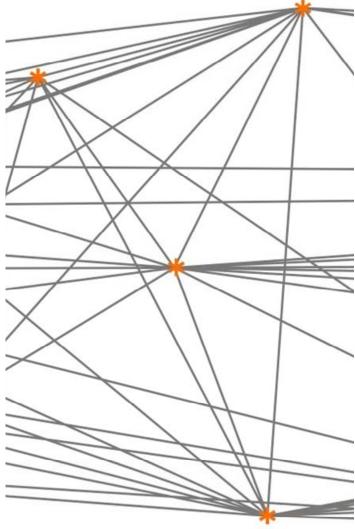


Guide to Release 2.3.0 Waves 1 & 2





Mannheim Research Institute for the Economics of Aging

November, 13th, 2009 updated December, 10th, 2009



Known Issues Solved with minor update on December, 10th, 2009

- Imputation module wave 2 The imputation module included some wrong variable labels. Please note that SHARE wave 2 variables ep205, ep207, hh002, and hh011 ask for net income (in SHARE wave 1 gross income was asked). The variable labels in the capi modules are correct. In the imputations module for wave 2 for the variables ydip, yindv, yohmv, yohbv, hgtincv we changed the variable labels to "net", as the imputed income variables for wave 2 are also net income measures.
- Documentation of imputation module
 The appendix E of this documentation lists the variables included in the wave 1 and wave2 imputation modules. Some minor errors were corrected. Typos in variable names: <u>fdistress</u>, <u>pultv</u>, <u>prltv</u>. Variables age and <u>grip</u> (imputations wave 1) and variables age and <u>gender</u> (wave 2) are <u>not</u> included in the imputations modules but were listed in the first version of release 2.3.0 documentation.
- Stata Versions of CH modules (wave 1 and wave 2)
 The CH modules were saved in Stata 11 format ("format-114 datasets") and could not be opened with older versions of Stata. Now all modules including CH are saved in Stata 8/9/10/11 readable data format.



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1 Additional sources of information

1.1 Questionnaires

The generic and country-specific questionnaires (CAPI, drop-off and vignettes) for both waves are downloadable from the SHARE-website: www.share-project.org.

1.2 Item correspondence

On www.share-project.org we provide a tool called "Item Correspondence" that documents known country-specific deviations within each wave as well as deviations between the generic English versions of wave 1 and wave 2 questionnaires. In case you find additional deviations that are not yet documented please inform the SHARE-Team (share[at]mea.uni-mannheim.de).

2 SHARE data releases

You can download the data from the website: www.share-project.org. Releases are indicated as follows:

- Minor changes will be indicated by the third digit, e.g. release 2.2.1. Please check the website for updates regularly.
- Major changes will be indicated by the second digit, e.g. release 2.3.0.
 Major updates will be announced to users via e-mail.

From release 2.2.0 on releases of wave 1 and wave 2 will have the same number.

Table 1: Release history:

Wave 1	Wave 2
Release 1: April 28, 2005	Release 1.0.0: November 28 th , 2008
Release 2.0.0: June 19 th , 2007	Release 1.0.1: December 4 th , 2008
Release 2.0.1: July 5th th , 2007	
Release 2.2.0: A	ugust 19 th , 2009
Release 2.3.0: No	vember 13 th , 2009



3 What's new in SHARE release 2.3.0?

- Imputations for wave 2
- New imputations for wave 1
- Longitudinal weights and new structure of weights files
- Generated health variables added for wave 2
- Generated health variables revised for wave 1 (see next point)
- Corrections of implausible answers in ph modules (both waves)
- Corrections of implausible answers in ep074 for the Netherlands (w2)
- Correction of hc029 for Poland (w2)
- Correction of minor coding error in respondents' ISCED variable (w2)
- Greek vignettes (wave 2)
- Euro conversions for wave 1 ex module (ex014, ex016, ex018, ex020, ex022)
- Correction of minor issues in labels

What was new in SHARE release 2.2.0

- Ireland
- IDs and merging of data files (see Chapter 7)
- Missing codes (see Chapter 9)
- Naming of dummy variables (see Chapter 11)
- Naming of variables in drop-off and vignettes
- Coding of "other" citizenship and country of birth (see Chapter 15)
- Israel: ISCO & NACE codes and additional modules (see Chapter 20)
- Corrections of known problems in coding etc.

4 Countries

The countries from wave 1 also participate in SHARE's wave 2. The only exception is that there is no second wave of SHARE in Israel (IL) so far. This creates longitudinal data for Austria (AT), Belgium (BE), Switzerland (CH), Germany (DE), Denmark (DK), Spain (ES), France (FR), Greece (GR), Italy (IT), the Netherlands (NL), and Sweden (SE). In addition, three new countries joined in wave 2: the Czech Republic (CZ), Poland (PL) and Ireland (IE). Table 1 shows the list of countries, country identifiers, participation in waves, and when the data collection was conducted. The definition of the wave results from the questionnaire version used.



Table 2:	Countries	in SHARE wave 1	1 and wave 2
I able 2.	COULTES	III SHAKE Wave	i aliu wave z

ID	Country	Country	Wave 1	Wave 2
	(Short)			
11	AT	Austria	2004	2006/07
12	DE	Germany	2004	2006/07
13	SE	Sweden	2004	2006/07
14	NL	Netherlands	2004	2007
15	ES	Spain	2004	2006/07
16	IT	Italy	2004	2006/07
17	FR	France	2004/05	2006/07
18	DK	Denmark	2004	2006/07
19	GR	Greece	2004/05	2007
20	Cg	Switzerland (German)	2004	2006/07
21	Cf	Switzerland (French)	2004	2006/07
22	Ci	Switzerland (Italian) 2004		2006/07
23	Bf	Belgium (French)	2004/05	2006/07
24	Bn	Belgium (Flemish)	2004/05	2006/07
25	Ih	Israel (Hebrew)	2005/06	
26	Ia	Israel (Arabic)	2005/06	
27	Ir	Israel (Russian)	2005/06	
28	CZ	Czech Republic	-	2006/07
29	PL	Poland		2006/07
30	IE	Ireland		2008

5 Eligibility rules

Wave 1:

As a general rule the target population of individuals is defined as "All individuals born in 1954 or earlier, speaking the official language of the country and not living abroad or in an institution such as a prison during the duration of the field work, and their spouses/partners independent of age". For further information see: Klevmarken, N.A., Swensson, and Patrik Hesselius (2005): The SHARE Sampling Procedures and Calibrated Design Weights. In: Börsch-Supan, A., Jürges, H.: The Survey of Health, Ageing and Retirement in Europe. Methodology, p. 28-69. www.share-project.org/t3/share/uploads/tx_sharepublications/SHARE_BOOK_METHO DOLOGY_Wave1.pdf

Wave 2:

Longitudinal interview: The target population ("interview eligibles") for the longitudinal survey consists of all persons interviewed in the 2004 SHARE baseline study plus their spouses or partners (independent of age and independent of their participation in the 2004 baseline study).

Refresher/baseline interview: Unlike in wave 1 and the longitudinal interview, in wave 2 refresher households only one age eligible person per household and his/her partner was interviewed.



6 Composition of the data set and types of respondents

6.1 Types of data

SHARE data collection is mainly based on a computer-assisted personal interviewing technique (CAPI). All questionnaires can be downloaded from the website: www.share-project.org. The SHARE interview consists of various data modules.

Table 3: Composition of the SHARE data set

Elements	Comments	
C	API	
Coverscreen interview cv_h	Data on the household level	
Coverscreen interview cv_r	Data on the individual level for all household	
	members, including non-eligible persons	
Individual CAPI Modules	See also Table 4: Chapter 6.2	
Paper and pe	ncil questionnaires	
Drop-offs	Only asked in baseline interview	
Vignettes	Vignette sample only	
Generate	ed variables	
Weights	Not yet available for Ireland	
ISCED codes for education		
Physical and mental health		
Social support and household	Not yet available for wave 2	
composition		
ISCO and NACE codes for	Not yet available for wave 2	
occupation and industries		
Housing and region		
Imputations		
Alive or deceased	Applies to wave 1 respondents only	
Gross sample	Available upon request	

- The interview starts with a coverscreen interview on the household level, answered by one household member (filename cv_h).
 Coverscreen data on the individual level are available as well (cv_r).
- The main questionnaire is based on various different CAPI modules (see Table 4: Chapter 6.2). 20 modules have been part of SHARE in wave 1. There are three new modules in wave 2 (CS, PF, XT), two of them concerning the measurement of health.
- The last new module (XT) is available only for the longitudinal samples, and contains information on deceased former respondents, the so called end-of-life interviews. For the end-of-life interview, a proxy is asked about certain aspects of the deceased's last year of life. None of the other modules are present for the deceased in that case. Please refer to the questionnaires on the website for the questions in the XT module.
- In the *main* sample, the interview is finished with a self-completion paper & pencil questionnaire ("main drop-off questionnaire"; see Chapter 8.1).



- Extra samples ("vignette samples") were taken in most countries in order to collect (in addition to regular CAPI data) a special self-completion questionnaire with anchoring vignette questions designed to improve cross-national comparability (see Chapter 8.2).
- Additionally, the SHARE data contains various generated variables (see Chapter 19).

6.2 Types of respondents

The SHARE CAPI main questionnaire is designed in such a way that not every eligible household member has to answer every CAPI module (see Table 4: this Chapter). Some modules or questions are restricted to certain subgroups of respondents, as can be seen from the if-statements in the questionnaires (e.g. CS: done only if younger than 75).

Proxy interviews were allowed for most of the modules.

Selected household members served as **family**, **financial or household respondents**. They answered questions about children and social support, financial issues or household features, on behalf of the couple or the household, respectively.

- The answers to finance, housing and family questions in modules FT and AS, HO, HH, CO, CH and the first part of SP are only coded for the financial, housing or family respondents, respectively.
- However, for the generated variables, the information is stored for all respondents, regardless of their status as regular or financial, housing or family respondent.

Selection of the financial, household and family respondent

The financial, household and family respondent was identified during the interview as follows:

Family respondents answer the questions of the CH module and the first part of the SP module (sp001 to sp017) on behalf of couples. They are indicated by the dummy variable dumfamr. They are selected by the chronological order of interviews per couple (married or not): The couple's first person interviewed is the family respondent. Note that the naming of the cvid/respid variable does not indicate the chronology of interviews within one household.



Table 4: Who answers what in the CAPI questionnaire?

CAPI			Financial	Household	Family	non-
Module	Name	All		Respondent	t	proxy
CV	Coverscreen					
DN	Demographics	X				
PH	Physical Health	X				
BR	Behavioural Risks	X				
CF	Cognitive Function	X				Х
MH	Mental Health	x				x (partly)
HC	Health Care	Х				
EP	Employment and Pensions	Х				
GS	Grip Strength	X				Х
WS	Walking Speed	X				Х
CH	Children				X	
SP	Social Support	x (partly)			x (partly)	
FT	Financial Transfers		X			
НО	Housing			Х		
HH	Household Income			X		
CO	Consumption			X		
AS	Assets		X			
AC	Activities	X				Х
EX	Expectations	X				Х
	Interviewer					
IV	Observations					
New mo	odules in wave 2:					
CS	Chair Stand	X				Х
PF	Peak Flow	X				Х
XT	End-of-Life Interview	proxy interview, deceased respondents				

The **financial respondent** is identified by question *cm003*_ at the start of the individual interview before the DN module (see also questionnaire). The financial respondent answers the modules FT and AS and is indicated by the dummy variable *dumfinr*. In case of a one-person household or a respondent living as single, the respondent is **always** the financial respondent. In multi-person households, the number of financial respondents may vary: respondents living without a partner in multi-person households are always financial respondents. In **wave 1** eligible couples, i.e. spouses and partners, may decide to answer questions about their finances separately (this can be retrieved from *finsep*, see also *cm002*_ in wave 1 questionnaire). Otherwise, one partner can answer on behalf of the **couple**. In this case, she or he is identified as the financial respondent for the couple, indicated by the dummy variable *dumfinr*.



 Only one household respondent answers on behalf of the whole household questions about household features (HO, HH, CO). The household respondent is selected before the individual interviews and indicated by the dummy dumhhr.

7 Merging the data

A new identification system was introduced with the first release of wave 2 and is now implemented in wave 1, too. For each individual the variable *mergeid* is a unique and non-changing identifier for all waves. It has the format "CC-hhhhhh-rr", where "CC" refers to the short country code (see Chapter 4, Table 2:), "hhhhhh" is the household identifier (the 6th to 11th digits of sampid2 in wave 1), and "rr" is the respondent identifier within each household ("0" and the wave 1 variable *respid*).

We also introduce new identification variables on the household level. A unique variable *hhid* identifies the household to which a person belonged when entering the panel. This variable is non-changing for each person throughout all waves. A second household variable is *hhidW*, where "W" refers to the specific wave. Thus, hhid2 refers to the household in which the individual resided in wave 2. Both *hhid* and *hhidW* have the following format "CC-hhhhhh-S", where "CC" refers to the short country code (see Chapter 4, Table 2:), "hhhhhh" is the household identifier (the 6th to 11th digits of sampid2 in wave 1), and "S" identifies possible split households, i.e. households of a panel member who moved out of a previous household. An "A" is given to all original households, thus any split is identified through a "B", "C", etc.

Note that:

- a) mergeid is NOT changed through a move out of a household and
- b) *mergeid* is not uniquely defined for household members that did not participate in an individual interview. This means that in the cv_r all non-responding eligibles as well as other ineligible household members are included, but *mergeid* is defined as "no int. w.1" or "no int. w.2".
- c) It is entirely possible that the non-changing household identifier, *hhid*, has a split identifier for example for a new spouse who first came into the panel in a split household.

Researchers interested in identifying all household members (i.e. eligible and ineligible) in a current wave can use the *hhidW* in addition with the *cvid* variable from the **cv_r** dataset, similar to previous releases.

The variable *waveid* indicates when an individual entered SHARE. All household members present in wave 1 have a wave 1 *waveid*. In case a new person moves in a wave 1 household after wave 1, she or he gets a wave 2 *waveid*, because the first wave she or he is included in the coverscreen is wave 2. *Waveid* takes the following values corresponding to the following wave/questionnaire version:

"42", "51": referring to wave 1 referring to wave 2



Note that when talking about "waves", we consider SHARE's data collection in 2004/05 to be wave 1, because the wave 1 questionnaire version was used. Hence even though there has been only one round of collection in Poland, the Czech Republic and Ireland, we refer to the data of these countries gathered in 2006/07 as SHARE wave 2 data, because these countries used the wave 2 questionnaire version.

The variable *mergeid* is present in all modules that contain individuals' answers and thus can be used to combine these modules on the individual level. An exception is the **cv_h** dataset of the CV module, which is on household level. To combine data from the household level **cv_h** with other individual level modules, *hhidW*, the wave specific household identifier must be used.

8 Self completion questionnaires

8.1 Drop-offs

8.1.1 What is a "drop-off" questionnaire?

In the main sample, the baseline interview ends with a self-completion paper & pencil questionnaire. This questionnaire includes additional questions which address issues like mental and physical health, health care and social networks.

The Israeli drop-off includes additional questions that are not asked in other countries. These variables are marked by the prefix "il". They are not included in the general drop-off data file for all countries but are downloadable as an extra data file. An overview of deviations between the Israeli drop-off and the generic version is available on the SHARE website: www.share-project.org/t3/share/new_sites/SHARE-Website/Drop-offs_main/drop%20off%20deviations%20Israel.pdf

8.1.2 Drop-off respondents

Respondents fill in the drop-off questionnaire only once. New spouses, refreshers and respondents who weren't interviewed in wave 1 were asked to answer the drop-off questionnaire in wave 2.

8.1.3 How to work with the drop-off

Drop-offs of wave 1 and wave 2 differ in some aspects. This is due to new questions added and questions that are not asked anymore in the wave 2 drop-off. In addition some questions of the wave 1 drop off are asked in the CAPI in wave 2.

In order to match according questions with each other, the **variable names are adjusted in wave 2**. If for example question three of wave 1 is asked as the first question in wave 2 its variable name is changed from "q1" to "q3" in wave 2. This guarantees that equal variable names always refer to the same question.



We recommend you to use the schedule provided in appendix A if you work with the wave 2 drop-off data. It gives an overview of all drop-off variables, the number of questions in the questionnaires and its corresponding (new) variable name.

8.2 Vignettes

8.2.1 What are "vignettes"?

In some countries (wave 1: Belgium, France, Germany, Greece, Italy, The Netherlands, Spain and Sweden; wave 2: also Denmark, Poland and the Czech Republic) parts of the respondents (vignettes sample) fill in a vignettes questionnaire instead of the drop-off questionnaire.

Anchoring vignettes are short descriptions of, e.g., the health or job characteristics of hypothetical persons. Respondents are asked to evaluate the hypothetical persons on the same scale on which they assess their own health or job. Respondents are thus providing an anchor, which fixes their own health assessment to a predetermined health status or job characteristic. These anchors can then be used to make subjective assessments comparable across countries and socio-economic groups. You can find more detailed information about the vignettes on the COMPARE website: www.compare-project.org.

There are two versions of vignettes in each wave. In wave 1 they are called type A and type B, in wave two type B and type C. The type A of wave 1 corresponds with type B of wave 2; Type B of wave 1 corresponds with type C of wave 2. The two types differ with regard to question order and gender of the people in the short description. In wave 1 the two types of vignettes were randomly assigned to the respondents. In wave 2 the assignment depended on the age of the respondent. Type B was given to respondents aged up to 64, type C was given to respondents aged 65 and over.

The variable "type" contains information on the vignette type. The variable label shows which questions from type B correspond with the ones from type A.

8.2.2 The longitudinal dimension of the vignettes

Unlike the drop-offs the vignettes are longitudinal. This means that longitudinal respondents of the vignette sample filled in the vignettes questionnaires in both waves. Refresher, new spouses and respondents who didn't participate in wave 1 also answered the vignette questionnaire, if they are in the vignette sample. There is one exception: In France the refreshers were not part of the vignette sample and some respondents switched from the vignette sample to the main sample between wave 1 and wave 2.



8.2.3 How to work with the vignettes

The schedule (Appendix B) summarizes the variables of the vignettes in both waves. It includes the number of the question in the questionnaire and its new variable name.

9 Missing codes

When respondents reply with "don't know" (DK) or refuse (RF) to answer a question consistent missing value codes are included:

- In case of common variables including multiple response dummies, but excluding variables about a financial amounts, these are
 - -1: "don't know"
 - -2: "refusal"
- For missing values in variables indicating financial amounts:
 - -9999991: "don't know"
 - -9999992: "refusal"
- For future releases SHARE plans to have additional missing value codes, but in general they are not yet implemented in release 2.3.0:
 - -3: "implausible value/suspected wrong"
 - -4: "not codeable"
 - -5: "not answered"
 - -6: "proxy missing"
 - -7: "not yet coded (temporary)"
 - -8: "does not apply (e.g. interviewer remark)
 - -9: "not applicable (filtered)"

Treating SHARE missing codes in Stata: Sharetom

Stata users can download an ado file (sharetom.ado & sharetom.hlp) from the data download website. This program recodes missing values to Stata's "extended missing values" and labels them appropriately. Stata's extended missing values, e.g. ".a" or ".b", are treated the same way as system missing values "." are treated. This means, in a –tabulate varcommand they are not tabulated, unless you add the missing option (tabulate var, missing). Sharetom should run before you do any other changes in the data.

Treating SHARE missing codes in SPSS

SPSS users should define missing values as all values below 0 for all variables except financial amounts. Missing values for financial amounts should be defined as below -9999990.



10 Naming conventions

In general, the naming of variables is harmonized across waves. Variable names in the CAPI instrument data use the following format:

MMXXXYYY LL

MM module identifier, e.g. DN

XXX question number, e.g. 001

YYY optional digits for dummy variables, Euro conversion or unfolding brackets, using the following indications:

- d dummy variables (see also Chapter 11)
- e Euro conversion (see also Chapter 12)
- ub unfolding brackets (see also Chapter 13)

separation character, to indicate loops;

LL optional digits for category or loop indication ("outer loop")

Examples:

ho045_ stores "The main reason to move", hence does not allow multiple responses and is not asked within a loop

ft003_1 ft003_2 ft003_3 store the relationship to whom respondent provided financial gifts for up to three people ("outer loop" over three persons)

11 Dummy variables

We changed the naming conventions for dummy variables to induce a harmonized format in all past and future waves. Answers to all questions that allow for multiple responses have dummy variables as final data. E.g. question BR005 ("What do or did you smoke") has three answer categories:

- 1. Cigarettes
- 2. Pipe
- 3. Cigars or cigarillos

The data set thus contains three dummies: *br005d1*, *br005d2*, and *br005d3* corresponding to the three categories. (Note that we now in general omit leading zeros for the first nine answers in a response set with more than ten answer categories to allow for easier looping in commands). A value "1" in any of these variables means that the respondent chose the particular category as an answer and in case of a value "0" the respondent did not choose the particular category as answer.

 In case the respondent answers with a "none of these" or in case an "other" option is provided, the naming of the dummy names has the following structure:

MMXXXd**no** "none of these"

MMXXXdot "other"



- In case the respondent answers with "don't know" or "refusal", all corresponding dummy variables of that question are set to the respective missing codes, i.e. -1 for "don't know" and -2 for "refusal".
- In case the question requires loop indication (see Chapter 10), the digit(s) right after the "d" correspond(s) to the multiple response categories. The loop indication is added as the last part of the variable name separated by a "_" as usual. Hence, all multiple response variables can be identified by the "d"-separator, all loops are identified by the presence of digit(s) after a separation indicator "".

According to the new missing codes (see Chapter 9) the dummies in the form MMXXXdrf ("refusal") and MMXXXddk ("don't know") don't exist in the data anymore.

Due to changes in the Dummy-naming-system variable names for most of the dummies changed. Appendix G lists changes in variable names between releases for wave 1 and wave 2.

