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Research Report

SOEP 2016 - Codebook for the \$PEQUIV file 1984-2016: CNEF variables with extended income information for the SOEP

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464

SOEP Survey Papers

Series D - Variable Descriptions and Coding

 ${\sf SOEP-The\ German\ Socio\text{-}Economic\ Panel\ study\ at\ DIW\ Berlin}$

2017

SOEP 2016 – Codebook for the \$PEQUIV File 1984-2016: CNEF Variables with Extended Income Information for the SOEP

Markus M. Grabka



Running since 1984, the German Socio-Economic Panel study (SOEP) is a wide-ranging representative longitudinal study of private households, located at the German Institute for Economic Research, DIW Berlin.

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German Socio-Economic Panel (SOEP)

Mohrenstr. 58 10117 Berlin Germany soeppapers@diw.de SOEP 2016 - Codebook for the \$PEQUIV File 1984-2016: CNEF Variables with Extended Income Information for the SOEP

Markus M. Grabka

Preface

The \$PEQUV-File is based on the Cross-National Equivalent File (CNEF) with extended income information for the SOEP. This file comprises not only the aggregated income figures provided in the CNEF but also further single income components.

The CNEF is a joint effort of researchers and staff affiliated with State Ohio University, the DIW Berlin, the University of Essex, Statistics Canada, the Melbourne Institute of Applied Economics and Social Research (MI), the Korea Labor Institute and the Swiss Foundation for research in Social Sciences (FORS) funded by the National Institute on Aging and by the DIW Berlin. For extensive documentation of the CNEF cf. https://cnef.ehe.osu.edu/ or: Joachim R. Frick, Stephen P. Jenkins, Dean R. Lillard, Oliver Lipps, and Mark Wooden (2007): The Cross-National Equivalent File (CNEF) and its Member Country Household Panel Studies. In: Schmollers Jahrbuch (Journal of Applied Social Science Studies), 127(4), p. 627-654.

General notes:

- In contrast to the original CNEF-data which is based on the 95% scientific use file of SOEP, the \$PEQUIV-files include the full 100%-sample.
- The 2016 release of the \$PEQUIV-files has been updated to include the 2016 (wave BG) SOEP data.
- Population for \$PEQUIV is made up by all members of households who were successfully interviewed (i.e., persons with \$NETTO-codes 10 to 39 in the file PPFAD and \$HNETTO-code 1 in the file HPFAD).
- For longitudinal consistency, all \$PEQUIV income variables are consistently expressed in EURO (1 Euro = 1,95583 DM) independent of the currency used in the underlying survey instruments.
- Income data is missing for Sample C in 1990 and 1991 (first 2 waves of East German sample).
- Income data is missing for Sample M3/M4 C in 2016 as not all income information was collected for this sample in 2016.

An important distinction from the original CNEF data, is that the \$PEQUIV-files have been extended to also cover all single income components considered in the aggregated annual income figures of the CNEF. In principle, these single income components correspond to the originally surveyed information (which is stored in the \$P, \$PKAL and \$H files, respectively) with some important amendments:

• Income variables are harmonized with respect to the periodicity, i.e. they give annual income (as of the previous calendar year). Components which are asked at monthly level have been multiplied by

- the number of months with receipt of the respective income (eventually, this implies imputation of missing number of months in the originally surveyed data as well as a longitudinally verified correction of implausible values).
- Any missing income information due to item-non response has been imputed according to the
 longitudinal and cross-sectional imputation procedures described in: Frick, J.R. and Grabka, M.M.
 (2005): Item-Non-Response on Income Questions in Panel surveys: Incidence, Imputation and the
 Impact on the Income Distribution. Allgemeines Statistisches Archiv (AStA) 89, 49-61.
- Any missing income information due to partial unit non response (PUNR, non responding individuals in households with at least one successful interview) has been imputed according to the longitudinal and cross-sectional imputation procedures described in: Frick, J.R.; M.M. Grabka and O. Groh-Samberg (2010): Dealing with Incomplete Household Panel Data in Inequality Research. SOEP Papers on Multidisciplinary Panel Data Research at DIW Berlin, No. 290, Berlin (see: http://www.diw.de/documents/publikationen/73/diw_01.c.354683.de/diw_sp0290.pdf forthcoming in Sociological Methods and Research). Due to lacking detailed information about income receipt, only six income components have been imputed: individual labour income (I11110\$\$), social security pensions (I11108\$\$), unemployment benefits (IUNBY\$\$), maternity benefits (IMATY\$\$), student grants (ISTUY\$\$) and private transfers (IELSE\$\$). This information is also used to generate a more thorough measure for taxes and social contributions paid by private households.
- An imputation flag for each of these single income components has been specified. These flags take a value of 1 if item-non-response on the underlying income variable has been imputed and 0 otherwise.

General variable naming conventions for the \$PEQUIV-variables: (see variable list on page 4):

Variable names are longitudinally consistent using a two-digit suffix – instead of a four-digit suffix used in the original CNEF-files – indicating the survey year
 (wave A = 84, wave B = 85, ..., wave BG = 16, \$\$ =84, 85, ..., 16).

Variable naming conventions for the single income components:

- Variable names related to income components at the individual level start with the prefix "I", e.g., Christmas bonus is given in variable IXMAS\$\$.
- The prefix "F" indicates the imputation flag, e.g. the flag variable for rental income (RENTY\$\$) is given by FRENTY\$\$.

For further information please contact: Markus M. Grabka (mgrabka@diw.de).

Variables in the cross-sectional \$PEQUIV Files

Label	Variable List	Page
Identifiers: Unique Person Number Household Identification Number Individual in Household at Survey Sub-sample Identifier Person in Household Interviewed	X11101LL X11102\$\$ X11103\$\$ X11104LL X11105\$\$	10 11 12 13 15
Demographics: Age of Individual Sex of Individual Race of Household Head Marital Status of Individual Relationship to Household Head Number of Persons in Household Number of Children in Household Education With Respect to High School Number of Years of Education Race of Individual	D11101\$\$ D11102LL D11103\$\$ D11104\$\$ D11105\$\$ D11106\$\$ D11107\$\$ D11108\$\$ D11109\$\$ D11112LL	16 17 18 19 20 21 22 23 24 25
Employment: Annual Work Hours of Individual Impute Annual Work Hours of Individual Employment Status of Individual Employment Level of Individual Primary Activity of Individual Occupation of Individual 1 Digit Industry Code of Individual 2 Digit Industry Code of Individual	E11101\$\$ E11201\$\$ E11102\$\$ E11103\$\$ E11104\$\$ E11105\$\$ E11106\$\$ E11107\$\$	26 27 28 29 30 31 32 33
Equivalence scale inputs: Number HH members age 0-13 Number HH members age 14-18 Number HH members age 0-1 Number HH members age 2-4 Number HH members age 5-7 Number HH members age 8-10 Number HH members age 11-12 Number HH members age 13-15 Number HH members age 16-18 Number HH members age 19+ or 16-18 and indep. Indicator - Wife/spouse in Household	H11101\$\$ H11102\$\$ H11103\$\$ H11104\$\$ H11105\$\$ H11106\$\$ H11107\$\$ H11108\$\$ H1110\$\$ H11112\$\$	35 35 35 35 35 35 35 35 35 35 37
Equivalence Weight algorithms: OECD Equivalence Weight Modified OECD Equivalence Weight Other Equivalence Weights		38
Location: Federal State of Residence Region of Residence	L11101\$\$ L11102\$\$	39 40
Macro-level Variables: Consumer Price Index	Y11101\$\$	41

Label	Variable List	Page
Aggregated Income variables:		
Household Pre-Government Income	I11101\$\$	42
Household Post-Government Income	I11102\$\$	43
Household Labor Income	I11103\$\$	44
Household Asset Income	I11104\$\$	45
Household Imputed Rental Value	I11105\$\$	46
Household Private Transfers	I11106\$\$	47
Household Public Transfers	I11107\$\$	48
Household Social Security Pensions	I11108\$\$	49
Total Household Taxes	I11109\$\$	50
Individual Labor Earnings	I11110\$\$	51
Household Federal Taxes	I11111\$\$	52
Household Social Security Taxes	I11112\$\$	53
Household Post-Government Income (TAXSIM)	I11113\$\$	54
Total Household Taxes (TAXSIM)	I11114\$\$	54
Household State Taxes (TAXSIM)	I11115\$\$	54
Household Federal Taxes (TAXSIM)	I11116\$\$	54
Household Private Retirement Income	I11117\$\$	55
Household Windfall Income	I11118\$\$	56
Imputation flag: Share of imputed Household Pre-Government Income	I11201\$\$	57
Imputation flag: Share of imputed Household Post-Government Income	I11202\$\$	58
Imputation flag: Share of imputed Household Labor	I11203\$\$	59
Imputation flag: Share of imputed Household Asset Income	I11204\$\$	60
Imputation flag: Household Imputed Rental Value	I11205\$\$	61
Imputation flag: Share of imputed Household Private Transfers	I11206\$\$	62
Imputation flag: Share of imputed Household Public Transfers	I11207\$\$	63
Imputation flag: Share of imputed Household Social Security Pensions	I11208\$\$	64
Imputation flag: Total Household Taxes	I11209\$\$	65
Imputation flag: Share of imputed Individual Labor Earnings	I11210\$\$	66
Imputation flag: Share of imputed Private Retirement Income	I11217\$\$	67
Imputation flag: Household Windfall Income	I11218\$\$	68
Single income components at the household level:		
Income from rental and leasing	RENTY\$\$	69 5 0
Operation, maintenance costs	OPERY\$\$	70
Interest, dividend income	DIVDY\$\$	71
Child allowance	CHSPT\$\$	72 72
Housing benefit	HOUSE\$\$	73
Nursing allowances	NURSH\$\$	74
Social assistance	SUBST\$\$	75 76
Social assistance for special circumstances	SPHLP\$\$	76
Social assistance for elderly	SSOLD\$\$	77 79
Unemployment benefit II	ALG2\$\$	78 79
Housing support for owner-occupiers	HSUP\$\$	80
Losses from capital investment	LOSSR\$\$ LOSSC\$\$	80 81
Losses from capital investment Additional child benefit	ADCHB\$\$	82
Child care subsidy	CHSUB\$\$	83
Income of children	KIDY\$\$	84
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Label	Variable List	Page
Imputation flag: Income from rental and leasing	FRENTY\$\$	85
Imputation flag: Operation, maintenance costs	FOPERY\$\$	
Imputation flag: Interest, dividend income	FDIVDY\$\$	
Imputation flag: Child allowance	FCHSPT\$\$	
Imputation flag: Housing benefit	FHOUSE\$\$	
Imputation flag: Nursing allowances	FNURSH\$\$	
Imputation flag: Social assistance	FSUBST\$\$	
Imputation flag: Social assistance for spec. circumst.	FSPHLP\$\$	
Imputation flag: Social assistance for elderly	FSSOLD\$\$	
Imputation flag: Unemployment benefit II	FALG2\$\$	
Imputation flag: Housing support for owner-occupiers	FHSUP\$\$	
Imputation flag: Losses from renting and leasing	FLOSSR\$\$	
Imputation flag: Losses from capital investment	FLOSSC\$\$ FADCHB\$\$	
Imputation flag: Additional child benefit	FCHSUB\$\$	
Imputation flag: Child care subsidy	FKIDY\$\$	
Imputation flag: Income of children	LKID I \$\$	
Single income components at the individual level:	HOD1¢¢	96
Wages, Salary from main job	IJOB1\$\$ IJOB2\$\$	86 87
Income from secondary employment	ISELF\$\$	88
Income from self-employment Combined old-age, disability, etc. pensions	IOLDY\$\$	89
Combined widows and orphans pension	IWIDY\$\$	90
Combined company pension	ICOMP\$\$	91
Combined private pension	IPRVP\$\$	92
Unemployment benefit	IUNBY\$\$	93
Unemployment assistance	IUNAY\$\$	94
Subsistence allowance	ISUBY\$\$	95
Old-age transition benefit	IERET\$\$	96
Maternity benefit	IMATY\$\$	97
Student grants	ISTUY\$\$	98
Military community service pay	IMILT\$\$	99
Alimony	IALIM\$\$	100
Advance child maintenance payment	IACHM\$\$	101
Child support, caregiver alimony	ICHSU\$\$	102
Divorce alimony, during separation	ISPOU\$\$	103
Private Transfers received	IELSE\$\$	104
Profit Withdrawal	IWITH\$\$	105
13th monthly salary	I13LY\$\$	106
14th monthly salary	I14LY\$\$	107
Christmas bonus	IXMAS\$\$	108
Vacation bonus	IHOLY\$\$	109
Profit-sharing	IGRAY\$\$	110
Other bonuses	IOTHY\$\$	111
Commuting expenses, travel grant	ITRAY\$\$	112
Indemnity payments	IDEMY\$\$	113
Statutory pension insurance	IGRV1\$\$	114
Social miners insurance pension	ISMP1\$\$	115
Civil servant pension	ICIV1\$\$	116
War victim pension	IWAR1\$\$	117
Farmer Pension Statutory accident insurance pension	IAGR1\$\$	118 119
Statutory accident insurance pension Supplementary benefits for civil servents	IGUV1\$\$	
Supplementary benefits for civil servants	IVBL1\$\$ ICOM1\$\$	120 121
Company pension Private pension	IPRV1\$\$	121
Tivate pension	11 IX V 1 ФФ	144

