NRENTG	NH53G	NCD5NEW
NF157	NF157	NH36	NRENTGW	NH53H	NCD6NEW
NF158	NF158	NH37	NXPHSDF	NH53I	NCD7NEW
NF159	NF159	NH38A	NXPHSD1	NH53J	NCD8NEW
NH0AD	NHHDOI	NH38B	NXPHSD2	NH53K	NCD9NEW

NH53L	NCD12NEW	NI6B	NIV6B	NM3B	NHLPRBB
NH54A	NCD1CST	NI6C	NIV6C	NM3C	NHLPRBC
NH54B	NCD2CST	NI6D	NIV6D	NM3D	NHLPRBD
NH54C	NCD10CST	NI6E	NIV6E	NM3E	NHLPRBE
NH54D	NCD11CST	NI7	NIV6F	NM3F	NHLPRBF
NH54E	NCD3CST	NI8	NIV7	NM3G	NHLPRBG
NH54F	NCD4CST	NJ5D	NCJSBGD	NM3H	NHLPRBH
NH54G	NCD5CST	NJ5M	NCJSBGM	NM3I	NHLPRBI
NH54H	NCD6CST	NJ5Y	NCJSBGY4	NM3J	NHLPRBJ
NH54I	NCD7CST	NJ6	NNEMST	NM3K	NHLPRBK
NH54J	NCD8CST	NJ7D	NCJSBGD	NM3L	NHLPRBL
NH54K	NCD9CST	NJ7M	NCJSBGM	NM3M	NHLPRBM
NH54L	NCD12CST	NJ7Y	NCJSBGY4	NM3M0	NHLPRB
NH55	NPCNET	NJ8	NCJSBLY	NM3N	NHLPRBN
NH56	NXPHP	NJ9	NJHSTAT	NM4	NHLSF1
NH57	NXPHPDF	NJ10D	NJHBGD	NM5	NHLSF2
NH58A	NHSCANA	NJ10M	NJHBGM	NM6A	NHLSF3A
NH58B	NHSCANB	NJ10Y	NJHBGY4	NM6B	NHLSF3B
NH58C	NHSCANC	NJ12	NNJBS	NM6C	NHLSF3C
NH58D	NHSCAND	NJ13	NJHSTAT	NM6D	NHLSF3D
NH58E	NHSCANE	NJ13M	NJHBGM	NM6E	NHLSF3E
NH58F	NHSCANF	NJ13Y	NJHBGY4	NM6F	NHLSF3F
NH59A	NHSCNTA	NJ14	NJHSOC	NM6G	NHLSF3G
NH59B	NHSCNTB	NJ14	NJHSOC00	NM6H	NHLSF3H
NH59C	NHSCNTC	NJ15	NJHSTAT	NM6I	NHLSF3I
NH59D	NHSCNTD	NJ16	NJHSEMP	NM6J	NHLSF3J
NH59E	NHSCNTE	NJ17	NJHBOSS	NM7A	NHLSF4A
NH59F	NHSCNTF	NJ18	NJHSECT	NM7B	NHLSF4B
NH60	NXPFOOD	NJ19	NJHMNGR	NM7C	NHLSF4C
NH61	NNCARS	NJ20	NJHSTAT	NM7D	NHLSF4D
NH62	NCAROWN	NJ21	NJHPLDF	NM8A	NHLSF5A
NH63	NCARVAL	NJ22	NJHSIC92	NM8B	NHLSF5B
NH64M1	NIVH1	NJ23	NJHSIZE	NM8C	NHLSF5C
NH64M2	NIVH2	NJ24	NJHPAYL	NM9	NHLSF6
NH64M3	NIVH3	NJ25OC	NJHPYLW	NM10	NHLSF7
NH65H	NHHFOIH	NJ26	NJHPYLG	NM11	NHLSF8
NH65M	NHHFOIM	NJ27	NJHSTPY	NM12A	NHLSF9A
NHG2	NHGR2R	NJ28	NJBLKY	NM12B	NHLSF9B
NHG3	NHGSEX	NJ31	NJBHAD	NM12C	NHLSF9C
NHG4M	NHGBM	NJ32	NJLEND4	NM12D	NHLSF9D
NHG4Y	NHGBY	NJ33	NJLSOC	NM12E	NHLSF9E
NHG8	NMASTAT	NJ33	NJLSOC00	NM12F	NHLSF9F
NHG9	NHGSPN	NJ34	NJLSIC92	NM12G	NHLSF9G
NHG10	NHGEMP	NJ35	NJLSEMP	NM12H	NHLSF9H
NHG10	NHGEMP	NJ36	NJLBOSS	NM12I	NHLSF9I
NHG11	NHGFNO	NJ37	NJLMNGR	NM12J	NHLSF9J
NHG11	NHGFNO	NJ38	NJLSIZE	NM13A	NHLSF10A
NHG12	NHGMNO	NJ39A	NIVJA	NM13B	NHLSF10B
NHG12	NHGMNO	NJ39B	NIVJB	NM13C	NHLSF10C
NHG13	NHGRA	NJ39C	NIVJC	NM13D	NHLSF10D
NHG13	NHGRA	NJ39D	NIVJD	NM16	NHL2GP