In general, the numbering of answer categories in the generic questionnaire determines the optional digits YY in the dummy variables. We only deviate from this rule, if otherwise misleading variable names across waves emerge. Below, please find a list of variables where names do not align with the questionnaire. Please note: this list may be incomplete, so it is always a good idea to check in the questionnaires, the labels and the item correspondence tool.

ac004_: wave 2 includes fewer answer categories than wave 1, however, the reduced set is comparable. Variable names in wave 2 were adjusted to match the respective wave 1 answer categories in the following way:

wave 2: ac004 guestionnaire categories variable names

1. To meet other people	ac004d1_*
2. To contribute something useful	ac004d2_*
3. Because I am needed	ac004d 4 _ *
4. To earn money	ac004d 5 _ *
5 . To use my skills or to keep fit	ac004d 7 _ *
96. None of these	ac004dno_*

asO54_: in wave 1 and wave 2 the same answer categories are used, however in a different order. Wave 2 variable names were adjusted to match the respective wave 1 answer categories.

wave 2: as054_ questionnaire categories variable names 1. Debt on cars and other vehicles (vans/motorcycles/boats, etc.) as054d1 2. Debt on credit cards / store cards as054d**3 3**. Loans (from bank, building society or other financial institution) as054d**4** 4. Debts to relatives or friends as054d**5** 5. Student loans as054d6 **6**. Overdue bills (phone, electricity, heating, rent) as054d**2** 96. None of these as054dno 97. Other as054dot



12 Euro conversion

All answers about an amount of money are converted into Euro values. For non-Euro countries a frozen exchange rate is chosen. For Euro countries the Euro value is either the given value or the converted pre-Euro value because respondents in Euro countries were given the option to report in either Euro or the pre-Euro currency in wave 1. However since almost all monetary values in wave 2 are asked in Euro for those countries having the Euro, a conversion for those countries was not necessary in wave 2. The only exceptions are <code>ft018m1</code> and <code>ft018m2</code>, where pre-euro currencies were allowed in wave 2.

The format of the variable name is mentioned in Chapter 10 except for the "e" following the question number. Possible digits that follow after a "_" separation reflect loop numbers as usual.

The format of the Euro converted variables is as follows:

MMXXXe_LL
with:

MM module identifier, e.g. HC
XXX question number, e.g. 045
e indication of Euro conversion
LL optional digits for loop indication

When the respondent answers with "don't know" (DK) or "refusal" (RF) to a question indicating a financial amount, the following values are included in the dataset:

-9999991: "refusal" -9999992: "don't know"

The following exchange rates were used for the Euro conversion:



Table 5: Ex	change rates	used for	Euro conversions
-------------	--------------	----------	-------------------------

			Fixed Exchange	Exchang (x to	_
Country	Currency	Old Currency	Rate ¹	Wave 1	Wave 2
Sweden	Swedish Krona	-	-	9.180	9.210
Denmark	Danish Krone	-	-	7.439	7.450
Germany	Euro	German Mark	1.95583	1.000	1.000
Netherlands	Euro	Dutch Guilder	2.20371	1.000	1.000
Belgium	Euro	Belgium Franc	40.3399	1.000	1.000
France	Euro	French Franc	6.55957	1.000	1.000
Switzerland	Swiss Franc	-	-	1.534	1.621
Austria	Euro	Austrian Schilling	13.7603	1.000	1.000
Ireland	Euro	Irish Punt	0.787564		1.000
Italy	Euro	Italian Lira	1936.27	1.000	1.000
Spain	Euro	Spanish Peseta	166.386	1.000	1.000
Greece	Euro	Greek Drachma	340.750	1.000	1.000
Israel	New Sheqel	-	-	5.720	-
Czech Rep	Czech Koruna	-	-	=	28.130
Poland	Zloty	-	-	=	3.847
Refers to the official exchange rate used when Furo was implemented in specific country.					

Refers to the official exchange rate used when Euro was implemented in specific country. Is used mainly in wave 1 when pre-Euro currencies were possible in financial questions.

13 Unfolding brackets

When a respondent does not know (DK) or refuses (RF) the answer to a question about an amount of money, usually an unfolding sequence of bracket questions starts. There are three entry points, and the starting point is chosen randomly. All details of the sequence are stored in the dataset. However, in the public release only a few (summary) variables are included. For all sequences we have the country-specific bracket values (in Euros) and the final category where the respondent ended. When a DK or RF is given during the unfolding bracket sequence, the value for the final category is set to either DK or RF.

The format of the summarizing unfolding bracket variable is as follows:

MMXXXub_LL

with:

MM module identifier, e.g. HC XXX question number, e.g. 045

LL optional digits for loop indication

The variable indicating where the respondent finally ends can take seven values:

- 1. Less than low entry point
- 2. About low entry point
- 3. Between low and mid entry point
- 4. About mid entry point
- 5. Between mid and high entry point
- 6. About high entry point
- 7. More than high entry point



The country-specific bracket values are indicated as:

MMXXXv1, MMXXXv2, and MMXXXv3

In case of a loop, there exists only one set of bracket values as the country-specific thresholds are constant over loop numbers. Thus, MMXXXv1 contains the lowest threshold for unfolding bracket variable MMXXXub1, as well as for MMXXXub2, etc.

14 CH module: selection in child loop

Questions *ch009* to *ch020* about children are only asked a maximum of four children. When there are more than four children, the CAPI program selects the four children as follows:

- 1. Sort children in ascending order by
 - minor (defined as 0 for all children aged 18 and over and 1 for all others),
 - geographical proximity (ch007),
 - birth year.
- 2. Pick the first four children. When all sorting variables are equal, the CAPI program chooses a child randomly.

The variables *chselch1* up to *chselch4* contain the numbers of the children who were selected by the program. The numbers refer to the order in which the respondent listed the children.

15 Citizenship and country of birth

Country of birth (*dn005*) and citizenship (*dn008*) are coded according to ISO 3166-1 (numeric-3). The list is available from: http://unstats.un.org/unsd/methods/m49/m49.htm

It contains all countries that currently exist. Codes for outdated countries can also be found under the above address. Few additional codes deemed useful were enclosed (see below).

How are changing countries coded?

An often-occurring case is a respondent born in the USSR, in a place that would now be part of Russia. In that case, we code by the mentioned birth country, not by the actual country at the time of birth. In this case: if the person answered "USSR", she or he will be coded as being born in the USSR. If she or he answered "Russia", her coding will read "Russia", although this is factually incorrect, because it was USSR when the respondent was born. If it is important for you to know the country name at the time of birth, you will have to diligently deduce the code using the person's year of birth.

The following additional codes are used for other country of birth or citizenship:

1010- Congo (both)

1011- Stateless

1012- Cypriote-American

1015- EU-Citizenship



- 1016- Argentinean-Italian
- 1017- Serbian-Bosnian
- 1020- Galicia-Central Europe
- 1030- Former Territories of German Reich
- 1031- Former Eastern Territories of German Reich
- 1040- Kosovo
- 1050- Minor Asia
- 1060- Former Netherlands-East Indies
- 1070- Former Austria-Hungary
- 1080- Kurdistan (region)
- 1090- Borneo-Island

16 HO module: top coding

In the public release of wave 1 top coding was done in the case of Sweden due to legal constraints, according to the Swedish Secrecy Act. The following variables had to be top coded (with the value displayed to the right):

ho024e: 1,000,000 Euros (or 9,000,000 SEK) ho027e: 2,750,000 Euros (or 25,000,000 SEK)

17 PH module: phrandom

There are two types of answer categories for the question about self-perceived health in wave 1. Which type is asked at the beginning of section PH (questions ph002/003), and which (other) type for the end of this section (questions ph052/053), is randomized. The variable phrandom indicates which type is chosen:

1 for *ph002/ph052* (version 1)

2 for *ph003/ph053* (version 2)

18 Values used in EX module: ex009age, ex012val

ex009age: age used in question ex009 ex012val: value used in question ex012

19 Generated variables

19.1 ISCED-coding

Education is one of the most diverse international variables. Therefore a standard coding is required for international comparisons. SHARE uses the 1997 International Standard Classification of Education ISCED-97 (see www.uis.unesco.org/ev.php?ID=3813_201&ID2=DO_TOPIC for details on ISCED coding).

SHARE ISCED coding was done in the following way: each Country Team asked a local expert to map the following SHARE education questions in the respective ISCED-97 code and years of education, based on the guidelines of the manual "Classifying Educational Programmes: Manual for ISCED-97 Implementation in OECD Countries" (1999 edition).



dn010_ and dn012_ provide information on the highest school degree and degrees of further education or vocational training of the respondent. The same applies to questions dn021_ and dn023_ which refer to the former spouse's education. These questions are asked if the respondent is divorced, widowed or living separated from the spouse.

Also, the education of up to four selected children (see Chapter 14 for details on how children were selected) is transferred into the ISCED coding. This transfer is based on answers to questions ch017_<i> and ch018_<i>, where <i> refers to the selected child 1 to 4.

Finally, in wave 1 this procedure was applied to the interviewer's level of education. It is derived from question *iv015*_ and *iv016*_.

If the respondent reported to have obtained more than one degree of higher education – for example dn012_ or dn023_, respectively – only the highest one is taken into consideration.

Please be aware that:

- in wave 1 the years of education are not asked directly but are derived from ISCED categories,
- ISCED code 6 was not asked in all countries.
- In wave 2 the years of education are asked for all respondents. But the degree of education is asked for new respondents only.

Country specific ISCED-97 codes and years of education are documented in Appendix C.

ISCED codes are provided in the following variables:



Table 6: ISCED variables

Variable	Description			
Wave 1 aı	Wave 1 and wave2:			
isced_r	ISCED-97 coding of the respondent's education			
isced_sp	ISCED-97 coding of the respondent's former spouse's education			
isced_c1	ISCED-97 coding of the education of the respondent's selected child 1			
isced_c2	ISCED-97 coding of the education of the respondent's selected child 2			
isced_c3	ISCED-97 coding of the education of the respondent's selected child 3			
isced_c4	ISCED-97 coding of the education of the respondent's selected child 4			
Wave 1 or	nly:			
iscedy_r	respondent's years of education, derived from ISCED-97 coding			
iscedy_sp	respondent's former spouse's years of education, derived from ISCED- 97 coding			
iscedy_c1	years of education of respondent's selected child 1, derived from ISCED-97 coding			
iscedy_c2	years of education of respondent's selected child 2, derived from ISCED-97 coding			
iscedy_c3				
iscedy_c4	edy_c4 years of education of respondent's selected child 4, derived from ISCED-97 coding			
isced_iv	ISCED-97 coding of the interviewer's education			
iscedy_i	interviewer's years of education, derived from ISCED-97 coding			

19.2 Weights

by Giuseppe De Luca and Claudio Rossetti

Which weights to use depends on the concrete research question. Therefore it is not possible to give any general advice. Nevertheless, some of the frequently asked question and some advice on computer implementation are provided below and in Appendix D.

SHARE provides two different sets of weights:

- weights computed on the basis of respondents only (data files: \$wave_\$release_gv_weights)
- weights computed including non-responding partners (data files: \$wave_\$release_gv_weights_nrp)

SHARE includes three different kinds of weights:

1. Sampling design weights

These weights are constructed as the inverse of the probability of being included in either the longitudinal or the refreshment sample. By the SHARE design, the inclusion probability of any eligible household member is the same as the inclusion probability of the household. Thus, design weights for any eligible household member coincide with the design weight of the household.



2. Calibrated cross sectional weights (household and individual)

These weights compensate for problems of unit nonresponse and sample attrition. They are computed using a calibration approach which adjusts sampling design weights to match known totals of the target population in wave 2. In each country, at least 8 calibration margins are used to control for the size of the target population across gender and age groups (50-59, 60-69, 70-79 and 80+). For countries involved in oversampling of individuals born between 1955 and 1956 (Belgium-FR, Denmark, France, Germany, Italy, Netherlands, Spain, Sweden, Switzerland), calibration is made against 10 population totals by splitting the age class 50-59 into the age classes 50-52 and 53-59. In France, there is an additional calibration margin for home ownership, while in Italy and Denmark there are additional calibration margins for geographical areas. Calibrated cross sectional weights are computed at the household and the individual level. The latter are also provided for both "respondents only" and "respondents + non-responding partners".

3. Calibrated longitudinal weights (for the second wave only)

These weights are only defined for the longitudinal sample and compensate for problems of attrition between the first and the second wave. Unlike cross sectional weights, they are calibrated to match the target population of wave 1 that survives in wave 2. In this way, they also account for mortality which is a phenomenon affecting both the sample and the population. In each country, calibration is made against 8 population totals to match the size of the target population by gender and age class (50-59, 60-69, 70-79 and 80+). These weights are computed at the household and the individual level.

All weights are computed separately by country and in countries with so called vignette samples (Sweden, Belgium, Spain, France, Germany, Greece, Italy, and the Netherlands) each weight exists in three variants:

- for the main sample,
- for the vignette sample and
- for the two samples combined (overall sample).

The variable *samptype* indicates to which sample a household belongs. In Sweden there is also a sample supplementary to the main sample. It was treated as part of the main sample.

In addition to the several weights variables, the weights files also contain information on primary sampling units and strata. This information is taken from the sampling frame information.



Table 7: Weighting variables in SHARE wave 1

Variable	Weight Type	Units	Sample type
wgtadh	Sample design weights	Hhs, Res, Nrp	overall
wgtmdh	Sample design weights	Hhs, Res, Nrp	main
wgtvdh	Sample design weights	Hhs, Res, Nrp	vignette
wgtach	Calibrated cross-sectional weights	Hhs	overall
wgtmch	Calibrated cross-sectional weights	Hhs	main
wgtvch	Calibrated cross-sectional weights	Hhs	vignette
wgtaci	Calibrated cross-sectional weights	Res	overall
wgtmci	Calibrated cross-sectional weights	Res	main
wgtvci	Calibrated cross-sectional weights	Res	vignette
wgtacin	Calibrated cross-sectional weights	Res + Nrp	overall
wgtmcin	Calibrated cross-sectional weights	Res + Nrp	main
wgtvcin	Calibrated cross-sectional weights	Res + Nrp	vignette
Variable	Description		
samptype	sample type		
psu	primary sampling unit		
stratum	stratum		
psu2	primary sampling unit 2 (only Sweden and Belgium)		
stratum2	stratum 2 (only Sweden and Belgium)		
psu3	primary sampling unit 3 (only Belgium)		
stratum3	stratum 3 (only Belgium)		

(Hhs: households, Res: respondents, Nrp: non-responding partners)



Table 8: Weighting variables in SHARE wave 2

Variable	Weight Type	Units	Sample type
wgtadh	Sample design weights	Hhs, Res, Nrp	overall
wgtmdh	Sample design weights	Hhs, Res, Nrp	main
wgtvdh	Sample design weights	Hhs, Res, Nrp	vignette
wgtach	Calibrated cross-sectional weights	Hhs	overall
wgtmch	Calibrated cross-sectional weights	Hhs	main
wgtvch	Calibrated cross-sectional weights	Hhs	vignette
wgtaci	Calibrated cross-sectional weights	Res	overall
wgtmci	Calibrated cross-sectional weights	Res	main
wgtvci	Calibrated cross-sectional weights	Res	vignette
wgtacin	Calibrated cross-sectional weights	Res + Nrp	overall
wgtmcin	Calibrated cross-sectional weights	Res + Nrp	main
wgtvcin	Calibrated cross-sectional weights	Res + Nrp	vignette
lwgtach	Calibrated longitudinal weights	Hhs	overall (long)
lwgtmch	Calibrated longitudinal weights	Hhs	main (long)
lwgtvch	Calibrated longitudinal weights	Hhs	vignette (long)
lwgtaci	Calibrated longitudinal weights	Res	overall (long)
lwgtmci	Calibrated longitudinal weights	Res	main (long)
<i>lwgtvci</i>	Calibrated longitudinal weights	Res	vignette (long)
Variable	Description		
samptype	sample type		
psu	primary sampling unit		
stratum	stratum		
psu2	primary sampling unit 2 (only Sweden and Belgium)		
stratum2	stratum 2 (only Sweden and Belgium)		
psu3	primary sampling unit 3 (only Belgium)		
stratum3	stratum3 stratum 3 (only Belgium)		
(Hhs: households, Res: respondents, Nrp: non-responding partners)			g partners)

Appendix D provides additional information on country-specific procedures. (Please note: appendix D only documents procedures for wave 1. A detailed documentation for the weights computed for wave 2 will follow soon.)



Which weights to use?

Of course, this depends on the concrete research question. We can only provide some general advise.

Sampling design weights do not account for problems of unit nonresponse and sample attrition. Thus, these weights should be used only if you want to implement different types of corrections for nonresponse (i.e. different calibration margins, sample selection models, etc...). By the SHARE design, design weights for any eligible household member coincide with the design weight of the household. Thus, they are constant within eligible individuals of the same household. "Main" should be used if you are analyzing the main sample only, "Vignette" should be used if you are analyzing the vignette sample only, "Overall" should be used if you are analyzing both main and vignette samples. The variable "samptype" can be used to identify the different parts of SHARE sample in a given wave.

Calibrate weights compensate for problems of unit nonresponse (in the refreshment sample) and sample attrition (in the longitudinal sample) to match know totals of the target population in a given wave. These weights are applied to all 50+ sample units for which age and gender (our calibration variables) are not missing. "Hhs" weights should be used if you are analyzing a sample of households, "Res" should be used if you are analyzing a sample of individuals and non-responding partners are excluded from your sample, "Res+Nrp" should be used if you are analyzing a sample of individuals and non-responding partners are included from your sample. Are for design weights, there are also different weights for the three variants of the SHARE sample: main, vignette, overall.

Longitudinal weights compensate for problems of sample attrition between the first and the second waves. They are designed for longitudinal (panel data) studies. There are only two major differences with respect to calibrated cross sectional weights. First, they are only defined for the sub-sample of units (households and individuals) that participated to both waves of the survey (i.e. the longitudinal sample). Second, they are designed to match the target population of wave 1 that survives in wave 2. This is the appropriate concept of target population for longitudinal studies.

Computer implementation

To a varying degree, computer packages accommodate design based inference to a finite population. STATA, for instance, has a set of routines for survey sample analysis and there is a special manual. Until information about strata and clusters become released these routines are not very helpful if one intends to compute correct standard errors. However, most STATA routines can use weights. The following simple examples illustrate how sampling weights can be used in STATA to compute the correct point estimates:

How to compute a (weighted) mean of a household-level variable? Answer: sum xhhvar [aw=wgtjCH] where j=M, V or A



How to compute a (weighted) mean of an individual-level variable? Answer: sum xindvar [aw=wgtjCI] where j=M, V or A

How to compute a (weighted) cross table of two household-level variables? Answer: table xhhvar, yhhvar [aw=wgtjCH] where j=M, V or A

How to compute a (weighted) cross table of two individual-level variables? Answer: table xindvar, yindvar [aw=wgtjCI] where j= M, V or A

Please note that STATA accepts different kinds of weights depending on routine. Please consult the STATA manual to find out how these weights are used depending on routine!

In an inference to the universe of all countries each country becomes a stratum. If one is willing to proceed as if simple random sampling had been used in each country then the Stata survey commands might be used, for instance, svyset [pw=wgt***], strata(country); svymean xvar; svytab yvar xvar.

References

A detailed documentation for the weights computed for wave 2 will follow soon. For further information see:

- Appendix D
- Klevmarken, N.A., Swensson, and Patrik Hesselius (2005): The SHARE Sampling Procedures and Calibrated Design Weights. In: Börsch-Supan, A., Jürges, H.: The Survey of Health, Ageing and Retirement in Europe. Methodology, p. 28-69. Download: www.share-project.org/t3/share/uploads/tx sharepublications/SHARE BOOK METHODOLOGY Wave1.pdf
- De Luca, G. and C. Rossetti. (2008). <u>Sampling Design and Weighting Strategies in the Second Wave of SHARE</u>. *In: A. Börsch-Supan et al. Health, Ageing and Retirement in Europe (2004-2007) Starting the Longitudinal Dimension*, 331-36. Mannheim: MEA.

19.3 Imputations

by Dimitris Christelis, SHARE and CSEF, University of Naples Federico II

19.3.1 Introduction

Imputations for Release 2.3.0 of the first two waves of SHARE incorporate significant changes with respect to those for earlier releases. The changes include, among other things, the use of information from wave 2 about wave 1 variables (e.g. with respect to employment, education) and the refinement of the statistical procedures used during the imputation process. A more detailed description of the SHARE imputation methodology will be released shortly, while a briefer treatment can be found in Christelis (2008).

19.3.2 Multiple Imputation

Imputations in SHARE are performed using the methodology of multiple imputation, i.e. there are more than one imputed values for each missing



one.¹ The rationale for this approach is to try to recreate the distribution of the missing value of a particular variable (conditional on the observed values of other variables), rather than make a single guess about it. In SHARE there are five imputed values for each missing one, and thus there are five different datasets, indexed by the variable *implicat*, that differ with respect to the missing values and are identical with respect to the non-missing ones. In principle, all datasets should be used for the calculation of descriptive statistics or estimation of statistical models, as they all represent different draws from the distribution of missing values, and thus no single dataset is in any way "preferable" to the others.

The calculation of the magnitudes of interest in the context of multiple imputation can be performed as follows: let m=1,...,M index the imputation draw (with M in our case equal to 5) and let m be $\hat{\beta}_m$ our estimate of interest (e.g. sample median, regression coefficient etc.) from the m^{th} implicate dataset. Then the estimate using all M implicate datasets is simply the average of the M separate estimates, i.e.

$$\overline{\beta}_M = \frac{1}{M} \sum_{m=1}^M \hat{\beta}_m$$

The variance of this estimate consists of two parts. Let V_m be the variance estimated from the mth implicate dataset. Then the first magnitude one needs to compute is the average of all M variances, which constitutes the within-imputation variance, i.e.

$$WV_M = \frac{1}{M} \sum_{m=1}^{M} V_m$$

The second magnitude one needs to compute is the betweenimputation variance, which is given by:

$$BV_M = \frac{1}{M-1} \sum_{m=1}^{M} (\hat{\beta}_m - \overline{\beta}_M)^2$$

¹ For introductory treatments of multiple imputation and missing data analysis in general, see Allison (2002) and McKnight et al. (2007). For a more advanced treatment, see Little and Rubin (2002).