Label	Variable List	Page
Riester pension plan	IRIE1\$\$	123
Other pension	ISON1\$\$	124
Widows and orphans stat. pension insurance	IGRV2\$\$	125
Widows / orphans social miners insurance pens.	ISMP2\$\$	126
Widows / orphans civil servant pension	ICIV2\$\$	127
Widows / orphans war victim pension	IWAR2\$\$	128
Widows / orphans farmer pension	IAGR2\$\$	129
Widows / orphans statutory accident insurance	IGUV2\$\$	130
Widows / orphans supplement. benefits	IVBL2\$\$	131
Widows / orphans company pension	ICOM2\$\$	132
Widows / orphans private pension	IPRV2\$\$	133
Widows Riester pension plan'	IRIE2\$\$	134
Other / orphans widows pension	ISON2\$\$	135
Imputation flag: Wages, Salary from main job	FJOB1\$\$	136
Imputation flag: Income from secondary job	FJOB2\$\$	130
Imputation flag: Income from self-employment	FSELF\$\$	
Imputation flag: Unemployment benefit	FUNBY\$\$	
Imputation flag: Old-age, civil servants pens.	FOLDY\$\$	
Imputation flag: Widows / orphans pension	FWIDY\$\$	
Imputation flag: Combined company pension	FCOMP\$\$	
Imputation flag: Combined private pension	FPRVP\$\$	
Imputation flag: Unemployment assistance	FUNAY\$\$	
Imputation flag: Subsistence allowance	FSUBY\$\$	
Imputation flag: Old-age transition benefit	FERET\$\$	
Imputation flag: Maternity benefit	FMATY\$\$	
Imputation flag: Student grants	FSTUY\$\$	
Imputation flag: Military community service pay	FMILT\$\$	
Imputation flag: Alimony	FALIM\$\$	
Imputation flag: Advance child maintenance payment	FACHM\$\$	
Imputation flag: Child support, caregiver alimony	FCHSU\$\$	
Imputation flag: Divorce alimony, during separation	FSPOU\$\$	
Imputation flag: Private Transfers received	FELSE\$\$	
Imputation flag: Profit Withdrawal	FWITH\$\$	
Imputation flag: 13th monthly salary	F13LY\$\$	
Imputation flag: 14th monthly salary	F14LY\$\$	
Imputation flag: Christmas bonus	FXMAS\$\$	
Imputation flag: Vacation bonus	FHOLY\$\$	
Imputation flag: Profit-sharing	FGRAY\$\$	
Imputation flag: Other bonuses	FOTHY\$\$	
Imputation flag: Commuting, travel grant	FTRAY\$\$	
Imputation flag: Indemnity	FDEMY\$\$	
Imputation flag: Statutory pension insurance	FGRV1\$\$	137
Imputation flag: Widows stat. pension insurance	FGRV2\$\$	
Medical/health:		
Whether spent night in hospital in last year	M11101\$\$	138
Number of nights (days) spent in hospital	M11102\$\$	139
Whether had accident that required hospital	M11103\$\$	140
Frequency of sports or exercise	M11104\$\$	141
Have had stroke	M11105\$\$	142
Have or had high blood pressure/hypertension	M11106\$\$	143
Have or had diabetes	M11107\$\$	144
Have or had cancer	M11108\$\$	145
Have or had psychiatric problems	M11109\$\$	146
Have or had arthritis	M11110\$\$	147

Label	Variable List	Page
Have or had angina or heart condition	M11111\$\$	148
Have or had asthma or breathing difficulties	M111113\$ M11112\$\$	149
Have trouble climbing stairs	M11113\$\$	150
Have trouble with bath	M11114\$\$	151
Have trouble dressing	M11115\$\$	152
Have trouble getting out of bed	M11116\$\$	153
Have trouble shopping	M11117\$\$	154
Have trouble walking	M11118\$\$	155
Have trouble doing housework	M11119\$\$	156
Have trouble bending, lifting, stooping	M11120\$\$	157
Health limits vigorous physical activities	M11121\$\$	158
Height (in meters)	M11122\$\$	159
Weight (in kilos)	M11123\$\$	160
Disability Status of Individual	M11124\$\$	161
Subjective Satisfaction with Health	M11125\$\$	162
Self-Rated Health Status	M11126\$\$	163
Number of doctor visits in previous year	M11127\$\$	164
Psychological information:-		
Overall life satisfaction	P11101\$\$	165
Weights:		
Individuals Cross-sectional Weight – without 1 st wave of a subsample	W11101\$\$	166
Household Weight	W11102\$\$	167
Longitudinal Weight – Respondent Individuals	W11103\$\$	168
Population Factor for W11101\$\$	W11104\$\$	169
Cross-sectional Weight – all samples	W11105\$\$	170
Cross-sectional Weight – Enumerated Individuals	W11107\$\$	171
Longitudinal Weight – Enumerated Individuals	W11108\$\$	
Population Factor for W11103\$\$	W11109\$\$	
Population Factor for W11107\$\$	W11110\$\$	
Population Factor for W11108\$\$	W11111\$\$	
References:		172

Using the \$PEQUIV File Codebook

Variable Name I11110\$\$

Name of Variable in the \$PEQUIV-File

Variable Label Labor Earnings of Individual

Unit of Observation Individual / Household / Year

Period Annual Periodicity

Description of Variable Content

Description This variable represents the labor earnings of each individual in the

household.

Method Description of Variable Creation

Labor earnings include wages and salary from all employment including training, primary and secondary jobs, and self-employment, plus income

from bonuses, overtime, and profit-sharing.

Specifically labor earnings is the sum of income from primary job, secondary job, self-employment, 13th month pay, 14th month pay, Christmas bonus pay, holiday bonus pay, miscellaneous bonus pay, and profit-sharing income.

Format Variable Format in the \$PEQUIV-File

Not formatted.

This variable is in current year EURO.

Algorithm I11110\$\$ = IJOB1\$\$ + IJOB2\$\$ + ISELF\$\$ + IMILT\$\$ + I13LY\$\$ +

I14LY\$\$ + IXMAS\$\$ + IHOLY\$\$ + IGRAY\$\$ + IOTHY\$\$

Variable Name X11101LL

Variable Label Unique Person Number

Unit of Observation Individual

Description This variable provides unique identification for each individual ever surveyed in the

SOEP.

Method Transcribed variable.

Format N/A

The original survey variables provided below can be found in the file PPFAD.

Algorithm X11101LL = PERSNR

Variable Name X11102\$\$

Variable Label Household Identification Number

Unit of Observation Household

Description This variable links individuals to the households they were living in at the time of the

interview. The SOEP provides yearly household identification numbers.

Method Transcribed variable.

Format N/A

The original survey variables provided below can be found in the files HPFAD.

 $\textbf{Algorithm} \hspace{1cm} X11102\$\$ = Yhhnr \hspace{1cm} (Y=a,\,b\,\,,\,\ldots)$

Variable Name X11103\$\$

Variable Label Individual in Household at Survey

Unit of Observation Individual

Description Indicates whether an individual was living in the household at the time of the inter-

view regardless of whether the individual responded to interview questions.

Method Individuals who are members of a surveyed household are given a 1. Individuals who

moved out of a SOEP household, died, or went abroad are given a 0.

Format 0 = No

1 = Yes

The original survey variables provided below can be found in the file HPFAD.

Algorithm If Ynetto >= 10 & Ynetto < 40 and Yhnetto = 1 then X11103\$\$ = 1

else X11103\$\$ = 0

Variable Name X11104LL

Variable Label Sub-sample Identifier

Unit of Observation Individual

Method

Description This variable indicates from which sub sample an individual in the SOEP drawn.

The SOEP contains seven different samples.Sample A consists of the residents of West Germany originally surveyed in 1984.

- 2) Sample B consists of a sample of foreign guest-workers of Italian, Spanish, Turkish, Yugoslavian, and Greek nationality also surveyed in 1984. The 1,400 foreign households in this original oversample were selected based on the nationality of the head of household. Foreigners who are not Italian, Spanish, Turkish, Yugoslavian, or Greek are included with the Germans in Sample A.
- 3) Sample C represents population of Germans residing in the former East Germans states in 1990.
- 4) Sample D surveyed in 1994/95 represents the population of households with at least household member who immigrated to Germany after 1984.
- 5) Sample E is a supplemental random sample that represents the population of Germany in 1998.
- 6) Sample F is an additional supplemental random sample that represents the population of Germany in 2000.
- 7) Sample G surveyed in 2002 is the so-called "high-income sample". Sampling criteria was a monthly disposable household income of more than 7.500 DM in 2001. Sample G represents about 7,3% individuals in private households with the highest income.
- 8) Sample H is an additional supplemental random sample that represents the population of Germany in 2006.
- 9) Sample I is an additional supplemental random sample that represents the population of Germany in 2009. Since 2012 (SOEPv28) Sample I is no longer part of SOEP, but it is part of the SOEP-Innovation Sample (SOEP-IS)
- 10) Sample J is an additional supplemental random sample that represents the population of Germany in 2011.
- 11) Sample K is an additional supplemental random sample that represents the population of Germany in 2012.
- 12) Sample L1 is a sample of families with children born 2007-2010 drawn in 2010.
- 13) Sample L2 is a sample of low income families, large families or single parent households drawn in 2010
- 14) Sample L3 is a sample of large families and single parent households drawn in 2011
- 15) Sample M1 is an additional supplemental of migrants who migrate to Germany between 1995-2010 drawn in 2013.
- 16) Sample M2 is an additional supplemental of migrants who migrate to Germany after 2009 drawn in 2015.
- 17) Sample M3/M4 is an supplemental of refugees drawn in 2016 who recently migrate to Germany.

Format 21 = Sample A22 = Sample B23 = Sample C24 = Sample D25 = Sample E26 = Sample F27 = Sample G28 = Sample H29 = Sample I30 = Sample J31 = Sample K32 = Sample L133 = Sample L234 = Sample L335 = Sample M136 = Sample M237 = Sample M3/M4

The original survey variables provided below can be found in the file PPFAD.

Algorithm if psample = 1 then X11104LL = 21 else if psample = 2 then X11104LL = 22

else if psample = 3 then X11104LL = 23 else if psample = 4 then X11104LL = 24 else if psample = 5 then X11104LL = 25 else if psample = 6 then X11104LL = 26 else if psample = 7 then X11104LL = 27 else if psample = 8 then X11104LL = 28 else if psample = 9 then X11104LL = 29 else if psample = 10 then X11104LL = 30 else if psample = 11 then X11104LL = 31 else if psample = 12 then X11104LL = 32 else if psample = 13 then X11104LL = 33 else if psample = 14 then X11104LL = 34 else if psample = 15 then X11104LL = 35 else if psample = 16 then X11104LL = 36 else if psample = 17 then X11104LL = 37

Variable Name X11105\$\$

Variable Label Indicator of Whether Person in Household was Interviewed

Unit of Observation Individual

Description Indicates whether an individual present in the household provided interview respons-

es. Children in the household are counted as interviewed persons.

Method Individuals in the household 16 years of age and older who are members of a sur-

veyed household reject to give an interview are given a 0.

Format 0 = Didn't provide information

1 = Provided information

The original survey variables provided below can be found in the file PPFAD.

This algorithm omits individuals with survey non-responses.

Algorithm If Ynetto >= 10 & Ynetto < 30 then X11105\$\$ = 1;

else X11105\$\$ = 0;

Variable Name D11101\$\$

Variable Label Age of Individual

Unit of Observation Individual

Description Indicates the age of the individual in years.

Method The SOEP records the birth date (GEBJAHR) of each individual. The current age of

an individual is created by subtracting the year of birth from the current year.

Format -1 = Item non-response

0 =Newborn up to first birthday

The value of this variable ranges from 0 to 105.

The original survey variables provided below can be found in the file PPFAD. This

algorithm omits individuals with survey non-responses.

Algorithm D11101\$\$ = 19\$\$ - GEBJAHR (\$\$=84-99)

D11101\$\$ = 20\$\$ - GEBJAHR (\$=00 ...)

Variable Name D11102LL

Variable Label Gender of Individual

Unit of Observation Individual

Description Indicates the gender of the individual.

Method The SOEP records the gender (SEX) of each individual. This information is acquired

once and is not obtained in subsequent years.

Gender is constant through time and therefore does not have a yearly suffix. This variable is missing for the few cases where information about gender was not reported

and inferences about gender could not be made.

Format -1 = Item non-response

1 = Male 2 = Female

The original survey variables provided below can be found in the file PPFAD. This

algorithm omits individuals with survey non-responses.

Algorithm if SEX ne -1 then D11102LL = SEX

Variable Name D11103\$\$

Variable Label Race of Household Head

Unit of Observation Individual

Description Indicates the race of the interviewed head of household.

Method Race is <u>not</u> available in the SOEP.

However, to separate Germans from non-Germans use the variables about o nationality (NATION\$\$) which can be found in the \$PGEN-files or

the information about whether a person was born in Germany (GERMBORN) or the country of origin (CORIGIN) whereas both can be found in the PPFAD-file.

Format -1 = no information available

Variable Name D11104\$\$

Variable Label Marital Status of Individual

Unit of Observation Individual

Description This variable indicates the marital status in the current survey year of all individuals

in the household 16 years of age and older.

Method The married category represents individuals who are legally married and individuals

who are living with a partner. Married non-German "guest workers" whose spouses remained in their native countries are given a code of 6 or 7 depending on their ages.

Format -1 = N/A - Child / Item non-response

1 = Married / Living with a Partner

2 = Single3 = Widowed4 = Divorced

5 = Separated (Legally Married)

The original survey variables provided below can be found in the file _PGEN. This

algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: D11101__ = Age of Individual

if D11101\$\$ ge 16 then do Algorithm

> Yfamstd = 1,6,7 then D11104\$\$ = 1 else if Yfamstd = 2.8 then D11104\$\$ = 5 else if Y famstd = 3then D11104\$\$ = 2else if Y famstd = 4then D11104\$\$ = 4else if Y famstd = 5then D11104\$\$ = 3

end

if D11101\$\$ lt 16 then D11104\$\$ = -1

if X11104LL=36 & i=32 then D11104\$\$ = -5 not collected for Sample M2 in 2015 if X11104LL=37 & i=33 then D11104\$\$ = -5 not collected for Sample M3/4 in 2016 Variable Name D11105\$\$

Variable Label Relationship to Household Head

Unit of Observation Individual

Description This variable indicates the individual's relationship to the current survey year's head

of household.

Method The relation to head variable is created by collapsing the SOEP relationship to head

variable into 5 categories. These categories include spouses, life-partners, children, foster children, siblings, parents, in-laws, grandchildren, other relatives, and unrelated persons. Since 2012 (wave 29) the original SOEP variable collects more detailed in-

formation about family relationships.

Format -1 = Item non-response

1 = Head
2 = Partner
3 = Child
4 = Relative
5 = Non-relative

The original survey variables provided below can be found in the file _PBRUTTO. This algorithm omits individuals with survey non-responses.

Algorithm

```
if i ge 1 and I le 28 then do;
 if Ystell = 0 then D11105$$ = 1
 else if Ystell = 1,2,13
                                   then D11105$$ = 2
 else if Ystell = 3 or 4
                                   then D11105$$ = 3
 else if Ystell = 5, 6, 7, 8, 9, 10
                                   then D11105$$ = 4
 else if Ystell =11,12,13
                                   then D11105$$ = 5
                                        D11104\$\$ = -1
 else
end;
if i ge 29 then do;
 if Ystell = 0
                                                     then D11105$$ =1
 else if Ystell in (11,12,13)
                                                     then D11105\$$ =2
 else if Ystell in (21,22,23,24)
                                                     then D11105\$\$ =3
 else if Ystell in (25,26,31,36,41,42,43,61,62,63,64) then D11105$$ =4
 else if Ystell in (27,32,33,35,45,51,52,71)
                                                     then D11105$$ =5
 else
                                                         D11105$$ =-1
 end;
```

SOEP Survey Paper 464 20 SOEP v33

Variable Name D11106\$\$

Variable Label Number of Persons in Household

Unit of Observation Household

Description Indicates the number of persons in the household at the time of the interview.