NI1	NIV1	NJ39E	NIVJE	NM17	NHL2HOP
NI2	NIV2	NL2	NMLSTAT	NM18	NXDTS
NI4	NIV4	NL3	NNMAR	NM19	NNXDTS
NI5	NIV5	NL25	NLPRNT	NM20	NHOSP
NI5A	NIV5AA	NL26	NLNPRNT	NM21	NHOSPD
NI5B	NIV5AB	NM1	NHLDSBL1	NM23	NHOSPCCH
NI5C	NIV5AC	NM2	NHLSTAT	NM24	NHOSPNSHS
NI6A	NIV6A	NM3A	NHLPRBA	NM25	NHLCVR

NM26	NHLCVRH	NM34H	NHLCKGN	NP70NONE . . .	NPRFIRN
NM27	NHLCVRL	NM34I	NHLCKHN	NP71	NPRFITB
NM28	NHLSV	NM35	NSMOKER	NP1A	NIVPA
NM29A	NHLSVA	NM36	NSNCIGS	NP1B	NIVPB
NM29B	NHLSVB	NM37	NHLHTM	NP1C	NIVPC
NM29C	NHLSVC	NM37A1	NHLHTF	NP1D	NIVPD
NM29D	NHLSVD	NM37A2	NHLHTI	NP1E	NIVPE
NM29E	NHLSVE	NM37B	NHLHTC	NS1A	NGHQA
NM29F	NHLSVF	NM38	NHLWTM	NS1B	NGHQB
NM29G	NHLSVG	NM38A1	NHLWTS	NS1C	NGHQC
NM29H	NHLSVH	NM38A2	NHLWTP	NS1D	NGHQD
NM29I	NHLSVI	NM38B	NHLWTK	NS1E	NGHQE
NM29J1	NHLSVJ	NM39	NHLWTE	NS1F	NGHQF
NM29J2	NHLSVK	NM30	NHLPRBO	NS1G	NGHQG
NM29L	NHLSVL	NM40	NHLWTL	NS1H	NGHQH
NM29M	NHLSVM	NM41	NHLWTR	NS1I	NGHQI
NM30A	NHLSVAN	NM42	NCBAGEF	NS1J	NGHQJ
NM30B	NHLSVBN	NM43	NHLPREG	NS1K	NGHQK
NM30C	NHLSVCN	NM45	NAIDHH	NS1L	NGHQL
NM30D	NHLSVDN	NM46P1	NAIDHUA	NS2A	NOPFAMO
NM30E	NHLSVEN	NM46P2	NAIDHUB	NS2B	NOPFAML
NM30F	NHLSVFN	NM46P3	NAIDHUC	NS2C	NOPFAMP
NM30G	NHLSVGN	NM47	NAIDXHH	NS2D	NOPFAMQ
NM30H	NHLSVHN	NM48	NNAIDXHH	NS2E	NOPFAMK
NM30I	NHLSVIN	NM49M1	NAIDHU1	NS2F	NOPFAMR
NM30J1	NHLSVJN	NM49M2	NAIDHU2	NS3A	NLFSAT1
NM30J2	NHLSVKN	NM51	NAIDHRS	NS3B	NLFSAT2
NM30L	NHLSVLN	NM52A	NIVMA	NS3C	NLFSAT3
NM30M	NHLSVMN	NM52B	NIVMB	NS3D	NLFSAT4
NM31A	NHLSVAF	NM52C	NIVMC	NS3E	NLFSAT5
NM31B	NHLSVBF	NM52D	NIVMD	NS3F	NLFSAT6
NM31C	NHLSVCF	NM52E	NIVME	NS3G	NLFSAT7
NM31D	NHLSVDF	NNF3	NNIPENS	NS3H	NLFSAT8
NM31E	NHLSVEF	NNF4	NNISERPS	NS4A	NLFSATO
NM31F	NHLSVFF	NP2B	NPRRS2I	NS4B	NLFSATL
NM31G	NHLSVGF	NP2C	NPRIPN	NS5A	NNETSX1
NM31H	NHLSVHF	NP2D	NPRWHY	NS5A	NNETSX2
NM31I	NHLSVIF	NP3	NPPLEVR	NS5A	NNETSX3
NM31J1	NHLSVJF	NP10M	NPRESBGM	NS5B	NNET1RL
NM31J2	NHLSVKF	NP10Y	NPRESBY4	NS5B	NNET2RL
NM31L	NHLSVLF	NP11	NPRESLY	NS5B	NNET3RL
NM31M	NHLSVMF	NP23	NPRFEHQ	NS5BOC	NNET1WR
NM32	NHLCK	NP25	NPRSEHQ	NS5BOC	NNET2WR
NM33A	NHLCKA	NP27	NHLDSBL	NS5BOC	NNET3WR
NM33B	NHLCKB	NP58	NPRJBFT	NS5C	NNET1AG
NM33C	NHLCKC	NP59M	NPRJBBGM	NS5C	NNET2AG
NM33D	NHLCKD	NP59Y	NPRJBBY4	NS5C	NNET3AG
NM33E	NHLCKE	NP60	NPRJBLY	NS5D	NNET1KN