Finally, the total variance of the estimate is equal to:

$$V_M = WV_M + \frac{M+1}{M}BV_M$$

As Little and Rubin (2002) point out, the second term in the above equation represents the share of the total variance due to missing values. One can perform a usual single variable t-test of significance employing the following formula to compute the degrees of freedom n equal to:

$$n = (M-1)*\left(1 + \frac{1}{M+1} \frac{WV_m}{BV_M}\right)^2$$

In Stata 9 and 10, statistical analysis using multiple imputation can be performed by downloading the user-written package mim. In addition, one can perform likelihood ratio tests after estimation using mim by downloading the package milrtest. In Stata 11, one can find for the first time extensive in-built procedures that deal with multiply imputed datasets², while the creators of mim have also updated their procedures for Stata 11, and these can be downloaded as a package named mim2. There are also in-built procedures to deal with multiple imputation in SPSS and SAS.

19.3.3 Exchange Rates

In SHARE wave 1 there are three countries (Denmark, Sweden and Switzerland) that have currencies different than the euro, while in wave 2 Poland and the Czech Republic are added to the aforementioned group of non-euro countries. In the CAPI modules, all amounts are expressed in euros, even for the observations belonging to the non-euro countries. The exchange rate used for the conversion to euros can be found in the variable *nomxCAPI*. As a result, in the case of non-euro countries users should <u>multiply</u> by *nomxCAPI* the amounts in euros found in the CAPI modules in order to convert them in local currency.

In the release 2.3.0 imputation datasets, however, the amounts in noneuro countries are all expressed in local currency, in contrast to what took place for the imputations in earlier releases of wave 1 (the currency in which all amounts in a given country are denominated can be found in the variable *currency*). The reason for this is that, in a given country, the interviews can take place in different years. Therefore, if a question asks about what happened in the year prior to the interview or to what is true as of the time the interview, then the answer to it will refer to different

² See http://www.stata.com/stata11/mi.html



years across the sample, depending on the year of the interview. In addition, for a given person, some questions might refer to the year before the interview, and some to the time of the interview. We have therefore provided nominal exchange rates for the relevant years in each survey that can be found in the variables nomxWXYZ, where WXYZ refers to the calendar year. The user should first deduce from the phrasing of the question the time period to which it refers, compare it with the interview year and then apply the appropriate exchange rate. For example, the question that refers to wages and salaries from employment (named EP204_ in the questionnaire, ydipv in the imputed datasets), is asked with respect to the year prior to the interview. Therefore, for the wave 1 interviewees in Sweden during 2004, users should divide the amount in ydipv by the nominal exchange rate for 2003 (found in nomx2003), to convert the amount of ydipv into nominal euros.

There is an additional set of exchange rates that can be found in the variables *pppxWXYZ* (again, WXYZ refers to the calendar year). These exchange rates adjust for the difference in the purchasing power of money across countries and over time, and <u>dividing</u> by them any nominal amount (both in euros and in other currencies), will transform such amounts into real ones, denominated in prices obtaining in Germany in year 2005. It is important to note that this operation is also valid for countries that have the euro as a currency, because their price level changes over time, even if their nominal exchange rate does not.³ As is the case with the nominal exchange rates, users should be careful to determine the time period each amount refers to.

19.3.4 Non-responding partners

As was the case in wave 1, partners in couples that are not interviewed are included in the imputation datasets, and are denoted by the indicator variable *nrpartn*. Not all values for non-responding partners are imputed, however, because one can sometimes get information about them from their responding partners (e.g. with respect to their employment status, education), or because some questions are answered at the household level by the responding partner (e.g. assets in wave 2).

19.3.5 Changes in variables, new variables and other information

There have been various changes from earlier releases to Release 2.3.0 of SHARE wave 1 in the variables found in the imputation datasets. These include the following:

- a. The variables *ftinh1v-ftinh5v*, referring to inheritances received, are not imputed any more in Release 2.3.0
- b. The household-level variable referring to income from rent has been renamed from *hrentv* to *hyrentv*.

³ Data for this calculation were obtained from the benchmark purchasing power parity survey performed by the OECD in 2005, as well as from data on inflation rates in actual individual consumption also provided by the OECD.



- c. The variable referring to imputed rent from owner occupied housing *hirentv* is not present any more in Release 2.2.0. Users can apply an interest rate of their choice to the gross value of the home *homev*, in order to impute housing services from owner-occupied homes, or to the difference between *homev* and the value of the mortgage *mortv*, in order to impute the notional income accruing to the household owning the house.
- d. The purchasing power-adjusted variables <code>hnetw_p</code>, <code>hrav_p</code>, <code>hgfinv_p</code>, <code>hnfinv_p</code>, <code>hgtincv_p</code>, which respectively refer to household net worth, gross financial assets, net financial assets and gross household income are not found any more in Release 2.3.0 Users can calculate them quickly by <code>dividing</code> the corresponding nominal magnitudes <code>hnetwv</code>, <code>hrav</code>, <code>hgfinv</code>, <code>hnfinv</code>, <code>hgtincv</code> by the appropriate purchasing power-adjusted exchange rates <code>pppxWXYZ</code>. An even more careful calculation could be performed by dividing each component of those aggregates by <code>pppxWXYZ</code> and then summing the purchasing power adjusted components in order to obtain the purchasing power adjusted aggregate.
- e. The variable *ppp*, denoting the purchasing power adjustment coefficient, is not included anymore in the wave 1 data. It has been replaced by the variables *pppxWXYZ*, described in Section 3 above.

There are also a number of differences in the variables between wave 1 and wave 2 of Release 2.3.0 They are as follows:

- a. Wave 2 data include the additional variables *riskpref*, *hprcv*, *pen11v penn17v* (for descriptions see the variable list). The variable *riskpref* is asked only of the financial respondent, therefore it takes the value -99 (inapplicable) for the remaining observations.
- b. The variable *insurv*, denoting health insurance premiums, is not included in wave 2 any more.
- c. The variable *reading*, denoting self-rated reading skills, is not asked of everybody in wave 2, but mostly only of those belonging to the refresher sample. As a result, it takes the value -99 (inapplicable), for the remaining observations.
- d. The individual-level variables denoting amounts held in bank accounts (baccv), bonds (bondv), stocks/shares (stocv), mutual funds (mutfv), contractual savings for housing (contv), whole life insurance (linsv), the total value and own share of business (gbusv and hownbv), the value of cars (carv),) and the amount of debts (liabv), interest income from bank accounts (ybaccv), interest income from bonds (ybondv), dividends from stocks/shares (ystocv), and interest income and dividends from mutual funds (ymutfv) are not shown in wave 2 because the asset questions refer to the household and not to individuals,



- which as could be the case in wave 1 (especially if the two partners in a couple had separate finances). Only the corresponding household-level variables are included in wave 2, and they have the same name as the individual-level ones but with an h added in front (e.g. hbaccv).
- e. The variable *yltcv* found in wave 1 and denoting long-term insurance payments has been split into two variables in wave 2: *pultv* and *prtlv*, denoting public and private long term insurance payments, respectively.
- f. The variable *pen6v*, found in wave 1 and denoting public invalidity and incapacity pension has been consolidated in the variable *pen3v* in wave 2, that denotes both disability and incapacity pensions.

Appendix E includes a detailed list of imputed variables.

For any further information on the SHARE imputations, please contact Dimitris Christelis (e-mail: cdimitri [at] unisa.it).

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19.3.6 Imputations for Israel

In addition imputations for *Israel* are available, they are stored as an extra file and are in a different format that the main imputations module.



19.4 ISCO and NACE coding wave 1

SHARE asks respondents in wave 1 for their own, their former partner's and their parents' occupation. SHARE uses the current (1988) International Standard Classification of Occupations (ISCO-88) by the International Labour Organization (ILO) to organize jobs into groups and international comparisons. Corresponding industries are classified according to the NACE Codes (Version 4 Rev. 1 1993), created by the European Union.

Table 9: Variables used for ISCO and NACE coding

	ISCO	NACE	
		employed	self-employed
Respondent's first job	ep016_1	ep018_1	ep023_1
Respondent's second job	ep016_2	ep018_2	ep023_2
Respondent's last job	ep052_	ep054_	ep060_
Former partner's job	dn025		
Mother's job	dn029_1		
Father's job	dn029_2		_

19.4.1 ISCO

In general, the 4-digit ISCO88 is used. Please see: www.ilo.org/public/english/bureau/stat/isco/isco88/index.htm for details on the codes.

In addition, the following codes are used for special values:

0000	Does not apply
0003	Not employed
0004	Not codeable
0005	Getting education
0006	Housewife / Houseman
0007	Welfare support / pension / etc.
8000	Respondent does not know
0009	No answer
0100	Armed forces / military / soldier
9999	Invalid answer

These codes are generated as $isco_<*>$ with a corresponding English description as $text_<*>$. The following table shows the generated variables.

Table 10: Generated variables: ISCO

Generated Variable		Description	Derived From
isco_1job	text_1job	Respondent's first job	ep016_1
isco_2job	text_2job	Respondent's second job	ep016_2
isco_ljob	text_ljob	Respondent's last job	ep052_
isco_exp	text_exp	Former partner's job	dn025
isco_mo	text_mo	Mother's job	dn029_1
isco_fa	text_fa	Father's job	dn029_2



19.4.2 NACE

Please note that the industry the interviewee is working in is asked in two different questions, depending on his employment status (which is stored in ep009_). If she or he is in her or his first job self-employed, it is in variable ep023_1. Else, it is in ep018_1. For the NACE codes however, this information is combined in a single variable named nace_1job. The same is true for the industry of the second job $(ep023_2 / ep018_1)$ which is stored in nace_2job, and for the last job $(ep054_/ep060_)$ in $nace_ljob$. The corresponding English descriptions are provided in ind_1job , ind_2job , and ind_ljob respectively.

SHARE uses fewer categories for the industry codes than NACE usually does (please see www.top500.de/nace4-e.htm). Moreover, SHARE employs three new general categories and five categories for missing values. Summarized NACE-Categories used in SHARE can be found in Appendix F.

19.5 Housing and NUTS

If the interview took place in the house of the respondent, the interviewer did not ask for the type of accommodation in the HO module. Instead, the interviewer filled in this kind of information in module IV him- or herself.

For user convenience, we created wave 1 generated variables *areabldg*, *typebldg*, *floorsbl*, and *nsteps* that combine the data from the HO module (*ho036*, *ho37*, *ho042* and *ho043*) and from the IV module (*iv009* to *iv012*). These information is stored for all responding household members (regardless whether they are housing respondents or not).

	•		
Generated Variable	Description	Derive	d from
areabldg	Area of Building	iv009_	ho037_
typebldg	Type of Building	iv010_	ho036_
floorsbl	Number of Floors of Building	iv011_	ho042_
nstens	Number of Steps to Entrance	iv012	ho043

Table 11: Generated variables: housing

The Nomenclature of Territorial Units for Statistics (NUTS) is used to indicate in which territorial unit the household is located. These variables are named *nuts1*, *nuts2* and nuts3. Privacy legislation is considered. Not all NUTS levels are provided for every country. See for details on NUTS: http://ec.europa.eu/eurostat/ramon/nuts/basicnuts_regions_en.html

19.6 Health variables

Regarding cognitive function (CF), mental health (MH), physical health (PH), behavioural risk (BR), grip strength (GS) and walking speed (WS) the following variables were created for wave 1 and for wave 2. Note that some of the generated health variables are based on slightly different question wording (changes in answer categories in wave 2). See the Item Correspondence >> Deviations between wave 1 and wave 2 for details tools on www.share-project.org.

(http://www.share-project.org/_questionnaire/dev1.php?welleid=26&pid=26).



Table 12: Generated variables: health

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phactivphysical inactivityWalking Speed (WS)wspeedwalking speedwspeed2walking speed: cut-off pointGrip Strength (GS)	drinkin2	drinking more than 2 glasses of alcohol almost every day		
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wspeed2 walking speed: cut-off point Grip Strength (GS)				
Grip Strength (GS)				
	•			
IIIAAUIIV I IIIAAIIIIUIII UI UIID SUEIIUUI IIIEASUIES	maxgrip	maximum of grip strength measures		



19.6.1 Cognitive function and mental health

by Michael Dewey

orienti orientation to date, month, year and day of week:

Orientation in time – the higher the better oriented (generated

from *cf003* - *cf006*)

numeracy numeracy score:

Mathematical performance - the higher the better (generated

from *cf012* - *cf015*)

eurod depression scale EURO-D:

The score on EURO-D – high is depressed (generated from

mh002 - mh017)

eurodcat EURO-D caseness:

EURO-D caseness - 1 is a case

The following 12 variables form the EURO-D scale:

• *euro1:* depression

• euro2: pessimism

• *euro3:* suicidality

• euro4: guilt

• euro5: sleep

• euro6: interest

• *euro7:* irritability

• euro8: appetite

• *euro9:* fatique

• euro10: concentration

• euro11: enjoyment

• euro12: tearfulness

19.6.2 Physical health, behavioural risk and walking speed

by Mauricio Avendaño, Arja Aro & Johan Mackenbach

This paper documents the construction of new variables from the physical health (PH) and health behaviour (BR) modules, based on wave 1, release 2 of the SHARE data, last updated in June 2007. We have made a selection of the most important variables from the physical health and health behaviour modules that we have created for data analysis. These variables are:

GALI - Limitation with activities

This variable is based on variable *ph005*_, which has originally three categories: (1) severely limited; (2) limited, but not severely; & (3) not limited. The new variable aggregates the values that delimitate limitations, resulting in two categories: (0) not limited & (1) limited. The latter category includes severe and not severe limitations. The motivation to dichotomise this variable is the smaller numbers of severely limited when analysing data per country, gender and age groups.



SPHEU (Self-perceived health European version)

This variable is based on variables *ph002_* & *ph0053_*. This variable puts together respondents that were initially randomised to answer the self-perceived health item either at the beginning or at the end of the physical health (PH) questionnaire survey.

SPHUS (Self-perceived health US version)

This variable is based on variables *ph003_* & *ph0052_*. This variable puts together respondents that were initially randomised to answer the self-perceived health item either at the beginning or at the end of the PH questionnaire module.

SPHEU2

This variable dichotomises the European version of self-perceived health into two categories: (0) good or very good health & (1) less than good health.

SPHUS2

This variable dichotomises the US version of self-perceived health into two categories: (0) very good and excellent & (1) less than very good.

CHRONIC (number of chronic diseases)

This variable is based on items *ph006_1* to *ph006_16* and presents the number of chronic diseases reported by each individual.

CHRONIC2

This variable summarizes the variable *chronic* into the following categories: (0) less than 2 chronic diseases & (1) 2 or more chronic diseases.

SYMPTOMS (number of symptoms)

This variable is based on items *ph010_1* to *ph010_13* and presents the number of symptoms reported by each individual.

SYMPTOM2

This variable summarizes the variable *symptoms* into the following categories: (0) less than 2 symptoms & (1) 2 or more symptoms.

BMI (BODY MASS INDEX)

This variable is based on variables ph012 (weight) and ph013 (height), and is based on the following formula: BMI = $(ph012_/(ph013_)^2)*10000$. bmi is a continuous variable.

BMI₂

This variable reclassifies the variable *bmi* into the standard categories of body mass index determined by the World Health Organisation. These categories are:

- 1. Underweight (below 18.5)
- 2. Normal (18.5 24.9)
- 3. Overweight (25 29.9)
- 4. Obese (30 or higher)



The value "9999997" was created and set as a missing value. It corresponds to those values of BMI that are not likely to be correct, mostly because of a mistake either in measurement or entering of data on weight. 999997 corresponds to values that are smaller than 12, because all weight values (in variable ph012) for these subjects were unlikely to be true.

MOBILITY (number of limitations with mobility, arm function & fine motor function)

This variable is based on items *ph048_1* to *ph048_11*. It corresponds to the number of limitations with mobility, arm function & fine motor function reported by each individual.

MOBILIT2

This variable re-categorises the variable *mobility* into the following values: (0) No limitations & (1) one or more limitations with mobility, arm function & fine motor function.

MOBILIT3

This variable re-categorises the variable *mobility* into the following values: (0) Less than three limitations & (1) three or more limitations with mobility, arm function & fine motor function.

ADL (number of limitations with activities of daily living)

This variable is based on items *ph049_1* to *ph049_14*. It describes the number of limitations with activities of daily living (ADL). Six activities are included:

- Dressing, including putting on shoes and socks
- Walking across a room
- Bathing or showering
- Eating, such as cutting up your food
- Getting in and out of bed
- Using the toilet, including getting up or down

ADL₂

This variable reclassifies the variable *adl* into two categories: (0) no ADL limitations and (1) one or more limitations with ADL.

IADL (number of limitations with instrumental activities of daily living)

This variable is based on items *ph049_1* to *ph049_14*. It describes the number of limitations with instrumental activities of daily living reported by each individual. Seven activities are included:

- Using a map to figure out how to get around in a strange place
- Preparing a hot meal
- Shopping for groceries
- Making telephone calls
- Taking medications
- Doing work around the house or garden
- Managing money, such as paying bills and keeping track of expenses



IADL2

This variable reclassifies the variable *iadl* into two categories: (0) no IADL limitations and (1) one or more limitations with IADL.

CUSMOKE (current smoking)

This variable is based on variables *br0021*_ and *br002*_. It comprises information into the following categories: (1) current smoker; (2) reported in br001_ that had never smoked daily for at least one year; and (5) Former smoker (stopped smoking).

DRINKIN2 (drinking more than two glasses of alcohol almost every day or 5/6 days a week)

This variable comprises information on drinking more than two glasses of any of the three main drinks surveyed almost every day or five/six days a week. It is constructed based on variables *br011_*, *br012_* and *br013_*. This generated variable is the closest approximation to "more than the recommended levels of drinking" available in SHARE.

PHACTIV (physical inactivity)

This variable is constructed on the basis of variables *br015*_ and *br016*_ regarding levels of vigorous and moderate physical activity, respectively. Physical inactivity is defined as never or almost never engaging in neither moderate nor vigorous physical activity.

WSPEED (walking speed)

This variable is based on variables *ws011_* and *ws013_*, which were measured among individuals aged 76 years and older ONLY. Walking speed was measured twice, and the average speed of the two tests is taken. *wspeed* indicates the value of walking speed, which is obtained by dividing the sums of the distances by the times of the two measurements. Individuals who need more than 0.54 seconds and fewer than 30 seconds are included.

WSPEED2

wspeed2 offers a cut-off point for walking speed as used in previous studies, and can take two values: (1) walking speed is 0.4 meters/second or less; (0) walking speed is more than 0.4 meters/second.

19.6.3 Grip strength

by Karen Andersen-Ranberg and Inge Petersen

Maxgrip (maximum of grip strength measures)

According to instructions two grip strength measurements on each hand were recorded with a dynamometer at the interview.

Valid measurements are defined as grip strength measurements, where the two measurements of one hand differ by less than 20kg. If the difference was above (>20kg) the measurements for that hand have been recoded as MISSING.



If grip strength was only measured once on one hand, this measurement has also been recoded as MISSING. However, if there were two measurements on the other hand, these measurements have been included in this dataset.

Grip strength measurements of zero "0" or grip strength measurements above 100 kg (≥100 kg) have been recoded as MISSING.

The maxgrip is defined as the maximum grip strength measurement of both hands (2x2) or of one hand (1x2).

19.7 Social support and household composition

The file ShareRel2_GV_SUPPORT* contains derived summary variables from coverscreen (CV) and the support (SP) module. Additionally, it provides the household composition variable *hhold_in*, the type of household at the individual level and in more detail the variable *hhold_i1*. This variable is calculated from information in the CV module.

19.7.1 Social support

by Jim Ogg

Table 13: Generated variables: social support

Variable	Description						
nb_help Number of different types of help received from outside the							
	household (i.e. care, practical tasks and administrative tasks)						
who_hlp1	Identity of helper from outside the household						
who_hlp2	The identity of the helper in the household						
n_help_gi	The total number of different types of help given outside the						
, -	household (i.e. care, practical tasks and administrative tasks)						
whom_gi1	The identity of the person helped outside the household						
whom_gi2	The identity of the person cared for inside the household						

19.7.2 Household composition

The following table includes the generated variables concerning the household composition.

Table 14: Generated variables: household composition

Variable	Description
hhold_in	The household composition: the type of household (individual level).
	This is calculated from information in the file cv_r
hhold_i1	Detailed household composition: the type of household (individual
	level). This is calculated from information in the file cv_r
mother_i	Mother in household
father_i	Father in household
motlaw_i	Mother-in-law
fatlaw_i	Father-in-law
child_in	Child and/or child-in-law in household
gchild_i	Grandchild in household
family_i	Other relative in household
other_in	Other relative in household
apti_in	Great-grandchild in household



20 Alive or deceased

The sharew1_gv_dol module informs you if wave 1 respondents are still alive in wave 2 or deceased between the wave 1 and wave2.