Method This information is obtained from the household head or another household member

who knows about the household's composition.

Format -1 = Item non-response

The value of this variable ranges from 1 to 17.

The original survey variables provided below can be found in the file _HBRUTTO.

This algorithm omits individuals with survey non-responses.

Algorithm D11106\$\$ = Yhhgr

Variable Name D11107\$\$

Variable Label Number of Children in Household

Unit of Observation Household

Description Indicates the number of persons in the household under age of 18 at the time of the

interview.

Method This variable is created by computing the number of individuals in the household

under the age of 18.

Format -1 = Item non-response

The value of this variable ranges from 0 to 10.

The original survey variables provided below can be found in the file \$PPFAD. This

algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: D11101__ = Age of Individual

Algorithm if age\$\$ ge 0 and age\$\$ le 17 then sumkids\$\$=1

if age\$\$ = . and \$netto in (20, 21, 22, 23) then sumkids\$\$=1

D11107\$\$ = sum of (sumkids\$\$) in the household

Variable Name D11108\$\$

Variable Label Education With Respect to High School

Unit of Observation Individual

Description This variable indicates the highest level of education (less than high school, complet-

ed high school, or more than high school) of all individuals in the household 16 years

of age and older.

Method This variable is coded as follows:

Less than = Intermediate secondary school (Realschule)
High School Lower secondary school (Hauptschule)

Other None

High School = Upper secondary school degree giving access to university studies

Abitur)

Certificate of aptitude for specialized short-course higher education

(Fachhochschulreife) Apprenticeship (Lehre)

Specialized vocational school (Berufsfachschule)

More than = School of health care (Schule des Gesundheitswesens)

High School Specialized college of higher education, post-secondary technical

(Fachhochschule)

College

Technical university usually requiring practical training as part of

the studies (Technische Universität)

Civil service training

Format -1 = N/A - Child / Item non-response

1 = Less than High School

2 = High School

3 = More than High School

The original survey variables provided below can be found in the file _PGEN. This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: D11101__ = Age of Individual

Algorithm if Ypsbil=.B then Ypsbil=0;

if Ypbbil01=.B then Ypbbil01=0; if Ypbbil02=.B then Ypbbil02=0; if Ypsbil in (1,2,5,6) then D11108\$\$=1; if Ypsbil in (3,4) then D11108\$\$=2; if Ypbbila in (3) then D11108\$\$=2; if Ypbbila in (4) then D11108\$\$=3; if Ypbbilo in (1) then D11108\$\$=2; if Ypbbilo in (2,3,4) then D11108\$\$=3; if Ypbbil01 in (1,2,4) then D11108\$\$=2: if Ypbbil01 in (3,5) then D11108\$\$=3; if Ypbbil02 in (1,2,3) then D11108\$\$=3; if D11108\$\$ lt 0 then D11108\$\$=.M;

SOEP Survey Paper 464 23 SOEP v33

Variable Name D11109\$\$

Variable Label Number of Years of Education

Unit of Observation Individual

Description This variable indicates the number of years of education completed at the time survey

for all individuals in the household 16 years of age and older.

Method Individuals with a school leaving degree are assigned a minimum of between 9 and 12

years of education. Individuals with a vocational degree are assigned an additional 2 to 3.5 years of education. Individuals who attended a technical college are assigned an additional 4 years of education. If an individual received a vocational college degree or attended a university outside of the FRG then the individual is assigned a total of 18 or 19 years of education. For more information about the construction of this

variable see Couch, 1994.

Format -1 = N/A - Child / Item non-response

The value of this variable ranges from 7 to 18.

The original survey variables provided below can be found in the file _PGEN. This

algorithm omits individuals with survey non-responses.

Algorithm if Ybilzeit=.B then D11109\$\$=0;

else D11109\$\$ = Ybilzeit;

else D11109\$\$=-1;

Variable Name D11112LL

Variable Label Race of individual

Unit of Observation Individual

Description Indicates the race of each individual in the household.

Method Race is <u>not</u> available in the SOEP.

Variable Name E11101\$\$

Variable Label Annual Work Hours of Individual

Unit of Observation Individual

Description This variable reports annual hours worked in the previous year for all individuals in

the household 16 years of age and older.

Method There is no direct report of annual work hours in the SOEP. This variable was con-

structed using information on employment status in the survey year, average number of hours worked per week, and the number of months worked in the previous year

(reported in the activity calendar).

Annual hours worked in the previous year is calculated by adding together the estimated annual hours of full-time, part-time (including marginal employed), vocational training and short-time work. Annual hours of work in each of these four states is calculated by multiplying the average number of hours worked per week by the number of months worked in each of these three states for the previous year and by 4.33 (the average number of weeks per month). No correction for vacation or diseases has been

made.

When the state indicated in the employment status variable matches the state recorded in the monthly calendar file we use the reported average number of hours worked per week as our measure of weekly hours worked.

When the state indicated in the employment status variable does <u>not</u> match the state recorded in the monthly calendar file we use an imputed weekly hours value as our measure of weekly hours worked. The imputed values are based on a regression of reported log average weekly work hours separately for full-time, part-time, marginal or irregular, short-time and currently not employed individuals. Covariates are age, age squared, sex, dummy variable for children in the household, marital status, region (east or west Germany) and two education dummy variables.

There are still some cases where no annual work hours but individual labor income (I11110\$\$) can be observed. This finding can be explained by e.g. individuals who took maternity leave or did National Service.

Format -1 = N/A - Child

0 =Not employed in the previous year

The value of this variable ranges from 1 to 7457.

The original survey variables provided below can be found in the file __P. This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: D11101__ = Age of Individual

Algorithm if D11101\$\$ ge 16 then E11101\$\$=annual work hours imputation

else E11101\$\$=0

if x11104LL=35 & i=30 then E11101\$\$=-5 not collected for M1 in 2013 if x11104LL=36 & i=32 then E11101\$\$=-5 not collected for M2 in 2015 if x11104LL=37 & i=33 then E11101\$\$=-5 not collected for M3/4 in 2016

SOEP Survey Paper 464 26 SOEP v33

Variable Name E11201\$\$

Variable Label Annual Work Hours of Individual Imputed

Unit of Observation Individual

Description This variable indicates whether annual hours were imputed.

Method This information is <u>not</u> available in the SOEP.

Variable Name E11102\$\$

Variable Label Employment Status of Individual

Unit of Observation Individual

Description This variable indicates employment status in the previous year for all individuals in

the household 16 years of age and older.

Method If the individual had positive wages in the previous year and worked at least 52 hours

then the individual was employed. Otherwise, the individual was not employed.

Format -1 = N/A - Child

0 = Not Employed1 = Employed

This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions:

D11101__ = Age of Individual

E11101__ = Annual Work Hours of Individual

I11110__ = Individual Labor Earnings

Algorithm if D11101\$\$ ge 16 then do

if I11110\$\$ gt 0 and E11101\$\$ ge 52 then E11102\$\$=1

else E11102\$\$=0

end

if D11101\$\$ lt 16 then E11102\$\$=-1

 $\begin{array}{lll} \text{if x11104LL=35 \& i=30 then E11102\$=-5} & \text{not collected for M1 in 2013} \\ \text{if x11104LL=36 \& i=32 then E11102\$=-5} & \text{not collected for M2 in 2015} \\ \text{if x11104LL=37 \& i=33 then E11102\$=-5} & \text{not collected for M3/4 in 2016} \\ \end{array}$

Variable Name E11103\$\$

Variable Label Employment Level of Individual

Unit of Observation Individual

Description This variable indicates whether any individual in the household 16 years of age and

older worked full-time, part-time, or not at all in the previous year.

Method If the individual had positive wages and worked at least 1,820 hours last year (35

hours per week on average), then the individual was employed full-time. If the individual had positive wages and worked at least 52 hours but less than 1,820 hours last year, then the individual was employed part-time. Otherwise, the individual was not

working

Format -1 = N/A - Child

1 = Full Time2 = Part Time3 = Not Working

This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions:

D11101__ = Age of Individual

E11101__ = Annual Work Hours of Individual E11102__ = Employment Status of Individual

Algorithm if D11101\$\$ ge 16 then do

if E11102\$\$=1 then do

if E11101\$\$ ge 1,820 then E11103\$\$=1

else if E11101\$\$ ge 52 and E11101\$\$ lt 1,820 then E11103\$\$=2

end

if E11102\$\$=0 then E11103\$\$=3

end

if D11101\$\$ lt 16 then E11103\$\$=.-1

if x11104LL=35 & i=30 then E11103\$\$=-5 not collect for M1 in 2013 if x11104LL=36 & i=32 then E11103\$\$=-5 not collect for M2 in 2015

Variable Name E11104\$\$

Variable Label Primary Activity of Individual

Unit of Observation Individual

Description This variable indicates primary activity at the time of the survey for all individuals in

the household 16 years of age and older.

Method This variable is based on the individual's self-reported employment status at the time

of the interview.

If the individual reported being full-time, part-time, or marginally employed, having short-time work, performing military/civilian service, on maternity leave, or being engaged in in-company training then the individual is considered to be working now. If the individual reported not being employed or being unemployed then the individual is considered to be not working now.

Unemployed is not a category in the recoded variable because in the original data individuals were able to choose unemployed as their employment status in 1984 through 1990 only.

Format -1 = N/A - Child

-2 = Item-non response 1 = Working Now 2 = Not Working Now

The original survey variables provided below can be found in the file _P. This algo-

rithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: D11101__ = Age of Individual

Algorithm

1984-1990: if D11101\$\$ ge 16 or psample=3 then do

if VAR=1, 2, 3, 4 then E11104\$\$=1 else if VAR=5, 6 or 7 then E11104\$\$=2

else E11104\$\$=-2

end

else E11104\$\$=-1

(VAR=ap08, bp16, cp16, dp12, ep12, fp10, gp12, zp16, \$\$=84-90)

1991-1995: if D11101\$\$ ge 16 then do

if VAR=1, 2, 3, 4, 5, or 6 then E11104\$\$=1 else if VAR=7, 8 or 9 then E11104\$\$=2

else E11104\$\$=-2

end

else E11104\$\$=-1

(VAR=hp15, ip15, jp15, kp25, lp21, \$\$=91-95)

since 1996: if D11101\$\$ ge 16 then do

if VAR=1, 2, 3, 4, 8 then E11104\$\$=1 else if VAR=5, 6, 7, 9 then E11104\$\$=2

else E11104\$\$=-2

end

else E11104\$\$=-1

(VAR=mp15, np11, op09, pp10, qp10, rp12, sp15, tp34, up09,vp10,wp07,xp13, yp19, zp09, bap09,bbp09,bcp11,bdp18,bep12,bfp32 \$\$=96-...)

Variable Name E11105\$\$

Variable Label Occupation of Individual

Unit of Observation Individual

Description This variable indicates occupation at the time of the survey for all individuals in the

household 16 years of age and older.

Method This variable is based on the individual's self-reported occupation at the time of the

interview given by ISCO-88 occupation code (IS88\$\$ = International standard classification of occupations). Occupation is coded as not applicable for individuals who

were not working at the time of the interview.

Format -1 = N/A - Child

-2 = Item Non-response

A documentation for all other values of the ISCO-88 information (IS88\$\$ is a varia-

ble with four digits) can be found at: http://www.ilo.org

The original survey variables provided below can be found in the file _PGEN. This algorithm omits individuals with survey non-responses. Equivalent Data File Variable

Definitions: E11104\$\$ = Primary Activity of Individual

Algorithm if X11103\$\$ = 1 then do

if E11104\$\$ in (5,6,7,8) then E11105\$\$=0;

else if E11104\$\$ in (1,2,3,4) and is88\$\$ le 0 then E11105\$\$=-1; else if E11104\$\$ in (1,2,3,4) and is88\$\$ gt 0 then E11105\$\$=IS88\$\$;

else E11105\$\$=-2;

end;

SOEP Survey Paper 464 31 SOEP v33

Variable Name E11106\$\$

Variable Label 1 Digit Industry of Individual

Unit of Observation Individual

Description This variable indicates industry in which each individual in the household 16 years of

age and older is employed at the time of the survey.

Method This variable is based on the individual's self-reported industry of occupation at the

time of the interview. This variable is created by collapsing the SOEP industry variable into 10 broad categories. Industry is coded as not applicable for individuals who

were not working at the time of the interview.

Format -1 = N/A - Child / Item Non-response

0 = Not Applicable 1 = Agriculture 2 = Energy

3 = Mining 4 = Manufacturing

5 = Construction 6 = Trade 7 = Transport

8 = Bank/Insurance 9 = Services

9 = Services10 = Other

The original survey variables provided below (NACE\$\$) can be found in the file _PGEN. This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: E11104\$\$ = Primary Activity of Individual

```
Algorithm
```

```
if X11103$$ = 1 then do
       E11104$$ in (5,6,7,8) then E11106$$=0;
 else if E11104$$ in (1,2,3,4) and nace$$ le 0 then E11106$$=-1;
 else if E11104$$ in (1,2,3,4) and nace$$ gt 0 then do;
   if nace$$ in (1,2,5) then E11106$$=1;
   if nace$$ in (40,41) then E11106$$=2;
   if nace$$ in (10,11,12,13,14) then E11106$$=3;
   if nace$$ in (15,16,17,18,19,20,21,22,23,24,25,26,27,28,30,31,32,33
               ,37,96,97,100) then E11106$$=4;
   if nace$$ in (29,34,35,36,45) then E11106$$=5;
   if nace$$ in (50,51,52,55) then E11106$$=6;
  if nace$$ in (60,61,62,63,64) then E11106$$=7;
  if nace$$ in (65,66,67) then E11106$$=8;
  if nace$$ in (70,71,72,73,74,75,80,85,90,91,92,93,95,98,99) then E11106$$=9;
 end;
else E11106$$=-2;
end;
```

SOEP Survey Paper 464 32 SOEP v33

Variable Name E11107\$\$

Variable Label 2 Digit Industry of Individual

Unit of Observation Individual

Description This variable indicates industry in which each individual in the household 16 years of

age and older is employed at the time of the survey.

Method This variable is based on the individual's self-reported industry of occupation at the

time of the interview (NACE\$\$). Industry is coded as not applicable for individuals

who were not working at the time of the interview.

