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Downloading Understanding Society

Download the data
Understanding Society data consists of multiple files, downloadable as a single zipped folder and released through the UK Data Service, in SPSS, Stata and tab delimited ASCII formats.

The access principles and guidance outlined in this section are derived from the Understanding Society Data Access Strategy.

Every November data from Wave 1 until the latest Wave are released. Data from Wave 1 - Wave 10 were released in November 2020 and in November 2021 data from Wave 1 - Wave 11 will be released. Data from previous waves are released each time, so that any corrections can be incorporated. These changes are included in a revisions file. Along with the data files, the zipped folder will contain this Main User Guide at the time of release, other User Guides, the revisions file, the questionnaires etc. However we recommend using the Understanding Society webpages as the documentation will develop over time, with the latest versions updated to these pages.

Researchers who would like to use Understanding Society need to register with the UK Data Service before being allowed to download the dataset. Researchers should also read the UK Data Service Research Data Handling and Security: Guide for Users before downloading the data. Under the terms and conditions of access this is required reading for users who obtain Special Licence data or Secure Access data, where disclosure risk is increased.

The majority of users will need the End user Licence (EUL) data which requires users to agree to the licence agreement online after which they will be given instant access to the data. Datasets which fall under this access level category include most of the data and only exclude information that could be disclosive, such as day and month of birth, detailed country of birth, etc. This document describes the differences between the Special Licence (SN 6931) and the End User Licence (SN 6614) versions. See also the complete list of variables excluded from the EUL version. Files containing levels of geography lower than regions (previously Government Office Regions) are also excluded. Geographical indicators and other linked data available with the survey data are explained on our Linked Data page.

Download the EUL version of Understanding Society data direct from the UK Data Service.

Access levels explained
There are different levels of access, depending on what information you want to use. Users are required to sign licence agreements, details of which are listed on the Access Understanding Society data page.

Once access has been approved, data can be downloaded from the UK Data Service.

End User Licence data (Safeguarded)
In preparing the data for the general release we have taken steps to maintain the confidentiality of responses. These include not releasing the full date of birth and not releasing the most detailed job-related SOC and SIC codes. Information on income and investment has been top coded. Open or narrative text, e.g., names of schools or employers, has not been released since it may indirectly identify individuals. Geographical identifiers below the level of GORs are also not included in the EUL
release. This type of dataset should be suitable for the majority of researchers. The full set of Understanding Society EUL datasets available at the UK Data Service are identified in GN 33423.

**Special Licence data (Safeguarded)**

A number of sensitive data are released under Special Licence. Researchers can apply for access to Special Licence data through the UK Data Service if they can justify their research objectives and clearly explain why Special Licence data are needed for their project. It should be noted that some Special Licence datasets have restrictions on which countries researchers may apply for them. These restrictions can be identified in the ‘Access data’ tab on the UK Data Service webpage of any dataset. Further details are available on the Access Understanding Society data page. The full set of Understanding Society Special Licence datasets available at the UK Data Service are identified under GN 33428.

**Secure Access data (Controlled)**

Some data which is more disclosive than Special License versions can be only accessed by approved researchers in secure settings. To apply for Secure Access data through the UK Data Service researchers must be based at a UK academic institution or an ESRC-funded research centre. Applications may also be made through the Office for National Statistics Secure Research Service (ONS SRS). In all cases Secure Access data applicants must be ESRC accredited researchers. Please contact the UK Data Service or ONS SRS for details of how to become an accredited researcher. Further details are available on the Access Understanding Society data page.

Two Understanding Society datasets fall into this category: SN 6676 which includes postcode grid references (but not postcodes themselves) and full date of birth and SN 7642 which contains information about children’s education obtained linkage to official school records. These datasets at the UK Data Service are identified under GN 33429. For access at the ONS SRS please contact them directly.
Downloaded data folder explained

Data are available in Stata, SPSS and Tab delimited ASCII format. Once you have chosen the data format, you will be asked to download a zipped folder.

To extract the data use software such as 7-ZIP. In this example we are using the Stata version named UKDA-6641-stata. Open the zipped file and click on Extract in the task bar, then choose a location to place the files. We recommend you keep all files in a designated folder, such as UKHLS and include the release version in the folder name as our data gets updated over time.

Once the files are extracted you will find two main folders and two files. The read6614.htm file provides basic information about this release and the word file 6614_file_information a list of all files.

Documentation

The sub-folder mrdoc contains detailed study documentation such as user guides, questionnaires and fieldwork materials for each wave.

Datafiles

The Stata data files are available in Stata 11. The sub-folder stata\stata11_se contains the data in wave specific sub-folders. For example bhps_w1 contains harmonised BHPS files from its first wave and ukhls_w1 contains data files from Understanding Society Wave 1. The BHPS and UKHLS cross-wave files are in bhps_wx and ukhls_wx respectively. The structure is the same for SPSS and tab delimited files. SPSS is available in version 24 under sub-folder spss\spss24.

To explore the main Study data structure and documentation take a look at the Introduction page. To understand the file naming conventions, their meaning and missing values visit the Data structure section.

Tips for analysts:

The Understanding Society dataset is large and complicated. If you are new to using these kinds of datasets you may benefit from our training courses where you will learn how to put together the data files for different types of analysis. You can also take a look at our Crib sheets – which are bare bones syntax files showing you how to perform common data management tasks.

For specific queries on using Understanding Society, please contact our User Support.
Ethics

Collecting, using and sharing data in research with people requires that ethical and legal obligations are respected.

The Understanding Society study protocols and research programme are scrutinised by a number of research ethics committees to assure that ethical and legal obligations are respected at all times.

Ethical approval statement

The University of Essex Ethics Committee has approved all data collection on Understanding Society main Study and innovation panel waves, including asking consent for all data linkages except to health records. Requesting consent for health record linkage was approved at Wave 1 by the National Research Ethics Service (NRES) Oxfordshire REC A (08/H0604/124), at BHPS Wave 18 by the NRES Royal Free Hospital & Medical School (08/H0720/60) and at Wave 4 by NRES Southampton REC A (11/SC/0274). Approval for the collection of biosocial data by trained nurses in Waves 2 and 3 of the main survey was obtained from the National Research Ethics Service (Understanding Society - UK Household Longitudinal Study: A Biosocial Component, Oxfordshire A REC, Reference: 10/H0604/2).

For further details on the various committees which have provided ethical approval of the Understanding Society Study and its components as appropriate see below:

Main survey: Ethics approval was received from the University of Essex Ethics Committee

- By letter dated 6 July 2007 for Waves 1 and 2
- By letter dated 17 December 2010 for Waves 3 to 5
- By letter dated 20 August 2013 for Waves 6 to 8
- By letter dated 4 October 2016 for Waves 9-11
- Ethics Approval number ETH1920-0123 for Wave 12
- Ethics Approval number ETH2021-0015 for Wave 13

Linkage to health records

- NRES Royal Free Hospital & Medical School (08/H0720/60): 18 June 2008

Health Assessment and IBIO pilot

- NRES Oxfordshire REC A (10/H0604/2): 9 April 2010
- NRES Oxfordshire REC A (10/H0604/70): 20 January 2011
Citation

The format for bibliographic references is as follows:


This changes at each release to reflect the addition of the data from the new wave. Please visit https://www.understandingsociety.ac.uk/documentation/citation for the citation for the latest version of the data. Please cite each dataset that you use.

If you use Understanding Society data you must acknowledge this.

All works which use or refer to these materials should acknowledge these sources by means of bibliographic citation. To ensure that such source attributions are captured for bibliographic indexes, citations must appear in footnotes or in the reference section of publications.

Citing this User Guide

When citing this User Guide you can use the citation of this particular version quoted below. Alternatively, you can cite a previous version if required by replacing the date with that on the front of the User Guide you wish to cite. Note that the version available on the Understanding Society website is always the most up to date.

Study overview

Understanding Society is a longitudinal household panel study. The Study started in 2009 and follows on from the British Household Panel Study which ran from 1991-2008. Taken together the two Studies currently provide researchers with data on households in the UK spanning 30 years.

As an introduction to the Understanding Society main Study data and documentation we particularly recommend watching the videos Exploring Understanding Society, Data Structure and Selecting Weights, along with the following reading:

- **Variable descriptions and search facility.** Find the variables you need for your research by searching by variable name, by data file or by index term. This facility provides links between questions, variables and data files. Our list of key variables for the analysis of individual response data may also help you.
- **Index Terms** cover all the thematic areas in the Study. Use the index to identify the variables most relevant to your research interests and to find other variables with related data throughout the dataset.
- **Content highlights and notes on variable naming conventions.** These tell you what’s new for Wave 10 and how the data in each wave are named.
- **Example syntax files** show you how to perform common data management tasks like matching household and individual data files, producing long format individual level file for a number of waves, etc.
- Our training courses and user support for users. If you're starting out, you can ask to speak with someone from our team directly via our online helpdesk. If you want to examine more complex data questions you can visit our User Support Forum.

Read more About the Study and our Funders.
Study design

Understanding Society is a panel survey of UK households with yearly interviews.

The Study began in the UK in 2009-10. The overall Study has multiple sample components to enable research of different sub-groups over time and location or geography:

- The General Population Sample (GPS): (i) a clustered and stratified, probability sample of approx. 24,000 households living in Great Britain in 2009-10 (ii) a simple random sample of approx. 2,000 households living in Northern Ireland in 2009 (selected with twice the selection probability as the Great Britain part) See Sample Design Paper.

- The Ethnic Minority Boost Sample (EMBS): approx. 4,000 households selected from areas of high ethnic minority concentration in 2009-10 where at least one member was from an ethnic minority group. See Screening questions Appendix III and sample design paper - Design of the Understanding Society ethnic minority boost sample.

- The Immigrant and Ethnic Minority Boost Sample (IEMBS), added in Wave 6: approx. 2,900 households selected from areas of high ethnic minority concentration in 2015 where at least one member was born outside the UK, or from an ethnic minority group. See Screening questions Appendix III and sample design paper - Design and implementation of a high quality probability sample of immigrants and ethnic minorities: lessons learnt.

- The British Household Panel Survey sample (BHPS), added in Wave 2: approx. 8,000 households from the BHPS sample.

What are the different Samples?
The What are the different samples video gives an overview of the sample design for Understanding Society and how to account for it in analysis.

A more detailed discussion and further reading can be found in the survey's sample design document.

Tips for analysts:

Analyse all samples that are available together. As the data for all samples are provided in the same data file, as long as you don’t explicitly exclude a sample you will be doing this by default. You can analyse the GPS by itself, but it will mean your sample size will be smaller than if you were using all samples and there will not have large enough samples for ethnic minority and immigrant groups. If you use any of the boost samples by themselves then your analysis will not include a representative sample and suffer from coverage error.

While the samples are probability samples, not all sections of the population were selected with the same probability. Also, not everyone selected and asked to participate in the interviews did so. To correct for bias due to these two reasons we recommend you use the weights provided. **TIP:** This is explored in the weighting and sampling section.

All samples other than the GPS-NI part had a clustered and stratified design. As statistical softwares assume that the data is a simple random sample, to estimate standard errors correctly you will need
to explicitly inform the software about the clustering variable \texttt{w\_psu} (primary sampling unit) and the stratification variable \texttt{w\_strata}. For guidance on this visit the Clustering and stratification page.

Survey timeline

Understanding Society builds on its predecessor project, the British Household Panel Survey (BHPS).

Many design features, instruments, and questions from the BHPS were continued in Understanding Society allowing analysts to combine data from the two datasets. Since 2017, a harmonised version of the two surveys has been released to make this easier.

Sample members are interviewed every year as long as they continue to live in the UK and can be located, contacted and agree to participate. Data collection or fieldwork stretches across 24 months for the GPS (GB) and EMBS but is across the first 12 months for GPS (NI) and BHPS, and across the last 12 months for IEMBS. From 1991-2009, the BHPS fieldwork period was from September to December of each year. View the Survey’s timeline and information about Data releases.

Tips for analysts:

While the survey fieldwork period is 24 months for some of the sample, every individual is interviewed at approximately 12 month intervals. So, for any individual their Wave 2 interview will be approximately one year after their Wave 1 interview, and their Wave 3 interview will be around 2 years after their Wave 1 interview and so on.

This 24 month fieldwork period + annual interviews also means that in any one calendar year half of those samples is being interviewed for Wave n and the other half for Wave n+1. You can combine interviews for the GPS (GB) across two consecutive waves in each year to produce calendar year specific waves. For the appropriate weights to use in this case see the FAQs in the Weighting section.
Interview and fieldwork process

Interview process

Interviews are typically carried out face-to-face in respondents’ homes by trained interviewers or by respondents themselves completing their survey online. Every section of the questionnaire, and each question, is answered voluntarily.

All household members of the households selected at the first wave and their descendants constitute the core sample and are followed wherever they move within the UK to see how things have changed over time and over their lifecourse. All those who join their households in subsequent waves do not become part of the core sample but are interviewed as long as they live with at least one core sample member. For more technical details on these see Following rules.

The household enumeration grid identifies household members and collects some basic information about them. Any knowledgeable adult in the household can fill this in.