21 Israel: additional modules

21.1 Reinterview EP-module Israel

Since the question EP005 in Israel differed from the generic version (see also the "item correspondence" on the website) in wave 1, there is an extra module to facilitate working with the data. While in all the other countries there are 5 response categories to question EP005, there are 7 in Israel: category 3 "Unemployed" was subdivided into "Unemployed, looking for a job" (Israeli category 3) and "Unemployed, not looking for a job" (Israeli category 4); category 4 "Permanently sick or disabled" (Israeli category 6) was complemented by the category "Temporarily sick or disabled" (Israeli category 5). This results in the following scheme:

Response categories EP005

Generic questionnaire	Israeli questionnaire
1) Retired	1) Retired
2) Employed or self-employed	2) Employed or self-employed
3) Unemployed	3) Unemployed, looking for a job
	4) Unemployed, not looking for a job
4) Permanently sick or disabled	5) Temporarily sick or disabled
	6) Permanently sick or disabled
5) Homemaker	7) Homemaker

Due to the generic programming of the CAPI the additional Israeli response categories caused some routing problems. The affected respondents were therefore re-interviewed by phone. In this phone interview the CAPI instrument was not used and only a subset of the questions was asked again. The newly created dataset (sharew1_rel2-2-0_ep_ilextra) contains all respondents affected by routing problems (604 people), irrespective of whether they participated in this second interview or not. Participation in the second interview is indicated by the variable reint. The variables reint_month and reint_year provide the date of the second interview. The variables with the extension "_reint" contain the new answers, and variables with the extension "_old" retain the original answer. Note that due to the correct routing, many of these old questions were not asked again, and thus may not show up in a cross-tabulation of the old and new question.

All Israeli variables in the regular EP-module (sharew1_rel2-2-0_ep) which resulted from the wrong routing were recoded as "missing" (sysmiss).

More detailed information on the extra module is available from igdc[at]savion.huji.ac.il.



21.2 Additional drop-off questions

The Israeli drop-off includes additional questions on difficult life events and pension reforms that are not asked in other countries. These variables are marked by the prefix "il". They are not included in the general drop-off data file for all countries but are downloadable as an extra data file (sharew1_rel2-2-0_dropoff_ilextra). An overview of deviations between the Israeli drop-off and the generic version is available on the SHARE website: www.share-project.org/t3/share/new_sites/SHARE-Website/Drop-offs_main/drop%20off%20deviations%20Israel.pdf

21.3 Imputations Israel

From release 2.2.0 on SHARE includes imputations for Israel, too. Since they are different from the imputations for other countries they are available as a separate data module (sharew1_rel2-3-0_imputations_ilextra).

Responsible for data cleaning and preparation of the releases:

Stephanie Stuck, Sabrina Zuber, Julie Korbmacher, Christian Hunkler, Thorsten Kneip, Mathis Schröder

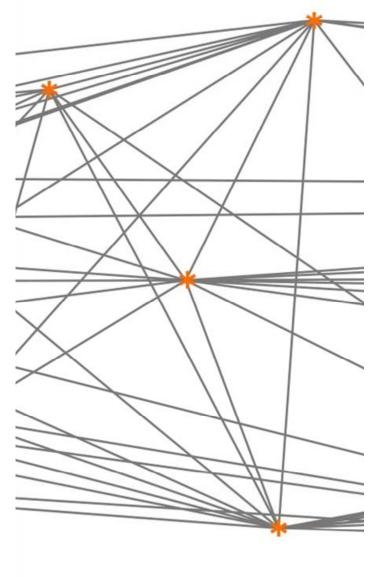
Contact: share[at]mea.uni-mannheim.de



Guide to Release 2.3.0

Waves 1 & 2

- Appendix -



mea

Mannheim Research Institute for the Economics of Aging

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A. Drop-off schedule

Table 1: Drop-off correspondence

Topic	Wave 1 (question)	Wave 1 (variable)	Wave 2 (question)	Wave 2 (variable)	Wave 2 CAPI (variable name)
	number of	name of	number of	name of	question correspondence:
	question in	variable in	question in	variable in	(1) = accurate
	drop off	data	drop off	data	(2) = almost equal
					(3) = related
Life satisfaction	1	q1	-		ac012 (3)
CASP-12	2 a)	q2_a	-		ac014 (2)
(For more information about CASP	2 b)	q2_b	-		ac015 (2)
see: Hyde, M. (2003) A measure	2 c)	q2_c			ac016 (2)
of quality of life in early old age:	2 d)	q2_d			ac017 (2)
The theory, development and	2 e)	q2_e			ac018 (2)
properties of a needs satisfaction	2 f)	q2_f			ac019 (2)
model (CASP-19). Aging and	2 g)	q2 <u>_</u> g			ac020 (2)
mental health, 7 (3), 186-194)	2 h)	q2_h	-		ac021 (2)
	2 i)	q2_i			ac022 (2)
	2 j)	q2_j			ac023 (2)
	2 k)	q2_k	-		ac024 (2)
	2 l)	q2_l	-		ac025 (2)
LOT-R	3 a)	q3_a	1 a)	q3_a	
(Life Orientation Test:	3 b)	q3_b	1 b)	q3_b	
pessimism/optimism)	3 c)	q3_c	1 c)	q3_c	
	3 d)	q3_d	1 d)	q3_d	
	3 e)	q3_e	1 e)	q3_e	
	3 f)	q3_f	1 f)	q3_f	
	3 g)	q3_g	1 g)	q3_g	



Topic	Wave 1 (question)	Wave 1 (variable)	Wave 2 (question)	Wave 2 (variable)	Wave 2 CAPI (variable name)
Depression/feelings	4 a)	q4_a	-		ac027 (3)
(CES-D)	4 b)	q4_b	-		ac028 (3)
	4 c)	q4_c	-		ac029 (3)
	4 d)	q4_d	-		ac030 (3)
	4 e)	q4_e	-		ac031 (3)
	4 f)	q4_f	-		` ,
	4 g)	q4_g	-		ac032 (3)
	4 h)	q4_h	-		ac033 (3)
	4 i)	q4_i	-		,
	4 j)	q4_j	-		ac034 (3)
	4 k)	q4_k	-		,
	4 1)	q4_l	-		
	4 m)	q4_m	-		
	4 n)	q4_n	-		
Expectations of others	5 a)	q5_a	-		
	5 b)	q5_b	-		
	5 c)	q5_c	-		
	5 d)	q5_d	-		
Family duties	6 a)	q6_a	2 a)	q6_a	
	6 b)	q6_b	2 b)	q6_b	
	6 c)	q6_c	2 c)	q6_c	
	6 d)	q6_d	2 d)	q6_d	
Family/state responsibility	7 a)	q7_a	3 a)	q7_a	
	7 b)	q7_b	3 b)	q7_b	
	7 c)	q7_c	3 c)	q7_c	
Conflicts with others	8 a)	q8_a	4 a)	q8_a	
	8 b)	q8_b	4 b)	q8_b	
	8 c)	q8_c	4 c)	q8_c	
	8 d)	q8_d	4 d)	q8_d	
	8 e)	q8_e	4 e)	q8_e	
	8 f)	q8_f	4 f)	q8_f	
	9	q9	5	q9	



Topic	Wave 1 (question)	Wave 1 (variable)	Wave 2 (question)	Wave 2 (variable)	Wave 2 CAPI (variable name)
Ever lived with partner:	10	q10	(question)		(variable name)
Responsibility for different tasks	10 11 a)	q11_a	7 a)	q10 q11_a	
Responsibility for different tasks	11 a) 11 b)	q11_a q11_b	7 a) 7 b)	q11_a q11_b	
	11 c)	q11_b q11_c	7 c)	q11_b q11_c	
	11 d)	q11_c q11_d	7 d)	q11_c q11_d	
Health	12	q12 q12	- u	<u> </u>	
General practitioner/	13 a)	q13_a	8 a)	q13_a	
usual source of care	13 b)	q13_b	8 b)	q13_b	
questions and checks	13 c)	q13_c	8 c)	q13_c	
quissions and onesite	13 d)	q13_d	8 d)	q13_d	
	13 e)	q13_e		4	
	13 f)	q13_f	8 e)	q13_f	
Health	-		9 a)	q39_a	
Talk about problems	-		9 b)	q39_b	
	-		9 c)	q39_c	
	-		9 d)	q39_d	
	-		9 e)	q39_e	
Health	-		10 a)	q40_a	
Explanations/listening	-		10 b)	q40_b	
	-		10 c)	q40_c	
Health	14	q14	-		
Prevention	15	q15	-		
	16	q16	12	q16	
	17	q17	13	q17	
	18	q18	-		
	19	q19	-		
	20	q29	-		
	21	q21			
			11 a)	q41_a	
			11 b)	q41_b	
			11 c)	q41_c	
			11 d)	q41_d	



Topic	Wave 1 (question)	Wave 1 (variable)	Wave 2 (question)	Wave 2 (variable)	Wave 2 CAPI (variable name)
Health	22	q22	-		
Joint pain	23	q23	-		
	24	q24	-		
	25	q25	-		
	26	q26	-		
	27	q27	-		
	28 a)	q28_a	-		
	28 b)	q28_b	-		
	28 c)	q28_c	-		
	29 a)	q29_a	-		
	29 b)	q29_b	-		
	29 c)	q29_c	-		
Accommodation	30 a)	q30_a	-		ho050(1)
	30 b)	q30_b	-		ho051(1)
	30 c)	q30_c	-		ho052(1)
	30 d)	q30_d	-		ho053(1)
	30 e)	q30_e	-		ho054(1)
	30 f)	q30_f	-		ho055(1)
	31 a)	q31_a	-		` ,
	31 b)	q31_b	-		
	31 c)	q31_c	-		
	31 d)	q31_d	-		
Area of accommodation	32 a)	q32_a	-		ho056(1)
	32 b)	q32_b	-		ho057(1)
	32 c)	q32_c	-		ho058(1)
	32 d)	q32_d	-		ho059(1)
Pet animals	33 a)	q33_a	14 a)	q33_a	
	33 b)	q33_b	14 b)	q33_b	
	33 c)	q33_c	14 c)	q33_c	
	33 d)	q33_d	14 d)	q33_d	
	33 e)	q33_e	14 e)	q33_e	
	33 f)	q33_f	- ′		
Religion	34	q34	-		
	35	q35	-		ex029 (1)
	36	q36	-		



B. Vignettes schedule

Table 2: Vignette correspondence

Question Legend: - = question not included	Wave 1 (question)	Wave 1 (variable)	Wave 1 (question)	Wave 1 (variable)	Wave 2 (question)	Wave 2 (variable)	Wave 2 (question)	Wave 2 (variable)
(2)=different gender	(question)	(variable)	(question)	(variable)	(question)	(variable)	(question)	(variable)
(3)=deviations in text	Vigne	ttes A	Vigne	ttes B	Vigne	ttes B	Vigne	ttes C
Own health								
bodily aches	1	v1	6	v1	1	v1	1	v1
sleeping	2	v2	5	v2	2 (3)	v2	2 (3)	v2
moving around	3	v3	4	v3	3	v3	3	v3
concentrating	4	v4	3	v4	4	v4	4	v4
shortness of breath	5	v5	2	v5	5	v5	5	v5
sadness	6	v6	1	v6	6	v6	6	v6
impairment	7	v7	7	v7	7	v7	-	-
Health examples								
headache	8	v8	25 (2)	v8	8 (3)	v8	7 (3)	v8
sleeping	9	v9	24 (2)	v9	-	-	-	-
arm and wrist	10	v10	23 (2)	v10	-	-	-	-
wake up at night	11	v11	22 (2)	v11	-	_		
knees, elbows	12	v12	21 (2)	v12	-	_		
sleepless at night	13	v13	20 (2)	v13	9 (3)	v13	8 (3)	v13
swelling in legs	14	v14	19 (2)	v14	-	-	-	
forgetfulness	15	v15	18 (2)	v15	11 (3)	v15	10 (3)	v15
physical activities	16	v16	17 (2)	v16	-	-	-	-
learn recipes	17	v17	16 (2)	v17	-			
walk 200m	18	v18	15 (2)	v18	10 (3)	v18	9 (3)	v18
concentrating	19	v19	14 (2)	v19	-	-	-	
walking slowly	20	v20	13 (2)	v20	12 (3)	v20	11 (3)	v20
depressed	21	v21	12 (2)	v21	-	-	-	
infection	22	v22	11 (2)	v22	-	-	-	-
nervous	23	v23	10 (2)	v23	-	-	-	-
smoker	24	v24	9 (2)	v24	-	-	-	-
satisfied/depressed	25	v25	8 (2)	v25	13 (3)	v25	12 (3)	v25



Question Legend: - = question not included (2)=different gender	Wave 1 (question)	Wave 1 (variable)	Wave 1 (question)	Wave 1 (variable)	Wave 2 (question)	Wave 2 (variable)	Wave 2 (question)	Wave 2 (variable)
(3)=deviations in text	Vignet	tes A	Vigne	ttes B	Vigne	ttes B	Vigne	ttes C
Health limitations examples								
back pain	26	v26	34 (2)	v26	-	-	-	-
stiffness	27	v27	33 (2)	v27	14 (3)	v27	-	-
back and legs	28	v28	32 (2)	v28	-	-		-
worried	29	v29	31 (2)	v29	-	-	-	-
mood swings	30	v30	30 (2)	v30	-	-		-
mood swings	31	v31	29 (2)	v31	15 (3)	v31		-
heart problems	32	v32	28 (2)	v32	16 (3)	v32	-	-
blood pressure	33	v33	27 (2)	v33	-	-		-
heart surgery	34	v34	26 (2)	v34	-	-	-	-
Satisfaction with aspects of ou	vn life							
income	-	-	-	-	17	v39	13	v39
social contacts	-	-	-	-	18	v40	14	v40
daily activities	-	-	_	-	19	v41	15	v41
life in general	-	-	-	-	20	v42	16	v42
Satisfaction with aspects of lif	e of exampl	es						
income	-	-	-	-	21	v43	17	v43
income	-	-	-	-	22	v44	18	v44
social contacts	-	-	-	-	23	v45	19	v45
social contacts	-	-	-	-	24	v46	20	v46
daily activities	-	-	-	-	-	-	21	v63
daily activities	-	-	-	-	-	-	22	v64
job	-	-	-	-	25	v47	-	-
job	-	-	-	-	26	v48	-	-
life in general	-	-	-	-	27	v49	23	v49
life in general	-	-	-	-	28	v50	24	v50



Question Legend: - = question not included (2)=different gender	Wave 1 (question)	Wave 1 (variable)	Wave 1 (question)	Wave 1 (variable)	Wave 2 (question)	Wave 2 (variable)	Wave 2 (question)	Wave 2 (variable)
(3)=deviations in text	Vigne	ttes A	Vigne	ettes B	Vigne	ttes B	Vigne	ttes C
Own political influence								
influence on local level	-	-	-	-	29	v51	25	v51
Political influence of examples	;							
others influence on local level	-	-	-	-	30	v52	26	v52
others influence on local level	-	-	-	-	31	v53	27	v53
Health care responsiveness, or	wn situatio	า						
wait for medical treatment	-	-	-	-	32	v54	28	v54
health facilities			_		33	v55	29	v55
communication with the doctor	-	-	-	-	34	v56	30	v56
Health care responsiveness, of	thers							
wait for medical treatment	-	-	-	-	35	v57	31	v57
communication with the doctor	-	-	-	-	36	v58	32	v58
conditions of the health facility	-	-	_	_	37	v59	33	v59
wait for medical treatment			_	_			34	v60
communication with the doctor	-		-	-	-	-	35	v61
conditions of the health facility	-	-	-	-	-	-	36	v62



C. Country-specific ISCED-97 codes and years of education

C 1 A	ustria		
	Name of the degree (as in questionnaire)	ISCED CODE	Years
Himbo	at advention ways 1.0.2		
	st education wave 1 & 2	1	4
2	Volksschule	2	<u>4</u> 8
3	Hauptschule	3	12
4	Gymnasium (öffentlich) mit Matura	3	
	Gymnasium (privat) mit Matura	4	12
5	Berufsbildende Schule mit Matura (HAK, HTL,)	3	13
6	Berufsbildende Schule ohne Matura	3	11
Ftla	an advantian ways 1 (DNO12)		
	er education wave 1 (DN012_)		10
1	Lehrabschlussprüfung	3	12
2	Meisterprüfung	5	14
	Fachakademie (Sozialakademie,	_	4 =
3	Krankenpflegeausbildung, Pädagog. Ausbildung,)	5	15
4	Fachhochschulabschluss	5	16
5	Universität	5	17
	4 (51)000 0 01/010 0 11/01/	<u> </u>	
1	er education wave 1 (DN023_ & CH018_ & IV016_		4.0
1	Lehrabschlussprüfung	3	12
2	Meisterprüfung	5	14
	Fachakademie (Sozialakademie,	_	
3	Krankenpflegeausbildung, Pädagog. Akademie,)	5	15
4	Hochschulabschluss	5	17
	e note "Hochschulabschluss" applies to both "University	" and	
"Facnn	ochschulabschluss"		
Furthe	er education <i>wave 2</i>		
1	Lehrabschlussprüfung	3	12
2	Meisterprüfung	5	14
	Fachakademie (Sozialakademie,		
3	Krankenpflegeausbildung, Pädagog. Ausbildung,)	5	15
4	Hochschulabschluss	5	17
5	Weiterführender Hochschulabschluss (Doktorat)	6	20



C 2 B	C 2 Belgium				
Value	Name of the degree (as in questionnaire)	ISCED CODE	Years		
Higher	st education <i>wave 1 & 2</i>				
riigiio	Lager onderwijs,				
11	Enseignement primaire	1	6		
	Lager secundair onderwijs - <i>kunst</i>		_		
12	Enseignement secondaire <i>inférieur général</i>	2	8		
	Lager secundair onderwijs - algemeen				
13	Enseignement secondaire inférieur artistique	2	8		
	Lager secundair onderwijs - technisch				
14	Enseignement secondaire inférieur technique (2;9)	2	8		
	Lager secundair onderwijs – beroeps				
15	Enseignement secondaire inférieur professionnel	2	8		
	Hoger secundair onderwijs – <i>kunst</i>				
16	Enseignement secondaire supérieur <i>général</i>	3	12		
	Hoger secundair onderwijs – <i>algemeen</i>	_			
17	Enseignement secondaire supérieur artistique	3	12		
10	Hoger secundair onderwijs – technisch	2	4.0		
18	Enseignement secondaire supérieur technique	3	12		
10	Hoger secundair onderwijs – beroeps	2	10		
19	Enseignement secondaire supérieur professionnel	3	12		
	e note that between the Flemish and the Dutch question				
	12 and 13 as well as 16 and 17 are switched against each other (general versus				
artistic). However, these categories still refer to the same ISCED code.					
Further education wave 1 & 2					
	Hoger onderwijs buiten de universiteit, korte type				
11	Enseignement supérieur non-universitaire de type court	5	13		
	Hoger onderwijs buiten de universiteit, lange type				
12	Enseignement supérieur non-universitaire de type long	5	15		
	Universiteit				
13	Enseignement universitaire	5	19		



C 3 Czech Republic				
		ISCED		
Value	Name of the degree (as in questionnaire)	CODE	Years	
Highes	st education wave 2			
11	Základní škola	1		
12	Učiliště 2leté bez maturity	2		
13	Učiliště 3leté bez maturity	2		
14	Střední všeobecně vzdělávací škola s maturitou	3		
15	Gymnázium	3		
Furthe	er education wave 2			
11	Střední odborné učiliště 3leté nebo 4leté s maturitou	3		
12	Střední odborná škola s maturitou SOš (průmyslovka)	3		
	Vyšší odborná škola (absolvent má maturitu a je DIS -			
13	diplomovaný specialista v oboru)	4		
14	Vysoká škola	5		

C 4 D	C 4 Denmark				
Value	Name of the degree (as in questionnaire)	ISCED CODE	Years		
Highe	st education wave 1 &2				
1	7. klasse eller kortere	1	7		
2	8. klasse eller kortere	2	8		
3	9. klasse, mellemskoleeksamen	2	9		
4	10. klasse, realeksamen	2	10		
5	Studentereksamen eller HF	3	12		
	Højere Handelseksamen (HH, HF, HHX) eller højere				
6	teknisk eksamen (HTX)	3	12		
Furthe	er education wave 1& 2				
1	Specialarbejderuddannelse	3	10.5		
2	Laerlinge- elev eller EFG-uddannelse	3	11		
3	Anden faglig uddannelse på mindst 1 år	3	14		
4	Kort videregående uddannelse under 3 år	5	15		
5	Mellemlang videregående uddannelse på 3-4 år	5	16		
6	Lang videregående uddannelse over 4 år	5	18		



C 5 France					
Value	Name of the degree (as in questionnaire)	ISCED CODE	Years		
	Highest education wave 1 & 2				
1	Certificat d'études primaires (CEP) (1;5)	1	5		
2	Brevet des collèges, BEPC, brevet élémentaire	2	9		
3	CAP, BEP, ou diplôme de ce niveau	3	11		
4	Baccalauréat technologique ou professionnel	3	12		
5	Baccalauréat général	3	12		

Please note that for the interviewer's level of education, categories 4 and 5 are switched in question IV015_. However, these categories still refer to the same ISCED code and number of years of education.