Format -1 = N/A - Child / Item Non-response

-2 = Survey Non-response

0 = Not Applicable18= Retail 19= Train System 1= Agric., Forestry 2= Fisheries 20= Postal System 3 = Energy/Water21= Other Trans. 4 = Mining22= Financial Inst 5 = Chemicals23= Insurance 6= Synthetics 24= Restaurants 7= Earth/Clay/Stone 25 = Service Indust 8 = Iron/Steel26 = Trash Removal 9= Mechanical Eng 27 = Educ./Sport10= Electrical Eng 28 = Health Service 11= Wood/Paper/Print 29 = Legal Services 12= Clothing/Text 30 = Other Services13= Food Industry 31 = Volunt./Church 14= Construction 32 = Priv. Househld 15= Constr. Relate 33 = Public Administration 16= Wholesale 34 = Social Security 99= Not attributable 17= Trading Agents

The original survey variables provided below (NACE\$\$) can be found in the file _PGEN. This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: E11104\$\$ = Primary Activity of Individual

Algorithm if X11103\$\$ = 1 then do

if E11104\$\$ in (5,6,7,8) then E11107\$\$=0;

else if E11104\$\$ in (1,2,3,4) and NACE\$\$ le 0 then E11107\$\$=-1;

else if E11104\$ in (1,2,3,4) and NACE\$ gt 0 then do;

if Nace\$\$ in (1,2) then E11107\$\$=1; if Nace\$\$ in (5) then E11107\$\$=2; if Nace\$\$ in (40,41) then E11107\$\$=3; if Nace\$\$ in (10,11,12,13,14) then E11107\$\$=4; if Nace\$\$ in (23,24) then E11107\$\$=5; if Nace\$\$ in (25) then E11107\$\$=6; if Nace\$\$ in (26) then E11107\$\$=7; if Nace\$\$ in (27,28) then E11107\$\$=8; if Nace\$\$ in (29,30,33) then E11107\$\$=9: then E11107\$\$=10; if Nace\$\$ in (31,32) if Nace\$\$ in (20,21,22) then E11107\$\$=11; if Nace\$\$ in (17,18,19) then E11107\$\$=12; if Nace\$\$ in (45) then E11107\$\$=14; if Nace\$\$ in (15,16) then E11107\$\$=13; if Nace\$\$ in (34,35,36) then E11107\$\$=15; if Nace\$\$ in (50,51,52) then E11107\$\$=16; if Nace\$\$ in (60,61,62,63,64) then E11107\$\$=21; if Nace\$\$ in (65) then E11107\$\$=22;

```
if Nace$$ in (66,67)
                                        then E11107$$=23;
        if Nace$$ in (55)
                                        then E11107$$=24;
        if Nace$$ in (73,74)
                                        then E11107$$=25;
        if Nace$$ in (37,95)
                                        then E11107$$=26;
        if Nace$$ in (80,92)
                                        then E11107$$=27;
        if Nace$$ in (85)
                                        then E11107$$=28;
        if NACE$$ in (70,71,72,93,98,99) then E11107$$=30;
        if NACE$$ in (91)
                                        then E11107$$=31;
        if NACE$$ in (90)
                                        then E11107$$=32;
        if NACE$$ in (75)
                                        then E11107$$=33;
        if NACE$$ in (96,97,100)
                                        then E11107$$=99;
end;
else E11107$$=-2;
end
```

Variable Name	H11101\$\$	Number of Household members age 0-13
	H11102\$\$	Number of Household members age 14-18
	H11103\$\$	Number of Household members age 0-1
	H11104\$\$	Number of Household members age 2-4
	H11105\$\$	Number of Household members age 5-7
	H11106\$\$	Number of Household members age 8-10
	H11107\$\$	Number of Household members age 11-12
	H11108\$\$	Number of Household members age 13-15
	H11109\$\$	Number of Household members age 16-18
	H11110\$\$	Number of Household members age 19+ or 16-18 years old
		and independent

Unit of Observation

Household

Description

These variables indicate the number of household members in the given age category living in the household at the time of the interview.

H11109\$\$ includes 16-18 year old youth who has not completed his or her Abitur and unmarried and living with a parent or married and separated and living with a parent. H11110\$\$ includes 16-18 year old youth who have completed Abitur or is in college, but exclude the head and the spouse. Only "residual" adults are counted in this variable.

Method

These variables are the simple count of all individuals in the household whose age is in the listed category.

Format

The value of this variable ranges from 0 to 20.

The original survey variables provided below can be found in the file _P. This algorithm omits individuals with survey non-responses.

Algorithm

*First collapse variables for waves m-o;

```
* CREATE AGE GROUP VARIABLE *;
array ak101{*}
                    age$$;
array ak102{*}
                     marst$$;
array ak105{*}
                    hrel$$;
array age14{*}
                    age14$$;
array age15_18{*}
                     age18$$;
array chld018{*}
                     chld18$$;
array age0_1{*}
                     age1$$;
array age2_4{*}
                     age4$$;
array age5_7{*}
                     age7$$;
array age8_10{*}
                     age10$$;
array age11_12{*}
                     age12$$;
array age13_15{*}
                     age15$$;
array age16 18{*}
                     age16$$;
array adults{*}
                     adult$$;
array psbil{*}
                     $psbil;
do i = 1 to dim(ad101);
 if ad101{i}=1 then do;
   age14{i}
              = 0; age15_18{i} = 0;
                                        chld018\{i\} = 0;
                    age2_4{i}
   age0_1{i}
             = 0;
                                = 0;
                                        age5_7{i}
   age8_10\{i\} = 0; age11_12\{i\} = 0;
   age13_15\{i\} = 0; age16_18\{i\} = 0; adults\{i\}
                                                    = 0;
   if 0 \le ak101\{i\} < 14 then age14\{i\}
   if 14 \le ak101\{i\} < 19 then age15_18\{i\} = 1;
   chld018{i} = sum(age14{i},age15_18{i});
   *** Code up indicators for McClements scale ***;;
```

```
if 0 \le ak101\{i\} \le 2 then age0_1\{i\}
   if 2 \le ak101\{i\} \le 5 then age2_4\{i\}
   if 5 \le ak101\{i\} \le 8 then age5_7{i}
                                               = 1;
   if 8 \le ak101\{i\} \le 11 then age8_10\{i\} = 1;
   if 11 \le ak101\{i\} \le 13 then age11_12\{i\} = 1;
   if 13 \le ak101\{i\} < 16 then age13_15\{i\} = 1;
   if 19 <= ak101{i}
                            then adults{i}
  if 16 \le age\{i\} < 19 then do;
    age16_18{i}=1;
    if ak102\{i\}=1 \mid psbil\{i\} in (3,4) then age16_18\{i\}=0;
    if ak105{i} in (1,2)
                                                  then
age16_18\{i\}=0;
   end;
   if age16_18\{i\}=0 \& (16<=age\{i\} < 19) then adults\{i\}=1;
   if age{i} lt 0 then adults{i}=1;
   if ak105\{i\} in (1,2) then adults\{i\}=0;
   if ak102\{i\}=1 \& (16 \le age\{i\} < 19) then adults\{i\}=0;
   if age16_18\{i\}=1 then adults\{i\}=0;
 end;
end;
```

*** All variables are then summed by household id number (X11102\$\$)***

Variable Names H11112\$\$

Variable Label Indicator – Wife / spouse is in Household

Unit of Observation Household

Description These variables indicate the presence of a "wife, spouse or cohabitee" in the house-

hold.

Method These variables are simple indicator variables that a person who is a "wife/spouse" is

present in a given year.

Format 0 = Not present

1 = Present

The variables provided below can be found in the \$PEQUIV files. This algorithm

omits individuals with survey non-responses.

Algorithm if X11103\$=1 then do;

H11112\$\$=0;

if D11105\$\$=2 then H11112\$\$=1;

end;

The following algorithms allow users to take Equivalent file variables and construct equivalence weights commonly used in various countries. To obtain equivalent household income, divide the equivalence scale weight into the household income variable. Here we present three typical example of equivalence weights:

Equivalence scale OECD Equivalence Weights

Unit of Observation Household

Description Scale used by Organization for Economic Cooperation and Development (1982)

Method Sets a single adult to be 1.0, each additional adult to be 0.7, and each child to be 0.5.

Algorithm NEWVAR\$\$=(1.0+0.7*(D11106\$\$-H11101\$\$-1)+0.5*H11101\$\$);

Equivalence scale Modified OECD Equivalence Weights

Unit of Observation Household

Description Scale used by Organization for Economic Cooperation and Development (1982), see

also Hagenaars et al. (1994).

Method Sets a single adult to be 1.0, each additional adult to be 0.5, and each child to be 0.3.

Algorithm NEWVAR\$\$=(1.0+0.5*(D11106\$\$-H11101\$\$-1)+0.3*H11101\$\$);

Equivalence scale Other Equivalence Weights

(e.g. Square root of the Household size)

Unit of Observation Household

Description Household equivalence weight based upon a single international scale.

Method The weight is based upon a scale developed in Buhmann et al. (1988). The scale is

characterized by the following equation: $EI = D/S^e$

Where equivalent income (El) equals total disposable household income (D) divided by household size (S) raised to the power (e). The parameter (e) represents the elasticity of the scale rate with respect to household size. Recent international studies on income inequality and poverty sponsored by the OECD (e.g., Forster 1990; Atkinson et al. 1994), and the Statistical Office of the European Commission (Hagenaars et al. 1994) and the Ruggles (1990) study of the United States use this type of exponential equivalence scale. We adopt a value of a equal to 0.5, which is most commonly used

in international comparisons.

Algorithm NEWVAR\$\$=D11106\$\$**0.5;

Variable Name L11101\$\$

Variable Label Federal State of Residence

Unit of Observation Household

Description This variable indicates the German federal state in which the household was located

at the time of the survey

Method N/A

Format -1 = Item non-response

1 = Schleswig-Holstein

2 = Hamburg 3 = Lower Saxony

4 = Bremen

5 = North-Rhine-Westfalia

6 = Hessen

7 = Rheinland-Pfalz 8 = Baden-Wuerttemberg

9 = Bavaria 10 = Saarland 11 = Berlin

12 = Brandenburg

13 = Mecklenburg-Vorpommern

14 = Saxony

15 = Saxony-Anhalt

16 = Thuringia

These states can be collapsed into regions. From 1984 through 1989 three regions can be defined to include the following states:

North: Schleswig-Holstein (1), Hamburg (2), Lower-Saxony (3), Bremen (4), Berlin (11)

South: Hessen (6), Baden-Wuerttemberg (8), Bavaria (9)

West: North-Rhine-Westfalia (5), Rheinland-Pfalz (7), Saarland (10)

From 1990 to present four regions can be defined to include the following states: North: Schleswig-Holstein (1), Hamburg (2), Lower-Saxony (3), Bremen (4)

South: Hessen (6), Baden-Wuerttemberg (8), Bavaria (9)

West: North-Rhine-Westfalia (5), Rheinland-Pfalz (7), Saarland (10) East: Berlin (11), Brandenburg (12) Mecklenburg-Vorpommern (13),

Saxony (14), Saxony-Anhalt (15), Thueringen (16),

This algorithm omits individuals with survey non-responses. Original variables below can be found in _HBRUTTO files

Algorithm L11101\$\$=Ybula

Variable Name L11102\$\$

Variable Label Region of Residence

Unit of Observation Household

Description This variable indicates whether the household was located in the former East or West

Germany at the time of the survey

Method N/A

Format -1 = Item non-response

1 = West Germany 2 = East Germany

This algorithm omits individuals with survey non-responses.

Original variables below can be found in _HBRUTTO files

Algorithm L11102\$\$=1 (\$\$=84-90)

L11102\$\$=Ysampreg (\$\$=90, ...)

Variable Name Y11101\$\$

Variable Label Consumer Price Index

Unit of Observation Year

Description This variable provides consumer price indices necessary to convert current Euro

amounts into constant Euro amounts. The base income year is 2010 (survey year

2006)

Method This value of this variable is derived from the "DESTATIS 2014, Preise. Ver-

braucherpreisindex für Deutschland. Lange Reihen ab 1948. Mai 2014."

To convert 1985 household labor income into 1992 euro, for example, multiply 1985 household labor income by the ratio of the 1992 consumer price index to the 1985 consumer price index.

Example: I1110385 * (Y1110192/Y1110185)

Format N/A

Price Index for West German States Price Index for East German States

```
1984:
       Y1110184 = 61.7
                               N/A
1985:
       Y1110185 = 63.3
                               N/A
1986:
       Y1110186 = 64.6
                               N/A
1987:
       Y1110187 = 64.5
                               N/A
1988:
       Y1110188 = 64.6
                               N/A
       Y1110189 = 65.4
1989:
                               N/A
       Y1110190 = 67.3
1990:
                               N/A
1991:
       Y1110191 = 69.1
                               N/A
1992:
       Y1110192 = 71.6
                               Y1110192 = 60.8
1993:
       Y1110193 = 74.5
                               Y1110193 = 68.9
                               Y1110194 = 76.2
1994:
       Y1110194 = 77.1
                               Y1110195 = 79.0
1995:
       Y1110195 = 79.2
1996:
       Y1110196 = 80.5
                               Y1110196 = 80.5
1997:
       Y1110197 = 81.5
                               Y1110197 = 82.0
1998:
       Y1110198 = 83.1
                               Y1110198 = 83.9
1999:
       Y1110199 = 83.8
                               Y1110199 = 84.8
2000:
       Y1110100 = 84.4
                               Y1110100 = 85.1
```

Price Index for German States

```
Y1110101 = 85.7
2001:
2002:
       Y1110102 = 87.4
2003:
       Y1110103 = 88.6
2004:
       Y1110104 = 89.6
2005:
       Y1110105 = 91.0
       Y1110106 = 92.5
2006:
2007:
       Y1110107 = 93.9
2008:
       Y1110108 = 96.1
2009:
       Y1110109 = 98.6
       Y1110110 = 98.9
2010:
2011:
       Y1110111 = 100.0
       Y1110112 = 102.1
2012:
       Y1110113 = 104.1
2013:
2014:
       Y1110114 = 105.7
       Y1110115 = 106.6
2015:
2016:
       Y1110116 = 106.9
```

SOEP Survey Paper 464 41 SOEP v33

Variable Name I11101\$\$

Variable Label Household Pre-Government Income

Unit of Observation Household

Period Annual

Description This variable represents the combined income before taxes and government transfers

of all individuals in the household 16 years of age and older.

Method This variable is the sum of total family income from labor earnings, asset flows,

private retirement income and private transfers. Labor earnings include wages and salary from all employment including training, self-employment income, and bonuses, overtime, and profit-sharing. Asset flows include income from interest, dividends, and rent. Private transfers include payments from individuals outside of the household

including alimony and child support payments.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions:

I11103__ = Household Labor Earnings I11104__ = Household Asset Income I11106__ = Household Private Transfers

I11117__ = Household Private Retirement Income

Algorithm I11101\$\$ = I11103\$\$ + I11104\$\$ + I11106\$\$ + I11117\$\$

SOEP Survey Paper 464 42 SOEP v33

Variable Name I11102\$\$

Variable Label Household Post-Government Income

Unit of Observation Household

Period Annual

Description This variable represents the combined income after taxes and government transfers in

the previous year of all individuals in the household.