The household questionnaire is generally asked of the person who owns or rents the accommodation (or the elder of the two if jointly owned or rented). This questionnaire includes questions relevant to the whole household such as expenditure on heating, information about ownership, mortgage, rents and so on.

All household members aged 16 or above, are asked to complete an individual questionnaire. During face-to-face interviews, interviewers ask most of the questions, but respondents complete one section, the self-completion questionnaire (this was available as a paper questionnaire for the first two waves after which it was available on the computer (CASI)).

Household members aged 10-15 years are asked to complete a short self-completion youth questionnaire, with permission from their parent or carer. They become eligible for a full interview once they reach the age of 16.

Some information about children 0-9 years old is collected from their parents or guardians.

Who answers which questions?

This video describes which respondents answer which questions and questionnaires and by which mode during their interviews for Understanding Society.

Mode – Web, CAPI and telephone

In the BHPS and Understanding Society, interviews are conducted face-to-face. In the BHPS and from Wave 3 of Understanding Society onward, a small number of respondents are interviewed over the phone. From Wave 7 onwards, web interviewing was introduced. At Wave 7, it was only adults in households that did not take part in Wave 6 that were invited to completed online. From Wave 8, adults in households that had taken part in Wave 7 were also invited to completed online. While 20% of the sample was ring-fenced to be interviewed in person, 40% were invited to complete their survey online, and the remaining 40% of the sample were issued directly to interviewers. In each successive wave the proportion of the sample invited to take part online increases to a maximum of 80%. Adults who are invited to complete online, but do not take part in the first five weeks, are issued to interviewers who then try to contact them to take part in-person. Both web-first and CAPI-
first non-responders were also eligible for the telephone “mop-up” towards the end of the fieldwork period. This mode is used to increase participation among those adults who are hard to contact in person. As interview mode is known to have an impact on responses, users are advised to read the section Analysis advice for mixed mode data.

**Interview dates, fieldwork periods**

The sample is issued monthly. The start date and length of the fieldwork period has varied across waves (earlier waves having shorter fieldwork periods), interview modes and samples. The fieldwork period is generally split into an initial interviewing phase, and then a shorter ‘re-issue’ phase where non-responding households are reviewed and re-issued, often to a different interviewer. To find out more about fieldwork start dates and durations see Understanding Society fieldwork procedures.

The Great Britain part of the GPS and the EMBS comprise of 24 monthly samples while the Northern Ireland part of the GPS and the BHPS samples comprise of 12 monthly samples. The IEMB sample which was added in Wave 6, was issued as 4 quarterly samples. For the GPS-GB part and EMBS the fieldwork is around 24 months, while for the BHPS and GPS-NI part it is during the first 12 months of a wave and for the IEMBS it is during the last 12 months of a wave. While the sample month may change for sample members across waves, the sample quarter remains the same across waves.

Note that even though the fieldwork runs over two years for some samples, and the duration of fieldwork for sample months change across waves and modes, every sample member is interviewed approximately one year apart. View the Survey’s timeline.

Information about the sample month in which a household was issued is available in the variable `w_month`, which is located in a number of data-files: `w_hhsamp`, `w_indsamp`, `w_issue`, `w_callrec`, `w_child`, `w_hhresp`, `w_indresp`, and `w_indall`. The variable that identifies the sample quarter is `w_quarter` in these files and `xwavedat`. The interviews for BHPS Waves 1-18 were conducted generally between September and December of each year with the re-issue period extending for up to 5 months after that. So, this information is not applicable and hence available for the BHPS Waves 1-18.

Due to the long fieldwork period for each monthly sample, the month issued will not necessarily be the month in which the interview took place. The actual date of interview for the individual adult interview is given in the `w_indresp` file in variables `w_istrtdatd` (day), `w_istrtdatm` (month), and `w_istrtdaty` (year). The variables for the date of the household interview are `w_histrtdatd` (day), `w_histrtdatm` (month), and `w_histrtdaty` (year).

Information about the issue number, whether first issue or a subsequent re-issue, is available in the `w_issueno` variable, located in `w_callrec` data file (all waves), and the `w_issue` data file (Waves 1-5 only). These files also include information about all the calls made until a successful interview and the outcomes of each call. This information is not available for the BHPS Waves 1-18.

**Incentives**

The invitation letter to complete the survey includes an unconditional £10 gift voucher as a token of our appreciation for their help. For those adults in web-first households there is a bonus £10 incentive which is sent to them if they complete the survey within five weeks. Those respondents who turn 16 are welcomed to the adult survey with an additional incentive of being entered into a
prize draw to win an iPad. Sample members in households which did not take part during the
previous wave are offered a £20 incentive if they are able to take part in the latest wave. Web-first
adult sample members, for whom we have an email address, also receive an email with a direct link
to their online survey.

Consent
Every question, in each section of the questionnaire, is answered voluntarily by participants.
Information on the consent process is outlined on the consent information page. Understanding
Society asks for consent to link responses to certain records held by government departments and
other agencies. The type of records includes health, education, benefits records etc. and vary
according the wave and whether consent has already been sought either verbally or in writing.
Those asked for consent are given a copy of the consent information leaflet along with a privacy
notice to read. Read more about linked data.

Fieldwork Documents
The fieldwork documents used during the interviewing process include emails, letters, leaflets and
project instructions for interviewers. Details of who answered which module is listed in the Modules
table within the "Project instructions for Interviewers" documents, there is a separate one for each
wave.

Following rules
Everyone enumerated in the households when a sample is selected are considered to be an Original
Sample Member (OSM). Anyone who moves in with an OSM from onwards the subsequent wave is
considered to be a Temporary Sample Member (TSM). The only exception is any non-ethnic minority
individual enumerated in EMBS households in Wave 1 and in IEMBS households in Wave 6. They are
considered to be TSMs. Any child born to an OSM mother is an OSM. Any TSM who has a child with
an OSM becomes a Permanent Sample Member (PSM). Note, in the BHPS children of OSM mothers
and OSM fathers became OSMs. But the new rules are applied to any children born to BHPS sample
members after they became part of Understanding Society.

OSMs and PSMs are always eligible for interviews as long as they are living in the UK. TSMs are
eligible for interviews only if they live with at least one OSM or PSM. This means that when issuing
the sample at the next wave, households which had been identified as containing only TSMs at the
previous wave are not issued.

There are other reasons that a household may not be issued at a particular wave, depending on
information received between waves. Households are withdrawn if we are informed that a whole
household has adamantly refused or asked to withdraw from the Study; have emigrated; have died;
or are no longer mentally or physically capable to make an informed choice to consent.

From Wave 4 onwards, we also withdraw households for which the outcome at the previous two
consecutive waves were both non-contact, were both refusal, or there was a refusal two waves prior
followed by a non-contact one wave prior.
Fieldwork procedures (2009 - )
Information about the Understanding Society fieldwork procedures: the fieldwork period and how it has changed across waves and differs by interviewer mode, panel maintenance rules.

Fieldwork dates
For the first five waves of the Study, each monthly fieldwork sample started on the 8th of the month, except in Northern Ireland where it started on the 1st. August and December months started a week earlier, on the 1st, to allow interviewers more time to make contact during the holiday periods. At Wave 6, each monthly fieldwork period started on the 1st, except for January which started on the 8th, to avoid fieldwork agency staff working during the Christmas period. At Wave 7, to make it easier for the fieldwork agency to deal with the logistics of issuing two waves, the start date for each month was moved to the 8th.

With the wide introduction of web as a primary mode of interview, the start date for each sample month was moved back to before the start of the month. This was to allow any non-responding sample members who had been invited to complete online to be issued to interviewers at the same time as the CAPI-first sample. This avoided the situation of interviewers starting to work their caseload for a few weeks before then being given the web-first non-responding cases to work. Having their whole caseload at the start of the CAPI fieldwork meant that interviewers could manage their work more efficiently.

In the first year of Wave 8, the web-first fieldwork started three weeks before the CAPI fieldwork, and by the start of the second year this had increased to five weeks before the CAPI fieldwork. The web fieldwork started one week before the start of the month, which meant that the CAPI fieldwork started around the start of the next month. For example, the February 2017 sample at Wave 8 were invited to take part online on January 25th, and the CAPI fieldwork started on March 1st.

Fieldwork periods
At Wave 1 the initial fieldwork period was for first issue was one month, starting on the 8th of each month. Then there was a one week pause when the non-completed sample was reviewed, and then a two week re-issue period. For the EMB, the screening period took place two weekends before the start of the first issue and covered six days (Wednesday to Monday). No interviewing could be done if a household was screened-in until the 8th of the sample month. During Wave 1 there were a number of changes to the fieldwork periods. For the EMB the screening period was doubled from six to twelve days from July 2009 (year 1) to try to reduce the high non-contact rate during the screening process. At the start of year 2 (January 2010), the first issue fieldwork period was extended from four to six weeks to allow interviewers more time to cover their assignment and reduce non-contact rates.

The second wave of Understanding Society was the first longitudinal wave, and so interviewers had to deal with sample members moving house and tracing them to a new address. Therefore, to allow time for this new task there was an additional four week period to enable interviewers to trace movers, either through their own efforts or where a new address had been identified by in-office tracing and reissued to the interviewer. From April of year 1 (2AP1), the reissue fieldwork extended to four weeks, from two. This meant that the fieldwork period was now four months long.
At Wave 4 the fieldwork period changed from that used at Waves 2 and 3. In the first year of Wave 4 the initial six weeks of main issue, followed by a two week gap for office administration, was followed by a two week CAPI reissue phase and then a six week CAPI mop-up to allow extra time for tracing movers, and then there was a four week CATI mop-up, where the first week overlapped the sixth week of the CAPI mop-up. This resulted in a 19-week fieldwork period. In year 2 of Wave 4 this was adapted to lengthen the issue periods. The initial main issue was increased to ten weeks with an additional two week extension to cover appointments and traced movers. The in-office administration and tracing gap was removed, but this work was done on an ongoing basis and cases were reissued in two batches, at weeks eight and 10. The CAPI reissue and CAPI mop-up stages went on until week 16, with an additional three week period for appointments. The last four weeks of this period ran in parallel to the CATI mop-up (weeks 16-19).

At Wave 6 there were more significant changes to the fieldwork design due to the change in fieldwork agencies following the competitive procurement process for Waves 6-8. These were implemented because it was thought that they would improve response on the Study. The fieldwork period was increased from 19 to 23 weeks; an initial issue of eight weeks with a two week mop-up period, then three weeks whilst sample was returned to the operations department and reviewed for reissues, a six week CAPI reissue period, then a four week CATI mop-up period, although during these last four weeks some face-to-face interviewing could still be done. There was some flexibility around these timings so interviewers could retain households after 10 weeks if they had a strong chance of interviewing them, such as where there are appointments.

From Wave 7 onwards the 23-week fieldwork period for the web-first households was broken up into two weeks of ‘web-only’ fieldwork, 17 weeks of CAPI fieldwork (with the web still available), then four weeks of the telephone mop-up. Adults in households that had responded at Wave 6 were issued directly to interviewers, with a 19-week CAPI fieldwork period followed by a 4-week telephone mop-up. During the re-issue phase for these households, non-responding adults were sent a re-issue letter which included information on how to complete their interview online (week 15 onwards).

**Panel membership and panel maintenance**
Prior to fieldwork starting, ISER transfers the sample information required to the fieldwork agency. The sample files contain information on the individuals and households being issued to field, along with any prior wave information used in dependent interviewing, such as previous occupation. From Wave 4 onwards, the sample fed-forward for each sample month also includes information on ‘dormant’ households. These are households where the household outcome at the previous two consecutive waves were non-contact, refusal, or a refusal (T-2) followed by a non-contact (T-1). These households are considered to be no longer active in the survey. They are issued to the fieldwork agency, but not to interviewers. This is in case a household member of a dormant household contacts ISER and requests to be part of the Study again.

**Calculation for response tables**
The response rates reported in these tables are designed to measure the effectiveness of fieldwork, and so take as the base those cases that were issued at each wave. This means that cases which were withdrawn before fieldwork started (e.g., if a household contacts us to withdraw from the study in between waves) are not included in the tables.
Household response
The \texttt{w_hhsamp} file is used to create the household outcome summary variable. The household interview outcome variable (\texttt{w_ivfho}) code 10 (all eligible hh intv) is counted as “Fully responding households” while codes 11 (interviews + proxies), 12 (interviews + refusal), 14 (hh grid + indiv only (no hh ques)) are counted as “partially responding households” (i.e., at least one adult interview). Codes 51-59 (no hh member contact, unable to locate address, contact made but not with correct, address inaccessible, no phone contact with cati hhold, unknown eligibility, other non-contact) are counted as “Non-contact” households. “Untraced movers” are households with households response outcome code 50 (address not found). Codes 60 (refuse to rsrch cntre), 61 (refusal to intviewer), and 66 (no web response/web-only hh) are counted as “Refusal” households. The “Other non-interview households” category is made up of codes 15 (hh grid + proxies only), 16 (hh grid only), 62 (language problems), 63 (no intv.: age/health), and 65 (ill during survey period). Households with outcome codes 70-98 are counted as ineligible and not included in the tables.