Furth	Further education wave 1 & 2 (dn012_ & dn023_ & ch018_)					
1	Diplôme de premier cycle universitaire	5	14			
2	BTS, DUT ou équivalent	5	14			
	Diplôme des professions sociales et de la santé de					
3	niveau Bac+2	5	14			
4	Autre diplôme de niveau Bac+2	5	14			
5	Diplôme de 2eme cycle universitaire	5	15			
6	Diplôme d'ingénieur, de grande école	5	17			
	Diplôme de 3eme cycle universitaire (y compris					
7	médecine, pharmacie, dentaire), doctorat	6	20			
8	Autre diplôme de niveau supérieur à Bac+2	5	14			
Further education wave 1 (iv016)						
1	Premier cycle de l'enseignement supérieur	5	14			
2	Deuxième cycle de l'enseignement supérieur	5	15			
	Grande école, école d'ingénieur, de commerce, 3eme					
3	cycle de l'université	5-6	17-20			



C 6 G	C 6 Germany				
Value	Name of the degree (as in questionnaire)	ISCED CODE	Years		
Highe	st education <i>wave 1 & 2</i>				
ingile	Volks- oder Hauptschulabschluss; 8. Klasse				
1	Polytechnische Oberschule (POS)	2A	8		
2	Realschulabschluss; 10. Klasse POS	2A	10		
3	Fachhochschulreife (3A;12)	3A	12		
4	Abitur (3A;13)	3A	13		
Furthe	er education wave 1 & 2				
	Lehre				
	if highest education = 1 or 2	3B	13		
	Lehre				
1	if highest education = 3 or 4	4A	16		
	Berufsfachschule				
	if highest education = 1 or 2	3B	13		
	Berufsfachschule				
2	if highest education = 3 or 4	4A	16		
3	Fachschule	5B	16.5		
4	Fachhochschulabschluss	5A	17		
5	Hochschulabschluss	5A	18		



C 7 G	reece		
Value	Name of the degree (as in questionnaire)	I SCED CODE	Years
Highe	st education <i>wave 1</i>		
1	Δημοτικό	1	6
2	Γυμνάσιο (3τάξιο)	2	9
	Γενικό ή Επαγγελματικό Λύκειο		<u> </u>
3	(ΤΕΛ,ΤΕΕ,Πολυκλαδικό) ή 6τάξιο Γυμνάσιο	3	12
4	IEK	4	13
		•	
Highe	st education <i>wave 2 (dn010_ & dn021_)</i>		
1	Μερικές τάξεις Δημοτικού	0	
2	Απολυτήριο Δημοτικού	1	6
3	Γυμνάσιο (3τάξιο)	2	9
	Γενικό ή Επαγγελματικό Λύκειο		
4	(ΤΕΛ,ΤΕΕ,Πολυκλαδικό) ή 6τάξιο Γυμνάσιο	3	12
5	IEK	4	13
I II ada a	-t - duration		
	st education wave 2 (ch017_)	1 1	6
2	Απολυτήριο Δημοτικού	2	6 9
	Γυμνάσιο (3τάξιο)		9
2	Γενικό ή Επαγγελματικό Λύκειο	2	10
3 4	(ΤΕΛ,ΤΕΕ,Πολυκλαδικό) ή 6τάξιο Γυμνάσιο	3 4	12 13
4	IEK	4	13
Furthe	er education wave 1		
1	(Διετής) νοσηλευτική σχολή	4	14
2	TEI	5	15.5
3	ΑΕΙ, Ανώτατες στρατιωτικές	5	17
4	Μεταπτυχιακά (MSC, MBA)	5	18
5	Διδακτορικό PhD	6	20
Furthe	er education wave 2 (dn012 & dn023)		
	Ανώτερες επαγγελματικές σχολές με διάρκεια έως δύο		
	χρόνια (νοσηλευτική, σχολές υπαξιωματικών,		
1	κομμωτική, σχολές λογιστών, σχολές ΟΑΕΔ)	4	14
2	TEI	5	15.5
3	ΑΕΙ, Ανώτατες στρατιωτικές	5	17
4	Μεταπτυχιακά (MSC, MBA)	5	18
5	Διδακτορικό PhD	6	20
6	Έχει φοιτήσει σε πανεπιστήμιο χωρίς να πάρει πτυχίο	3	
Frankla :	an advantion ways 2 (sh010)		
	er education wave 2 (ch018)	1	1.4
<u>1</u> 2	(Διετής) νοσηλευτική σχολή ΤΕΙ	5	14 15.5
3	ΑΕΙ, Ανώτατες στρατιωτικές	5	17
<u>4</u> 5	Μεταπτυχιακά (MSC, MBA)	5	18
כ	Διδακτορικό PhD	6	20



C 8 Ireland				
		ISCED		
Value	Name of the degree (as in questionnaire)	CODE	Years	
Highes	st education wave 2			
1	postgraduate (higher) degree	5	19-21	
2	primary (bachelor's) degree	5	15-17	
3	diploma or certificate	5	15-18	
4	leaving certificate or equivalent	3	11-12	
5	group / intermediate / junior cert or equivalent	2	9	
6	primary school or equivalent	1	6	
Furthe	er education wave 2			
1	commercial course	4	15-16	
2	nurses' training	5	15-17	
3	teacher's training college	5	15-17	
4	agricultural college	4	16-17	
5	regional technical college	5	15-17	
6	institute of technology	5	15-17	
7	university	5	17	
8	other college or training establishment			



C 9 Israel	
Name of the degree	CODE
Hebrew Highest education	
1. יסודית	1
2. תיכונית מקצועית חלקית (לא סיים/ה תיכון מקצועי)	2
3. תיכונית מקצועית מלאה, ללא תעודת בגרות	3
4. תיכונית מקצועית מלאה, עם תעודת בגרות	3
 תיכונית עיונית חלקית (לא סיים/ה) תיכון עיוני 	2
6. תיכונית עיונית מלאה, ללא תעודת בגרות	3
7. תיכונית עיונית מלאה, עם תעודת בגרות	3
8. ישיבה תיכונית ללא תעודת בגרות	3
9. ישיבה תיכונית עם תעודת בגרות 9. ישיבה תיכונית עם תעודת בגרות	2 3 3 2 3 3 3
Hebrew Further education	
1. ישיבה	1
2. בי"ס לאחיות	4
3. בי"ס להנדסאים	4
4. אוניברסיטה - תואר ראשון	5
5. אוניברסיטה - תואר שני או יותר	5
Arabic Highest education	
1. ایندائیة	1
2. ثانوية مهنية جزئية (لم ينهي الثانوية المهنية)	2
2. عرب نهي عربي (م يهي هـ ري هـ هي) 3. ثانوية مهنية تامة، لكن بدون شهادة بجروت	3
ل. تانویة مهنیة تامة مع شهادة بجروت.	3
4. تانوية مهية عمد مع سهده بجروت. 5. ثانوية نظرية جزئية (لم ينهي الثانوية النظرية).	2
ک. تانویه نظریه جرنیه (نم پنهی انتانویه انتظریه). 6. ثانویه نظریهٔ تامه، لکن بدون شهادهٔ بجروت.	3 3 2 3
0. تانوية نظرية تامة مع شهادة بجروت. 7. ثانوية نظرية تامة مع شهادة بجروت.	3
ر. تنویه نظریه نمه مع شهده بجروت.	
Arabic Further education	
1. كلية دينية	1
2. كلية التمريض	4
3. كلية للهندسيين	4
4. جامعية تامة - شهادة لقب أول	5
 جامعية تامة - شهادة لقب ثاني أو أكثر (M? أو أعلى) 	5
Russian Highest education	
1) Начальная школа	
2). Профессионально-техническое училище (не оконченое)	1
3) Профессионально-техническое училище (без аттестата)	2
4). Профессионально-техническое училище (се аттестата)	
5) Общеобразовательная средняя школа (не оконченая)	2
)
6) Общеобразовательная средняя школа (без аттестата)	2
7) Общеобразовательная средняя школа (с аттестатом)	3 3 2 3 3
8) Религиозная школа (без аттестата)	1
9). Религиозная школа (с аттестатом)	<u> </u>
Russian Further education	1
1) Ешива	1
2) Медицинское училище	4
3) Техникум или колледж	4
4) Институт или незаконченный университет	5
5) Оконченый университет или аспирантура или докторантура	5



C 10	C 10 Italy				
Value	Name of the degree (as in questionnaire)	ISCED CODE	Years		
Lliabo	ot advection ways 1.9.2				
	st education wave 1 & 2	1	2		
1	Esame di seconda elementare	1	2		
2	Licenza elementare	1	5		
3	Scuola media o avviamento professionale	2	8		
4	Diploma ginnasiale	3	10		
	Diploma di scuola professionale, scuola magistrale o				
5	istituto d'arte (3 anni)	3	11		
6	Diploma di scuola magistrale o liceo artistico (4 anni)	3	12		
	Maturità liceale (classico, scientifico, linguistico,				
7	artistico)	3	13		
	Maturità tecnica, professionale o istituto d'arte (5				
8	anni)	3	13		
Furthe	er education wave 1 & 2				
1	Scuole di formazione paramediche	4	14		
	Scuole di formazione professionale post-maturità				
2	(inclusi assistenti sociali)	4	15		
3	ISEF, accademie artistiche o conservatorio	5	16		
	Università: laurea, laurea breve, diploma universitario,		_		
4	scuole dirette a fini speciali	5	16		
	Università post-laurea: scuole di specializzazione,				
5	corsi di perfezionamento, dottorati di ricerca	6	21		



ValueISCED CODEYearsHighest education wave 1 & 21Basisonderwijs162VGLO of LAVO (2; 10)210Voortgezet (speciaal) onderwijs (b.v. MLK, VSO, LOM, 32103MAVO of MULO)2104Lyceum3122Lager beroepsonderwijs (b.v. LTS, LEAO, Lagere Landen Tuinbouwschool)2105Middelbaar beroepsonderwijs (b.v. MTS, MEAO, 63146Middelbare Landen Tuinbouwschool)3147MO-akten)5158NIVRA, opleidingen5169Wetenschappelijk onderwijs (universiteit)51810Speciaal onderwijs979711Leerlingwezen210	C 11 Netherlands				
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10 Speciaal onderwijs 97 97	9	· · ·		18	
	10		97	97	
	11	Leerlingwezen	2	10	
Further education					
Question was not included in the questionnaire since highest and further					
education were jointly asked for in dn010&dn021					



C 12 I	C 12 Poland				
Value	Name of the degree (as in questionnaire)	ISCED CODE	Years		
Highes	st education wave 2				
6	Szkoła podstawowa	1			
9	Gimnazjum	2			
10	Zasadnicza szkoła zawodowa	3			
11	Technikum	3			
12	Liceum zawodowe	3			
13	Liceum ogólnokształcące	3			
Furthe	er education <i>wave 2</i>				
1	Studium medyczne lub pielęgniarskie	4			
3	Inna szkoła pomaturalna lub policealna	4			
4	Politechnika	5			
5	Uniwersytet	5			
6	Akademia medyczna	5			
	Inna Akademia (ekonomiczna, rolnicza, itp.)				
7	zakończona stopniem inżyniera lub magistra	5			
8	Wyższa szkoła pedagogiczna	5			
9	Tytuł czeladnika w zawodzie	4			
10	Tytuł mistrza w zawodzie	5			

C 13 Spain				
Value	Name of the degree (as in questionnaire)	ISCED CODE	Years	
Higne	st education wave 1 & 2			
	Enseñanza primaria, o primera etapa de la EGB, o			
1	equivalente	1	6	
	Bachillerato elemental, EGB, Graduado escolar, o			
2	equivalente	2	10	
3	Bachillerato superior, BUP, o equivalente	3	12	
4	Pre-universitario o COU	3	12	
5	Estudios técnicos no superiores, FP, o equivalente		11.5	
Furthe	er education wave 1 & 2			
	Magisterio, ATS, diplomado de Escuela universitaria, o			
1	equivalente.	5	13.5	
2	Aparejador, ingeniero técnico, o equivalente.	5	13.5	
3	Licenciado	5	16	
4	Ingeniero superior, arquitecto, o equivalente.	5	17	
5	Otros estudios de tercer grado no universitarios.	5	14	



C 14 Sweden				
Value	Name of the degree (as in questionnaire)	ISCED CODE	Years	
Hiahe	st education <i>wave 1 & 2 (dn010_ & dn021_ & ch01</i>	17)		
1	Folkskola (motsvarande) mindre än sex år	1	6	
2	Folkskola 6-8 år (1;7)	1	7	
3	Folkskoleexamen och yrkesutbildning minst ett år	2	8	
4	Folkskola och läroverk åtta år	1	8	
5	Avgångsbetyg från nioårig grundskola	2	9	
6	Realexamen	2	9	
7	Avgångsbetyg från grundskola eller realexamen, samt yrkesutbildning minst ett år	2	10	
Highe	st education <i>wave 1 (IV015)</i>			
1	Folkskola (motsvarande) mindre än sex år	1	6	
2	Folkskola 6-8 år	1	7	
3	Folkskoleexamen och yrkesutbildning minst ett år	2	8	
4	Avgångsbetyg från nioårig grundskola	2	9	
5	Realexamen	2	9	
6	Avgångsbetyg från grundskola eller realexamen, samt yrkesutbildning minst ett år	2	10	
	er education wave 1 & 2	1		
1	Normalskolekompetens (flickskola)	3	12	
2	Tvåårigt gymnasium	3	11	
3	Tre- eller fyraårigt gymnasium	3	12	
4	Utbildning minst ett år utöver gymnasium eller flickskola, men EJ fullständig ögskoleexamen	4	13	
5	Examen från universitet/högskola efter minst tre års studier	5	15	



C 15	Switzerland		
Value	Name of the degree (as in questionnaire)	ISCED CODE	Years
Lligha	at advantion ways 1		
Hignes	st education wave 1		
	Ecole primaire Abschluss der Primarschule		
6	Scuola elementare	1	5
O	Ecole secondaire		<u> </u>
	Sekundarschulabschluss		
7	Certificato di studi (scuola media o ginnasio)	2	10
,	Certificato di studi (scuola media o girifiasio)		10
Highes	st education wave 2		
	Ecole primaire		
	Primarschule		
1	Scuola elementare	1	5
	Cycle d'orientation, école secondaire inférieure, pré-		
	gymnase		
	Real-/Sekundar-Bezirks-, Orientierungsschule,		
	Untergymnasium		
2	Scuola media	2	9
	10ème année, pré-apprentissage, programme		
	d'enseignement spécial (1 an)		
	10. Schuljahr, Vorlehre, Besonderer Lehrplan (1 Jahr)		
_	Corso preparatorio. Corso di pre-tirocinio, programma	_	4.0
3	didattico speciale (1 anno)	2	10
	Ecole de culture générale (2 ans). École ou cours		
	préparant á une formation professionnelle initiale (1		
	ou 2 ans)		
	Diplommittelschule (bis 2 Jahre), berufsvorbereitende		
1	Schule oder Anlehre (1 bis 2 Jahre)	3	11 5
4	Scuola di cultura generale, ciclo biennale Ecole de degré diplôme (3 ans)	<u> </u>	11.5
	Diplommittelschule (3 Jahre)		
5	Scuola di cultura generale, ciclo triennale	3	13
J	Lycée, Ecole préparant à la maturité gymnasiale ou	<u> </u>	13
	professionnelle, Ecole Normale		
	Maturitätsschule, Berufsmatura, Lehrseminar Stufe 1		
6	Liceo, scuola di maturità, scuola magistrale	3	13
	ued next page	ر ا	13
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Switzerland continued						
		ISCED				
Value	Name of the degree (as in questionnaire)	CODE	Years			
Furthe	r education <i>wave 1</i>		1			
	Ecole d'infirmières					
	Lehrabschluss/Krankenpflege-/Laborantenausbildung					
1	Scuola per le professioni infermieristiche	3	13			
	Maturité fédérale					
	Eidgenössische anerkannte Maturität/Lehrerseminar,					
2	Maturità liceale riconosciuta a livello federale	3	14			
	Ecoles professionnelles supérieures (école de					
	physiothérapie, école normale, hygiéniste dentaire,					
	ESCA, ETS)					
	Abschluss von professionellen Hochschulen/Höhere					
_	Fachschulen, Technikum (Physiotherapeuten, HWV,)					
3	Maturità profesisonale e scuole professionali superiori	4	17			
	Université (licence)/EPFL (diplôme)					
_	Universitätsabschluss/ETHZ-ETHL	_				
5	Università o Polytechnico	5	17			
Furthe	er education wave 2	ı	ı			
	Apprentissage long (CFC ou équivalent) ou école					
	professionnelle à plein temps 3-4 ans					
	Berufslehre (Eidg. Fähigkeitszeugnis o.ä.) oder					
	Vollzeit-Berufsschule					
	Apprendistato (AFC o equivalente) o scuola		4.0			
1	professionale a tempo pieno della durata di 3-4 ans	3	13			
	Formation professionnelle supérieure					
	Höhere Fach- und Berufsausbildung		4.6			
2	Formazione professionale superiore	4	16			
	Ecole professionnelle supérieure d'une durée minimale					
	de trois ans de formation à plain temps (y compris					
	diplôme post-grade)					
	Höhere Fachschule bei Vollzeitausbildung mit					
	Mindestdauer von 3 Jahren (inklusive					
	Weiterbildungsdiplom)					
	Scuola specializzata superiore con formazione a tempo					
	pieno di almento 3 anni (inclusa attestato		17			
3	postdiploma)	4	17			
	Université, Haute école (y compris diplôme postgrade)					
	Universität, Hochschule (inklusicve					
	Weiterbildungsdiplom)					
4	Università, Politecnico (inclusa la formazione post-		21			
4	universitaria)	5	21			



D. Sampling and weights

Please note: this appendix only documents procedures used for wave 1. A detailed documentation for the weights computed for wave 2 will follow soon

D 1 A short guide to the sampling weights of wave 1

by Anders Klevmarken

Sampling weights are primarily used in inference to a finite population. The research question could be for instance: "What is the total number of people with a certain disease in a given country?" Or "What was the mean income in 2003 in country X?" The population to which this inference refers could be the population of all households with at least one member aged 50 years+ in country X, or the population of all 50+ individuals in country X, or some subpopulation (domain). This kind of inference is usually design based, that is, no model assumptions about the universe are used. The whole inference is only based on the sampling design. The design weights (the inverse of the inclusion probabilities) can be used to obtain consistent point estimates of population totals or other finite population statistics. The design weights may or may not be useful also in a model dependent analysis to a "superpopulation", the kind of analysis most economists are used to. (Literature deals with the question when weights should be used in this kind of inference.)

In practice, we almost never have a complete sample, there is nonresponse. The design weights do not compensate for nonresponse. Please note that compensating for nonresponse should be seen as part of the analysis. There are no general approaches that are good for all purposes. If an analyst thinks that nonresponse is systematic in dimensions that are important for the analysis, the analyst should use a method of compensation that meets the needs of this particular analysis. As a service to the project members we have computed calibrated weights that compensate for unit nonresponse to some extent. Every user should, however, decide if these weights are good for the purpose at hand.

The data files include three different kinds of weights: design weights, calibrated household weights and calibrated individual weights. In countries with so called vignette samples each weight exists in three variants: For the main sample, the vignette sample and for the two combined.

List of weight variables:

wgtMDH wgtVDH wgtADH	Design weight for the main sample Design weight for the vignette sample Design weight for the two samples jointly
wgtMCH	Calibrated household weight for the main sample
wgtVCH	Calibrated household weight for the vignette sample
wgtACH	Calibrated household weight for the two samples jointly
wgtMCI	Calibrated individual weight for the main sample
wgtVCI	Calibrated individual weight for the vignette sample
wgtACI	Calibrated individual weight fro the two samples jointly

By the design of SHARE the probability to include any of the eligible individuals in a household is the same as the probability of including the household. Thus, the design weight is the same for the household as for any eligible individual of the household.



The calibrated weights were obtained by adjusting the design weights. The adjustment factors were obtained in a "calibration" to known population totals. In most countries we have calibrated against the total national population by age group and gender. In two countries more information was used. Additional details can be found in the table below. This procedure will, for a given household, give calibrated household weights that differ from the calibrated individual weights.

Country	Comment	Non-response correction
Austria	Not a probability sample, no true design weights available. Computations are based on the assumption of simple random sampling of households	
Denmark		Age/Gender, County
France		Age/Gender
Germany		Age/Gender
Greece		Age/Gender
Italy		Age/Gender, Geographical/City size strata
The		Age/Gender
Netherlands		_
Spain		Age/Gender
Sweden		Age/Gender
Switzerland		Age/Gender, not including people in institutions

Calibrated individual weights have been computed for responding 50+ individuals for whom we have complete information about age and gender. There are thus a few individuals with missing weights. A variable flags this and indicates reason for the missing value. No calibrated weights have been computed for individuals who are included in the cover screen but dropped out from the interview. Please also note that the calibrated weights do not compensate for any additional nonresponse in the drop-offs. Spouses less than 50 have no individual calibrated weight (missing value) because we have nothing to calibrate against (and it is really unclear what kind of calibration is desired). For countries that do not include people living in institutions in their sampling frames there is a potential problem in calibrating against population totals that include these people. (This does not apply to Switzerland.)

List of flag variables:

nowh_amh Flag, no weights due to missing birth year(s) for HH

nowh_or Flag, no weights, other reason

nowi_amr Flag, no individual weights due to missing age of respondent nowi_ne Flag, no individual weights due to non-eligible respondent (born

after 1954)

For general references to the calibration methodology see: J-C Deville and C-E. Sarndal "Calibration Estimators in Survey Sampling", <u>J of the American Statistical Association</u>, June 1992, vol 82, No 418, and S. Lundstrom and C-E Sarndal:



<u>Estimation in the presence of Nonresponse and Frame Imperfections</u>, Statistics Sweden 2001.

Please note that the weights are designed to be used in the estimation of population totals. The sum of the weights is in itself an estimate of the size of the population. A mean can thus be estimated by just normalizing the weights to 1.

The variances of design based estimates of finite population statistics depend in general on the whole design and not only on the weights. Some computer packages (like STATA) have routines that compute proper estimates for certain standard designs. They need as input data on the primary (secondary) selection unit and stratum a sample member belongs to. Due to privacy legislation we have not been able to include these data in the released files. It is thus currently not possible to compute proper variances. A possible temporary fix-up is to carry on as if we in every country had a single stage random sample with unequal sampling probabilities.

Also note that if the weights are very different one single observation can easily have a large influence on an estimate. The Italian design in particular is extreme in this sense.

For further information on sampling and weights in SHARE see also: Klevmarken, N.A., Swensson, and Patrik Hesselius (2005): The SHARE Sampling Procedures and Calibrated Design Weights. In: Börsch-Supan, A., Jürges, H.: The Survey of Health, Ageing and Retirement in Europe. Methodology, p. 28-69.