Method This variable is the sum of total family income from labor earnings, asset flows,

private retirement income, private transfers, public transfers, and social security pensions minus total family taxes. Labor earnings include wages and salary from all employment including training, self-employment income, bonuses, overtime, and profit-sharing. Asset flows include income from interest, dividends, and rent. Private transfers include payments from individuals outside of the household including alimony and child support payments. Public transfers include housing allowances, child benefits, subsistence assistance from the Social Welfare Authority, special circumstances benefits from the Social Welfare Authority, government student assistance, maternity benefits, unemployment benefits, unemployment assistance, and unemployment subsistence allowance. Social security pensions include payments from old age, disability, and widowhood pension schemes. The tax burdens provided here are based upon updated and modified tax calculation routines developed by Schwarze. The tax burden includes income taxes and payroll taxes (health, unemployment, retirement insurance and nursing home insurance taxes). These routines are described in Schwarze (1995).

Household post-government income has no negative values.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions:

I11103__ = Household Labor Earnings I11104__ = Household Asset Income I11106__ = Household Private Transfers I11107__ = Household Public Transfers

I11108 = Household Social Security Pensions

I11109__ = Total Household Taxes

I11117__ = Household Private Retirement Income

Algorithm I11102\$\$ = I11103\$\$ + I11104\$\$ + I11106\$\$ + I11107\$\$ + I11108\$\$ + I11117\$\$ - I11109\$\$

SOEP Survey Paper 464 43 SOEP v33

Variable Name I11103\$\$

Variable Label Household Labor Income

Unit of Observation Household

Period Annual

Description This variable represents the combined labor income of all individuals in the house-

hold 16 years of age and older.

Method Labor earnings include wages and salary from all employment including training,

primary and secondary jobs, and self-employment, plus income from bonuses, over-

time, and profit-sharing.

Specifically labor earnings is the sum of income from primary job, secondary job, self-employment, service pay, 13th month pay, 14th month pay, Christmas bonus pay, holiday bonus pay, miscellaneous bonus pay, and profit-sharing income. Since 1991 indemnity payments and commuting expenses or travel grants are also considered.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: I11110__ = Individual Labor Earnings

Algorithm I11103\$\$ = sum of I11110\$\$ over all individuals in the household

SOEP Survey Paper 464 44 SOEP v33

Variable Name I11104\$\$

Variable Label Household Asset Income

Unit of Observation Household

Period Annual

Description This variable represents the household asset income reported by the head of the

household.

Method Asset flows include income from interest, dividends, and rent.

After 1984 respondents who could not estimate their interest and dividend income directly were asked to select a range from a set of categories. Their choices were:

under 500 DM 500 to 2,000 DM 2,000 to 5,000 DM 5,000 to 10,000 DM 10,000 DM and over

Starting in year 2001 (wave R) an additional item was offered:

10,000 to 20,000 DM 20,000 DM and over

Since year 2002 (wave S) all items are asked for Euro:

under 250 Euro 250 to 1,000 Euro 1,000 to 2,500 Euro 2,500 to 5,000 Euro 5,000 to 10,000 Euro 10,000 Euro and over

These respondents are assigned an interest and dividend amount based on uniformly distributed random numbers within their income range.

Rental income is the amount of income from rent minus any operation and maintenance costs. Negative rental incomes that result from operating costs in excess of income from rental and leasing are not considered here but set to zero.

In 1991 income from rent and operation and maintenance costs were not asked. If the respondent was interviewed in 1990, 1991, and 1992 and reported having rental income or operation and maintenance costs for 1990 and 1992, the average of the 1990 and 1992 values are assigned to 1991. If the respondent was interviewed in only two of the years, one of the years being 1991, and reported having rental income or operation and maintenance costs, then rental income or operation and maintenance costs for that year are assigned to 1991.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The survey variables provided below are part of the \$PEQUIV-file. This algorithm omits individuals with survey non-responses.

Algorithm I11104\$\$ = (RENTY\$\$ - OPERY\$\$) + DIVDY\$\$

Variable Name I11105\$\$

Variable Label Household Imputed Rental Value

Unit of Observation Household

Period Annual

Description This variable represents the imputed rental value of owner occupied housing and for

renters with below markets rent.

Method The Imputed Rent (IR) information calculated for the German SOEP data is based on

the so called Opportunity Cost Approach. This approach at the micro level yields information equivalent to that given by the Market Value Approach used in National account statistics for determining IR. After generating a fictitious market rent for owner-occupiers, all owner related costs are deducted including operating and maintenance costs, interest payments on mortgages, as well as property taxes (see

Yates 1994 / United Nations 1977).

In more detail, the implementation of the opportunity cost approach is used here in the following way. Along the lines of Oaxaca (1973), we estimate an OLS (semilog) regression model of gross rent in terms of square meters (not including heating) actually paid by main tenants in privately financed housing (without social housing and households with reduced rent). Independent variables include indicators describing the condition of the house, the year of construction, size of dwelling, length of occupancy, community size and disposable income. Applying these regression coefficients to the population of owner occupiers and individuals living in households with reduced rent such as employer provided flats, social housing or rent-free households. The resulting estimate represents a gross value at market prices (without costs for heating and warm water). For owner-occupiers owner-specific costs for taxation, maintenance and operating costs as well as interest on mortgages were deducted yielding a net value which can be interpreted as the appropriate income advantage of owner-occupied housing. For rent-free households and persons living in households with below market rents no further deductions have to be made.

Information on interest and mortgage payments for the previous year from homeowners in SOEP serves as the basis for determining the level of interest payments. We assume an annuity with constant payments based on 7% annual interest and a 1% principal over the course of an average period of 30 years. In addition, we assume that mortgage payments begin at the same time in which the household moves into its new home. Thus, in the beginning of the repayment period interest payments clearly exceed the mortgage repayment. As times goes by, the share of the mortgage paid off increases, leaving an increasing income advantage from IR. For example an average interest burden of 3.29 DM/m² per month is used for West Germany in 1988 and rises to 5.52 DM/m² per month in 1998. The average interest burden in East Germany was slightly lower, at 4.14 DM/m² per month in 1998.

In case of owner related costs exceeding the income advantage (especially at the beginning of the mortgage repayment period), IR is assigned a value of zero. For further details see: Frick and Grabka (2001) and Frick and Grabka (2003):

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

Variable Name I11106\$\$ xxx

Variable Label Household Private Transfers

Unit of Observation Household

Period Annual

Description This variable represents the combined private transfers of all individuals in the house-

hold 16 years of age and older.

Method Private transfers consists of income received from persons outside of the interviewed

household. Starting in wave R an additional question identifies alimony separately (variable p2003 in SOEP file R, S, \ldots) and since 2010 advance child maintenance payment (IACHM\$\$) is asked separately. The bulk of transfer is likely

to consist of alimony and child support payments.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The survey variables provided below are part of the \$PEQUIV-file.

This algorithm omits individuals with survey non-responses.

Algorithm I11106\$ = sum of (IALM\$ + IACHM\$ + ICHSU\$ + ISPOU\$ + IELSE\$\$) over

all individuals in the household

Variable Name I11107\$\$

Variable Label Household Public Transfers

Unit of Observation Household

Period Annual

Description This variable represents the combined public transfers of all individuals in the house-

hold 16 years of age and older.

Method Public Transfers are the sum of individual public transfers -- student grants, maternity

benefits, unemployment benefits, unemployment assistance, subsistence allowance and transition pay -- over all individuals in the household, plus household benefits -- housing allowances, child benefits, nursing care insurance, direct housing subsidy, subsistence assistance, support for special circumstances, social assistance for elderly

and unemployment benefit II.

In 1984 the amount of child benefits is not asked. Child benefits for this year were imputed using information on the number of children in the household and the num-

ber of months the benefits were received.

In 1992 through 1994 the amounts of subsistence assistance and special circumstances benefits are not asked. These values have been filled in with imputed values for total social welfare income. In 1995 through 2000 amounts of subsistence assistance and special circumstances benefits are imputed using an algorithm developed by Peter

Krause (DIW) based on the benefits received in the present survey month.

Since 1996 nursing care insurance benefits are included in the sum. In 1996 German law established direct housing subsidy payments. Starting in the 2000 survey a separate question was asked about income from this source. Direct housing subsidy payments for respondents who bought homes between 1996 and 1999 were imputed using information about the year of construction, acquisition of ownership and number of children in the household. In 2005 social assistance for elderly was asked the first time. In 2006 unemployment benefit II was asked the first time and replaced unemployment assistance. Since 2009 additional child benefit was asked the first time. For survey year 2010 HH-public transfers does also include 2500 Euro car scrappage scheme for households which acquired a new car in the previous year. Since 2014

child care subsidy was asked the first time in SOEP.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The survey variables provided below are part of the \$PEQUIV-file.

This algorithm omits individuals with survey non-responses.

Algorithm I11107\$\$ = [sum of (IUNBY\$\$ + IUNAY\$\$ + ISUBY\$\$ + IERET\$\$ + IMATY\$\$ +

ISTUY\$\$) over all individuals in the household] + HOUSE\$\$ + CHSPT\$\$ + NURSH\$\$ + SUBST\$\$ + SPHLP\$\$ + HSUP\$\$ +

SSOLD\$\$+ ALG2\$\$ + ADCHB\$\$ +CHSUB\$\$

2010: I11107\$\$ = I11107\$\$ + 2500 if bah7101c=1

Variable Name I11108\$\$

Variable Label Household Social Security Pensions

Unit of Observation Household

Period Annual

Description This variable represents the combined social security pensions of all individuals in the

household 16 years of age and older.

Method Social security pensions are the sum of old-age, disability, and widowhood social

security pensions. This include payments of the German Pension Insurance (GRV), Miner's social Insurance (Knappschaft), Civil Servant Pension (Beamtenpension), War Victim Benefits (Kriegsopferversorgung), Farmer's Benefits and accident pen-

sion (GUV).

In 1993 through 1994 pension income from East German pensions (\$p7902o and

\$p79120) is assigned to other pension income.

In case of partial unit-non responding households this information has been imputed.

For details see: Frick, Grabka & Groh-Samberg (2010).

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The survey variables provided below are part of the \$PEQUIV-file.

This algorithm omits individuals with survey non-responses.

Algorithm

1984-1985: I11108\$\$ = sum of (IOLDY\$\$ + IWIDY\$\$ + ICOMP\$\$ + IPRVP\$\$)

over all individuals in the household

2002: I11108\$ = sum of (IOLDY\$ + IWIDY\$) over all individuals in the household

1986-2001, 2003-2015: I11108\$\$ = sum of (igrv1\$\$ + igrv2\$\$ + ismp1\$\$ + ismp2\$\$ + iciv1\$\$ + iciv2\$\$ +

iwar1\$\$ + iwar2\$\$ + iagr1\$\$ + iagr2\$\$ + iguv1\$\$ + iguv2\$\$)

over all individuals in the household (\$\$=86-01,03,...,15)

since 2016 I11108\$\$ = sum of (igrv1\$\$ + igrv2\$\$ + ismp1\$\$ + ismp2\$\$ + iciv1\$\$ + iciv2\$\$ +

iwar1\$\$ + iwar2\$\$ + iagr1\$\$ + iagr2\$\$ + iguv1\$\$ + iguv2\$\$

over all individuals in the household + KIDY\$\$ (\$\$=16,...)

SOEP Survey Paper 464 49 SOEP v33

Variable Name I11109\$\$

Variable Label Total Household Taxes

Unit of Observation Household

Period Annual

Description This variable includes income taxes and payroll taxes (e.g. health, unemployment,

nursing home and retirement insurance taxes) of all individuals in the household 16

years of age and older.

Method The tax estimates come from Schwarze (1995), the taxes are assigned on a household

basis. The estimated tax burdens include income taxes and payroll taxes (health, unemployment, care and retirement insurance taxes). These routines are described in Schwarze (1995). Since 1995 the solidarity surplus tax is also considered in the tax

estimates. No algorithms are provided for the tax estimates.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The survey variables provided below are part of the \$PEQUIV-file.

Algorithm I11109\$\$ = I111111\$\$ + I11112\$\$

Variable Name I11110\$\$

Variable Label Individual Labor Earnings

Unit of Observation Individual

Period Annual

Description This variable represents the labor earnings of individuals in the household 16 years of

age and older.

Method Labor earnings include wages and salary from all employment including training,

primary and secondary jobs, and self-employment, plus income from bonuses, over-

time, and profit-sharing.

Specifically labor earnings is the sum of income from primary job, secondary job, self-employment, 13th month pay, 14th month pay, Christmas bonus pay, holiday bo-

nus pay, miscellaneous bonus pay, and profit-sharing income.

Since 1991 indemnity payments, since 1996 military service payments and since 2006

commuting expenses or travel grants are also considered.

In case of partial unit-non responding households this information has been imputed.

For details see: Frick, Grabka & Groh-Samberg (2010).

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The survey variables provided below are part of the \$PEQUIV-file.

This algorithm omits individuals with survey non-responses.

Algorithm

1984-2015 111110\$\$ = IJOB1\$\$ + IJOB2\$\$ + ISELF\$\$ + IMILT\$\$ + I13LY\$\$ + I14LY\$\$ +

IXMAS\$\$ + IHOLY\$\$ + IGRAY\$\$ + IOTHY\$\$ + IDEMY\$\$ +

ITRAY\$\$

Since 2016 I11110\$\$ = IJOB1\$\$ + IJOB2\$\$ + ISELF\$\$ + IMILT\$\$ + I13LY\$\$ + I14LY\$\$ +

IXMAS\$\$ + IHOLY\$\$ + IGRAY\$\$ + IOTHY\$\$ + IDEMY\$\$ +

ITRAY\$\$ + IWITH\$\$

Variable Name I111111\$\$

Variable Label Household Federal Taxes

Unit of Observation Household

Period Annual

Description This variable includes federal income taxes of all individuals in the household 16

years of age and older.

Method The tax estimates come from Schwarze (1995). Taxes are estimated for each tax unit

within the household and then summed over all tax units within the household to arrive at a total household tax burden. The estimated tax burdens include federal income taxes and solidarity surplus tax. These routines are described in Schwarze (1995). No

algorithms are provided for the tax estimates.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

Variable Name I11112\$\$

Variable Label Household Social Security Taxes

Unit of Observation Household

Period Annual

Description This variable includes social security taxes (payroll taxes) of all individuals in the

household 16 years of age and older.