Individual response
The \texttt{w indsamp} file is used to create the individual outcome summary variable. The individual interview outcome variable (\texttt{w_ivfio}) code 1 (full interview) is counted as “full interview”, and code 2 (proxy interview) as “proxy interview”. The “other non-interview” category includes sample members with individual interview outcome codes 9 (lost capi interview), 11 (other non-intvw), 14 (ill/away during survey period), 15 (too infirm/elderly), 16 (language difficulties), and 18 (unknown eligibility). Code 10 (refusal) is used for the refusal category. All the outcome codes that refer to children are coded as ineligible for the adult response tables. Also ineligible are codes 80 (tsm - no osm/psm), 81 (prev wave adamant refusal), 82 (l-t untrace, w-drawn), 83 (withdrawn before field), 84 (other ineligible), 98 (other retiring (due to health)), and 99 (dead). Other outcome codes that refer to specific outcomes within a non-interviewed household are replaced with their household response variable (see above) and that is used to categorise them as refusals, non-contacts or other non-interview (e.g., the individual outcome is coded as a household non-contact if the household outcome is non-contact).

Data structure
This \href{https://www.understandingsociety.co.uk/user-guide}{video} gives more detail on how Understanding Society data is structured and gives basic information about how the data is collected.

Data collected from different sources (e.g., the household interview, the adult interview, the youth interview) are stored in separate files. Each wave has a set of such files. To make it easier to use, files have the same root name, but begin with a letter prefix to reflect the wave the data are collected. So, “\texttt{a}” for the first wave, “\texttt{b}” for the second wave (in this user guide we have used “\texttt{w}” to denote waves in general). From the Wave 7 data release onward (November 2017) \textit{Understanding Society}-harmonised BHPS data files are also included. Most files exist for both studies and if they do and have been harmonised, the file stem name will match. Wave-specific harmonised BHPS files can be identified by the wave prefix \texttt{bw}. Note: BHPS data files that have not yet been harmonised but have the same stem name as UKHLS files have the suffix \_\texttt{bh}, but files that are unique to the BHPS do not need to have such suffixes (harmonised or not).
Table 1 in the **List of data files and their descriptions** section, lists the main data files such as \texttt{w\_indresp} which includes information collected during adult interviews, \texttt{youth} which includes information collected during youth interviews. To avoid creating very large files, some information collected during adult interviews are provided as separate smaller multi-level levels, see Table 3 and Table 4 for a list of these files.

Some stable information such as date of birth, ethnicity, country of birth are collected in the first time a person is interviewed. So, while for the core sample members this will be asked in the initial wave, for those joining the household after that, they will be asked in the wave they joined. To make it easier for data users, this information has been asked in different waves for different respondents and has been put in one individual level file, \texttt{xwavedat}. There are a few other such cross-wave files, which all begin with “\texttt{x}”. See Table 2 for a list of such files.

Some information is collected about the interview and sampling process, such as number of calls made by the interviewer, outcome of each call, interviewer ID, the information the interviewer collects about the condition of the property and neighbourhood, time taken to complete a questionnaire module and so on. See Table 5 for a list of these files.

**Variable naming convention**

Understanding Society has a distinct naming convention for its datafiles to identify which wave the data is from and the source of the data.

The naming convention for variables follows the same rules as file names. Variable names have the same root name which is fixed over time, and begin with a prefix to reflect the wave the data are collected (“\texttt{a}” for the first wave, “\texttt{b}” for the second wave; in this user guide we have used “\texttt{w}” to denote waves in general). For example, current employment status collected from interviews with responding adults in Wave 1 (both years: 2009 and 2010) is \texttt{a\_jbstat} and \texttt{b\_jbstat} in Wave 2 (both years: 2010 and 2011).

To ease identification of groups of variables a number of additional general naming conventions have been applied. For instance, following the wave prefix, information from the UKHLS Wave 1 and Wave 2 self-completion interview with adults starts with the prefix “\texttt{sc}”; information from the interview with young adults generally starts with the prefix “\texttt{ya}”, and information from the child development module starts with the prefix “\texttt{cd}”. Similarly, we have attempted to include in the variable name the acronym of well-known instruments such as the Strengths and Difficulties Questionnaire (SDQ) or the General Health Questionnaire (GHQ). See, for example, \texttt{c\_ypsqda} to \texttt{c\_ypsdqy} on data file \texttt{c\_youth} or \texttt{d\_scghq2\_dv} on data file \texttt{d\_indresp}.

The prefix “\texttt{ff}” following the wave prefix shows variables that were fed forward from previous waves to route respondents appropriately in the questionnaire. To aid data collection, information reported at an earlier time is fed forward to the respondent to personalize the question. Rather than ask a question about current occupation, the question might say:

“the last time you were interviewed you said you were “specific occupation” are you still “specific occupation”?

Feed-forward variables are used at both the household and individual levels. For example:
**b_ff_hhsiz** feeds forward the household size from the previous wave (Wave 1)

**b_ff_plborn** is the country of birth of the respondent fed forward from the previous wave.

**Note** that the variable name does not change over time so long as the underlying question does not change substantially. Analysts are advised to carefully read the variable notes in the online documentation to keep track of any definitional changes or changes in the code frame that may impact study results. An example is the derived variable **w_qfhigh_dv** which provides limited information about continuing BHPS (from Wave 2 onward) and IEMB sample members (from Wave 6 onward) as the underlying code frames for the initial conditions questions in the BHPS Wave 1-18, UKHLS Wave 1-7 and IEMB Wave 1 (as part of UKHLS Wave 6) do not perfectly align.

**Missing values**

For various reasons survey responses may not have a valid code or value. The missing value codes assigned to these data are described below. All missing values are negative and are never used as valid responses. We recommend that users carefully read the questionnaires and compare missing value distributions across waves before using the substantive information contained in them.

**Value Description**

-1  "Don't know" - When the respondent does not know the answer.

-2  "Refused" - When the respondent does not know the answer.

-7  "Proxy" - Sometimes when a person cannot participate in the interview, someone else in the household (generally their spouse or partner or adult children) answers questions on their behalf, that is, by proxy. This questionnaire is a much shorter questionnaire asking factual information. So, if a question was not included in the proxy questionnaire and the person gave a proxy interview, this variable will be missing for them. In such cases the variable will have a value of -7.

-8  "Valid skip" - This information is missing because the person was never asked this question as they were not eligible for it. E.g., someone who is not in paid employment is not asked questions about their pay.

-9  "Missing by error or implausible".

-10 "Not available for the IEMBS" - Some questions were only asked in the W6 questionnaire for non-IEMBS and so individuals in IEMBS will have missing information for these variables.

-11 "Only available for the IEMBS" - Some questions were only asked in the W6 questionnaire for IEMBS and so individuals in non-IEMB samples will have missing information for these variables.

-20 "No data from the BHPS W1-18" - This code is only used for variables in the xwavedat file which is harmonised across BHPS and UKHLS. If some variable was only asked in the UKHLS
then there will be no data from BHPS W1-18 and hence missing for those not interviewed during UKHLS.

“No data from the UKHLS” - This code is only used for variables in the xwavedat file which is harmonised across BHPS and UKHLS. If some variable was only asked in the BHPS then there will be no data from UKHLS and hence missing for those not interviewed during BHPS W1-18.

Note that the default missing value code for post-field derived variables tends to be “missing or wild”. This also applies to most variables on the xwavedat file. Missing value codes on the youth self-completion questionnaire also tend to be less accurate because the instrument was administered as a paper-and-pencil questionnaire and so it is not clear whether they refused to answer, didn’t know the answer or simply missed the question. They may also not have followed the question routing correctly.

**Tips for analysts**

Income variables can be negative due to self-employment reported losses. A value of 0 means their income was 0 and negative values (other than those dedicated for missing values) are actual negative values reported. All individuals with negative net labour income are self-employed. In this survey data, missing values are assigned a negative value. These negative values are dedicated for the missing values and will never reflect actual negative income values reported. **Note:** users can identify those self-employed using the variable `w_jbsemp`. 
List of data files and their descriptions

All datafiles released under the Main study SN6614 EUL version are listed below. The Special License version of the survey SN6931 includes the same files but with some additional variables and for some income variables the non-top-coded values of those variables. The Secure Access version of the survey data is available as SN6676. It includes all files in the Special Licence version and files that contain 3 variables relating to the National Grid Reference for each household: Easting, Northing and positional quality indicator (OSGRDIND). This Secure Access version also includes variables for the full dates of birth for Understanding Society and BHPS respondents. The different access level are explained on the Data Access page.

Table 1: List of main data files

<table>
<thead>
<tr>
<th>Filename</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>w_indall</td>
<td>Household grid data for all persons in household, including children and non-respondents</td>
</tr>
<tr>
<td>bw_indall</td>
<td></td>
</tr>
<tr>
<td>w_hhresp</td>
<td>Substantive data collected from responding households</td>
</tr>
<tr>
<td>bw_hhresp</td>
<td></td>
</tr>
<tr>
<td>w_indresp</td>
<td>Substantive data collected from responding adults (16+) including proxies. Some information collected in these questionnaires are better presented in multi-level files (see Table 2).</td>
</tr>
<tr>
<td>bw_indresp</td>
<td></td>
</tr>
<tr>
<td>w_youth</td>
<td>Substantive data from youth questionnaire</td>
</tr>
<tr>
<td>bw_youth</td>
<td></td>
</tr>
<tr>
<td>w_child</td>
<td>Childcare, consents and school information of all children (0-15 years) in the household. <em>This is a derived data file collecting information pertaining to children as reported by their parents and guardians in the adult questionnaire.</em></td>
</tr>
<tr>
<td>w_egoalt</td>
<td>Kin and other relationships between pairs of individuals in the household. <em>This is a derived data file based on information collected in the household grid about relationships between household members.</em></td>
</tr>
<tr>
<td>bw_egoalt</td>
<td></td>
</tr>
<tr>
<td>w_income</td>
<td>Every year information about <em>income and payments</em> from different sources is collected. <em>Income variables, such as gross/net household income, gross/net personal income etc, derived from the information in this file is provided in w_indresp and w_hhresp files. See Income section for details.</em></td>
</tr>
<tr>
<td>bw_income</td>
<td></td>
</tr>
</tbody>
</table>

Table 2: List of cross-wave files

<table>
<thead>
<tr>
<th>Filename</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>xwavedat</td>
<td>Stable characteristics of individuals, such as date of birth, country of birth, ethnicity, which is typically collected only once in the lifetime of the Study are picked from different data files and put into this file. This file now includes all sample members ever enumerated in either Understanding Society and BHPS and variables have been harmonised across studies where possible.</td>
</tr>
<tr>
<td>xivdata</td>
<td>Some basic information about interviewers is stored in these files. [non-harmonised]</td>
</tr>
<tr>
<td>xivdata_bh</td>
<td>These are available in the Special License version of the survey SN6931.</td>
</tr>
</tbody>
</table>
Some basic sampling information from each wave such as interview outcomes is included in this file. [non-harmonised]

Contains information on the latest known sample status of individuals [Only BHPS]

Table 3: List of data files about children based on information collected during adult interviews

<table>
<thead>
<tr>
<th>Filename</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a_natchild</td>
<td>Some basic information about all <strong>biological children</strong> born to the sample members, whether co-resident or not. These are collected in the first wave for any sample. So, for example, <strong>a_natchild</strong> was collected in Wave 1 for GPS &amp; EMBS. [non-harmonised]</td>
</tr>
<tr>
<td>f_natchild</td>
<td></td>
</tr>
<tr>
<td>bb_childnt</td>
<td></td>
</tr>
<tr>
<td>bk_childnt</td>
<td></td>
</tr>
<tr>
<td>bl_childnt</td>
<td></td>
</tr>
<tr>
<td>a_adopt</td>
<td>Some basic information about all <strong>adopted and stepchildren</strong> born to the sample members, whether co-resident or not. These are collected in the first wave for any sample. So, for example, <strong>a_adopt</strong> was collected in Wave 1 for GPS &amp; EMBS. [non-harmonised]</td>
</tr>
<tr>
<td>f_adopt</td>
<td></td>
</tr>
<tr>
<td>bb_childad</td>
<td></td>
</tr>
<tr>
<td>bk_childad</td>
<td></td>
</tr>
<tr>
<td>bl_childad</td>
<td></td>
</tr>
<tr>
<td>w_newborn</td>
<td>Every wave after Wave 1, basic information about <strong>new born children</strong> such as birthweight, etc. is collected from new parents</td>
</tr>
<tr>
<td>w_chmain</td>
<td>Information about <strong>child maintenance</strong> arrangements was collected in Waves 3, 5, 7, 9,…</td>
</tr>
<tr>
<td>w_parstyle</td>
<td>Every wave from onwards Wave 4, information about <strong>parenting styles</strong> was collected</td>
</tr>
</tbody>
</table>

Table 4: List of data files about partnerships, jobs and employment histories based on information collected during adult interviews