NM33F	NHLCKI	NP61	NPREARN	NS5D	NNET2KN
NM33G	NHLCKF	NP70A	NPRF101	NS5D	NNET3KN
NM33H	NHLCKG	NP70B	NPRF102	NS5E	NNET1PH
NM33I	NHLCKH	NP70C	NPRF116	NS5E	NNET2PH
NM34A	NHLCKAN	NP70D	NPRF131	NS5E	NNET3PH
NM34B	NHLCKBN	NP70F	NPRF135	NS5F	NNET1LV
NM34C	NHLCKCN	NP70G	NPRF137	NS5F	NNET2LV
NM34D	NHLCKDN	NP70H	NPRF139	NS5F	NNET3LV
NM34E	NHLCKEN	NP70J	NPRF141	NS5G	NNET1JB
NM34F	NHLCKIN	NP70K	NPRF143	NS5G	NNET2JB
NM34G	NHLCKFN	NP70L	NPRF107	NS5G	NNET3JB

NS5H	NNET1ET	NY15	NYPTLKF	NY65C	NYPWKW
NS5H	NNET2ET	NY16	NYPNPAL	NY65D	NYPWKTH
NS5H	NNET3ET	NY17	NYPFGHT	NY65E	NYPWKF
NS6A	NNETSOC	NY18	NYPEATN	NY65F	NYPWKSA
NT2B	NTELWHY	NY19	NYPSMEV	NY65G	NYPWKSU
NT45	NTLFIYRL	NY20	NYPSMOF	NY66	NYPLVHM
NT50	NTLFIYR	NY21	NYPSMLW	NY67	NYP2UNI
NV1A	NOPSOCA	NY22	NYPDGFR	NY68M1	NYPNUNA
NV1B	NOPSOCB	NY23	NYPHSTAT	NY68M2	NYPNUNB
NV1C	NOPSOCC	NY24A	NYPOPHE	NY69M1	NYPEVNT1
NV1D	NOPSOCD	NY24B	NYPOPHC	NY69M2	NYPEVNT2
NV1E	NOPSOCE	NY25	NYPHFI		
NV1F	NOPSOCF	NY25	NYPHTC		
NV2	NVOTE1	NY25	NYPHTF		
NV3	NVOTE2	NY26	NYPWTK		
NV4	NVOTE3	NY26	NYPWTP		
NV5	NVOTE4	NY26	NYPWTS		
NV6	NVOTE5	NY27	NYPWGHR		
NV7	NVOTE7	NY28	NYPDIET		
NV8	NVOTE8	NY29	NYPSVRT		
NV9	NVOTE6	NY30M1	NYPSVRT1		
NV9A	NNIVT1	NY30M2	NYPSVRT2		
NV9B	NNIVT2	NY31M1	NYPNSPT1		
NV10A	NLACTA	NY31M2	NYPNSPT2		
NV10B	NLACTB	NY32	NYPFRUT		
NV10C	NLACTC	NY33	NYPFFD		
NV10D	NLACTD	NY34	NYPJFD		
NV10E	NLACTE	NY35	NYPTTSM		
NV10F	NLACTF	NY36	NYPESTA		
NV10H	NLACTH	NY37	NYPESTI		
NV10I	NLACTI	NY38	NYPESTB		
NV10J	NLACTJ	NY39	NYPESTJ		
NV10K	NLACTK	NY40	NYPESTC		
NV10L	NLACTL	NY41	NYPESTK		
NV11	NFRNA	NY42	NYPESTE		
NV12	NFRNB	NY43	NYPESTF		
NV13	NFRNC	NY44	NYPTCHA		
NV14	NOPRLG1	NY45	NYPTCHB		
NV15	NOPRLG2	NY46	NYPHSW		
NV16	NOPRLG3	NY47	NYPHAP		
NV17A	NIVVA	NY48	NYPHFM		
NV17B	NIVVB	NY49	NYPHFR		
NV17C	NIVVC	NY50	NYPHSC		
NV17D	NIVVD	NY51	NYPHLF		
NV17E	NIVVE	NY52	NYPVTE6		
NY1	NYTVHRS	NY53	NYPVTE3		
NY2	NYTVSTP	NY54	NYPTRUN		
NY3	NYPCOMP	NY55	NYPBULL		
NY4	NYPPCHW	NY56	NYPOPSC		
NY5	NYPPCG	NY57	NYPLVSC		
NY6	NYPPCNT	NY58	NYPACVS		
NY7	NYPMOBU	NY60	NYPSOC		
NY8	NYPCHOR	NY61	NYPWKLW		
NY9	NYPPALS	NY62M1	NYPSOC1		
NY10	NYPPALO	NY62M2	NYPSOC2		
NY11	NYPLATE	NY63	NYPWHR		
NY12	NYPARGM	NY64	NYPPAY		
NY13	NYPARGF	NY65A	NYPWKM		
NY14	NYPTLKM	NY65B	NYPWKT		