Method The tax estimates come from Schwarze (1995). Taxes are estimated for each tax unit

within the household and then summed over all tax units within the household to arrive at a total household tax burden. The estimated tax burdens include social security taxes (e.g. health, unemployment, nursing home and retirement insurance taxes). These routines are described in Schwarze (1995). No algorithms are provided for the

tax estimates.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

Variable Name I11113\$\$ Household Post-Government Income (TAXSIM)

I11114\$\$ Total Household Taxes (TAXSIM)
I11115\$\$ Household State Taxes (TAXSIM)
I11116\$\$ Household Federal Taxes (TAXSIM)

Unit of Observation Household

Description This variable represents the combined income after taxes and government transfers,

the Total Household Taxes, the Household State Taxes and the Household Federal

Taxes of all individuals in the household 16 years of age and older.

Method Income taxes and state taxes were not estimated for the SOEP using the National

Bureau of Economic Research (NBER) TAXSIM Model. This variable is not availa-

ble in the SOEP.

Format N/A

Variable Name I11117\$\$

Variable Label Household Private Retirement Income

Unit of Observation Household

Period Annual

Description This variable represents the combined retirement income from private sources of all

individuals in the household 16 years of age and older.

Method Private pension income is the sum of supplementary civil servant pension income,

company pensions, private pensions and pension income from "other" sources. See

the algorithm for I11108\$\$.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The survey variables provided below are part of the \$PEQUIV-file. This algorithm omits individuals with survey non-responses. Note also that this information is not available in 1984 and 1985.

Algorithm

1984-1985: N/a

2002-2003: I11117\$\$ = sum of (ICOMP\$\$ + IPRVP\$\$) over all individuals in the household

(\$\$=02-03)

1986-2001, 2004-2014:

I11117\$\$ = sum of (ivbl1\$\$ + ivbl2\$\$ + icom1\$\$ + icom2\$\$ + iprv1\$\$ + iprv2\$\$ +

ison1\$\$ + ison2\$\$) over all individuals in the household

(\$\$= 86-01, 04,-14)

2015-:

I11117\$\$ = sum of (ivbl1\$ + ivbl2\$ + icom1\$\$ + icom2\$\$ + iprv1\$\$ + iprv2\$\$ +

ison1\$\$ + ison2\$\$ + irie1\$\$ + irie2\$\$) over all individuals in the household

(\$\$= 15,...)

Variable Name I11118\$\$

Variable Label Household Windfall Income

Unit of Observation Household

Period Annual

Description This variable represents the amount of total household windfall income of all individ-

uals in the household 16 years of age and older.

Method Windfall income consists of one-time transfers, winnings, inheritance and gifts of

money or items worth more than 5000 DM (wave Q-R), 2500 Euro (wave S-U) or 500 Euro (since wave V). It was asked the first time in wave Q (variable qh4505 in

SOEP file QH).

In 2016 the question has been split up into 3, inheritances, bequest and lottery win-

nings.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

This algorithm omits individuals with survey non-responses.

The original survey variables provided below can be found in the file _H.

Algorithm I11118\$\$ = Ywind

1984-1999 n.a.

2000-2015 Windfall income variable list by survey year - each entry denoted in algorithm as

Ywind: QH4505 RH4505 SH4505 TH44 UH44 VH47 WH47 XH47 YH48 ZH48

BAH48 BBH48 BCH48 BDH48 BEH51 BFH47 BGH57

Since 2016 Wwind= BGH57 + BGH59 + BGH61

Variable Name I11201\$\$

Variable Label Share of imputed Household Pre-Government Income

Unit of Observation Household

Description This variable indicates the percentage share of income that has been imputed for

Household Pre-Government Income (I11101\$\$).

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 = no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 and -3

only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Algorithm I11201\$\$= percentage share of income that has been imputed for I11101\$\$

Variable Name I11202\$\$

Variable Label Share of imputed Household Post-Government Income

Unit of Observation Household

Description This variable indicates the percentage share of income that has been imputed for

household post-government income (I11102\$\$).

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 =no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 and -3

only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Algorithm I11202\$\$= percentage share of income that has been imputed for I11102\$\$

Variable Name I11203\$\$

Variable Label Share of imputed Household Labor Income

Unit of Observation Household

Description This variable indicates the percentage share of income that has been imputed for

household labor income (I11103\$\$).

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 =no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Algorithm I11203\$\$= percentage share of income that has been imputed for I11103\$\$

Variable Name I11204\$\$

Variable Label Share of imputed Household Asset Income

Unit of Observation Household

Description This variable indicates the percentage share of income that has been imputed for

household asset income (I11104\$\$).

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 =no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: I11104__ = Household Asset Income

Algorithm I11204\$\$= percentage share of income that has been imputed for I11104\$\$

Variable Name I11205\$\$

Variable Label Impute Household Imputed Rental Value

Unit of Observation Household

Description This variable indicates if the imputed rental value (I11105\$\$) has been imputed.

Method Household imputed rental value is fully simulated in the SOEP. Thus this variable

indicates if household Imputed rental Value has been simulated and takes a value of 0 otherwise. For further details see: Frick and Grabka (2001) and Frick and Grabka

(2003).

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Algorithm I11205\$\$= 1 if I11105\$\$ > 0, else I11205\$\$ = 0.

Variable Name I11206\$\$

Variable Label Share of imputed Household Private Transfers

Unit of Observation Household

Description This variable indicates the percentage share of income that has been imputed for

household private transfers (I11106\$\$).

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 =no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Algorithm I11206\$\$= percentage share of income that has been imputed for I11106\$\$

Variable Name I11207\$\$

Variable Label Share of imputed Household Public Transfers

Unit of Observation Household

Description This variable indicates the percentage share of income that has been imputed for

household public transfers (I11107\$\$).

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 =no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Algorithm I11207\$\$= percentage share of income that has been imputed for I11107\$\$

Variable Name I11208\$\$

Variable Label Share of imputed Household Social Security Pensions

Unit of Observation Household

Description This variable indicates the percentage share of income that has been imputed for

household social security pensions (I11108\$\$).

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 = no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Algorithm I11208\$\$= percentage share of income that has been imputed for I11108\$\$

Variable Name I11209\$\$

Variable Label Impute Total Household Taxes

Unit of Observation Household

Description Total household taxes are fully simulated in the SOEP. Thus this variable indicates if

total household taxes has been simulated and takes a value of 0 otherwise.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: I11109__ = Total Household Taxes

Algorithm I11209\$\$= 1 if I11109\$\$ > 0, else I11209\$\$ = 0.

Variable Name I11210\$\$

Variable Label Share of imputed Individual Labor Earnings

Unit of Observation Individual

Description This variable indicates the percentage share of income that has been imputed for

individual labor earnings (I11110\$\$).

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 = no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Algorithm I11210\$\$= percentage share of income that has been imputed for I11110\$\$

Variable Name I11217\$\$

Variable Label Share of imputed Household Private Retirement Income

Unit of Observation Household

Description This variable indicates the percentage share of income that has been imputed for

household private retirement income (I11117\$\$).

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003)

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 or .A = no answer or do not know

-2 or .B = does not apply

-3 or .C = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Algorithm I11217\$\$= percentage share of income that has been imputed for I11117\$\$

Variable Name I11218\$\$

Variable Label Impute Household Windfall Income

Unit of Observation Household

Description This variable indicates if windfall income (I11118\$\$) has been imputed.

Item non response on windfall income has been imputed using the sample median in the respective observation years. For further details, see: Grabka and Frick (2003)

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 or .A = no answer or do not know

-2 or .B = does not apply

-3 or .C = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Variable Name RENTY\$\$

Variable Label Income from rental and leasing

Unit of Observation Household

Period Annual

Description This variable represents the household income from rental and leasing in the last year.

In 1991 income from rent were not asked. If the respondent was interviewed in 1990, 1991, and 1992 and reported having rental income for 1990 and 1992, the average of the 1990 and 1992 values are assigned to 1991. If the respondent was interviewed in only two of the years, one of the years being 1991, and reported having rental income, then rental income for that year are assigned to 1991.

Method Transcribed variable.

Format The value of this variable ranges from 0 to 9,999,999.

else cm103{i}=cm101{i}; cm104{i}=cm103{i};

else $cm104\{i\}=-2;$

end;

end;

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

Algorithm

```
array cm101{*} ah41 bh35 ch47 dh47 eh38 fh38 gh38 hhrenty ih41 jh41 kh41 lh41 mh41 nh41 oh41 ph41 qh41 rh41 sh41 th39 uh39 vh38 wh38 xh38 yh39 zh39 bah39 bbh39 bch39 bdh39 beh42 bfh38 bgh46

*** imputed values due to item-non response ***
array cm102{*} xah41 xbh35 xch47 xdh47 xeh38 xfh38 xgh38 out xih41 xjh41 xkh41 xlh41 mh41 xnh41 xoh41 xph41 xqh41 xrh41 xsh41 xth39 xuh39 xvh38 xwh38 xxh38 xyh39 xzh39 xbah39 xbbh39 xbch39 xbdh39 xbeh42 xbfh38 xbgh46 array cm103{*} temp1$$;
array cm104{*} renty$$;

do i = 1 to dim(netto);
cm103{i}=.;
if netto{i} >= 10 & < 20 then do;
if cm102{i} lt 0 then cm102{i} = 0;
if cm101{i} eq .A or cm101{i} eq .C then cm103{i}=cm102{i};
else if cm101{i} eq .B then cm103{i}=0;
```

Variable Name OPERY\$\$

Variable Label Operation, maintenance costs

Unit of Observation Household

Period Annual

Description This variable represents the household operation and maintenance costs in the last

year.

In 1991 operation and maintenance costs were not asked. If the respondent was interviewed in 1990, 1991, and 1992 and reported having operation and maintenance costs for 1990 and 1992, the average of the 1990 and 1992 values are assigned to 1991. If the respondent was interviewed in only two of the years, one of the years being 1991, and reported having operation and maintenance costs, then operation and maintenance costs for that year are assigned to 1991.

Method Transcribed variable.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

Algorithm

array ct101{*} ah4201 bh3601 ch4801 dh4801 eh3901 fh3901 gh3901 hhopery ih4201 jh4201 kh4201 lh4201 mh4201 nh4201 oh4201 ph4201 qh4201 rh4201 sh4201 th4001 uh4001 vh3901 wh3901 xh3901 yh4001 zh4001 bah4001 bbh4001 bch4001 bdh4001 beh4301 bfh3901 bgh48

*** imputed values due to item-non response ***

array ct102{*} xah4201 xbh3601 xch4801 xdh4801 xeh3901 xfh3901 xgh3901 out xih4201 xjh4201 xkh4201 xlh4201 xmh4201 xnh4201 xoh4201 xph4201 xqh4201 xrh4201 xsh4201 xth4001 xvh3901 xwh3901 xxh3901 xyh4001

xzh4001 x bah4001 xbbh4001 xbch4001 xbdh4001 xbeh4301 xbfh3901 xbgh48

array ct103{*} temp\$\$ array ct104{*} opery\$\$;

```
do i = 1 to dim(netto); ct103{i}=.; if netto{i} >= 10 & < 20) then do; if ct102{i} lt 0 then ct102{i}=0; if ct101{i} eq .A or ct101{i} eq .C then ct103{i}=ct102{i}; else if ct101{i} eq .B then ct103{i}=0; else ct103{i}=ct101{i}; ct104{i}=ct103{i}; end; else ct104{i}=.S;
```

end;

Variable Name DIVDY\$\$

Variable Label Interest, dividend income

Unit of Observation Household

Period Annual

Description This variable represents the household income from interest and dividends in the last

year.

Method After 1984 respondents who could not estimate their interest and dividend income

directly were asked to select a range from a set of categories. Their choices were:

under 500 DM 500 to 2,000 DM 2,000 to 5,000 DM 5,000 to 10,000 DM 10,000 DM and over

Starting in year 2001 (wave R) an additional item was offered:

10,000 to 20,000 DM 20,000 DM and over

Since year 2002 (wave S) all items are asked for Euro:

under 250 Euro 250 to 1,000 Euro 1,000 to 2,500 Euro 2,500 to 5,000 Euro 5,000 to 10,000 Euro 10,000 Euro and over

These respondents are assigned an interest and dividend amount based on uniformly distributed random numbers within their income range.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file H.

This algorithm omits individuals with survey non-responses.

Algorithm

array cx101{*} ah45 bh3801 ch5001 dh5001 eh4101 fh4101 gh4101 hh4701 ih4401 jh4401

kh4401 lh4401 mh4401 nh4401 oh4401 ph4401 qh4401 rh4401 sh4401 th4201 uh4201 vh4501 wh4501 xh4501 yh4601 zh4601 bah4601 bbh4601 bch4601

bdh4601 beh4901 bfh4501 bgh6401

*** imputed values due to item-non response ***

array cx102{*} xah45 xbh3801 xch5001 xdh5001 xeh4101 xfh4101 xgh4101 xhh4701 xih4401

xjh4401 xkh4401 xlh4401 xmh4401 xnh4401 xoh4401 xph4401 xqh4401 xrh4401 xsh4401 xth4201 xuh4201 xvh4501 xwh4501 xxh4501 xyh4601;

xzh4601 xbah4601 xbbh4601 xbch4601 xbdh4601 xbeh4901 xbfh4501

xbgh6401

array cx103{*} temp\$\$;

array cx104{*} divdy\$\$;

if ah45=.B then ah45=0;

do i = 1 to dim(netto); $cx103\{i\}=.;$

if netto{i} >= 10 & < 20) then do;

if $cx101\{i\}$ eq .A or $cx101\{i\}$ eq .C then $cx103\{i\}=cx102\{i\}$;

else $cx103\{i\}=cx101\{i\}$; $cx104\{i\}=cx103\{i\}$; end;

else $cx104\{i\}=-2;$

end;

Variable Name CHSPT\$\$

Variable Label Child allowance

Unit of Observation Household

Period Annual

Description This variable represents the household income from child allowances in the last year.

Method In 1984 questions related to this topic were not asked. Child benefits for this year

were imputed using information on the number of children in the household and the

number of months the benefits were received.