<table>
<thead>
<tr>
<th>Filename</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a_marriage</td>
<td>Start and end dates of past marriages and how that marriage ended was collected during adult interviews in the first wave a sample was selected. So, for example, <strong>a_marriage</strong> was collected in Wave 1 for GPS &amp; EMBS. [non-harmonised]</td>
</tr>
<tr>
<td>f_marriage</td>
<td></td>
</tr>
<tr>
<td>ba_mariag</td>
<td></td>
</tr>
<tr>
<td>bk_mariag</td>
<td></td>
</tr>
<tr>
<td>bl_mariag</td>
<td></td>
</tr>
<tr>
<td>a_cohabit</td>
<td>Start and end dates of past cohabitations and how that cohabitation ended was collected during adult interviews in the first wave a sample was selected. So, for example, <strong>a_cohabit</strong> was collected in Wave 1 for GPS &amp; EMBS. [non-harmonised]</td>
</tr>
<tr>
<td>f_cohabit</td>
<td></td>
</tr>
<tr>
<td>bb_cohab</td>
<td></td>
</tr>
<tr>
<td>bk_cohab</td>
<td></td>
</tr>
<tr>
<td>bl_cohab</td>
<td></td>
</tr>
<tr>
<td>bw_jobhist</td>
<td>Contains information about employment history between two waves collected during adult interviews. [Only BHPS]</td>
</tr>
<tr>
<td>(bw_jobhistid)</td>
<td></td>
</tr>
</tbody>
</table>
Employment history was collected during adult interviews in Wave 1 for part of the GPS & EMB samples and in Wave 5 for rest of the samples, and for the entire IEMBS in Wave 6. [non-harmonised]

<table>
<thead>
<tr>
<th>Filename</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a_empstat</td>
<td>Employment history was collected during adult interviews in Wave 1 for part of the GPS &amp; EMB samples and in Wave 5 for rest of the samples, and for the entire IEMBS in Wave 6. [non-harmonised]</td>
</tr>
<tr>
<td>b_empstat</td>
<td></td>
</tr>
<tr>
<td>f_empstat</td>
<td></td>
</tr>
<tr>
<td>bw_lifemst</td>
<td></td>
</tr>
<tr>
<td>bk_lifemst</td>
<td></td>
</tr>
<tr>
<td>bl_lifemst</td>
<td></td>
</tr>
<tr>
<td>bc_lifejob</td>
<td>Contains information about jobs held in employment spells [Only BHPS]</td>
</tr>
</tbody>
</table>

**Table 5: Paradata and interview related files**

<table>
<thead>
<tr>
<th>Filename</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>w_hhsamp</td>
<td>This file contains information about each household that the interviewer collects about the condition of the property, neighbourhood, interview outcome and so on.</td>
</tr>
<tr>
<td>bw_hhsamp</td>
<td></td>
</tr>
<tr>
<td>w_indsamp</td>
<td>Includes current interview outcome for anyone enumerated in the last interview wave, for example, whether they have responded, only enumerated, couldn’t be contacted or refused, or were ineligible.</td>
</tr>
<tr>
<td>bw_indsamp</td>
<td></td>
</tr>
<tr>
<td>w_callrec</td>
<td>Includes information about each interview call made to each household, such as outcome of the call, interview ID.</td>
</tr>
</tbody>
</table>

**Timings Files**

Various files are available that capture the time taken to complete questions and modules within individual and household questionnaires. Given that these files vary from wave to wave and are of limited, specialist use only, they are not released as standard. If you want to make use of them please contact usersuport@understandingsociety.ac.uk who will be happy to advise.
Linking datafiles
Households are uniquely identified in each wave by \texttt{w_hidp}, a wave specific variable with a different prefix for each wave. It can be used to link information about a household from different records within a wave but cannot be used to link information across waves. Since the composition of households can change between waves, the data do not include a longitudinal household identifier. For example, \texttt{a_hhresp} can be linked with \texttt{a_indresp} using \texttt{a_hidp} but not with \texttt{b_hhresp}.

Individuals are identified by the personal unique identifier (\texttt{pidp}), which is the same in all waves and can be used to link information about a person from different records belonging to one wave, or to link information from different waves. The cross-wave person identifier \texttt{pidp} is consistent across the harmonised BHPS and UKHLS files. Additionally, individuals are identified by \texttt{w_pno} – the person number within the household. The combination of \texttt{w_hidp} and \texttt{w_pno} is unique for each individual only in datafiles for wave w. For example, \texttt{ba_indresp} can be linked with \texttt{h_indresp} using \texttt{pidp}; \texttt{a_indresp} can be linked with \texttt{a_indall} using \texttt{pidp} or using \texttt{a_hidp a_pno}. But \texttt{a_indresp} cannot be linked with \texttt{b_indresp} using \texttt{a_hidp a_pno}.

<table>
<thead>
<tr>
<th>Topic domain</th>
<th>Variable name</th>
<th>Short description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifiers</td>
<td>\texttt{pidp}</td>
<td>unique cross-wave person identifier</td>
</tr>
<tr>
<td></td>
<td>\texttt{w_hidp}</td>
<td>within-wave household identifier</td>
</tr>
<tr>
<td></td>
<td>\texttt{w_pno}</td>
<td>person number in the household</td>
</tr>
<tr>
<td>Locality</td>
<td>\texttt{w_country}</td>
<td>Country in the UK (\texttt{w_indresp})</td>
</tr>
<tr>
<td></td>
<td>\texttt{w_gor_dv}</td>
<td>Region in the UK (\texttt{w_indresp})</td>
</tr>
<tr>
<td></td>
<td>\texttt{w_urban_dv}</td>
<td>Urban or rural area, derived (\texttt{w_indresp})</td>
</tr>
<tr>
<td>Demographic characteristics</td>
<td>\texttt{w_age_dv}</td>
<td>age at time of interview, derived (\texttt{w_indresp})</td>
</tr>
<tr>
<td></td>
<td>\texttt{w_sex_dv}</td>
<td>sex, derived (\texttt{w_indresp})</td>
</tr>
</tbody>
</table>

Tips for analysts:
Take a look at the Syntax for help in linking household members and individuals.

Pointers to significant others in the household are listed under the Index Terms Person Identifiers and are part of the wider group of variables listed as Key linking variables.

If you’re struggling to link the files get in touch with our User Support team.

Key variables
The data files in which the variables are located are mentioned in parentheses.
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>w_marstat</code></td>
<td>marital status (w_indresp)</td>
</tr>
<tr>
<td><code>w_nchild_dv</code></td>
<td>number of children in the household. Includes natural children, adopted children and stepchildren, under the age of 16 (w_indresp)</td>
</tr>
<tr>
<td><code>w_jbstat</code></td>
<td>employment status (w_indresp)</td>
</tr>
<tr>
<td><code>racel_dv</code></td>
<td>ethnic group (self-reported) (xwavedat, as w_ethn_dv in w_indresp)</td>
</tr>
<tr>
<td><code>ethn_dv</code></td>
<td>ethnic group - derived from multiple sources (xwavedat, as w_ethn_dv in w_indresp)</td>
</tr>
<tr>
<td><code>ukborn</code></td>
<td>whether born in England, Scotland, Wales, Northern Ireland or outside UK (xwavedat)</td>
</tr>
<tr>
<td><code>bornuk_dv</code></td>
<td>whether born in the UK (xwavedat)</td>
</tr>
</tbody>
</table>

**Socio-economic characteristics**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>w_hiqual_dv</code></td>
<td>highest qualification status (w_indresp)</td>
</tr>
<tr>
<td><code>w_jbsoc00_cc</code></td>
<td>Standard Socio-economic Classification (SOC 2000) of current job. Condensed three-digit version status (w_indresp)</td>
</tr>
<tr>
<td><code>w_jbnssec8_dv</code></td>
<td>current job: Eight Class NS-SEC status (w_indresp)</td>
</tr>
<tr>
<td><code>w_jbnssec5_dv</code></td>
<td>current job: Five Class NS-SEC status (w_indresp)</td>
</tr>
<tr>
<td><code>w_jbnssec3_dv</code></td>
<td>current job: Three Class NS-SEC status (w_indresp)</td>
</tr>
<tr>
<td><code>w_fimnnet_dv</code></td>
<td>own total estimated net monthly income status (w_indresp)</td>
</tr>
<tr>
<td><code>w_fimmlabnet_dv</code></td>
<td>own total estimated net monthly income from labour status (w_indresp)</td>
</tr>
</tbody>
</table>

**Health**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>w_sf12mcs_dv</code></td>
<td>SF-12: mental health component score, derived status (w_indresp)</td>
</tr>
<tr>
<td><code>w_sf12pcs_dv</code></td>
<td>SF-12: physical health component score, derived status (w_indresp)</td>
</tr>
<tr>
<td><code>w_health</code></td>
<td>long-standing illness or disability status (w_indresp)</td>
</tr>
<tr>
<td><code>w_scghq1_dv</code></td>
<td>subjective wellbeing (GHQ): Likert status (w_indresp)</td>
</tr>
<tr>
<td><code>w_scghq2_dv</code></td>
<td>subjective wellbeing (GHQ): Caseness status (w_indresp)</td>
</tr>
</tbody>
</table>

**Individual and family background**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>scend_dv</code></td>
<td>school leaving age (xwavedat)</td>
</tr>
<tr>
<td><code>j1soc00_cc</code></td>
<td>Standard Socio-economic Classification (SOC 2000) of first job after leaving full-time education. Condensed three-digit version (xwavedat)</td>
</tr>
<tr>
<td><code>maid</code></td>
<td>mother's ethnic group (xwavedat)</td>
</tr>
<tr>
<td><code>macob</code></td>
<td>mother's country of birth (xwavedat)</td>
</tr>
<tr>
<td>Identifier</td>
<td>Short description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>maedqf</td>
<td>mother's educational qualification when respondent was aged 14 (xwavedat)</td>
</tr>
<tr>
<td>masoc90_cc</td>
<td>Standard Occupational Classification 1990/2000/2010 of mother's job when respondent was aged 14 (xwavedat)</td>
</tr>
<tr>
<td>masoc00_cc</td>
<td></td>
</tr>
<tr>
<td>masoc10_cc</td>
<td></td>
</tr>
<tr>
<td>paid</td>
<td>father's ethnic group (xwavedat)</td>
</tr>
<tr>
<td>pacob</td>
<td>father's country of birth (xwavedat)</td>
</tr>
<tr>
<td>paedqf</td>
<td>father's educational qualification when respondent was aged 14</td>
</tr>
<tr>
<td>pasoc90_cc</td>
<td>Standard Occupational Classification 1990/2000/2010 of father's job when respondent was aged 14 (xwavedat)</td>
</tr>
<tr>
<td>pasoc00_cc</td>
<td></td>
</tr>
<tr>
<td>pasoc10_cc</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Household-level characteristics</th>
<th>Variable name</th>
<th>Short description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>w_hhsiz</td>
<td>number of individuals in the household (w_hhresp)</td>
</tr>
<tr>
<td></td>
<td>w_nkids_dv</td>
<td>number of children aged under 16 in the household (w_hhresp)</td>
</tr>
<tr>
<td></td>
<td>w_hhtype_dv</td>
<td>household composition (w_hhresp)</td>
</tr>
<tr>
<td></td>
<td>w_tenure_dv</td>
<td>housing tenure (w_hhresp)</td>
</tr>
<tr>
<td></td>
<td>w_fihhmnet1_dv</td>
<td>net household monthly income (w_hhresp)</td>
</tr>
<tr>
<td></td>
<td>w_ieqmoecd_dv</td>
<td>household income conversion factor (modified OECD scale) (w_hhresp)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topic domain</th>
<th>Variable name</th>
<th>Short description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifiers</td>
<td>pidp</td>
<td>unique cross-wave person identifier</td>
</tr>
<tr>
<td></td>
<td>w_hidp</td>
<td>within-wave household identifier</td>
</tr>
<tr>
<td></td>
<td>w_pno</td>
<td>person number in the household</td>
</tr>
</tbody>
</table>

| Locality     | w_country     | Country in the UK |
|              | w_gor_dv      | Region in the UK |
|              | w_urban_dv    | Urban or rural area, derived |

<table>
<thead>
<tr>
<th>Demographic characteristics</th>
<th>Variable name</th>
<th>Short description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>w_age_dv</td>
<td>age at time of interview, derived</td>
</tr>
<tr>
<td></td>
<td>ukborn</td>
<td>whether born in England, Scotland, Wales, Northern Ireland or outside UK</td>
</tr>
<tr>
<td></td>
<td>bornuk_dv</td>
<td>whether born in the UK</td>
</tr>
<tr>
<td></td>
<td>w_sex_dv</td>
<td>sex, derived</td>
</tr>
<tr>
<td></td>
<td>w_marstat</td>
<td>marital status</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>w_jbstat</td>
<td>employment status</td>
<td></td>
</tr>
<tr>
<td>racel_dv</td>
<td>ethnic group (self-reported)</td>
<td></td>
</tr>
<tr>
<td>w_nchild_dv</td>
<td>number of children in the household. Includes natural children, adopted children and stepchildren, under the age of 16</td>
<td></td>
</tr>
<tr>
<td>ethn_dv</td>
<td>ethnic group - derived from multiple sources</td>
<td></td>
</tr>
</tbody>
</table>