Download: www.share-

project.org/t3/share/uploads/tx_sharepublications/SHARE_BOOK_METHODOLOGY_Wave1.pdf

D 2 Sampling and weights in Belgium French

Target population, population coverage

All households with at least one French speaking member born in 1954 or earlier, living in the Belgian regions Wallonie and Bruxelles. All French speaking residents born in 1954 or earlier and their spouses/partners at the time of the interview, living in the Belgian regions Wallonie and Bruxelles.

The target population does not include:

- individuals living in 'collective households', i.e. homes for the elderly
- individuals living in the seven German speaking municipalities in the east of Belgium

Sampling Frame

Stage 1: List of all municipalities in Wallonie and Bruxelles (the two regions of Belgium that are wholly or mainly French speaking)

Stage 2: CD-ROM with telephone numbers

Frame Problems

- Some telephone numbers are not listed
- Some households are listed twice
- Business numbers are included
- Some numbers are listed, but not exportable to a data-file (see below)



Sampling Design

Three-stage sampling:

Stage 1: Selection of Municipalities

Municipalities were stratified by region (Wallonie, Bruxelles). Within Wallonie, large municipalities (Charleroi, Liège, Namur) were treated as separate strata, and selected with certainty. The other municipalities were selected by simple random sampling without replacement, and with a probability proportional to the number of private households with at least one person born before 1955.

For Bruxelles, the initial sample was later extended with an additional sample. In the initial sample for Bruxelles, sampling was one-stage, with simple random sampling of households from the whole of the region of Bruxelles, according to the procedure used in stage 2. (In the gross data-base, for these households primary_sampling_unit = 51) In the additional sample, the two-stage design was used (primary sampling units 52, 53 and 54).

Stage 2: Selection of households within selected municipalities

Within the large municipalities (Charleroi, Liège, Namur; and the initial sample in Bruxelles), the number of households to be selected was set equal to the overall sampling fraction. In all other municipalities in Wallonie, 100 addresses were selected. In the additional sample for Brussels, 200 addresses were selected in each selected municipality. Below, I will refer to the number of households to be selected in each community as nm.

For each municipality, the data for each selected municipality were exported from the telephone listings on a CD-ROM to a SPSS file. This was not possible for some entries, where the persons concerned had indicated that they did not want their data to be used for "commercial purposes". For the latter entries ("grey addresses", after the way they are presented by the CD-ROM), a special "manual" sampling procedure was devised, described in detail below ("Instructions for Sampling 'Grey' Addresses"). The number of addresses to be selected from the non-exportable entries was set for each municipality at n_m (number-of-non-exportable-entries/total-number-of entries). Overall, in the selected municipalities of Belgium_FR, non-exportable entries comprised 10.9% of all entries.

The remainder of the nm entries to be selected were sampled from the exportable entries.

The procedure to select the latter included the following elements:

- <u>business numbers</u>: In the database, business numbers could be identified as such. However, a small field investigation in one sampled municipality (which happened to be the place where I live) revealed that many shopkeepers and professionals, who live at the same address as where their business is located, are only listed as business numbers. Therefore, business numbers were *not* deleted from the list.
- double entries: Some households have two telephone numbers, or have more than one entry with the same number. On the other hand, two households may live at the same address. To eliminate double entries as much as possible, without running the risk of totally excluding any household from the list, an entry was regarded as a double entry if it met one of the following conditions:
 - 1) if both telephone number and address were the same as for another entry
 - 2) if both name and address were the same as for another entry



- 3) if the address was the same as for another entry, and it was a business number
- 4) if the address was the same as for another entry, and only a fax number was given

These double entries were deleted from the list before sampling.

- about 1.2 times the required number of entries were sampled by simple random sampling without replacement.
- from this list, entries that referred obviously not to private households (e.g., schools, hospitals, large companies, government offices and so on) were removed.
- from the remainder, the required number of entries was sampled by simple random sampling without replacement.

Stage 3: Screening for age-eligibility

The selected addresses were screened by a commercial firm that sells information on households and individuals, mainly for marketing purposes.

Overall, they were able to screen about 75 percent of all addresses. Addresses for which they had no information were screened by interviewers.

Selection probabilities

Stratum	Selection probability, stage 1	Selection probability, stage 2	Overall selection probability
1 (initial)	1	$n(A_s / A_t) / T_s$	$n(A_s / A_t) / T_s +$
1 (additional)	$c_s (A_m/A_t)$	$200/T_{\rm m}$	$(200c_sA_m)/(A_t T_m)$
31	1	$n(A_s / A_t) / T_m$	$n(A_s / A_t) / T_m$
32	1	$n(A_s / A_t) / T_m$	$n(A_s / A_t) / T_m$
33	1	$n(A_s / A_t) / T_m$	$n(A_s / A_t) / T_m$
34	$c_s (A_m/A_t)$	100/ T _m	$(100c_sA_m)/(A_t T_m)$

where:

- c_s = number of selected municipalities within stratum
- A_m = number of private households with persons born before 1955 within the municipality.
- A_s = number of private households with persons born before 1955 within the stratum
- A_t = total number of private households with persons born before 1955 in Wallonie and Bruxelles
- $T_{\rm m}$ = number of entries in telephone listings in municipality that are non-double, and do not obviously refer to addresses other than those of private households.

stratum numbers refer to those used in gross sample file.

For the actual computation of selection probabilities, the crucial assumption made is that T_m is equal to the number of private households according to the National Register.

Design Weights

The design weights are calculated as the inverse of the selection probabilities.



Vignettes

In the initial sample, the vignette sample was obtained by selecting 20% of the selected households within each municipality by simple random sampling. In the additional sample in Bruxelles, the vignette sample was obtained by selecting one-third of the selected households within each municipality by simple random sampling. The remainder were assigned to the main sample.

Joint sample weights

The description above refers to the joint sample (main + vignettes). The main sample weights are calculated by multiplying the probabilities given there by 0.8 (initial sample) or 2/3 (additional sample).

Calibration information

The calibration vector, which contains 8 gender-age groups, is as follows:

Gender Male				
Year of birth	1945-54	1935-1944	1925-1934	-1924
Number	268248	171791	136152	48243
Gender	Female			
Year of birth	1945-54	1935-1944	1925-1934	-1924
Number	275483	195692	195707	111419

These numbers were obtained from the population statistics (year 2005) of the National Institute of Statistics. The numbers were adjusted for

- the number of persons living in the German speaking municipalities.
- the number of persons living in homes for the elderly and other institutions.

Instructions for Sampling "Grey" Addresses

"Grey" addresses are addresses that are not exportable from the Infobel CD-ROM, In this case the person concerned has indicated that his/her data cannot be used for commercial purposes. The only way to copy them is to re-type them manually. Yet, we do not want to exclude them from the SHARE sample. However, their non-exportability precludes them from being sampled in the automatic way most addresses are selected.

In order to sample them "manually" in a way that is random, results in approximately equal probabilities of being selected, and is also feasible and not too costly in terms of time, the following procedure has been devised.

- For each municipality, the number of grey addresses to be sampled is determined, such that the proportion in the sample within each municipality is equal to the proportion of grey addresses within the total number of addresses for that particular municipality in the Infobel database.
- 2. Within each municipality, a number of (non-grey) starting addresses ("Adresses-départ") are selected randomly.

Now, for each municipality we do the following:

- 3. Within the Infobel Database, select all addresses of the particular municipality.
- 4. Go to the first starting address.
- 5. From this starting address, go down, counting the number of grey addresses.



- 6. Select the *third* grey address, and type-copy this in the Excel file provided.
- 7. Continue to go down, and type-copy also the *sixth* and *ninth* grey addresses (i.e. every third grey address).
- 8. Take the next starting address, and repeat steps 5-7.
- 9. Continue this process, until the predetermined number of grey addresses to be selected has been type-copied (i.e. all lines in the Excel file provided are filled).
- 10. If in the process of counting you reach the end of the database (for that particular municipality), continue counting from the top of the database.
- 11. A grey address is *not* selected if:
 - a) It clearly does not refer to a household, but to an institution, administration or company. However, if it refers to a small business, where the owner might live at the same address, it is selected and typecopied. When in doubt, select and type-copy.
 - b) If the address is the same as a non-grey address, i.e. same name and same street and street number. (We would also like to exclude grey addresses, when the names differ, but street, street number and telephone number are the same. However, as Infobel presents the addresses sorted by name, this is practically impossible.)

If a grey address is not selected, one does not take the next one, but continue selecting every third grey address, i.e. if the sixth grey address happens to be a school, you take the ninth grey address instead, as well as the twelfth grey address.

Survey Institute Panel Study of Belgian Households – Université de Liège Survey Design Contact Karel Van den Bosch (University of Antwerp)

D 3 Sampling and weights in Belgium Flemish

Target population, population coverage

All households with at least one Dutch speaking member born in 1954 or earlier in the Belgian region of Vlaanderen (Flanders). All Dutch speaking residents born in 1954 or earlier and their spouses/partners at the time of the interview in the Belgian region of Vlaanderen.

The target population does not include individuals living in "collective households", i.e. homes for the elderly.

Sampling Frame

The Belgium_NL sample in fact consists of two samples (A and B) from the same population (but at slightly different points in time), which are wholly independent of each other. They differ in the sampling frame used, and employ different designs. Sample A was the initial sample. Sample B was drawn when financial resources became available on the Flanders regional level for an extension of the survey.

Sample A: Stage 1: List of all municipalities in Vlaanderen

Stage 2: CD-ROM with telephone numbers

Sample B: Stage 1: List of all municipalities in Vlaanderen

Stage 2: National register of individuals and households



Frame Problems

Sample A: - Some telephone numbers are not listed

Some households are listed twiceBusiness numbers are included

- Some numbers are listed, but not exportable to a data-file

(see below)

Sample B: - Administrative data do not always accurately reflect the actual

household composition. (But this problem is probably not important

among persons aged 50 and over.)

Sampling Design

Sample A: Three-stage sampling:

Sample B: Two-stage sampling:

Stage 1: (Sample A and Sample B) Selection of Municipalities

The two largest municipalities within Vlaanderen (Antwerpen and Gent) were treated as separate strata, and selected with certainty. The other municipalities were selected by simple random sampling without replacement, and with a probability proportional to the number of private households with at least one person born before 1955.

Sample A: Stage 2: Selection of households within selected municipalities

Within the large municipalities (Antwerpen and Gent), the number of households to be selected was set equal to the overall sampling fraction. In all other municipalities in Vlaanderen, 100 addresses were selected.

For each municipality, the data for each selected municipality were exported from the telephone listings on a CD-ROM to a SPSS file. This was not possible for some entries, where the persons concerned had indicated that they did not want their data to be used for "commercial purposes". For the latter entries ("grey addresses", after the way they are presented by the CD-ROM.), a special "manual" sampling procedure was devised, described in detail below ("Instructions for Sampling 'Grey' Addresses"). The number of addresses to be selected from the non-exportable entries was set for each municipality at n_m (number-of-non-exportable-entries/total-number-of entries). Overall, in the selected municipalities of Belgium_NL, non-exportable entries comprised 10.3% of all entries.

The remainder of the n_m entries to be selected were sampled from the exportable entries.

The procedure to select the latter included the following elements:

- <u>business numbers</u>: In the data-base, business numbers are indicated as such. However, a small field investigation in one sampled municipality (which happened to be the place where I live) revealed that many shopkeepers and professionals, who live at the same address as where their business is located, are only listed as business numbers. Therefore, business numbers were *not* deleted from the list.
- double entries: Some households have two telephone numbers, or have more than one entry with same number. On the other hand, two households may live at the same address. To eliminate double entries as much as possible, without totally excluding any household from the list, an entry was regarded as a double entry if it met one of the following conditions:



- 1) if both telephone number and address were the same as for another entry
- 2) if both name and address were the same as for another entry
- 3) if the address was the same as for another entry, and it was a business number
- 4) if the address was the same as for another entry, and only a fax number was given

These double entries were deleted from the list before sampling.

- about 1.2 times the required number of entries were sampled by simple random sampling without replacement.
- from this list, entries that referred obviously not to private households (e.g., schools, hospitals, large companies, government offices and so on) were removed.
- from the remainder, the required number of entries was sampled by simple random sampling without replacement.

Sample B: Stage 2: Selection of households within selected municipalities

Within the large municipalities (Antwerpen and Gent), the number of households to be selected was set equal to the overall sampling fraction. In all other municipalities in Vlaanderen, 50 households were selected. Among private households with at least one person born in 1954 or earlier, the required number of households were selected by simple random sampling without replacement.

Stage 3 (Sample A only): Screening for age-eligibility

The selected addresses were screened by a commercial firm that sells information on households and individuals, mainly for marketing purposes. Overall, they were able to screen about 80 percent of all addresses. Addresses for which they had no information were screened by interviewers.

Selection probabilities

The overall probability to be selected for any household h is $p^T_h = p^A_h + p^B_h$, where the latter stand for the probabilities of being selected in sample A and sample B, respectively. Given the two-stage designs, $p^X_h = p^X_m (p^X_h|m \text{ selected})$, where X indicates sample (A, B), p^X_m is the probability that municipality m is selected in stage 1 of sample X, and $p^X_h|m$ selected indicates the probability that household h within municipality m is selected in stage 2, given that municipality m is selected in stage. The probabilities p^X_m and $p^X_h|m$ selected are given in the following table, by stratum and sample:

Stratum	Selection probability, stage	Selection probability, stage	Selection probability, stage 2, Sample B
	1	2, Sample A	
21-25	1	$n^A (A_s / A_t) / T_m$	$n^B (A_s / A_t) / A_s = n^B / A_t$
22-26	1	$n^A (A_s / A_t) / T_m$	$n^B (A_s / A_t) / A_s = n^B / A_t$
23-27	$c_s^X(A_m/A_t)$	100/ T _m	50/ A _m

where:

 $c_s^X =$ number of selected municipalities within stratum in sample X (X = A, B) $A_m =$ number of private households with persons born before 1955 within municipality.

 A_s = number of private households with persons born before 1955 within stratum



 A_t = total number of private households with persons born before 1955 in Vlaanderen

 $T_{\rm m}$ = number of entries in telephone listings in municipality that are non-double, and do not obviously refer to addresses other than those of private households.

 n^X = overall gross sample size in sample X (X = A, B) stratum numbers refer to those used in gross sample file.

For the actual computation of selection probabilities, the crucial assumption made is that T_m is equal to the number of private households according to the National Register.

Design Weights

The design weights are calculated as the inverse of the selection probabilities.

Vignettes

In sample A, the vignette sample was obtained by selecting 25% of the selected households within each municipality by simple random sampling. The remainder were assigned to the main sample.

Joint sample weights

The description above refers to the joint sample (main + vignettes). The main sample weights (sample A) are calculated by multiplying the probabilities given there by 0.75.

Calibration information

The calibration vector, which contains 8 gender-age groups, is as follows:

Gender	Male			
Year of birth	1945-54	1935-1944	1925-1934	-1924
Number	395002	291869	215187	71297
Gender	Female			
Year of birth	1945-54	1935-1944	1925-1934	-1924
Number	385424	308753	274286	136832

These numbers were obtained from the population statistics (year: 2005) of the National Institute of Statistics. The numbers were adjusted for the number of persons living in homes for the elderly and other institutions.

Instructions for Sampling "Grey" Addresses

'Grey' addresses are addresses that are not exportable from the Infobel CD-ROM, because the person concerned has indicated that his/her data cannot be used for commercial purposes. The only way to copy them is to re-type them manually. Yet, we do not want to exclude them from the SHARE sample. However, their non-exportability precludes them from being sampled in the automatic way most addresses are selected.

In order to sample them "manually" in a way that is random, results in approximately equal probabilities of being selected, and is also feasible and not too costly in terms of time, the following procedure has been devised.

- 1. For each municipality, the number of grey addresses to be sampled is determined, such that the proportion in the sample within each municipality is equal to the proportion of grey addresses within the total number of addresses for that particular municipality in the Infobel database.
- 2. Within each municipality, a number of (non-grey) starting addresses ("Adresses-départ") are selected randomly.



Now, for each municipality we do the following:

- 3. Within the Infobel Database, select all addresses of the particular municipality.
- 4. Go to the first starting address.
- 5. From this starting address, go down, counting the number of grey addresses.
- 6. Select the *third* grey address, and type-copy this in the Excel file provided.
- 7. Continue to go down, and type-copy also the *sixth* and *ninth* grey addresses (i.e. every third grey address).
- 8. Take the next starting address, and repeat steps 5-7.
- 9. Continue this process, until the predetermined number of grey addresses to be selected has been type-copied (i.e. all lines in the Excel file provided are filled).
- 10. If in the process of counting you reach the end of the database (for that particular municipality), continue counting from the top of the database.
- 11. A grey address is *not* selected if:
 - a) It clearly does not refer to a household, but to an institution, administration or company. However, if it refers to a small business, where the owner might live at the same address, it is selected and typecopied. When in doubt, select and type-copy.
 - b) If the address is the same as a non-grey address, i.e. same name and same street and street number. (We would also like to exclude grey addresses, when the names differ, but street, street number and telephone number are the same. However, as Infobel presents the addresses sorted by name, this is practically impossible.)

If a grey address is not selected, you do not take the next one, but continue selecting every third grey address, i.e. if the sixth grey address happens to be a school, you take the ninth grey address instead, as well as the twelfth grey address.

D 4 Sampling and weights in Israel

Target population, Population coverage	All households with at least one Hebrew, Arabic or Russian speaking member born in 1955 or earlier. All Hebrew, Arabic or Russian speaking residents born in 1955 or earlier and their spouses/partners at the time of the interview.
	The target population does not include individuals living in institutional residential facilities, in prisons and similar institutions. In Israel the target was set to 1700 households.
Sampling frame	Stage 1: List of all statistical regions (census districts) by population stratum, stratified as follows: 1) Jewish – Orthodox, 2) Jewish – Traditional, 3) Jewish – Immigrants from former USSR, 4) Jewish – Secular, Large Cities, 5) Jewish – Secular, Periphery, 6) Moslem, 7) Christian, 8) Druze and 9) Mixed Ethnicity. Stage 2: The Bezek computerized telephone directory (the national telephone company) matched to sampled statistical regions.
Frame problems	About 5% of the overall population is not listed in the telephone directory (fewer among the 50+ cohort). Also, a few business telephone numbers may be included in the household directory.



Auxiliary frame data that can be used by SHARE	None
Sampling design	The sample is a stratified cluster sample of the 50+ population in Israel. Within each stratum, the clustering is hierarchical: subjects within households within statistical regions within strata. In the first stage, a sample of 150 statistical regions was drawn from the 2,300 statistical regions into which Israel is divided, stratified according to the criteria mentioned above. The probability of inclusion was proportionate to the number of residents aged 50 and over in the statistical region. In the second stage, street segments in each of the selected statistical areas were listed and matched to the national residential telephone directory file. From this list of all housing units with a phone listing in a given statistical region, a fixed number of housing units was drawn. All units were then contacted to verify whether a person age 50 or older resided in the household. In the final stage each interviewer received a list of addresses and was instructed to interview all eligible persons. In calculating the number of households that needed to be drawn, we assumed intra-cluster correlation (ICC) of 0.02 within statistical areas (based on previous experience with the European Social Survey) and that 45% of households in Israel include at least one person 50 years and over. Taking these parameters into account and aiming for a 70% response rate, it was necessary to initially select a list of 38 addresses in each statistical area (12/[0.7*0.45]).
Selection probabilities	The probability that an individual is included in the sample depends on the sample size in his/her stratum, the size of the statistical region, the number of households in the region with residents aged 50 or more and number of such individuals in his/her own household. In the formulas for the sampling probabilities we use i to denote stratum, j to denote statistical region within a stratum, k to denote a household in a statistical region and I to denote an individual within a household. R(i) = the number of statistical regions in stratum i. r(i) = the number of statistical regions in the sample from stratum i. N(i,j) = the number of eligible individuals in statistical region j of stratum i. N(i) = the number of eligible individuals in stratum i. Note that $N(i) = \sum_j N(i,j).$ H(i,j) = the number of households in the final sample from statistical region j of stratum i. n(i,j) = the number of eligible individuals in household k of statistical region j of stratum i. n(i,j,k) = the number of eligible individuals who were interviewed in household k of statistical region j of stratum i. Y(i,j,k,l) is an indicator variable that equals 1 if eligible individual I in household k of statistical region j of stratum i is included in the sample,



and equals 0 otherwise.

Y(i,j,k) is an indicator variable that equals 1 if household k of statistical region j of stratum i is included in the sample, and equals 0 otherwise. Y(i,j) is an indicator variable that equals 1 if statistical region j of stratum i is included in the sample, and equals 0 otherwise.

Basic rules of conditional probability are used to compute the probability that a particular eligible individual is included in the sample, i.e. for $P\{Y(i,j,k,l)=1\}$. First, we compute the probability that the relevant statistical region is included in the sample. Then, conditional on the region being selected, we compute the probability that the household is selected. Finally, conditional on the household being selected, we compute the probability that the individual is selected.

The probability that the statistical region is selected is fixed as part of the study design to be proportional to the size of the statistical region (where size is measured by the number of eligible individuals in the region). For this sampling strategy

$$P{Y(i, j) = 1} = \frac{r(i) \times N(i, j)}{N(i)}.$$

The per stratum sample sizes r(i) were determined so that they would be proportional, up to round-off error, to N(i). Thus, up to round-off error, the probability that any statistical region was selected was proportional to the number of eligible individuals in the region.

The probability that the household is selected, given that the area is selected:

$$P\{Y(i, j, k) = 1 \mid Y(i, j) = 1\} = \frac{n(i, j)}{H(i, j)}.$$

The probability that the individual is selected:

$$P\{Y(i, j, k, l) = 1 \mid Y(i, j, k) = 1\} = \frac{n(i, j, k)}{N(i, j, k)}.$$

Combining the above terms, we find that

$$P\{Y(i, j, k, l) = 1\} = \frac{r(i) \times N(i, j) \times n(i, j) \times n(i, j, k)}{N(i) \times H(i, j) \times N(i, j, k)}.$$

We know all of the quantities involved in the last equation except for H(i,j), the number of eligible households in the statistical region. We estimate this last term from the data as follows. The average number of eligible individuals per individual household in statistical region j of stratum i is N(i,j)/H(i,j). Estimate this last quantity by the sample

average $\bar{I}(i,j) = [1/n(i,j)] \sum_k N(i,j,k)$, with the sum extending over the households that were included in the sample. Now use this quantity to estimate H(i,j) by $N(i,j)/\bar{I}(i,j)$.