In 1985 to 2000 there was no information regarding the number of months the children allowance was claimed. In all those cases 12 months of claim was supposed. Since 2001 child allowances is the product of the number of months the children al-

lowance was claimed in the previous year and the average amount per month.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

Algorithm

array dp101{*} out bh3303 ch4503 dh4503 eh3603 fh3603 gh3603 hh4503 ih4603 jh4603 kh4603 lh4603 mh4603 nh4603 oh4603 ph4603 qh50 rh4603 sh4603 th4503 uh4503 vh4803 wh4803 xh4803 yh4903 zh4903 bah4903 bbh4903 bch4903 bdh4903 beh5203 bfh4803 bgh6603

*** imputed values due to item-non response ***

array dp102{*} out xbh3303 xch4503 xdh4503 xeh3603 xfh3603 xgh3603 xhh4503 xih4603 xjh4603 xkh4603 xlh4603 xmh4603 xnh4603 xoh4603 xph4603 xqh50 xrh4603 xsh4603 xth4503 xuh4503 xvh4803 xwh4803 xxh4803 xyh4903 xzh4903 xbah4903 xbbh4903 x bch4903 xbdh4903 xbeh5203 xbfh4803 xbgh6603

array dp104{*} temp\$\$;

array dp105{*} chspt\$\$;

```
do i = 1 to dim(netto);
dp104{i}=.;
if netto{i} >= 10 \& < 20) then do;
 if dp102\{i\} lt 0 then dp102\{i\} = 0;
 if dp103\{i\} lt 0 then dp103\{i\} = 0;
 if dp106\{i\} = .A or dp106\{i\} = .C then dp106\{i\}=12;
 if dp106{i} in (.B,.)
                              then dp106\{i\}=0;
 if dp101\{i\} = .A or dp101\{i\} = .C then dp104\{i\}=dp102\{i\};
 else if dp101{i} in (.B,.)
                                then dp104\{i\}=0;
                            dp104{i}=dp101{i};
 else
                      then dp105\{i\}=dp103\{i\};
                                                       * wave A *;
 else if (i ge 2 and i le 17) then dp105\{i\}=dp104\{i\}*12;
                                                              * wave B-Q *;
                        then dp105\{i\}=dp104\{i\}*dp106\{i\}; * wave R ..*;
 else if (i ge 18)
end:
else dp105\{i\}=-2; end;
```

Variable Name HOUSE\$\$

Variable Label Housing allowance

Unit of Observation Household

Period Annual

Description This variable represents the household income from housing allowance in the last

year.

Method Housing allowance is the product of the number of months that benefit was claimed in

the previous year and the average amount per month.

Format The value of this variable ranges from 0 to 9,999,999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file H.

This algorithm omits individuals with survey non-responses.

Algorithm

array d1101{*} ah29 bh2802 ch4002 dh4002 eh3102 fh3102 gh3102 hh4002 ih4502 jh4502 kh4502 lh4502 mh4502 nh4502 oh4502 ph4502 qh47 rh4605 sh4605 th4505 uh4505 vh4805 wh4808 xh4808 yh4908 zh4911 bah4920 bbh4920 bch4920 bdh4920 beh5223 bfh4838 bgh6623

array d1102{*} ah30 bh2803 ch4003 dh4003 eh3103 fh3103 gh3103 hh4003 ih4503 jh4503 kh4503 lh4503 mh4503 nh4503 oh4503 ph4503 qh48 rh4606 sh4606 th4506 uh4506 vh4806 wh4809 xh4809 yh4909 zh4912 bah4921 bbh4921 bch4921 bdh4921 beh5224 bfh4839 bgh6624

*** imputed values due to item-non response ***

array d1103{*} xah30 xbh2803 xch4003 xdh4003 xeh3103 xfh3103 xgh3103 xhh4003 xih4503 xjh4503 xkh4503 xlh4503 xmh4503 xnh4503 xoh4503 xph4503 xqh48 rh4606 xsh4606 xth4506 xuh4506 xvh4806 xwh4809 xxh4809 xyh4909 xzh4912 xbah4921 xbbh4921 xbch4921 xbdh4920 xbeh5223 xbfh4839 xbgh6624

array dl104{*} temp\$\$4 array dl105{*} temp\$\$; array dl106{*} house\$\$;

```
do i = 1 to dim(netto);
d1104\{i\}=.;
dl105{i}=.;
if d1103\{i\} lt 0 then d1103\{i\} = 0;
if dl101\{i\} = .A or dl101\{i\} = .C then dl101\{i\} = 10;
if netto\{i\} >= 10 \& < 20 then do;
 if d1101\{i\} eq .B then d1104\{i\}=0;
 else d1104\{i\}=d1101\{i\};
 if dl102{i} eq .A or dl102{i} eq .C then do;
 if d1101\{i\} le 0 and d1103\{i\} gt 0 then d1104\{i\}=12;
 dl105{i}=dl103{i};
 end;
 else if dl102\{i\} eq .B then dl105\{i\}=0;
 else d1105\{i\}=d1102\{i\};
 dl106{i}=dl104{i}*dl105{i};
end;
else d1106\{i\}=-2;
end;
```

Variable Name NURSH\$\$

Variable Label Nursing allowances

Unit of Observation Household

Period Annual

Description This variable represents the household income from nursing allowances. Nursing

allowances was introduced in the German welfare system in 1996. In 1996-2000 questions related to this topic were only asked for the month of the interview but not for the previous year. Nursing allowances for the previous year was imputed using this information. Since 2001 both the numbers of that benefit was claimed in the pre-

vious year and the average amount per month were asked.

Method Nursing allowances is the product of the number of months that benefit was claimed

in the previous year and the average amount per month.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2000 : N/a

since 2001:

array dzc101{*} rh4609 sh4609 th4509 uh4509 vh4809 wh4812 xh4812 yh4912 zh4915

bah4912 bbh4912 bch4912 bdh4912 beh5215 bfh4824 bgh6615

*** imputed values due to item-non response ***

array dzc102{*} xrh4609 xsh4609 xth4509 xuh4509 xvh4809 xwh4812 xxh4812 xyh4912

xzh4915 xbah4912 xbbh4912 xbch4912 xbdh4912 xbeh5215 xbfh4824

xbgh6615

array dzc103{*} rh4608 sh4608 th4508 uh4508 vh4808 wh4811 xh4811 yh4911 zh4914

bah4911 bbh4911 bch4911 bdh4911 beh5214 bfh4823 bgh6614

array dzc104{*} nursh\$\$;

do i = 1 to dim(dzc101);

if $dzc103\{i\}$ eq .A or $dzc103\{i\}$ = .C then $dzc103\{i\}$ = 10;

if dzc101{i} eq .A or dzc101{i} eq .C then do;

 $if\ dzc102\{i\}\ gt\ 0\ and\ dzc103\{i\}\ gt\ 0\ then\ dzc104\{i\}=dzc102\{i\}*dzc103\{i\};$

end;

else if $dzc101\{i\}$ eq .B then do;

 $dzc104{i}=0;$

end; else do;

 $dzc104\{i\}=dzc101\{i\}*dzc103\{i\};$

end;

end;

Variable Name SUBST\$\$

Variable Label Social assistance

Unit of Observation Household

Period Annual

Description This variable represents the household income from social assistance in the last year.

Method Social assistance is the product of the number of months that benefit was claimed in

the previous year and the average amount per month. In 1992 through 1994 the amounts of subsistence assistance and special circumstances benefits were not asked. These values have been filled in with imputed values for total social welfare income. In 1995 through 2000 amounts of subsistence assistance and special circumstances benefits are imputed using an algorithm developed by Peter Krause (DIW) based on the benefits received in the present survey month. Since 2010 subsistence assistance

and special circumstances benefits were asked in one single item.

Format The value of this variable ranges from 0 to 99.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

Algorithm

```
array dt101{*} ah34 bh3002 ch4202 dh4202 eh3302 fh3302 gh3302 hh4202 out out out out out
              out out out rh4702 sh4702 th4602 uh4602 vh4902 wh4902 xh4902 yh5002
              zh5002 bah4914 bbh4914 bch4914 bdh4914 beh5217 bfh4828 bgh6617
array dt102{*} ah35 bh3003 ch4203 dh4203 eh3303 fh3303 gh3303 hh4203 out out out out out
              out out out rh4703 sh4703 th4603 uh4603 vh4903 wh4903 xh4903 yh5003
              zh5003 bah4915 bbh4915 bch4915 bdh4915 beh5218 bfh4829 bgh6618
*** imputed values due to item-non response ***
array dt103{*} xah35 xbh3003 xch4203 xdh4203 xeh3303 xfh3303 xgh3303 xhh4203 out out
             out out out out out out xrh4703 xsh4703 xth4603 xuh4603 xvh4903
              xwh4903 xxh4903 xyh5003 xzh5003 xbah4915 xbbh4915 bch4915 xbdh4914
             xbeh5217 xbfh4829 xbgh6618
*** imputed values due to lacking information in the questionnaire ***
array dt104{*} out out out out out out out out sozye92 sozye93 sozye94 socast95 socast96
             array dt105{*} temp1$$
array dt106{*} temp2$$;
array dt107{*} subst$$;
do i = 1 to dim(netto);
dt105{i}=.; dt106{i}=.;
if netto{i} >= 10 \& < 20 then do;
if dt103\{i\} lt 0 then dt103\{i\}=0;
if dt101{i} eq .B
                  then dt105\{i\}=0;
if dt101\{i\} in (.A,.C) then dt105\{i\}=12;
if dt101{i} ge 0
                  then dt105\{i\}=dt101\{i\};
if dt102\{i\} eq .A or dt102\{i\} eq .C then do;
 if dt101\{i\} le 0 and dt103\{i\} gt 0 then dt105\{i\}=12;
 dt106{i}=dt103{i}; end;
```

else if $dt102\{i\}$ eq .B then $dt106\{i\}=0$;

if $dt104\{i\}$ =. then $dt104\{i\}$ =0; end; if i ge 9 and i le 17 then $dt107\{i\}$ = $dt104\{i\}$; else $dt107\{i\}$ = $dt105\{i\}$ * $dt106\{i\}$; end;

else $dt106\{i\}=dt102\{i\};$ if i ge 9 and i le 17 then do;

else $dt107{i}=-2$; end;

Variable Name SPHLP\$\$

Variable Label Social assistance for special circumstances

Unit of Observation Household

Period Annual

Description This variable represents the household income from Social assistance for special

circumstances in the last year.

Method Social assistance for special circumstances is the product of the number of months

that benefit was claimed in the previous year and the average amount per month. In 1992 through 2000 and since 2010 the amounts of special circumstances benefits

were not asked.

Format The value of this variable ranges from 0 to 99.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

Algorithm

*** imputed values due to item-non response ***

array dx103{*} xah37 xbh3103 xch4303 xdh4303 xeh3403 xfh3403 xgh3403 xhh4303 out out out out out out out out xrh4706 xsh4706 xth4606 xuh4606 xvh4909 xwh4909 xxh4909 xxh4909 xzh5009 out out out out out out out out

array dx104{*} temp1\$\$; array dx105{*} temp2\$\$; array dx106{*} sphlp\$\$;

```
do i = 1 to dim(netto);
dx104\{i\}=.;
dx105\{i\}=.;
if netto \{i\} >= 10 \& < 20 \text{ then do};
 if dx103\{i\} lt 0 then dx103\{i\}=0;
 if dx101\{i\} eq .B then dx104\{i\}=0;
 if dx101\{i\} in (.A,.C) then dx104\{i\}=10;
 if dx101{i} ge 0
                      then dx104\{i\}=dx101\{i\};
 if dx102\{i\} eq .A or dx102\{i\} eq .C then do;
 if dx101\{i\} le 0 and dx103\{i\} gt 0 then dx104\{i\}=12;
 dx105\{i\}=dx103\{i\};
 end:
 else if dx102\{i\} eq .B then dx105\{i\}=0;
 else dx105\{i\}=dx102\{i\};
 dx106{i}=dx104{i}*dx105{i};
end;
else dx106\{i\}=-2;
end;
```

Variable Name SSOLD\$\$

Variable Label Social assistance for elderly (Grundsicherung im Alter)

Unit of Observation Household

Period Annual

Description This variable represents the household income from Social assistance for elderly in

the last year.

Method Social assistance for elderly is the product of the number of months that benefit was

claimed in the previous year and the average amount per month. It was asked the first

time in wave V (variable vh4906 in SOEP file VH).

Format The value of this variable ranges from 0 to 99.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

```
array dy101{*} vh4905 wh4905 xh4905 yh5005 zh5005 bah4917 bbh4917 bch4917 bdh4917
                beh5220 bfh4833 bgh6620
array dy102{*} vh4906 wh4906 xh4906 yh5006 zh5006 bah4918 bbh4918 bch4918 bdh4918
               beh5221 bfh4834 bgh6621
array dy103{*} xvh4906 xwh4906 xxh4906 xyh5006 xzh5006 xbah4918 xbbh4918 xbch4918 x
               xbdh4918 xbeh5221 x bfh4834 xbgh6621
array dy104{*} temp1$$;
array dy105{*} temp2$$;
array dy106{*} ssold$$;
do i = 1 to dim(dy101);
dy104{i}=.; dy105{i}=.;
if aa100\{i\}=1 then do;
 if dy103\{i\} It 0 then dy103\{i\}=0;
 if dy101{i} eq .B
                    then dy104\{i\}=0;
 if dy101\{i\} in (.A,.C) then dy104\{i\}=11;
 if dy101\{i\} ge 0 then dy104\{i\}=dy101\{i\};
 if dy102{i} in (.A,.C) then do;
 if dy101\{i\} le 0 and dy103\{i\} gt 0 then dy104\{i\}=11;
 dy105{i}=dy103{i};
 end;
 else if dy102\{i\} eq .B then dy105\{i\}=0;
 else dy105\{i\}=dy102\{i\};
 dy106{i}=dy104{i}*dy105{i};
end;
else dy106\{i\}=.S;
end;
```

Variable Name ALG2\$\$

Variable Label Unemployment benefit II

Unit of Observation Household

Period Annual

Description This variable represents the household income from unemployment benefit II includ-

ing social benefit in the last year.

Method Unemployment benefit II is the product of the number of months that benefit was

claimed in the previous year and the average amount per month. It was asked the first

time in wave W (variable wh4806 in SOEP file WH).

Format The value of this variable ranges from 0 to 99.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

Algorithm

array ey101{*} wh4805 xh4805 yh4905 zh4908 bah4908 bbh4908 bch4908 bdh4908 beh5211 bfh4818 bgh6611 array ey102{*} wh4806 xh4806 yh4906 zh4909 bah4909 bbh4909 bch4909 bdh4909 beh5212 bfh4819 bgh6612

array ey103{*} xwh4806 xxh4806 xyh4906 xzh4909 xbah4909 xbbh4909 xbch4909 xbdh4909

xbeh5212 x bfh4819 xbgh6612

array ey104{*} temp1\$\$; array ey105{*} temp2\$\$; array ey105{*} alg2\$\$; do i=1 to dim(ey101); ey104{i}=.; ey105{i}=.; if \$netto >= 10 & < 20 then do; if ey103{i} lt 0 then ey103{i}=0; if ey101{i} eq .B then ey104{i}=0; if ey101{i} ge 0 then ey104{i}=ey101{i}; if ey101{i} ge 0 then ey104{i}=ey101{i};

if $ey102\{i\}$ in (.A ,.C) then do;

if $ey101\{i\}$ le 0 and $ey103\{i\}$ gt 0 then $ey104\{i\}=11$;

 $ey105{i}=ey103{i};$

end;

else if $ey102\{i\}$ eq .B then $ey105\{i\}=0$;

else $ey105\{i\}=ey102\{i\};$

 $ey106\{i\} = ey104\{i\} * ey105\{i\};$

end;

else ey $106\{i\}=.S$;

end;

Variable Name HSUP\$\$

Variable Label Housing support for owner-occupiers

Unit of Observation Household

Period Annual

Description This variable represents the household income from direct housing support for owner-

occupiers in the last year.