**Socio-economic characteristics**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>w_hiqual_dv</td>
<td>highest qualification</td>
</tr>
<tr>
<td>w_jbsoc00_cc</td>
<td>Standard Socio-economic Classification (SOC 2000) of current job. Condensed three-digit version</td>
</tr>
<tr>
<td>w_jbsoc08_dv</td>
<td>current job: Eight Class NS-SEC</td>
</tr>
<tr>
<td>w_jbsoc05_dv</td>
<td>current job: Five Class NS-SEC</td>
</tr>
<tr>
<td>w_jbsoc03_dv</td>
<td>current job: Three Class NS-SEC</td>
</tr>
<tr>
<td>w_fimnnet_dv</td>
<td>own total estimated net monthly income</td>
</tr>
<tr>
<td>w_fimnlabnet_dv</td>
<td>own total estimated net monthly income from labour</td>
</tr>
</tbody>
</table>

**Health**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>w_sf12mcs_dv</td>
<td>SF-12: mental health component score, derived</td>
</tr>
<tr>
<td>w_sf12pcs_dv</td>
<td>SF-12: physical health component score, derived</td>
</tr>
<tr>
<td>w_health</td>
<td>long-standing illness or disability</td>
</tr>
<tr>
<td>w_scsghq1_dv</td>
<td>subjective wellbeing (GHQ): Likert</td>
</tr>
<tr>
<td>w_scsghq2_dv</td>
<td>subjective wellbeing (GHQ): Caseness</td>
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<td>father's ethnic group</td>
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<tr>
<td>pacob</td>
<td>father's country of birth</td>
</tr>
</tbody>
</table>
Additional datasets
The datafiles released under SN6614 and listed here, represent the data collected in the main survey interviews. In addition to this, data is collected from Understanding Society survey participants for specific purposes in separate surveys: Nurse health assessment and genetics data and the Covid-19 survey. These data can be linked to the main survey data using the unique cross-wave individual identifier, PIDP.

Information about current and past histories on specific events such as employment, jobs, and (marital) partnerships is collected during the main survey interviews and the aim is to collate these and provide event history datafiles. Currently the partnership history file is available, the others will be made available in the future. These data can be linked to the main survey data using the unique cross-wave individual identifier, PIDP.

Geographical data linkage
Residential addresses of main survey participants are collected and using that different geographical locator variables are made available which can be used to link these data to external geographically linked datasets such as the Census. These data can be linked to the main survey data using the wave specific unique household identifiers, w_HIDP. To know more about these and how to access these files see here.

Administrative data linkage
Administrative Data Linkage allows researchers to analyse information obtained from administrative data together with Understanding Society. Data can only be linked if Understanding Society participants give their informed consent. To know more about these and how to access these files see here.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>paedqf</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Household-level characteristics</th>
<th>w_hhs</th>
<th>number of individuals in the household</th>
</tr>
</thead>
<tbody>
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<td>number of children aged under 16 in the household</td>
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<tr>
<td></td>
<td>w_ieqmoecd_dv</td>
<td>household income conversion factor (modified OECD scale)</td>
</tr>
</tbody>
</table>
Interviewer characteristics
Some basic demographic information (sex, ethnicity, years of experience, age) about Understanding Society interviewers is provided by the fieldwork agency and this information can be linked to the main survey data using (scrambled) interview IDs. In addition to this, Wave 1 interviewers participated in a survey which collected information on more subjective measures, attitudes and opinions. You can find this data here.

International Comparisons
Understanding Society is part of a world-wide family of household panel studies. Researchers interested in comparing international data can use CNEF files to find comparable variables across surveys.

The Cross National Equivalent File (CNEF) is prepared by the Department of Human Sciences at the Ohio State University and contains the equivalently defined variables for Understanding Society, the Household Income and Labour Dynamics in Australia (HILDA), the Korea Labor and Income Panel Study (KLIPS) (new this year), the Panel Study of Income Dynamics (PSID), the Russia Longitudinal Monitoring Survey (RLMS-HSE) (new this year), the Swiss Household Panel (SHP), the Canadian Survey of Labour and Income Dynamics (SLID), and the German Socio-Economic Panel (SOEP). International comparisons are possible via different sources; information about these can be found here.

These cross national data are designed to allow cross national researchers not experienced in panel data analysis to access a simplified version of these panels, while providing experienced panel data users with guidelines for formulating equivalent variables across countries. Most importantly, the equivalent file provides a set of constructed variables (for example pre- and post-government income and United States and international household equivalence weights) that are not directly available on the original surveys.

Researchers can apply for CNEF files via the CNEF website. You can read more about the access procedure here.
Using the British Household Panel Survey (BHPS)

The British Household Panel Survey began in 1991 and is the base on which Understanding Society is built.

The Wave 1 panel consisted of around 5,500 households and 10,300 individuals drawn from 250 areas of Great Britain. Additional samples of 1,500 households in each of Scotland and Wales were added to the main sample in 1999, and in 2001 a sample of 2,000 households was added in Northern Ireland, making the panel suitable for UK-wide research. As this was a longitudinal household study, households were sampled and then individuals living in these households were followed wherever they moved to within the UK. All 16+ year old household members were eligible for adult interviews, while from Wave 4 onwards, all 11-15 year olds were eligible for youth self-completion questionnaires. Interviews were conducted face-to-face with a few by proxy interviews and a few by telephone.

As part of wave 18, BHPS participants were asked if they would consider joining the new, larger and more wide-ranging survey Understanding Society. Almost 6,700 of just over 8,000 BHPS participants invited to join did so. The continuing sample from the British Household Panel Survey (BHPS) joined the Understanding Society sample in Wave 2. The cases in the two samples can be distinguished using the variable w_hhorig. The variable also allows the identification of different components of the BHPS sample (see below). This will allow continued research on changes in people’s lives from 1991.

The sample design, data structure, interview pattern, following rules are very similar across the two surveys. The core questions included in BHPS were included in the new Study to allow researchers to study trends and changes in people’s lives starting from 1991. There are, however, a few differences in the data collected. New topic areas were included such as more questions related to health and wellbeing, ethnicity and migration, social networks, and topical issues such as the Olympics and EU referendum.

Harmonised or stand-alone BHPS

To use the long run of data collected from BHPS sample members along with the data collected as part of Understanding Society, users are advised to use the harmonised BHPS, which is included in the Understanding Society data release. If using the stand-alone BHPS (SN5151) then they will have to undertake the harmonisation exercise themselves.

Both options facilitate linking cases across studies using the unique UKHLS person identifier pidp which has been added for all BHPS sample members in the BHPS data files (i.e., irrespective of whether they have ever participated in the UKHLS).

There are advantages in using the harmonised BHPS files: all variables that are equivalent in both studies have been renamed so they have the UKHLS name and efforts have been made to assure that the information content is identical. If the name of a variable was the same but the content was not identical then the BHPS variable received the suffix _bh. All BHPS variables with names that do not correspond to any variable in UKHLS are left as is.
The same convention was followed for data files. The xwavedat files from both studies have been merged and all information that is available for cases from both samples has been harmonised. In this harmonised version, all BHPS Wave 1-18 file names and variable names have a prefix “bw_”.

Harmonised BHPS data are documented in the Understanding Society online data documentation, including the variable occurrence stretching across both studies removing the absolute requirement to jump across study documentations.

Users should note that the harmonisation project is ongoing and a number of data aspects that could be harmonised in principle have not yet been harmonised due to the complexity of the task and time constraints. More detail about the harmonised BHPS is provided in the designated Understanding Society harmonised BHPS User Guide.

If using the stand-alone, non-harmonised, BHPS data (SN5151) it is important to be aware that variable names in the BHPS dataset have slightly different formats:

- They are limited to eight characters
- There is no underscore separating the wave prefix from the main part of the name, so the indresp file for Wave 1 is named aindrep and sex variable for Wave 1 is named asex.
- Derived variables, imputation flags, weights and other special variables are not distinguished by “_dv” or “_if” suffixes
- As this is the stand-alone non-harmonised version variables with same names as in the UKHLS files may not have the same meaning

Tips for analysts:

Both samples can be used for cross-sectional and longitudinal analyses. For the appropriate weights in the harmonised version refer to the Weighting Section. For the stand-alone version (SN 5151) refer to the Weighting Section V.A5-1 in the BHPS user guide.

If you want to use the harmonised BHPS across the 25+ years of data available in the BHPS sample, you need to consider how to treat Wave 2 of Understanding Society. As the BHPS sample was included in Wave 2 of Understanding Society, you could treat that as Wave 19. But the interviews in this wave were conducted from January to December 2010 while interviews for BHPS Wave 18 were conducted from September 2008 to December 2009 the interval between these two interviews may not be around 12 months for everyone.
Questionnaire Content
Understanding Society covers a wide range of topics: education, employment, family and households, income, Health and wellbeing, finance, housing, expenditure and deprivation, politics and social attitudes.

The survey also collects demographic information (age, sex, ethnic group, country of birth), family background information (e.g., parents’ occupations, parents’ grand parents’ countries of birth), attitudes and values (ethnic identity, political beliefs and support, gender attitudes etc).

A core set of questions are asked every year, while some are asked every few years as these are not expected to change every year. In addition to these there are questions that are asked only if the respondent has experienced a particular event such as childbirth, or reached the age of 45, and so on. The long-term content plan summarises the pattern that has been collected or planned.

Health and Biomarkers
Understanding Society asks a wide range of questions on health, wellbeing and biomarkers. As part of the Main Study, from Wave 1 onwards participants are asked a number of questions about their general health (physical and mental), healthy & unhealthy behaviours, hospitalisations and so on. In Wave 2 and Wave 3 adult participants received a follow-up health assessment visit from a registered nurse. A range of bio-medical measures were collected from around 20,000 adults, which included blood pressure, weight, height, waist measurement, body fat, grip strength and lung function. Blood samples were also taken at these visits and biomarker data is available including cholesterol and triglycerides, Glycated haemoglobin HbA1c, and so on. Further details on using this health data and genetics and epigenetics data are on the Understanding Society website.

Ethnicity and immigration
The Ethnic Minority Boost Sample (EMBS) and Immigrant and Ethnic Minority Boost Sample (IEMBS) were introduced at Waves 1 and 6 to allow research on different ethnic groups and immigrants. While all participants answer the same basic questionnaire, a subsample comprising mainly ethnic minorities and immigrants living in Great Britain are asked an additional five minutes of questions along with a comparison sample of 500 households from the general population. These are questions of particular relevance to research on ethnicity and migration. Note, the basic questionnaire also includes ethnicity-related questions related to issues such as ethnic group, national identity, own, parents' and grandparents’ countries of birth and childhood language. Visit the long term content plan for details and explore the Ethnicity and immigration research User Guide.
Questionnaires, questionnaire modules and Index Terms

Questionnaires

Questionnaires can also be found on the documentation pages of the Understanding Society website. These are also included in the zipped folder when you download the data from the UK Data Service. There are household and individual questionnaires and the adult and youth self-completion instruments. These are an important source of information about the wording of individual questions, who was asked, and what questions precede and follow.

Most of the interview is conducted with a computer-assisted personal interview (CAPI) and from onwards Wave 8 also via computer-assisted web interview (CAWI). These instruments govern the flow of questions and recording of answers, but it is not convenient for documentation. On the Study website, we present the questionnaire in PDF format. The text within the questionnaire can be searched for specific words, such as variable names or words in questions. These pdf questionnaires include all the different questionnaires except for the youth questionnaires (all waves) and adult self-completion questionnaires for Waves 1 and 2. The PDF files for the adult self-completion questionnaires for Waves 1 and 2 as well as the youth questionnaires (all waves) correspond to the way they appeared to participants (with the addition of annotated variable names).

Questionnaire modules

The principal adult questionnaires are organised into modules. Modules can be searched for in the online documentation system. About half of the questionnaire content is collected annually, with additional modules collected at different intervals, often every two, three or four years. The paper self-completion questionnaires carried at Waves 1 and 2 were not divided into modules as these were separate standalone documents. From Wave 3 onward, the self-completion content was carried as CASI modules, where the interviewer would turn the laptop towards the participant who would answer the questions using the laptop by themselves.

Instruments and survey materials for Waves 1-7 were translated into multiple languages: Welsh, Arabic, Bengali, Cantonese, Gujarati, Punjabi (in Urdu and Gurmukhi scripts), Somali and Urdu. Translated documents can be requested by email from info@understandingsociety.ac.uk. For the new Immigrant and Ethnic Minority Boost, introduced in Wave 6, instruments and survey materials were also translated into Polish, Portuguese and Turkish. From wave 8 onwards the survey instruments and materials were translated into Welsh, Bengali, Gujarati, Punjabi (in Urdu and Gurmukhi scripts), Urdu, Polish, Portuguese and Turkish for everyone.

Index terms

All variables have been linked to one or more Index Terms. This makes it easier to find variables. For example, if you are interested in researching childcare you can click on the Index Term “childcare” and see all the variables associated with it.