The final probability calculation is

$$P\{Y(i, j, k, l) = 1\} = \frac{r(i) \times \overline{I}(i, j) \times n(i, j) \times n(i, j, k)}{N(i) \times N(i, j, k)}.$$

The overall probability that a household is selected:



	The probability that household k in statistical region j of stratum i is selected is $p\{Y(i,j,k)=1\}=P\{Y(i,j)=1\}\times P\{Y(i,j,k)=1\mid Y(i,j)=1\}=\frac{r(i)\times N(i,j)\times n(i,j)}{N(i)\times H(i,j)}.$
	As before, estimate N(i,j)/ H(i,j) by the sample average $\bar{I}(i,j) = [1/n(i,j)] \sum_k N(i,j,k)$
	This gives a final formula for household selection probabilities as $p\{Y(i,j,k)=1\} = \frac{r(i)\times \bar{I}(i,j)\times n(i,j)}{N(i)}.$
Design weights	$W(I,j,k,l) = 1 / P\{Y(i,j,k,l) = 1\}$

Vignettes	None	
Calibration The calibration vector contains 8 different gender and age grou		
information	Men born: -1925, 1926-1935, 1936-1945, 1946-1955	
	Women born: -1925, 1926-1935, 1936-1945, 1946-1955.	
	The calibration vector of population totals (in the above presented order):	
	(68100, 131300, 190700, 337800, 105500, 176800, 219400, 366600).	
	The Israeli Sample is comprised of three groups: Hebrew Speakers (mostly Jewish), Arabic Speakers (Muslims, Christians, Druze and Circassians) and Russian Speakers who immigrated to Israel from the (former) USSR after 1989. The Calibration vector of population totals for the Hebrew sub-sample (in the above presented order): (53600, 96100, 136100, 247700, 77900, 126600, 151400, 263600).	
	The Calibration vector of population totals for the Arabic sub-sample (in the above presented order):	
	(3500, 8500, 21100, 35000, 3900, 10900, 21600, 35100).	
	The Calibration vector of population totals for the Russian sub-sample (in the above presented order):	
	(11000, 26700, 33500, 55100, 23700, 39300, 46400, 67900).	

Survey Institute: B.I. and Lucille Cohen Institute for Public Opinion Research Survey design contact: Noah Lewin-Epstein



E. Imputations

Table 3: Imputations SHARE wave 1

E 1 Demographics etc. (wave 1)	
<u> </u>	
edu dn010, dn012 Education, ISCED code	
srhealtha ph003, ph052 Self-reported health, US scale	e
gali ph005 Limited in usual activities	
numeracy cf012, cf013, cf014, cf015 Numeracy score	
reading cf001 Self-rated reading skills	
adlno ph048 Number of limitations in ADLs	5
iadlno ph049 Number of limitations in IADL	_S
depress mh002 Depressed last month	
hrooms ho032 Number of rooms in the main	residence
fdistress co007 Hhd makes ends meet	
nchild ch001 Number of children	
n_gchild ch021 Number of grandchildren	
urban iv009, ho037 Location of the main residence	ce
nrpartn Indicator for Non-responding	partners

E 2 Individual-level economic variables (wave 1)

ydipv	ep205	Annual gross income from employment previous year
yindv	ep207	Annual gross income from self-employment previous year
pen1v	ep078_1	Monthly public old age pension previous year
pen2v	ep078_2	Monthly public early or pre-retirement pension previous year. In Sweden , it refers to invalidity and disability pension
pen3v	ep078_3	Monthly public disability insurance previous year. In Sweden , it refers to the survivor pension
pen4v	ep078_4	Monthly public unemployment benefit or insurance previous year. In Sweden , it refers to occupational pensions for blue-collar workers in the private sector
pen5v	ep078_5	Monthly public survivor pension from partner previous year. In Sweden , it refers to occupational pensions for white-collar workers in the private sector
pen6v	ep078_6	Monthly public invalidity or incapacity pension previous year. In Sweden , it refers to occupational pensions for goverment workers
pen7v	ep078_7	Monthly war pension previous year. In Sweden , it refers to occupational pension for municipal and local government workers
pen8v	ep078_8	Monthly private (occupational) old age pension previous year. In Sweden , it refers to other occupational pension benefit
pen9v	ep078_9	Monthly private (occupational) early retirement pension previous year. In Sweden , it refers to unemployment insurance benefits



pen10v	ep078_10	Monthly private (occupational) disability insurance previous year. In Sweden , it refers to sickness benefits
pen11v	ep078_11	Monthly private (occupational) survivor pension from partner's job previous year
reg1v	ep094_1	Monthly life insurance payment received previous year
reg2v	ep094_2	Monthly private annuity or private personal pension previous year
reg3v	ep094_3	Monthly private health insurance payment received previous year
reg4v	ep094_4	Monthly alimony received previous year
reg5v	ep094_5	Monthly regular payments from charities received previous year
yltcv	ep086	Monthly long-term care insurance previous year
inpatv	hc045	Out-of-pocket inpatient care expenditure
outpav	hc047	Out-of-pocket outpatient care expenditure
drugsv	hc049	Out-of-pocket expenditure for prescribed medicines
nursv	hc051	Out-of-pocket expenditure for nursing home care, day- care and home care
insurv	hc061	Annual payment for all health insurance contracts
oresv	ho027	Other real estate
yrentv	ho030	Income from rent
mortv	ho015	Mortgage on main residence
baccv	as003	Bank accounts
ybaccv	as005	Interest income from bank accounts
bondv	as007	Government and corporate bonds
ybondv	as009	Interest income from bonds
stocv	as011	Stocks/shares
ystocv	as015	Dividends from stocks/shares
mutfv	as017	Mutual funds
ymutfv	as058	Interest and dividend income from mutual funds
irav	as021, as024	Individual retirement accounts
contv	as027	Contractual savings for housing
linsv	as030	Whole life insurance
gbusv	as042	Total value of (partly) owned business
sbusv	as044	Percentage share of ownership in the business (in percentage points)
ownb	=gbusv*(sbusv/100)	Value of own share of the business
carv	as051	Cars
liabv	as055	Debts (non-mortgage)
ftgiv1v	ft004_1	First financial transfer given
ftgiv2v	ft004_2	Second financial transfer given
ftgiv3v	ft004_3	Third financial transfer given
	ft004_3 ft011_1	Third financial transfer given First financial transfer received
ftgiv3v		-

E 3 Household-level economic variables (wave 1)

yohmv	hh002	Annual other hhd members' gross income previous year



yohbv	hh011	Annual other hhd members' gross income from other sources previous year
homev	ho024	Hhd main residence
fahcv	co002	Hhd monthly expenditure on food at home
fohcv	co003	Hhd monthly expenditure on food outside the home
telcv	co004	Hhd monthly telephnone expenditure
rentcv	ho005	Hhd monthly rent paid
OCSCV	ho008	Hhd monthly other rent-related expenditures

E 4 Individual-level generated variables (wave 1)

	·
annpen1v	Annual value of pen1v in the previous year
annpen2v	Annual value of pen2v in the previous year
_annpen3v	Annual value of pen3v in the previous year
_annpen4v	Annual value of pen4v in the previous year
annpen5v	Annual value of pen5v in the previous year
annpen6v	Annual value of pen6v in the previous year
annpen7v	Annual value of pen7v in the previous year
annpen8v	Annual value of pen8v in the previous year
annpen9v	Annual value of pen9v in the previous year
annpen10v	Annual value of pen10v in the previous year
annpen11v	Annual value of pen11v in the previous year
annreg1v	Annual value of reg1v in the previous year
annreg2v	Annual value of reg2v in the previous year
annreg3v	Annual value of reg3v in the previous year
annreg4v	Annual value of reg4v in the previous year
annreg5v	Annual value of reg5v in the previous year

E 5 Household-level generated variables (wave 1)

	<u> </u>
hrav	Hhd real assets net of any debts on them
hgfinv	Hhd gross financial assets
hnfinv	Hhd net financial assets
hnetwv	Hhd net worth
hgtincv	Hhd total gross income
hbaccv	Hhd bank accounts
hbondv	Hhd government and corporate bonds
hstocv	Hhd stocks/shares
hmutfv	Hhd mutual funds
hirav	Hhd individual retirement accounts
hcontv	Hhd contractual savings for housing
hlinsv	Hhd whole life insurance
hownbv	Hhd value of own share of businesses
hcarv	Hhd cars
hliabv	Hhd debts (non-mortgage)
hybaccv	Hhd interest income from bank accounts
hybondv	Hhd interest income from bonds
hystocv	Hhd dividends from stocks/shares



hymutfv	Hhd interest and dividend income from mutual funds
hyrentv	Hhd income from rent

E 6 Other (wave 1)

Z G Giller (Mare 1)	
implicat	Indicator for the five implicate datasets
nomxCAPI	Nominal exchange rate to the euro used for conversion to euro in the CAPI modules, common for all interview years. One has to divide nominal non-euro amounts by this exchange rates to obtain amount in euros
nomxWXYZ	Nominal exchange rate used for year WXYZ (2003, 2004, 2005). One has to divide nominal non-euro amounts by this exchange rate to obtain amounts in euros for year WXYZ
pppxWXYZ	Purchasing power-adusted (ppp) exchange rate used for year WXYZ (2003, 2004, 2005). One has to divide nominal amounts (both in euros and in other currencies) by this exchange rate to obtain ppp-adjusted amounts in euros for year WXYZ. The price level of reference is that of Germany in 2005
wave	Wave identifier. Equal to 1 for all observations
currency	Currency in which all amounts are denominated

Table 4: Imputations SHARE wave 2

E 7 Demographics (wave 2)

	 	,
nrpartn		Indicator for non-responding partners
edu	dn010, dn012	Education, ISCED code
srhealtha	ph003	Self-reported health, US scale
gali	ph005	Limited in usual activities
numeracy	cf012, cf013, cf014, cf015	Numeracy score
reading	cf001	Self-rated reading skills (only for refresher sample)
adlno	ph048	Number of limitations in ADLs
iadlno	ph049	Number of limitations in IADLs
depress	mh002	Depressed last month
hrooms	ho032	Number of rooms in the main residence
fdistress	co007	Hhd makes ends meet
nchild	ch001	Number of children
n_gchild	ch021	Number of grandchildren
urban	iv009, ho037	Location of the main residence
riskpref	as068	Risk preferences

E 8 Individual-level economic variables (wave 2)

ydipv	ep205	Annual net income from employment, previous year
yindv	ep207	Annual net income from self-employment, previous year



pen1v	ep078_1	Monthly public old age pension, previous year
pen2v	ep078_3	Monthly public early or pre-retirement pension, previous year. In Sweden , it refers to invalidity and disability pension
pen3v	ep078_4	Monthly main public disability insurance pension, or sickness benefits, previous year. In Sweden , it refers to the survivor pension
pen4v	ep078_6	Monthly public unemployment benefit or insurance, previous year. In Sweden , it refers to occupational pensions for bluecollar workers in the private sector
pen5v	ep078_7	Monthly public survivor pension from partner, previous year. In Sweden , it refers to occupational pensions for white-collar workers in the private sector
pen7v	ep078_9	Monthly war pension, previous year. In Sweden , it refers to occupational pension for workers in municipalities, in counties or in the government
pen8v	ep324_1	Monthly private (occupational) old age pension, previous year
pen9v	ep324_4	Monthly private (occupational) early retirement pension, previous year. In Sweden , it refers to unemployment insurance benefits
pen10v	ep324_5	Monthly private (occupational) disability insurance, previous year. In Sweden , it refers to sickness benefits
pen11v	ep324_6	Monthly private (occupational) survivor pension from partner's job, previous year
pen12v	ep078_2	Monthly public old age supplementary pension or public old age second pension, previous year
pen13v	ep078_5	Monthly secondary public disability insurance pension, or sickness benefits, previous year
pen14v	ep078_8	Monthly secondary public survivor pension from spouse or partner, previous year
pen15v	ep324_2	Monthly occupational old age pension from a second job, previous year
pen16v	ep324_3	Monthly occupational old age pension from a third job, previous year
pen17v	ep324_5	(only in Sweden) - Monthly private (occupational) disability insurance, previous year
pultv	ep078_10	Monthly public long-term insurance payments, previous year
reg1v	ep094_1	Monthly life insurance payment received, previous year
reg2v	ep094_2	Monthly private annuity or private personal pension, previous year
reg3v	ep094_2	(only in Greece) Monthly private health insurance payment received, previous year
reg4v	ep094_3	Monthly alimony received, previous year
reg5v	ep094_4	Monthly regular payments from charities received, previous year
prltv	ep094_5	Monthly private long-term care insurance payments, previous year
inpatv	hc045	Out-of-pocket inpatient care expenditure, annual, previous year
outpav	hc047	Out-of-pocket outpatient care expenditure, annual, previous year
drugsv	hc049	Out-of-pocket expenditure for prescribed medicines, annual, previous year
nursv	hc051	Out-of-pocket expenditure for nursing home care, day-care and home care, annual, previous year



oresv	ho027	Other real estate
yrentv	ho030	Income from rent
mortv	ho015	Mortgage on main residence
ftgiv1v	ft004_1	First financial transfer given
ftgiv2v	ft004_2	Second financial transfer given
ftgiv3v	ft004_3	Third financial transfer given
ftrec1v	ft011_1	First financial transfer received
ftrec2v	ft011_2	Second financial transfer received
ftrec3v	ft011_3	Third financial transfer received

E 9 Household-level economic variables (wave 2)

yohmv	hh002	Annual other hhd members' net income previous year
yohbv	hh011	Annual other hhd members' net income from other sources previous year
homev	ho024	Hhd main residence
fahcv	co002	Hhd monthly expenditure on food at home
fohcv	co003	Hhd monthly expenditure on food outside the home
telcv	co004	Hhd monthly telephnone expenditure
hprcv	co011	Hhd monthly home production of food
rentcv	ho005	Hhd monthly rent paid
OCSCV	ho008	Hhd monthly other rent-related expenditures

E 10 Individual-level generated variables (wave 2)

	· /
annpen1v	Annual value of pen1v in the previous year
annpen2v	Annual value of pen2v in the previous year
annpen3v	Annual value of pen3v in the previous year
annpen4v	Annual value of pen4v in the previous year
annpen5v	Annual value of pen5v in the previous year
annpen7v	Annual value of pen7v in the previous year
annpen8v	Annual value of pen8v in the previous year
annpen9v	Annual value of pen9v in the previous year
annpen10v	Annual value of pen10v in the previous year
annpen11v	Annual value of pen11v in the previous year
annpen12v	Annual value of pen12v in the previous year
annpen13v	Annual value of pen13v in the previous year
annpen14v	Annual value of pen14v in the previous year
annpen15v	Annual value of pen15v in the previous year
annpen16v	Annual value of pen16v in the previous year
annpen17v	Annual value of pen17v in the previous year
	(only exists in Sweden)
annpultv	Annual value of pulty in the previous year
annreg1v	Annual value of reg1v in the previous year
annreg2v	Annual value of reg2v in the previous year
annreg3v	Annual value of reg3v in the previous year
annreg4v	Annual value of reg4v in the previous year
annreg5v	Annual value of reg5v in the previous year



annprltv	Annual value of prltv in the previous year
E 11 Household-	-level generated variables (wave 2)
hrav	Hhd real assets net of any debts on them
hgfinv	Hhd gross financial assets
hnfinv	Hhd net financial assets
hnetwv	Hhd net worth
hgtincv	Hhd total net income
hbaccv	Hhd bank accounts
hbondv	Hhd government and corporate bonds
hstocv	Hhd stocks/shares
hmutfv	Hhd mutual funds
hirav	Hhd individual retirement accounts
hcontv	Hhd contractual savings for housing
hlinsv	Hhd whole life insurance
hownbv	Hhd value of own share of businesses
hcarv	Hhd cars
hliabv	Hhd debts (non-mortgage)
hybaccv	Hhd interest income from bank accounts
hybondv	Hhd interest income from bonds
hystocv	Hhd dividends from stocks/shares
hymutfv	Hhd interest and dividend income from mutual funds
hyrentv	Hhd income from rent
E 12 Other (wave	•
implicat	Indicator for the five implicate datasets
nomxCAPI	Nominal exchange rate to the euro used for conversion to euro in the CAPI modules, common for all interview years. One has to divide nominal non-euro amounts by this exchange rates to obtain amount in euros
nomxWXYZ	Nominal exchange rate used for year WXYZ (2005, 2006, 2007). One has to divide nominal non-euro amounts by this exchange rate to obtain amounts in euros for year WXYZ
pppxWXYZ	Purchasing power-adusted (ppp) exchange rate used for year WXYZ (2005, 2006, 2007). One has to divide nominal amounts (both in euros and in other currencies) by this exchange rate to obtain ppp-adjusted amounts in euros for year WXYZ. The price level of reference is that of Germany in 2005
wave	Wave identifier. Equal to 2 for all observations
currency	Currency in which all amounts are denominated

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F. NACE-categories in SHARE

Table 5: Summarized NACE-categories in SHARE:

SHARE	NACE	Description
01	01	Agriculture, hunting and related service activities
	02	Forestry, logging and related service activities
	05	Fishing, operation of fish hatcheries and fish farms; service
		activities incidental to fishing
10	10	Mining of coal and lignite; extraction of peat
	11	Extraction of crude petroleum and natural gas; service
		activities incidental to oil and gas extraction excluding
		surveying
	12	Mining of uranium and thorium ores
	13	Mining of metal ores
	14	Other mining and quarrying
15	15	Manufacture of food products and beverages
	16	Manufacture of tobacco products
	17	Manufacture of textiles
	18	Manufacture of wearing apparel; dressing and dyeing of fur
	19	Tanning and dressing of leather; manufacture of luggage,
20	20	handbags, saddlery, harness and footwear Manufacture of wood and of products of wood and cork, except
20	20	furniture; manufacture of articles of straw and plaiting
		materials
	21	Manufacture of pulp, paper and paper products
22	22	Publishing, printing and reproduction of recorded media
23	23	Manufacture of coke, refined petroleum products and nuclear
		fuel
	24	Manufacture of chemicals and chemical products
	25	Manufacture of rubber and plastic products
26	26	Manufacture of other non-metallic mineral products
27	27	Manufacture of basic metals
	28	Manufacture of fabricated metal products, except machinery
		and equipment
29	29	Manufacture of machinery and equipment n.e.c.
30	30	Manufacture of office machinery and computers
	31	Manufacture of electrical machinery and apparatus n.e.c.
	32	Manufacture of radio, television and communication equipment
	22	and apparatus
	33	Manufacture of medical, precision and optical instruments,
34	34	watches and clocks Manufacture of motor vehicles, trailers and semi-trailers
34	35	Manufacture of other transport equipment
36	36	Manufacture of furniture; manufacturing n.e.c.
37	37	Recycling
40	40	Electricity, gas, steam and hot water supply
10	41	Collection, purification and distribution of water
45	45	Construction
50	50	Sale, maintenance and repair of motor vehicles and
	- -	motorcycles; retail sale of automotive fuel



SHARE	NACE	Description	
51	51	Wholesale trade and commission trade, except of motor	
vehicles and motorcycles			
52	52	Retail trade, except of motor vehicles and motorcycles; repair	
		of personal and household goods	
55	55	Hotels and restaurants	
60	60	Land transport; transport via pipelines	
	61	Water transport	
	62	Air transport	
	63	Supporting and auxiliary transport activities; activities of travel agencies	
	64	Post and telecommunications	
65	65	Financial intermediation, except insurance and pension funding	
	66	Insurance and pension funding, except compulsory social security	
	67	Activities auxiliary to financial intermediation	
70	70	Real estate activities	
	71	Renting of machinery and equipment without operator and of	
		personal and household goods	
72	72	Computer and related activities	
73	73	Research and development	
74	74	Other business activities	
75	75	Public administration and defence; compulsory social security	
80	80	Education	
85	85	Health and social work	
90	90	Sewage and refuse disposal, sanitation and similar activities	
91	91	Activities of membership organization n.e.c.	
92	92	Recreational, cultural and sporting activities	
93	93	Other service activities	
95	95	Private households with employed persons	
99	99	Extra-territorial organizations and bodies	
Addition	nal gene	ral categories:	
86	-	Production, industry, factory without further specification	
87	-	Services without further specification	
88	-	Engineering without further specification	
98	-	Soldiers; Military	
	ies for n	nissing values:	
00	-	Does not apply	
76	-	Illegible	
77	-	Refusal	
78	-	Don't know	
79	-	No answer	



G. Renamed dummy variables

Table 6: Renamed dummy variables wave 1

Wave 1		
Release 2.0.1	Release 2.2.0	
	Release 2.3.0	
Α	C	
ac004d11	ac004d1_1	
ac004d12	ac004d2_1	
ac004d13	ac004d3_1	
ac004d14	ac004d4_1	
ac004d15	ac004d5_1	
ac004d16	ac004d6_1	
ac004d17	ac004d7_1	
ac004d18	ac004d8_1	
ac004d1n	ac004dno_1	
ac004d21	ac004d1_2	
ac004d22	ac004d2_2	
ac004d23	ac004d2_2 ac004d3_2	
ac004d24	ac004d4 2	
ac004d25	ac004d5_2	
ac004d26	ac004d6_2 ac004d7 2	
ac004d27	_	
ac004d28	ac004d8_2	
ac004d2n	ac004dno_2	
ac004d31	ac004d1_3	
ac004d32	ac004d2_3	
ac004d33	ac004d3_3 ac004d4_3	
ac004d34	ac004d4_3	
ac004d35	ac004d5_3 ac004d6_3	
ac004d36	ac004d6_3	
ac004d37	ac004d7_3	
ac004d38	ac004d8_3	
ac004d3n	ac004dno_3	
ac004d41	ac004d1_4	
ac004d42	ac004d2_4	
ac004d43	ac004d3_4	
ac004d44	ac004d4_4	
ac004d45	ac004d5_4	
ac004d46	ac004d6_4	
ac004d47	ac004d7_4	
ac004d48	ac004d8_4	
ac004d4n	ac004dno_4	
ac004d51	ac004d1_5	
ac004d52	ac004d2_5	
ac004d53	ac004d3_5	
ac004d54	ac004d3_5 ac004d4_5	
ac004d55	ac004d5_5	
ac004d56	ac004d6_5	
ac004d57	ac004d7_5	
ac004d58	ac004d8_5	