Finding variables

Understanding society is a vast survey including thousands of questions and variables associated with them. Find the variables you need for your research by using the Variable search facility. Search by variable name, by data file or by index term or question module. This facility provides links between questions, variables and data files. Our list of key variables for the analysis of individual
response data may also help you.

**Reading the Questionnaire**

Find the variables you need for your research by using the variable search facility. Search by variable name, by data file or by index term. This facility provides links between questions, variables and data files. Our list of key variables for the analysis of individual response data may also help you.

The key to understanding the Study is to read the questionnaires. It is complex but the benefit of reading the questionnaire is that it will help you understand who is eligible for a question, which questions follow and precede that question, the structure of the data and its use.

The questionnaire tells you what to expect, for example, it will tell you why there are missing cases and why multiple choice questions return multiple answers. Multiple variables which seem to be asking the same thing are explained in the wording on the questionnaire and highlight the subtle differences. Note the variable names in the questionnaire do not contain the wave prefix that is applied in the data files.

**Example of household questionnaire (this variable is also in the BHPS)**

<table>
<thead>
<tr>
<th>Hsownd. House owned or rented</th>
<th>Variable name and Variable label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source BHP3</td>
<td>This variable has also been in the BHPS</td>
</tr>
<tr>
<td>Text</td>
<td>Does your household own the accommodation outright, is it being bought with a mortgage, is it rented or does it come rent-free?</td>
</tr>
<tr>
<td>Interviewer Instruction</td>
<td>The text is what the interviewer reads</td>
</tr>
<tr>
<td>Options</td>
<td>Value labels</td>
</tr>
<tr>
<td>1</td>
<td>Owned outright</td>
</tr>
<tr>
<td>2</td>
<td>Owned/being bought on mortgage</td>
</tr>
<tr>
<td>3</td>
<td>Shared ownership (part-owned part-rented)</td>
</tr>
<tr>
<td>4</td>
<td>Rented</td>
</tr>
<tr>
<td>5</td>
<td>Rent free</td>
</tr>
<tr>
<td>97</td>
<td>Other</td>
</tr>
<tr>
<td>Use</td>
<td>Ask Hsownd</td>
</tr>
<tr>
<td>Modules</td>
<td>Household_w1. Household Questionnaire</td>
</tr>
</tbody>
</table>
Example of question with looping from individual questionnaire

**Breastfed.**

**Variable name and Variable label**

**Source**
UKHLS

**Text**
Did you breastfeed [NAME], even if only for a short time?

**Options**
1. Yes
2. No
3. Currently breastfeeding (applies for children < 5 in household only)

**Use**
Ask Brefed

**Modules**
Module Fertilityhistory_w1. Fertility history module

**Sections**
Section 1. Individual interview

**Who is eligible to asked this question**
- If (LNPStat = 1) # Parent of biological child
- And if (LCHlv = 1) # Child resident
- And if (resp is Biological Mother Of Resident Child) # Resp is biological mother of resident child
- And if (resp is Biological Mother Of Resident Child & Child < 16) # Resp is biological mother of resident child under 16

Example of question with multiple choices resulting in multiple variables

**Household_w11.Cduse.**

**Variable name and Variable label**

**Source**
BHPS (revised)

**Version**
1.0

**Scripting Notes**
- Code 99 is exclusive
- The response items on the showcard should be numbered consecutively but the data need to be back-coded to the coding frame specified here at the data delivery stage.

**Text**
Could you please tell me which of the following items you have in your (part of the) accommodation. Just tell me the numbers that apply.

**Interviewer instruction**
- IF COMBINED TV/DVD/BLU-RAY CODE 1 & 2
- IF COMBINED WASHER/DRIER CODE 6 & 7
- CODE ALL THAT APPLY

**Showcard**
TBC

**Options**
1. Television set
2. DVD/Blu-Ray player
5. Deep freeze or fridge freezer (EXCLUDE: fridge only)
6. Washing machine
7. Tumble drier
8. Dish washer
9. Microwave oven
12. Landline telephone
13. Mobile telephone (anyone in household)
96. Or none of the above?
Questionnaire routing and missing values
This video gives an overview of questionnaire routing and missing values in Understanding Society.

Changes to the Questionnaire
All survey instruments are tested so that any issues with question wording and routing, interview flow and timings can be identified and fixed before the survey is delivered. Instruments from other surveys are used where appropriate.

Within a Wave
At the end of the first six months of data collection in Wave 1, multiple variables were dropped because of the length of the interview, e.g., cutting of the employment history module. At the same time other modifications were made, e.g., in question format.

Across Waves
There sometimes are changes to the questionnaire across waves. For instance, when routing errors only became known after data collection had been completed (e.g., in Wave 1 only the proxy interview included the question for whether or not a respondent had access to a car (w_drive) and from Wave 2 onward this information is available for adult and proxy respondents). Another example is the SF 12 which was asked in the main interview with adults in Wave 1 but was shifted to the adult self-completion in Wave 2.

The switch in mode from paper self-completion to the CASI on the laptop in Wave 4 meant that for some questions the response options were presented differently between waves. For example, response options were arrayed horizontally in the paper self-completion (e.g., satisfaction questions), and vertically in CASI. There is some evidence that the change in the way the response options were presented may affect how some people respond to the question (Budd, Gilbert et al. 2012).

Other fieldwork materials such as showcards, advance letters and interviewer instructions are also on the website.
Derived variables: Income and other

Income Variables
The income section provides a streamlined introduction to the Understanding Society derived income variables and is organised as: Individual level income variables; household level income variables and equivalence scales; household level deductions (housing costs local taxes and price indices); imputation flags and top-coding of income and investment variables.

*Understanding Society* collects detailed information each wave on personal income. All individuals aged 16 or more are asked to report:

- earnings from main and second jobs
- social security benefits
- state and private benefits
- private transfers and investment income

Derived from these survey reports of individual income from different sources, and included in the publicly available datasets, are a number of variables corresponding to different income concepts. These can be measured at the individual or household level, net or gross, or with or without household level deductions. Examples include: gross individual income, individual earnings, gross household income and net household income.

Most analysis of standards of living, income dynamics and poverty and low income tend to use net or disposable household income after taxes and other deductions i.e., the income that people have available for consumption or saving. Users interested in performing analysis of net household income after taxes should refer to the section on household income estimates (and in particular the variable *w_fihhmnett3_dv*). In deriving net incomes, UKHLS follows the approach used by the Department for Work Pensions (DWP) for their Households Below Average Income (HBAI) datasets. UKHLS household income variables are now used as the data source for official UK statistics on income dynamics by the DWP. This section also provides guidance on how to equivalise household income variables to take account of differences in household size and composition and guidance on how to make household incomes comparable across time using price indices.

Tips for analysts:
It's important to know what income variables are available but also to know how they were constructed. A comprehensive guide to using the income data is discussed in our working paper *Understanding Society and its income data*, which we recommend all income users consult.

Individual Income variables
This section summarises the individual or personal income derived variables. Individual income estimates are included in the individual level data files, *w_indresp*. 
Total estimated net monthly income is included in the variable \( w_{fimnnet_dv} \) where “net” refers to net of taxes on earnings and national insurance contributions. It is constructed as the sum of the six income components described below. Gross monthly income, \( w_{fimngrs_dv} \), is also estimated from the individual income components described below except that the earnings components are gross, that is, before taxes and National Insurance contributions are deducted and tax is deducted from non-pay income (rental income), which is assumed to be reported gross. The associated imputation flag for both variables is \( w_{fimngrs_if} \).

The individual level data files contain estimates of the six components of individual net income. These are as follows:

**Component 1: Labour income (\( w_{fimnlabnet_dv} \))**

This is the sum of three earnings components: net usual pay (\( w_{paynu_dv} \)); net self-employment income (\( w_{seearnnet_dv} \)); net pay in second job (\( w_{j2paynet_dv} \)).

**Component 2: Miscellaneous income (\( w_{fimnmisc_dv} \))**

This includes receipts reported in the income data file where \( w_{ficode} \) equals [24] “educational grant (not student loan or tuition fee loan)”, [27] “payments from a family member not living here”, or [38] “any other regular payment (not asked in Wave 1)”. This is assumed to be reported net of tax.

**Component 3: private benefit income (\( w_{fimnprben_dv} \))**

This includes receipts reported in the income data file where \( w_{ficode} \) equals [25] “trade union / friendly society payment”, [26] “maintenance or alimony”, or [35] “sickness and accident insurance”. This is assumed to be reported net of tax.

**Component 4: investment income (\( w_{fimninvnet_dv} \))**

This includes receipts reported in income record where \( w_{ficode} \) equals [4] “a private pension / annuity”, [28] “rent from boarders or lodgers (not family members) living here”, or [29] “rent from any other property”. To this is added the monthly income from savings and investments, estimated as the annual income from savings and investments (\( w_{fiyrinvinc_dv} \)), divided by 12. All these sources are assumed to be reported net except for rent from other property which is assumed reported gross, and a tax liability is deducted.

**Component 5: pension income (\( w_{fimnpen_dv} \))**

This includes receipts reported in the income data file where \( w_{ficode} \) equals [2] “a pension from a previous employer”, or [3] “a pension from a spouse’s previous employer”. This is assumed to be reported net of tax.

**Component 6: social benefit income (\( w_{fimnsben_dv} \))**

This includes receipts reported in income record where \( w_{ficode} \) equals [1] “state retirement (old age) pension”, [5] “a widow’s or war widow’s pension”, [6] “a widowed mother’s allowance / widowed parent’s allowance”, [7] “pension credit (includes guarantee credit & saving credit)”,

This is assumed to be reported net of tax.

Personal gross monthly income can be decomposed into three subcomponents: labour income (w_fimnlabgrs_dv), equal to the sum of gross usual pay (w_paygu_dv), self-employment pay (w_seearngrs_dv) and gross second-job pay (w_j2pay_dv); annual income from savings and investments (w_fyinvinc_dv)/12; and monthly income from benefits and other sources (w_fibenoth_dv).

Less commonly, a researcher may be interested in the individual components of unearned income, such as individual benefit amounts. These are recorded in a separate data file (w_income). This file lists all reported unearned sources. There may be multiple receipts of income from the same source in this file. For example, a respondent may have multiple pensions from a previous employer. Multiple receipts of a given income source are summed. These sums are recorded into the variable w Frmthimp_dv. Therefore, for a given income source, w Frmthimp_dv is equal to the total value of all receipts from that source for the first income receipt, it is set to zero for the subsequent receipts. The same income source may get reported by more than one member of the household. To avoid double counting when constructing household income totals, the derived variable w Frtkeep_dv identifies which one should be included in the household total. Note, the w_income file does not include individual income amounts for non-respondents in responding households.

Household income variables

This section summarises the household income derived variables. Household-level income measures are included in the household level data files, w_hhresp.

In order to compare incomes for households of different size and composition, each net household income value should be adjusted by an equivalence scale. The public release files contain values of the OECD-modified equivalence scale for each household (w_ ieqmoecd_dv). Equivalisation can be performed by dividing each household’s income value by the equivalisation value provided.

At the household level, w_fihhmnet1_dv is the net household monthly income. It is the sum of net monthly incomes from all household members (including proxies and within household non-respondents, see w_fimnnet_dv). It can be decomposed into the six subcomponents: net labour income (w_fihhmnlabnet_dv), miscellaneous income (w_fihhmnmisc_dv), private benefit income (w_fihhmnpriben_dv), investment income (w_fihhminv_dv), pension income (w_fihhmnpen_dv), and social benefit income (w_fihhmnsben_dv). The six subcomponents map to the six
subcomponents of individual net income described in more detail in the Individual Income subsection.

The variable \( w_{fihmngrs\_dv} \) is total household gross income. It is the sum of gross monthly incomes from all household members (including proxies and within household non-respondents, see \( w_{fimngrs\_dv} \)). The variable \( w_{fihmnlabgrs\_dv} \) is gross household labour income.

Income components are imputed for all proxy and within household non-respondents. Hence in Understanding Society household income estimates are available for all households – including where some household members non-respond. Users may decide to drop cases based on such imputed data but they would then need to adjust their results to take into account the consequent sample selection i.e. their results would no longer be representative of the UK population. Details of how to identify imputed cases are provided in the imputation flags section.

**Housing costs**

In the UK a distinction is sometimes made between incomes before and after housing costs, where housing costs usually include rent, mortgage payments, structural insurance premiums and local water charges. To allow for the computation of income after housing cost, the Understanding Society has a set of such variables that focus on rent and mortgage payments.

The final housing costs derived variables are as follows: For renters, \( w_{rentgrs\_dv} \) is the computed monthly gross rent i.e., including any housing benefit received. \( w_{rent\_dv} \) is the monthly rent net of housing benefit (equal to \( w_{rentgrs\_dv} \) where no housing benefit is received). Missing values are imputed (see below), and, where the household reports 100% housing benefit (in which case no rent value is reported), the value is set equal to housing benefit reported in the individual questionnaire and a value imputed if not reported there. The variable \( w_{rentg\_if} \) is an imputation flag for \( w_{rentgrs\_dv} \).

In some cases, a reporting inconsistency arises where housing benefit is implicitly reported in the household questionnaire (as the difference between gross and net rent), and it differs from what is reported in the individual questionnaires. The main income variables of the previous sections take the individual questionnaire reports to be correct and so they do not include implicitly reported housing benefit from the household questionnaire. When working with housing costs variables, as they imply an amount of housing benefit, it is necessary to adjust the household income totals to include it. So that data users can adjust the household income totals, an adjustment factor (\( w_{hbadjust\_dv} \)) is included in the public release files. For a given household with implied housing benefit in the household questionnaire, this factor is equal to housing benefit reported in the household questionnaire minus the sum of housing benefit reported in the individual questionnaires. Household income totals can therefore be adjusted by adding the adjustment factor to the total household income. Gross household income has already been adjusted in the variable \( w_{fihhmngrs1\_dv} (=w_{fihhmngrs\_dv} + w_{hbadjust\_dv}) \).

For those paying mortgages, \( w_{xpmg\_dv} \) is monthly total mortgage payments including imputation. The variable \( w_{xpmg\_if} \) is the imputation flag for this variable. Most definitions of housing costs for purposes of measuring income after housing costs seek to exclude repayments of capital included in mortgage payments and only include interest payments. \( w_{xpmgint\_dv} \) is the estimated interest within \( w_{xpmg\_dv} \). For short period mortgages it is based on data on current interest rates times
the outstanding principal and for mortgages with more than two years to run based on a standard repayment mortgage formula.

The above variables for rent and mortgages are combined in the following variables:
\( w_{\text{houscost1}} \) is total housing costs including capital repayments i.e., \( w_{\text{rentgrs}} + w_{\text{xpmg}} \). \( w_{\text{houscost2}} \) excludes capital repayments, i.e., \( w_{\text{rentgrs}} + w_{\text{xpmgint}} \).

The imputation of rent and mortgage payment assumes that variations over time are small and where other reports at the same address are available in other waves, missing values are set equal to the median of these reports. Where no report at that address is available, a single value is imputed based on characteristics of the accommodation and household (including region, number of bedrooms, gross income, household composition and age, rural/urban indicator) and applied to all relevant waves.

**Local taxes**
Council tax is a UK local tax that is often deducted from gross household income in poverty analysis. In Understanding Society, council tax liability is currently estimated for Great Britain, though not for Northern Ireland. Council tax liability (net council tax) is included in the variable \( w_{\text{ficountax}} \). It is equal to gross council tax applying any single person discount and then subtracting any council tax reduction. The variable \( w_{\text{fihhmmnet3}} \) (only available in Special License data) is equal to \( w_{\text{fihhmmnet1}} \) less council tax liability and any council tax reduction. \( w_{\text{fihhmmnet4}} \) (only available in Special License data) is equal to \( w_{\text{fihhmmnet3}} \) and adjusted for housing benefit reported in the household questionnaire.

**Price indices**
In order to compare household incomes in different months and years, each household income value should also be adjusted by a price index to a common time period. In the publicly released files, none of the Understanding Society income variables have been adjusted to account for price changes over time.

Many price indices are publicly available including the Consumer Price Index (CPI) and Retail Price Index (RPI) from the Office for National Statistics. The price index used in official income statistics – the Consumer Price Indices series excluding rents, maintenance repairs and water charges - is freely available for download[1] (Tab 1a is the “after housing costs” series i.e. CPI excluding rents, maintenance repairs and water charges. Tab 1b is the “before housing costs” series i.e. CPI excluding MIPs, ground rent and dwellings insurance.)

The value of a price index can easily be merged to a household’s month of interview (\( w_{\text{intdatey}} \), \( w_{\text{intdatem}} \)) in each survey year, so that necessary adjustments to incomes can be performed.

**Imputation flags and top-coding of income variables**
Imputation flags help you identify derived income values that have been imputed. Imputation is used where a respondent is either missing an individual interview (unit non-response) or does not provide an answer to a particular income question (item non-response). Exact details of the imputation methods used in Understanding Society can be found in "Understanding Society and its income data".
For each income variable for which amounts are imputed there is a separate imputation flag variable with a suffix “_if” instead of “_dv” indicating whether the variable is imputed. In most cases the flags take the value 1 if imputed and 0 if not, but in the case of the following variables it shows the proportion of total income imputed: \textit{w\_fimngrs\_if}, \textit{w\_fibenothr\_if}, and \textit{w\_fihhmngrs\_if}.

**Top coding of income and investment variables**

Because extremely high incomes are rare, releasing this information can increase the risk of disclosure. So, reported and imputed income and investment amounts have been top-coded in order to prevent disclosure of respondents. Individual earnings and self-employment profit as well as investment income and rent have been top-coded at £100,000 per annum or its monthly equivalent less tax and national insurance for net incomes.

Derived total personal income and household income are computed using the top-coded values and there is a set of flag variables indicating whether the computed sum variables include top coded amounts.

The flag variables on the \textit{w\_indresp} data file are:

\textit{w\_fimngrs\_tc}, \textit{w\_fimnlabgrs\_tc}, \textit{w\_fimnlabnet\_tc}, \textit{w\_fiyrinvinc\_tc}, \textit{w\_fibenothr\_tc}

The flag variables on the \textit{w\_hhresp} data file are:

\textit{w\_fihhmngrs\_tc}, \textit{w\_fihhmlabgrs\_tc}

The \textit{w\_income} data file includes the flag \textit{w\_frmnth\_tc}.

The following are top-coded at +/- £8,333 per month or its net equivalent:


The variable \textit{w\_fiyrinvinc\_dv} is top coded at £100,000 per annum.

Data from the investment income module in Wave 4 (\textit{d\_nvestamtrt1}, \textit{d\_nvestamtrt2}, \textit{d\_nvestamtrt3}, \textit{d\_nvestamtrt97}) have been top-coded at £1,000,000.

Access to income and investment data without top-coding is available in the Special License version of the data \textit{study number 6931}. 
Other derived variables

Derived variables are variables that are computed from one or more variables. Some are computed during the interview to control the routing within the questionnaire and appear in the context of the relevant module. Others are computed post-field for the purpose of analysis and are positioned last in the data files so they can be easily identified.

Some derived variables flag whether or not a certain characteristic is true for a study member. \texttt{w\_jbft\_dv} is a flag for whether or not a respondent has a full-time job and \texttt{w\_nemp\_dv} counts the number of employed people in the household, while \texttt{w\_mnpid} points to the cross-wave person identifier of the respondent’s biological mother.

A data file may have alternative versions of a derived variable, such as those which point to others in the household, for example, \texttt{w\_hgbiom} and \texttt{w\_mpno} for the person number of the respondent’s biological mother in the household. While \texttt{w\_hgbiom} has been computed based on information collected during the interview, \texttt{w\_mpno} has been computed post-field after the information collected in the household grid has undergone extensive data cleaning.

Variables that are produced post-field, are clearly marked in the data by suffixes: UKHLS weights are shown by the suffixes “\_lw” or “\_xw”; most derived variables are shown by the suffix “\_dv”, and pointers to other members in the household typically end on “\_pno” or “\_pid”. All variables ending on “\_pid” contain the UKHLS person identifier \texttt{pidp}, not the original BHPS person identifier.

Information collected using dependent interviewing is merged with the respective information collected using independent interviewing (e.g., when a respondent did not provide the information in the previous interview, or when they are new to the Study) and stored in the data file under the variable name used for the latter. See, for example, the socio-economic classification of the current job (\texttt{w\_jbsoc00}) and the standard industrial classification (\texttt{w\_jbsic07}).

We use look-up files between SOC 2000 and other classifications to derive additional occupational classifications. Users may apply to access the Special Licence version of Understanding Society to access non-condensed versions of these codes which will allow them to derive additional classifications (such as EGP using the Stata command –isko-).

Information about how the derived variable is produced is shown in the notes for derived variables in the detailed variable view of the online documentation. The view provides descriptive statistics and, in the Origin field, lists of the variables used in the computation of the derived variable. For variables that were computed during the interview, additional information is available in the questionnaires.

**Tips for analysts:**

When working with the data, analysts should consult the description of the (derived) variables listed under the Index Term “Derived variables” in the Online Dataset Documentation.
Weighting guidance

Understanding Society has a complex design. The dataset allows a vast array of research across different disciplines, topics and population sub-groups.

This section of the user guide provides advice on the correct weight to use and the sample design variables (for clustering and stratification) provided with the data which will allow you to estimate standard errors correctly.

This video provides an introduction to choosing and using weights in Understanding Society.

You can also refer to the weighting FAQs.

Why use weights?
The UKHLS dataset is designed to be used with weights.

The weights adjust for unequal selection probabilities, differential nonresponse, and potential sampling error. Unweighted analysis does not correctly reflect the population structure as some groups may be over-represented in the sample by design (e.g., over sampling of ethnic minorities in the EMBS) or due to non-response as certain types of people are more likely to respond than others.

If a variable or characteristic differs by these groups which are over/under-represented in the sample, then estimates of that variable based on this sample will be biased. For example, if the wages of some ethnic minority groups are lower in the population than the white British population and as there is a higher proportion of ethnic minorities in this sample than in the population, unweighted estimates of UK wages will be downwardly biased. A weighted analysis will adjust for the higher sampling fraction in Northern Ireland and for different probabilities of selection in the EMB and IEMB samples, as well as for response rate differences between subgroups of the sample. An unweighted analysis does not correctly reflect the population structure unless the assumptions below are true. It is suggested that researchers publishing or presenting unweighted estimates make these assumptions explicit.

If no weighting is used, an analysis of Understanding Society data assumes that all estimated parameters (means, measure of dispersion, model coefficients, etc.) do not differ between:

- Northern Ireland and the rest of the UK
- People of ethnic minority origin and people of white British origin
- Recent immigrants to UK and people who have stayed in the country longer
- People who live at an address with more than three dwellings or more than three households and those who don’t
- People who responded at Wave 1 and those who did not
- People who continued to respond at later waves and those who did not
- People who responded to each particular instrument used in the analysis (individual interview, self-completion questionnaire etc.) and those who did not, see Lynn, Burton et al. (2012)
An unweighted analysis of the former-BHPS sample assumes that estimated parameters do not differ between:

- Each of England, Scotland, Wales and Northern Ireland
- People who live at an address with more than three dwellings or more than three households and those who don’t
- People who responded at Wave 2 of Understanding Society in 2010 and those who may have become non-respondents at any time since Wave 1 of BHPS in 1991
- People who keep responding in later waves of Understanding Society and those who stopped responding at any point of time between 1991 and the last year in your analysis

We therefore strongly suggest conducting weighted analyses of the Understanding Society data.

Weights are constructed by combining (i) design weights which adjust for unequal selection or sampling fraction and (ii) non-response weights which adjust for differential non-response and attrition at various stages (household level, within household at individual level, whether adult respondent completed self-completion questionnaire or not).

Selecting the correct weight
Selecting the correct weight for your analysis.

Separate sets of weights are provided for:

- The combined GPS and EMBS (from Wave 1)
- The former BHPS sample (from 1991 and 2001)
- The combined GPS, EMBS and BHPS (from Wave 2)
- The combined GPS, EMBS, BHPS and IEMBS (from Wave 6)

The available sets of weights are not identical for these four analysis bases, reflecting differences in data collection. For any proposed analysis, weights should be selected carefully. Given the complexity and multi-purpose nature of the Understanding Society design we provide multiple sets of weights to meet the different needs of users. The weight for your analysis reflects the survey instrument that is the source of the data being used in the analysis (e.g. household grid, household questionnaire, individual questionnaire, etc.), the analysis level (household or individual), and the combination of waves involved.

Each weight has been scaled to have a mean of one amongst cases eligible to receive the weight.

The naming conventions for weights are intended to help users to identify the correct weight. The name of each weight reflects the wave for which the weight is calculated, level of analysis, data source and its nature (design weight, cross-sectional analysis weight or longitudinal analysis weight). The rules are described below.

Cross-sectional or longitudinal analysis
If your analysis uses only data from one Wave, select the “xw” (cross-sectional) version of the weight. This weight is defined for all sample members who responded to the relevant questionnaire at a particular Wave. If your analysis uses data from multiple waves select an appropriate “lw” (longitudinal) version of the weight.
Example - if your analysis only uses data from Wave 4, select the “xw” (cross-sectional) version of the weight (note all Wave 4 variables begin with d_). If your analysis uses data from multiple waves select an appropriate “lw” (longitudinal) version of the weight from the last wave. For example, if you are looking at Waves 4 to 9, use the appropriate longitudinal weight from the last wave in your analysis (note Wave 9 variables begin with i_).

Hierarchy of analysis levels
For individual level analysis you may want to combine information from different questionnaires. In this situation please select the weight suitable for the lowest level according to the hierarchy table below:

Example - if you are analysing cross-sectional data from Wave 1, and using questions from both the proxy/full interview as well as from the self-completion questionnaire, then the correct weight will be a_indscus_xw – the weight for the self-completion questionnaire is level 1 in the table and is lower than the proxy/full interview questionnaire at level 3.