Wave 1		
Release 2.0.1 Release 2.2.0		
Release 2.0.1	Release 2.3.0	
ac004d5n	ac004dno 5	
ac004d61	ac004d1 6	
ac004d62	ac004d2 6	
ac004d63	ac004d2_6	
ac004d64	ac004d3_6	
ac004d65	ac004d4_0 ac004d5_6	
ac004d66	ac004d5_6	
ac004d67	ac004d0_6 ac004d7_6	
ac004d68	ac004d7_0 ac004d8 6	
ac004d6n	ac004d8_6	
	-	
ac004d71	ac004d1_7	
ac004d72	ac004d2_7	
ac004d73	ac004d3_7	
ac004d74	ac004d4_7	
ac004d75	ac004d5_7	
ac004d76	ac004d6_7	
ac004d77	ac004d7_7	
ac004d78	ac004d8_7	
ac004d7n	ac004dno_7	
AS		
as054d7	as054dot	
CH		
ch018d11	ch018d1_1	
ch018d12	ch018d2_1	
ch018d13	ch018d3_1	
ch018d14	ch018d4_1	
ch018d15	ch018d5_1	
ch018d16	ch018d6_1	
ch018d17	ch018d7_1	
ch018d18	ch018d8_1	
ch018d19	ch018d9_1	
ch018d1n	ch018dno_1	
ch018d1o	ch018dot_1	
ch018d21	ch018d1_2	
ch018d22	ch018d2_2	
ch018d23	ch018d3_2	
ch018d24	ch018d4_2 ch018d5_2	
ch018d25	ch018d5_2	
ch018d26	ch018d6_2 ch018d7 2	
ch018d27	ch018d7_2	
ch018d28	ch018d8_2	
ch018d29	ch018d9_2	
ch018d2n	ch018dno_2	
ch018d2o	ch018dot_2	
ch018d31	ch018d1 3	



Wave 1		
Release 2.0.1	Release 2.2.0	
1.040.122	Release 2.3.0	
ch018d32	ch018d2_3	
ch018d33	ch018d3_3	
ch018d34	ch018d4_3 ch018d5_3	
ch018d35	ch018d5_3	
ch018d36	ch018d6_3	
ch018d37	ch018d7_3	
ch018d38	ch018d8_3	
ch018d39	ch018d9_3	
ch018d3n	ch018dno_3	
ch018d3o	ch018dot_3	
ch018d41	ch018d1_4	
ch018d42	ch018d2_4	
ch018d43	ch018d3_4	
ch018d44	ch018d4_4	
ch018d45	ch018d5_4	
ch018d46	ch018d6_4	
ch018d47	ch018d7_4	
ch018d48	ch018d8_4	
ch018d49	ch018d9_4	
ch018d4n	ch018dno_4	
ch018d4o	ch018dot_4	
	N	
dn012d01	dn012d1	
dn012d02	dn012d2	
dn012d03	dn012d3	
dn012d04	dn012d4	
dn012d05	dn012d5	
dn012d06	dn012d6	
dn012d07	dn012d7	
dn012d08	dn012d8	
dn012d09	dn012d9	
dn023d01	dn023d1	
dn023d02	dn023d2	
dn023d03	dn023d3	
dn023d04	dn023d4	
dn023d05	dn023d5	
dn023d06	dn023d6	
dn023d07	dn023d7	
dn023d08	dn023d8	
dn023d09	dn023d9	
EP		
ep064d01	ep064d1	
ep064d02	ep064d2	
ep064d03	ep064d3	
ep064d04	ep064d4	
ep064d05	ep064d5	
ep064d06	ep064d6	
ep064d07	ep064d7	

Wave 1		
Release 2.0.1	Release 2.2.0	
Release 2.0.1	Release 2.3.0	
ep064d08	ep064d8	
ep064d09	ep064d9	
ep064d10	ep064d10	
ep071d01	ep071d1	
ep071d02	ep071d2	
ep071d03	ep071d3	
ep071d04	ep071d4	
ep071d07	ep071d7	
ep071d05	ep071d5	
ep071d07	ep071d7	
ep071d07	ep071d7	
ep071d09	ep071d9	
	<u>Героліцэ</u> I C	
hc039d01	hc039d1	
hc039d01	hc039d1	
hc039d02	hc039d2	
hc039d04	hc039d4	
hc039d04	hc039d5	
hc039d05	hc039d6	
hc039d07	hc039d7	
hc039d07	hc039d7	
hc039d09	hc039d9	
hc039dot	hc039dot	
hc041d01	hc041d1	
hc041d01	hc041d1	
hc041d02	hc041d2	
hc041d03	hc041d3	
hc041d04	hc041d4	
hc041d05	hc041d5	
hc041d07	hc041d7	
hc041d07	hc041d7	
hc041d09		
	hc041d9	
hc043d01 hc043d02	hc043d1 hc043d2	
hc043d02	hc043d2	
hc043d03	hc043d4	
	hc043d4	
hc043d05		
hc043d06	hc043d6	
hc043d07	hc043d7	
hc043d08	hc043d8	
hc043d09	hc043d9	
hc059d01	hc059d1	
hc059d02	hc059d2	
hc059d03	hc059d3	
hc059d04	hc059d4	
hc059d05	hc059d5	
hc059d06	hc059d6	
hc059d07	hc059d7	



Wave 1		
Release 2.0.1 Release 2.2.0		
Release 2.0.1	Release 2.3.0	
hc059d08	hc059d8	
hc059d09	hc059d9	
hc060d01	hc060d1	
hc060d02	hc060d2	
hc060d03	hc060d3	
hc060d04	hc060d4	
hc060d05	hc060d5	
hc060d05	hc060d6	
hc060d07	hc060d7	
hc060d07	hc060d8	
hc060d09	hc060d9	
	H	
ph006d01	ph006d1	
ph006d02	ph006d2	
ph006d03	ph006d3	
ph006d04	ph006d4	
ph006d05	ph006d5	
ph006d06	ph006d6	
ph006d07	ph006d7	
ph006d08	ph006d8	
ph006d09	ph006d9	
ph006dot	ph006dot	
ph008d01	ph008d1	
ph008d02	ph008d2	
ph008d03	ph008d3	
ph008d04	ph008d4	
ph008d05	ph008d5	
ph008d06	ph008d6	
ph008d07	•	
ph008d08	ph008d7 ph008d8	
ph008d09	ph008d9	
ph008dot	ph008dot	
ph010d01	ph010d1	
ph010d02	ph010d2	
ph010d03	ph010d3	
ph010d04	ph010d4	
ph010d05	ph010d5	
ph010d06	ph010d6	
ph010d07	ph010d7	
ph010d08	ph010d8	
ph010d09	ph010d9	
ph010dot	ph010dot	
ph011d01	ph011d1	
ph011d02	ph011d2	
ph011d03	ph011d3	
ph011d04	ph011d4	
ph011d05	ph011d5	
ph011d06	ph011d6	

Wave 1		
Release 2.0.1 Release 2.2.0		
Release 2.0.1	Release 2.3.0	
ph011d07	ph011d7	
ph011d08	ph011d8	
ph011d09	ph011d9	
ph048d01	ph048d1	
ph048d02	ph048d2	
ph048d03	ph048d3	
ph048d04	ph048d4	
ph048d05	ph048d5	
ph048d06	ph048d6	
ph048d07	ph048d7	
ph048d08	ph048d8	
ph048d09	ph048d9	
ph049d01	ph049d1	
ph049d02	ph049d2	
ph049d03	ph049d3	
ph049d04	ph049d4	
ph049d05	ph049d5	
ph049d06	ph049d6	
ph049d07	ph049d7	
ph049d08	ph049d8	
ph049d09	ph049d9	
	Р	
sp004d11	sp004d1_1	
sp004d12	sp004d2_1	
sp004d13	sp004d3_1	
sp004d21	sp004d1_2	
sp004d22	sp004d2_2 sp004d3_2	
sp004d23		
sp004d31	sp004d1_3	
sp004d32	sp004d2_3	
sp004d33	sp004d3_3	
sp010d11	sp010d1_1	
sp010d12	sp010d2_1	
sp010d13	sp010d3_1	
sp010d21	sp010d1_2	
sp010d22	sp010d2_2	
sp010d23	sp010d3_2 sp010d1_3	
sp010d31		
sp010d32	sp010d2_3 sp010d3 3	
sp010d33		
sp015d01	sp015d1	
sp015d02	sp015d2	
sp015d03	sp015d3	
sp015d04	sp015d4	
sp015d05	sp015d5	
sp015d06	sp015d6 sp015d7	
sp015d07		
sp015d08	sp015d8	



Wave 1		
Release 2.0.1	Release 2.2.0	
	Release 2.3.0	
sp015d09	sp015d9	
sp019d01	sp019d1	
sp019d02	sp019d2	
sp019d03	sp019d3	
sp019d04	sp019d4	
sp019d05	sp019d5	
sp019d06	sp019d6	
sp019d07	sp019d7	
sp019d08	sp019d8	
sp019d09	sp019d9	

Wave 1		
Release 2.0.1	Release 2.2.0	
	Release 2.3.0	
sp021d01	sp021d1	
sp021d02	sp021d2	
sp021d03	sp021d3	
sp021d04	sp021d4	
sp021d05	sp021d5	
sp021d06	sp021d6	
sp021d07	sp021d7	
sp021d08	sp021d8	
sp021d09	sp021d9	

Table 7: Renamed dummy variables wave 2

Wave 2		
Release 1.0.1	Release 2.2.0	
	Release 2.3.0	
Α	C	
ac004d11	ac004d1_1	
ac004d12	ac004d2_1	
ac004d13	ac004d4_1	
ac004d14	ac004d5_1	
ac004d15	ac004d7_1	
ac004d1n	ac004dno_1	
ac004d21	ac004d1_2	
ac004d22	ac004d2_2	
ac004d23	ac004d4_2	
ac004d24	ac004d5_2	
ac004d25	ac004d7_2	
ac004d2n	ac004dno_2	
ac004d31	ac004d1_3	
ac004d32	ac004d2_3	
ac004d33	ac004d4_3 ac004d5_3 ac004d7_3	
ac004d34	ac004d5_3	
ac004d35	0.000.007	
ac004d3n	ac004dno_3	
ac004d41	ac004d1_4	
ac004d42	ac004d2_4	
ac004d43	ac004d4_4	
ac004d44	ac004d5_4	
ac004d45	ac004d7_4	
ac004d4n	ac004dno_4	
ac004d51	ac004d1_5	
ac004d52	ac004d2_5	
ac004d53	ac004d4_5	
ac004d54	ac004d5_5	
ac004d55	ac004d7_5	
ac004d5n	ac004dno_5	
ac004d61	ac004d1_6	

Wave 2		
Release 1.0.1	Release 2.2.0	
	Release 2.3.0	
ac004d62	ac004d2_6	
ac004d63	ac004d4_6	
ac004d64	ac004d5_6	
ac004d65	ac004d7_6	
ac004d6n	ac004dno_6	
ac004d71	ac004d1_7	
ac004d72	ac004d2_7	
ac004d73	ac004d4_7	
ac004d74	ac004d5_7	
ac004d75	ac004d7_7	
ac004d7n	ac004dno_7	
Α	S	
as054d2	as054d3	
as054d3	as054d4	
as054d4	as054d5	
as054d5	as054d6	
as054d6	as054d2	
as054d7	as054dot	
С	S	
cs005d7	cs005dot	
cs009d7	cs009dot	
	H	
ch018d11	ch018d1_1	
ch018d12	ch018d2_1	
ch018d13	ch018d3_1	
ch018d14	ch018d4_1	
ch018d15	ch018d5_1	
ch018d16	ch018d6_1	
ch018d17	ch018d7_1	
ch018d18	ch018d8_1	
ch018d19	ch018d9_1	
ch018d1a	ch018d10_1	



Wave 2		
Release 1.0.1	Release 2.2.0	
Release 1.0.1		
ab010d1b	Release 2.3.0	
ch018d1b	ch018d11_1	
ch018d1c	ch018d12_1	
ch018d1e	ch018d13_1	
ch018d1f	ch018d14_1	
ch018d1s	ch018d95_1	
ch018d1n	ch018dno_1	
ch018d1o	ch018dot_1	
ch018d21	ch018d1_2	
ch018d22	ch018d2_2 ch018d3_2	
ch018d23	cn01803_2	
ch018d24	ch018d4_2 ch018d5_2	
ch018d25	cn018d5_2	
ch018d26	ch018d6_2	
ch018d27	ch018d7_2	
ch018d28	ch018d8_2	
ch018d29	ch018d9_2	
ch018d2a	ch018d10_2 ch018d11_2	
ch018d2b		
ch018d2c	ch018d12_2	
ch018d2e	ch018d13_2	
ch018d2f	ch018d14_2	
ch018d2s	ch018d95_2	
ch018d2n	ch018dno_2	
ch018d2o	ch018dot_2	
ch018d31	ch018d1_3	
ch018d32	ch018d2_3	
ch018d33	ch018d3_3 ch018d4_3	
ch018d34		
ch018d35	ch018d5_3	
ch018d36	ch018d6_3	
ch018d37	ch018d7_3	
ch018d38	ch018d8_3	
ch018d39	ch018d9_3	
ch018d3a	ch018d10_3	
ch018d3b	ch018d11_3	
ch018d3c	ch018d12_3	
ch018d3e	ch018d13_3 ch018d14 3	
ch018d3f	_	
ch018d3s	ch018d95_3	
ch018d3n	ch018dno_3	
ch018d3o	ch018dot_3	
ch018d41	ch018d1_4	
ch018d42	ch018d2_4	
ch018d43	ch018d3_4	
ch018d44	ch018d4_4	
ch018d45	ch018d5_4	
ch018d46	ch018d6_4	
ch018d47	ch018d7_4	

Was	Wave 2		
Release 1.0.1	Release 2.2.0		
Release 1.0.1			
ch018d48	Release 2.3.0 ch018d8_4		
ch018d49	ch018d9_4		
ch018d4a	ch018d3_4		
ch018d4b	ch018d10_4		
ch018d4c	ch018d11_4		
ch018d4e	ch018d12_4		
ch018d4f	ch018d13_4		
ch018d4s	ch018d14_4		
ch018d4n	ch018dno 4		
ch018d4o	ch018dot 4		
	N		
dn023d04	dn023d4		
dn023d05	dn023d5		
dn023d06	dn023d6		
dn023d07	dn023d7		
dn023d07	dn023d8		
dn023d09	dn023d9		
	P		
ep064d01 ep064d02	ep064d1		
ep064d03	ep064d2 ep064d3		
ep064d04	ep064d4		
ep064d05	ep064d5 ep064d6		
ep064d06 ep064d07	ep064d7		
ep064d08	ep064d8		
ep064d09	ep064d9		
ep004d09	ep004d9 ep071d1		
ep071d01 ep071d02	ep071d1 ep071d2		
ep071d02	ep071d2 ep071d3		
ep071d03	ep071d3 ep071d4		
ep071d04	ep071d4 ep071d5		
ep071d05	ep071d5 ep071d6		
ep071d06 ep071d07	ep071d6 ep071d7		
ep071d07	ep071d7		
ep071d08	ep071d8		
ep071d09 ep089d01	ep071d9 ep089d1		
ep089d01	ep089d2		
ep089d03	•		
	ep089d3 ep089d4		
ep089d04 ep089d05	ep089d5		
ep089d03	ep08903 ep098d1		
ep098d02	ep098d2		
ep098d03	ep098d3		
ep098d03	<u> </u>		
	ep098d4		
ep098d05 ep110d01	ep098d5 ep110d1		
•	•		
ep110d02	ep110d2		



Wave 2	
Release 1.0.1	Release 2.2.0
Release 1.0.1	
an110d02	Release 2.3.0
ep110d03	ep110d3
ep110d04	ep110d4
ep110d05	ep110d5
ep141d06	ep110d6
ep141d01	ep141d1
ep141d02	ep141d2
ep141d03	ep141d3
ep141d04	ep141d4
ep141d05	ep141d5
ep324d01	ep324d1
ep324d02	ep324d2
ep324d03	ep324d3
ep324d04	ep324d4
ep324d05	ep324d5
ep324d06	ep324d6
	S
gs010d7	gs010dot
	C
hc005d01	hc005d1
hc005d02	hc005d2
hc005d03	hc005d3
hc005d04	hc005d4
hc005d05	hc005d5
hc005d06	hc005d6
hc005d07	hc005d7
hc005d08	hc005d8
hc005d09	hc005d9
hc039d01	hc039d1
hc039d02	hc039d2
hc039d03	hc039d3
hc039d04	hc039d4
hc039d05	hc039d5
hc039d06	hc039d6
hc039d07	hc039d7
hc039d08	hc039d8
hc039d09	hc039d9
hc039d12	hc039dot
hc070d01	hc070d1
hc070d02	hc070d2
hc070d03	hc070d3
hc070d03	hc070d4
hc070d04	hc070d5
hc070d05	hc070d5
hc070d07	hc070d7
hc070d07	hc070d7
hc070d09	hc070d9
hc071d01	hc071d1
hc071d02	hc071d2

Wav	/e 2
Release 1.0.1	Release 2.2.0
	Release 2.3.0
hc071d03	hc071d3
hc071d04	hc071d4
hc071d05	hc071d5
hc071d06	hc071d6
hc071d07	hc071d7
hc071d08	hc071d8
hc071d09	hc071d9
Р	
ph006d01	ph006d1
ph006d02	ph006d2
ph006d03	ph006d3
ph006d04	ph006d4
ph006d05	ph006d5
ph006d06	ph006d6
ph006d07	ph006d7
ph006d08	ph006d8
ph006d09	ph006d9
ph006d18	ph006dot
ph008d01	ph008d1
ph008d02	ph008d2
ph008d03	ph008d3
ph008d04	ph008d4
ph008d05	ph008d5
ph008d06	ph008d6
ph008d07	ph008d7
ph008d08	ph008d8
ph008d09	ph008d9
ph008d23	ph008dot
ph010d01	ph010d1
ph010d02	ph010d2
ph010d03	ph010d3
ph010d04	ph010d4
ph010d05	ph010d5
ph010d06	ph010d6
ph010d07	ph010d7
ph010d08	ph010d8
ph010d09	ph010d9
ph010d13	ph010dot
ph011d01	ph011d1
ph011d02	ph011d2
ph011d03	ph011d3
ph011d04	ph011d4
ph011d05	ph011d5
ph011d06	ph011d6
ph011d07	ph011d7
ph011d08	ph011d8
ph011d09	ph011d9
ph048d01	ph048d1



Wave 2	
Release 1.0.1	Release 2.2.0
	Release 2.3.0
ph048d02	ph048d2
ph048d03	ph048d3
ph048d04	ph048d4
ph048d05	ph048d5
ph048d06	ph048d6
ph048d07	ph048d7
ph048d08	ph048d8
ph048d09	ph048d9
ph049d01	ph049d1
ph049d02	ph049d2
ph049d03	ph049d3
ph049d04	ph049d4
ph049d05	ph049d5
ph049d06	ph049d6
ph049d07	ph049d7
ph049d08	ph049d8
ph049d09	ph049d9
P	F
pf007d6	pf007dot
	P
sp004d11	sp004d1_1
sp004d12	sp004d2_1
sp004d13	sp004d3_1
sp004d21	sp004d1_2
sp004d22	sp004d2_2
sp004d23	sp004d3_2
sp004d31	sp004d1_3
sp004d32	sp004d2_3 sp004d3 3
sp004d33	
sp010d11	sp010d1_1
sp010d12	sp010d2_1
sp010d13	sp010d3_1
sp010d21	sp010d1_2
sp010d22	sp010d2_2 sp010d3_2 sp010d1_3 sp010d2_3
sp010d23	sp010d3_2
sp010d31	sp010d1_3
sp010d32	
sp010d33	sp010d3_3
sp015d01	sp015d1

Wave 2		
Release 1.0.1	Release 2.2.0	
	Release 2.3.0	
sp015d02	sp015d2	
sp015d03	sp015d3	
sp015d04	sp015d4	
sp015d05	sp015d5	
sp015d06	sp015d6	
sp015d07	sp015d7	
sp015d08	sp015d8	
sp015d09	sp015d9	
sp019d01	sp019d1	
sp019d02	sp019d2	
sp019d03	sp019d3	
sp019d04	sp019d4	
sp019d05	sp019d5	
sp019d06	sp019d6	
sp019d07	sp019d7	
sp019d08	sp019d8	
sp019d09	sp019d9	
sp021d01	sp021d1	
sp021d02	sp021d2	
sp021d03	sp021d3	
sp021d04	sp021d4	
sp021d05	sp021d5	
sp021d06	sp021d6	
sp021d07	sp021d7	
sp021d08	sp021d8	
sp021d09	sp021d9	
XT		
xt020d01	xt020d1	
xt020d02	xt020d2	
xt020d03	xt020d3	
xt020d04	xt020d4	
xt020d05	xt020d5	
xt020d06	xt020d6	
xt020d07	xt020d7	
xt020d08	xt020d8	
xt020d09	xt020d9	