Variable weight a_indscus_xw is designed for participants from Wave 1 (a_), aged 16+ (ind), who answered via the self-completion questionnaire (sc) from the general population and ethnic minority samples (us) and analysed within one wave (xw).

<table>
<thead>
<tr>
<th>Levels of analysis</th>
<th>Data source</th>
<th>_xxxyy</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Household grid and/or household questionnaire</td>
<td>_psnen</td>
</tr>
<tr>
<td>4</td>
<td>Adult proxy and main interview</td>
<td>_indpx</td>
</tr>
<tr>
<td>3</td>
<td>Adult main interview only (no proxy)</td>
<td>_indin</td>
</tr>
<tr>
<td>2</td>
<td>Adult self-completion interview</td>
<td>_indsc</td>
</tr>
<tr>
<td>2</td>
<td>Extra 5 minutes interview</td>
<td>_ind5m</td>
</tr>
<tr>
<td>2</td>
<td>Youth questionnaire</td>
<td>_ythsc</td>
</tr>
<tr>
<td>2</td>
<td>Nurse visit</td>
<td>_indns</td>
</tr>
<tr>
<td>1</td>
<td>Blood sample</td>
<td>_indbd</td>
</tr>
</tbody>
</table>

There are a number of weights reflecting the complex structure of the data. The weight name has the following structure: w_xxxyyzz_aa. The weighting FAQS also give guidance on which weights to use.

After you have decided the population you want to generalise your results to and the questionnaire(s) you want to use, refer to these tables to decide the appropriate weight for your analyses. The following table summarises the naming convention and makes it easy to choose the correct weight.
Naming convention for Understanding Society weights

<table>
<thead>
<tr>
<th>Wave</th>
<th>Who are you studying?</th>
<th>Which questions (maire)?</th>
<th>Which sample/timeline?</th>
<th>Analysing one wave or across waves?</th>
</tr>
</thead>
<tbody>
<tr>
<td>a_</td>
<td>hhd: household</td>
<td>en: enumeration</td>
<td>us: GPS &amp; EMB (W1&gt;)</td>
<td>_xw: cross-sectional analysis weight</td>
</tr>
<tr>
<td>b_</td>
<td>psn: persons 0+</td>
<td>in: interview</td>
<td>bh: BHPS (W2&gt;)</td>
<td>_lw: longitudinal weight</td>
</tr>
<tr>
<td>c_</td>
<td>ind: persons 16+</td>
<td>px: interview or proxy</td>
<td>ub: GPS, EMB &amp; BHPS (W2-W5)</td>
<td>_xd: x-sectional design weight</td>
</tr>
<tr>
<td>d_</td>
<td>yth: persons 10-15</td>
<td>6m: “extra 5 minutes”</td>
<td>ul: GPS, EMB, BHPS &amp; IEMB (W&gt;6)</td>
<td>_ll: longitudinal inclusion weight</td>
</tr>
<tr>
<td>e_</td>
<td>sc: self-completion</td>
<td>na: nurse visit</td>
<td>91: BHPS original sample (91&gt; excl. N.I.)</td>
<td></td>
</tr>
<tr>
<td>f_</td>
<td>bd: blood</td>
<td></td>
<td>01: BHPS original sample + boosts</td>
<td></td>
</tr>
<tr>
<td>g_</td>
<td></td>
<td></td>
<td></td>
<td>_aa (cross-sectional/longitudinal)</td>
</tr>
</tbody>
</table>

* “gp” letters are used for weights available for the General Population sample only. But there is only type of such weight - the design weights for the GPS sample. This weight should be used by advanced users only.

For advanced users who want to model nonresponse in their own way, we provide design weights and inclusion weights which adjust the sample for unequal selection probabilities but not for nonresponse. Note that adjusting for the first wave nonresponse is different from adjusting for attrition and requires variables which have values for both responding households and never responding households.

**How to use weights**

In most statistical software packages, complex sample design (weighting, clustering and stratification) can be easily incorporated into most common forms of analysis (for example, using the SVY suite of commands in Stata, SVYDESIGN in R, SURVEY procedures in SAS and CSPLAN along with Complex Samples in SPSS).

Each Understanding Society weight is set to zero for all sample units to which it does not apply. Thus, specifying the use of the correct weight in analysis will automatically result in the analysis being restricted to the appropriate sample. For example, there are 39,289 persons in the file h_indresp, but only 27,841 of these have a non-zero value of h_indinui_lw. These are the people who gave a full individual interview at all of Waves 6, 7 and 8. For longitudinal analysis of data obtained in the individual interviews at Waves 6, 7 and 8, it is therefore sufficient to specify use of the weight h_indinui_lw. The analysis sample can of course also be further restricted by selecting based on respondent characteristics (e.g. by gender or working status): the weight is appropriate for analysis of any demographic subset of the full sample to which the weight applies.
The weights provided have been developed for use when analysing data from various combinations of survey instruments in one of two ways:

When using data from a series of consecutive waves, e.g. a panel analysis. These are the longitudinal weights ending in \_lw;

When using data from a single wave. These are the cross-sectional weights ending in \_xw.

However, given the richness of the data there are many other ways in which the data can be used. For example, you may want to use data from a non-consecutive set of waves, or for a calendar year, or relating to households, couples or other groupings in which each group member has participated. It is not always obvious how best to use the weights in these situations, so we have prepared a set of Frequently Asked Questions that address many of the most common uses of the Study data. If your question remains unanswered, we also offer various forms of User Support.

Reference


Clustering and stratification

As the sample design involves stratification, clustering and weighting, these design features affect standard errors and should therefore be taken into account in analysis. Appropriate variables are provided to allow the analyst to do this. Here we describe the stratification and clustering variables in the main Understanding Society data files. See Fumagalli, Knies et al. (2017) for a description of these variables in the harmonised BHPS. General advice on using this information appropriately applies to both the UKHLS and harmonised BHPS data.

The variable indicating the primary sampling unit is psu. It is available in the cross-wave files, xwavedat xwaveid. As the PSU is determined at the time of sampling the value of this variable does not change over time. But to make it easier to use, this variable is also included in wave specific data files, where the name of the variable is w_psu with “w_” reflecting the wave prefix. Similarly, as stratification occurs at the sampling stage, the variable representing stratification, strata, does not change over time and is available in the cross-wave files, xwavedat xwaveid, and in wave specific data files with a wave prefix, w_strata.

Description of variables

These tables provide details of the range of values for variables w_psu and w_strata.
Analysis advice for mixed mode data

Using different modes during a survey can affect how respondents' answer the same questionnaire.

Despite this possibility, the convenience and potential cost savings (especially relative to face-to-face/CAPI mode) have led Understanding Society to adopt a push-to-web mixed-mode design, starting at Wave 8, when 40% of participants were initially invited to complete the questionnaire online and a further 40% were initially approached for a face-to-face interview but then given the opportunity to complete online if they had not completed the face-to-face interview. The remaining 20% were only approached for a face-to-face interview. The implication of mode effects from Wave 8 onwards is that some of those people who chose web mode may have provided different answers to the same questions had they instead chosen CAPI. Given that 29% of Wave 8 individual interviews were carried out online, this means the introduction of mixed-modes could affect longitudinal analyses involving data from Wave 8 and earlier, predominantly CAPI, waves.

It is important to recognise that a substantively significant difference between the answers under web and under CAPI does not automatically imply that the web answer is 'worse'. CAPI is only a benchmark for comparison with data from earlier CAPI-mode waves. D'Ardenne, Collins et al. (2017) discuss how mode effects depend on several features of how respondents answer survey questions (fear of disclosure, social desirability bias for sensitive questions and positivity bias, satisficing), and the presentation of the question and its possible answers, so which mode is 'best' will depend on the nature of each question.

Wave 8 involved an experiment in which a proportion of households in the first year were randomized to receive web first or CAPI first. The data from this experiment allow the estimation of the effect of web mode on key statistics in a way that takes into account that within the experimental sample the characteristics of those responding online and those responding by CAPI may differ.

We are currently investigating issues for users and will provide more detailed advice in due course. Unfortunately, it was not possible to devise a simple fix to adjust the results of every longitudinal analysis to equal what would have been obtained had those choosing web counterfactually chosen CAPI. Instead, we offer the following advice for those users who wish to investigate the impact of web mode on their analyses:

1. **Do not use the ‘indicator method’ for a regression/multivariable analysis**: The indicator method is simply to include a dummy variable that indicates whether the user chose web or CAPI as predictor variable in the regression analysis. However, despite its popularity, it was found that this approach is generally ineffective because it can often lead to badly biased results.

2. **A simple sensitivity analysis is to compare the estimates obtained using only the ring-fenced sample with those obtained using the remaining data**: The ring-fenced sample is a random sample of 20% of households for which the survey was administered CAPI-only, as in previous waves. The variable `h_ringfence` identifies members of this sample. To test whether the results of a regression analysis are different in the ring-fenced sample from those in the mixed modes sample, the analyst can 1) include `h_ringfence` as a main effect in
the model, and 2) include the interactions between \texttt{h\_ringfence} and each predictor variable in the model. We recommend that the survey design and weights are accounted for when performing this analysis. If any of the interactions created in step 2 are statistically significant, this indicates the potential presence of mode effects. If the results are significant and you are unsure of how to proceed, it is recommended that you consult a statistician on your team to discuss.

Results of the experimental analysis for future waves will be added when ready.
Support and resources

Understanding Society has a wealth of information for data users of all levels.

It is a highly comprehensive online source of information regarding its variables, methodology, survey design and implementation. It is also an up to date source of training courses, data releases and other relevant news regarding longitudinal research.

It’s not a stupid question...

We are always pleased to hear from data users. You can contact us for help with using the data and for suggestions for improving the data.

Useful documentation links

As an introduction to the Understanding Society main study data and documentation we particularly recommend watching our ‘getting started’ videos and browsing the introductory links listed on the introduction page.

Videos

See our Exploring Understanding Society and Data Structure on our YouTube channel.

FAQs

Visit our frequently asked questions page for more information.

Index terms and Theme pages

Index Terms cover all the thematic areas in the Study and can be used to identify the variables most relevant to your research interests and to find other variables with related data throughout the dataset.

The theme pages provide an overview of each of the Study’s thematic areas including information collected, the questions asked and links to related resources such as papers, webinars, blogs and news.

Syntax files for basic data management tasks and producing Derived Variables

A list of Stata commands for basic data management and analysis tasks can be found here.

User Support

Help and Support for using Understanding Society can be found here.

User support forum

After a short registration data users can read past issues, FAQ’s and report any issues or queries of their own. If you have a question about the data, post your question at the Online Data User Forum. Users should read the “How to raise an issue” guidance before posting a question. The forum is monitored Monday-Friday and we aim to answer simple questions within 2 working days and more complex questions within 7.
Email

Users may also email User Support directly using our email address. Our preferred mode of communication is via the forum as other users may then also benefit from the information provided.

Online Helpdesk

If you'd like to speak to a member of the User Support team you can join an online helpdesk session. These are run via video conferencing software and are one-on-one sessions with a member of the User Support team. If you would like to access the online helpdesk please email us at this email address and we will respond with joining information and arrange a convenient time for the conversation.

Training courses

We offer both DIY training courses (via Moodle) and tutor-assisted workshops which give a general overview of the Study and demonstrate how to prepare the data for analysis using multiple statistical softwares.

Currently the following courses are available on Moodle:

- Introduction to Understanding Society Using Stata (also: using SPSS or SAS or R)
- Understanding Society for Transport Analysis (using Stata),
- Introduction to British Household Panel Studies (BHPS) using Stata

Workshops are also available on specific aspects of the Study such as weights, biomarker and genetics data, the Innovation Panel, using the Study for transport analysis.

To learn more about these training workshops and how to register visit the training page.

Webinars and videos

Our webinars and training videos help inform data users about the Study and how to use the dataset. To explore our 'getting started' videos and past webinars visit our YouTube channel. For the latest list of webinars visit our website. Email newsletter

Email newsletter

Sign up to our newsletter for information about the Study.
Wave 10 content highlights
Wave 10 includes a set of modules that are carried every two waves, and so were last carried at Wave 8. These include modules on:

- Material deprivation
- Child deprivation
- Pensioner deprivation
- Commuting behaviour
- Work conditions
- Charitable giving
- Personal pensions
- Savings
- Voluntary work
- Domestic labour
- Transport behaviour

Modules that are asked every three years and which are included in Wave 10 include:

- Sleep quality
- Mental wellbeing

In the self-completion section of the survey respondents were asked about the party they voted for in the last general election, physical and mental health, life satisfaction, loneliness, gender attitudes, environmental behaviour and attitudes.

The youth questionnaire for Wave 10 included rotating content on future intentions, risky behaviour, religious identity, friendship groups and self-esteem. New content was added on cognitive measures.
Revisions to previous releases

Each time we release a new wave or new edition of data, we include all previous waves.

Users can find information in the UKHLS 2020 Revisions document, supplied with the study documentation downloaded from the UK Data Service.

To enhance the data we would like to hear from researchers about any errors, inconsistencies, or other problems identified when using the data. Please contact our Data User Support service with any issues relating to data or data analysis.