Method In 1996 German law established direct housing subsidy payments for owner-

occupiers. Starting in the 2000 survey a separate question was asked about income from this source. Direct housing subsidy payments for respondents who bought homes between 1996 and 1999 were imputed using information about the year of construction, acquisition of ownership and number of children in the household.

Since 2015 information about this income has been no longer collected.

Format The value of this variable ranges from 0 to 99.999.

end;

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

Algorithm

array bzc101{*} misses misses

*** imputed values due to item-non response ***

array bzc102{*} misses misses

xbbh3702 xbch3702 xbdh3702 xbeh4002 out out

Variable Name LOSSR\$\$

Variable Label Losses from renting and leasing

Unit of Observation Household

Period Annual

Description This variable represents the household tax deductible costs or losses from renting and

leasing incurred in the last.

Method Transcribed variable.

It was asked the first time in wave V (variable vh4002 in SOEP file VH).

Format The value of this variable ranges from 0 to 99.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

```
array cw101{*} vh4002 wh4002 xh4002 yh4102 zh4102 bah4102 bbh4102 bch4102 bdh4102
                beh4402 bfh4002 bgh52
array cw102{*} xvh4002 xwh4002 xxh4002 xyh4102 xzh4102 xbah4102 xbbh4102 xbch4102
               xbdh4102 xbeh4402 xbfh4002 xbgh52
array cw103{*} temp1$$;
array cw104{*} lossr$$;
do i = 1 to dim(netto);
cw103{i}=.;
if netto{i} >= 10 \& < 20 then do;
 if cw102\{i\} lt 0 then cw102\{i\} = 0;
    if cw101\{i\}=.A or cw101\{i\}=.C then cw103\{i\}=cw102\{i\};
                             then cw103\{i\}=0;
 else if cw101\{i\}=.B
                          cw103\{i\}=cw101\{i\};
 else
cw104{i}=cw103{i};
end;
else cw104\{i\}=.S;
end;
```

Variable Name LOSSC\$\$

Variable Label Losses from capital investment

Unit of Observation Household

Period Annual

Description This variable represents the household losses from capital investment in the last year.

Method Transcribed variable.

end;

It was asked the first time in wave V (variable vh4409 in SOEP file VH).

Format The value of this variable ranges from 0 to 99.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

```
array cw201{*} vh4409 wh4409 xh4409 yh4509 zh4509 bah4509 bbh4509 bch4509 bdh4509
               beh4809 bfh4409 bgh6302
array cw202{*} xvh4409 xwh4409 xxh4409 xyh4509 xzh4509 xbah4509 xbbh4509 xbch4509
               xbdh4509 xbeh4809 xbfh4409 xbgh6302
array cw203{*} temp1$$;
array cw204{*} lossc$$;
do i = 1 to dim(netto);
cw203\{i\}=.;
if netto{i} >= 10 \& < 20 then do;
 if cw202\{i\} lt 0 then cw202\{i\} = 0;
    if cw201{i} in (.A,.C) then cw203{i}=cw202{i};
                         then cw203\{i\}=0;
 else if cw201\{i\}=.B
 else
                     cw203{i}=cw201{i};
cw204\{i\}=cw203\{i\};
end;
else cw204\{i\}=.S;
```

Variable Name ADCHB\$\$

Variable Label Additional Child Benefit

Unit of Observation Household

Period Annual

Description This variable represents the household income from additional child benefit in the last

year.

end;

Method Transcribed variable.

It was asked the first time in wave Z (variable ZH4906 in SOEP file ZH).

Format The value of this variable ranges from 0 to 99.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

```
array kp101{*} zh4906 bah4906 bbh4906 bch4906 bdh4906 beh5206 bfh4809 bgh6606
array kp103{*} zh4905 bah4905 bbh4905 bch4905 bdh4905 beh5205 bfh4808 bgh6605
array kp104{*} xzh4906 xbah4906 xbbh4906 xbch4906 xbdh4906 xbeh5206 xbfh4806
                xbgh6606
array kp105{*} adchb$$;
do i = 1 to dim(netto);
if netto=1 then do;
 kp105\{i\}=0;
 if kp103\{i\} in (.B,.) then kp103\{i\}=0;
 if kp103\{i\} in (.A,.C) then kp103\{i\}=6;
 if i ge 26 then do;
   if kp101{i} gt 0
                        then kp105\{i\}=kp101\{i\}*kp103\{i\};
   if kp101\{i\} in (.A,.C) then kp105\{i\}=kp104\{i\}*kp103\{i\};
end;
else kp105\{i\}=.S;
```

Variable Name CHSUB\$\$

Variable Label Child care subsidy

Unit of Observation Household

Period Annual

Description This variable represents the household income from child care subsidy in the last

year. In 1984-2013 this information was not asked.

Method Transcribed variable.

It was asked the first time in wave BE (variable BEH5209 in SOEP file BEH).

Format The value of this variable ranges from 0 to 99.999.

This variable is in current year EURO.

array f101{*} beh5208 bfh4813 bgh6608

The original survey variables provided below can be found in the file _H.

This algorithm omits individuals with survey non-responses.

```
Algorithm 1984-2013: N/a
```

since 2014:

```
array f102{*} beh5209 bfh4814 bgh6609
array f103{*} xbeh5209 xbfh4814 xbgh6609
array f104{*} temp1
array f105{*} temp2
array f106{*} chsub14;

do i = 1 to dim(netto);
f104{i}=.; f105{i}=.;
if f103{i} lt 0 then f103{i} = 0;
if f101{i} in (.A,.C) then f101{i} = 12;

if netto{i}=1 then do;
if f101{i} = .B then f104{i}=0;
else f104{i} = f101{i};

if f102{i} in (.A,.C) then do;
if f101{i} le 0 and f103{i} gt 0 then f104{i}=12;
```

 $f105\{i\}=f103\{i\};$ end;

else if $f102\{i\}$ eq .B then $f105\{i\}=0$;

else f105{i}=f102{i}; f106{i}=f104{i}*f105{i};

end;

else f $106\{i\}$ =.S;

end;

Variable Name KIDY\$\$

Variable Label Income of children

Unit of Observation Household

Period Annual

Description This variable represents the household income from all children up to the age of 16

years living in the household. In 1984-2015 this information was not asked.

Method Transcribed variable.

Information about this income component was asked the first time in wave BG (variables hnet1ka hnet2ka hnet1kb hnet2kb hnet1kc hnet2kc hnet1kd hnet2kd hnet1ke hnet2ke hnet1kf hnet2kf hnet1kg hnet2kg hnet1kh hnet2kh hnet1ki hnet2ki hnet1kj

hnet2kj in SOEP file \$\$H_KIND).

Format The value of this variable ranges from 0 to 99.999.

This variable is in current year EURO.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2015: N/a

since 2016:

gen kidy\$\$=0;

foreach x in a b c d e f g h i j {;

replace hnet1k'x'=-1 if inlist(hnet2k'x',-1,-3);

qui sum hnet1k`x' if hnet1k`x'>-1, d;

replace hnet1kx'=r(p50) if inlist(hnet1kx',-1,-3); replace hnet1kx'=0 if inlist(hnet1kx',-2); replace hnet1kx'=. if inlist(hnet1kx',-5);

replace kidy\$\$=kidy\$\$+hnet1k`x' if hnet1k`x'>=0 & hnet1k`x'<.;

};

Variable Name	FRENTY\$\$ FOPERY\$\$ FOPERY\$\$ FDIVDY\$\$ FCHSPT\$\$ FHOUSE\$\$ FNURSH\$\$ FSUBST\$\$ FSPHLP\$\$ FSSOLD\$\$ FALG2\$\$ FHSUP\$\$ FLOSSR\$\$ FLOSSC\$\$ FADCHB\$\$	Imputation flag: Income from rental and leasing Imputation flag: Operation, maintenance costs Imputation flag: Interest, dividend income Imputation flag: Child allowance Imputation flag: Housing benefit Imputation flag: Nursing allowances Imputation flag: Social assistance Imputation flag: Social assistance for spec. circumstances Imputation flag: Social assistance for elderly Imputation flag: Unemployment benefit II Imputation flag: Housing support for owner-occupiers Imputation flag: Losses from renting and leasing Imputation flag: Additional child benefit Imputation flag: Additional child benefit
	FCHSUB\$\$	Imputation flag: Additional child benefit Imputation flag: Child care subsidy Imputation flag: Income of children

Variable Label Imputation flag for the respective income component

Unit of Observation Household

Description This variable indicates if the respective income component has been imputed.

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 =no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Variable Name IJOB1\$\$

Variable Label Wages, Salary from main job

Unit of Observation Individual

Period Annual

Description This variable represents wages or salary from main job of individuals in the household

16 years of age and older.

Method Wages or salary from main job is the product of the number of months that income

was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm IJOB1\$\$ = (\$P2A02 * \$P2A03)

Variable Name IJOB2\$\$

Variable Label Income from secondary employment

Unit of Observation Individual

Period Annual

Description This variable represents income from secondary employment of individuals in the

household 16 years of age and older.

Method Income from secondary employment is the product of the number of months that

income was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm IJOB2\$\$ = (\$P2C02 * \$P2C03)

Variable Name ISELF\$\$

Variable Label Income from self-employment

Unit of Observation Individual

Period Annual

Description This variable represents income from self-employment of individuals in the house-

hold 16 years of age and older.

Method Income from self-employment is the product of the number of months that income

was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm ISELF\$ = (\$P2B02 * \$P2B03)

Variable Name IOLDY\$\$

Variable Label Combined old-age, disability and civil servants pensions

Unit of Observation Individual

Period Annual

Description This variable represents income from combined old-age, disability and civil servants

pensions of individuals in the household 16 years of age and older.

In 2002 and 2003 separate questions regarding income from private or company pension were asked. Thus these incomes components are not included in old-age, disabil-

ity and civil servants pensions in the those years.

Method Income from combined old-age, disability and civil servants pensions is the product

of the number of months that income was received in the previous year and the aver-

age amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm IOLDY\$\$ = (\$P2D02 * \$P2D03)

Variable Name IWIDY\$\$

Variable Label Combined widows and orphans pension

Unit of Observation Individual

Period Annual

Description This variable represents income from combined widows and orphans pension of

individuals in the household 16 years of age and older.

In 2002 and 2003 separate questions regarding income from private or company pension were asked. Thus these incomes components are not included in widows and or-

phans pension in the those years.

Method Income from combined widows and orphans pension is the product of the number of

months that income was received in the previous year and the average amount per

month

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm IWIDY\$\$ = (\$P2E02 * \$P2E03)

Variable Name ICOMP\$\$

Variable Label Combined company pension (surviving dependants c.p.)

Unit of Observation Individual

Period Annual

Description This variable represents income from combined company pension of individuals in

the household 16 years of age and older. In 1984-2001 and since 2004 specific questions related to this topic were not asked. Thus these income component is included in

old-age, disability and civil servants pensions (IOLDY\$\$) in the those years.

Method Income from combined company pension is the product of the number of months that

income was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2001: N/a

2002-2003: ICOMP\$\$ = (\$P2P02 * \$P2P03) (\$\$=02 - 03, \$ = S-T)

since 2004: N/a

Variable Name IPRVP\$\$

Variable Label Combined private pension (old-age, accident, disability)

Unit of Observation Individual

Period Annual

Description This variable represents income from combined private pension of individuals in the

household 16 years of age and older. In 1984-2001 and since 2004 specific questions related to this topic were not asked. Thus these income component is included in old-

age, disability and civil servants pensions (IOLDY\$\$) in the those years.

Method Income from combined private pension is the product of the number of months that

income was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2001: N/a

2002-2003: IPRVP\$\$ = (P2Q02 * P2Q03) (\$\$=02 - 03, \$ = S-T)

since 2004: N/a

Variable Name IUNBY\$\$

Variable Label Unemployment benefit

Unit of Observation Individual

Period Annual

Description This variable represents income from unemployment benefit of individuals in the

household 16 years of age and older.

Method Income from unemployment benefit is the product of the number of months that

income was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

In case of partial unit-non responding households this information has been imputed.

For details see: Frick, Grabka & Groh-Samberg (2010).

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm IUNBY\$\$ = (\$P2F02 * \$P2F03)

Variable Name IUNAY\$\$

Variable Label Unemployment assistance

Unit of Observation Individual

Period Annual

Description This variable represents income from unemployment assistance of individuals in the

household 16 years of age and older. In 2006 this information is no longer relevant, given that unemployment assistance has been replaced by unemployment benefit II

(ALG2\$\$)

Method Income from unemployment assistance is the product of the number of months that

income was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2005: IUNAY\$\$ = (\$P2G02 * \$P2G03)

since 2006: N/a

Variable Name ISUBY\$\$

Variable Label Subsistence allowance

Unit of Observation Individual

Period Annual

Description This variable represents income from subsistence allowance of individuals in the

household 16 years of age and older. In 2015 information about this income has no

longer been collected.

Method Income from subsistence allowance is the product of the number of months that

income was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm ISUBY\$ = (\$P2H02 * \$P2H03)

since 2015: N/a

Variable Name IERET\$\$

Variable Label Old-age transition benefit

Unit of Observation Individual

Period Annual

Description This variable represents income from old-age transition benefit of individuals in the

household 16 years of age and older. In 1984-1995 and since 2002 questions related

to this topic were not asked.

Method Income from old-age transition benefit is the product of the number of months that

income was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1995: N/a

1996-2001: IERET\$\$ = (\$P2I02 * \$P2I03) (\$\$=96 - 01, \$ = M, N, ..., R)

since 2002: N/a

Variable Name IMATY\$\$

Variable Label Maternity benefit

Unit of Observation Individual

Period Annual

Description This variable represents income from maternity benefit of individuals in the household

16 years of age and older.

Method Income from maternity benefit is the product of the number of months that income

was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

In case of partial unit-non responding households this information has been imputed.

For details see: Frick, Grabka & Groh-Samberg (2010).

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm IMATY\$\$ = (\$P2J02 * \$P2J03)

Variable Name ISTUY\$\$

Variable Label Student grants

Unit of Observation Individual

Period Annual

Description This variable represents income from student grants of individuals in the household

16 years of age and older.

Method Income from student grants is the product of the number of months that income was

received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

In case of partial unit-non responding households this information has been imputed.

For details see: Frick, Grabka & Groh-Samberg (2010).

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm ISTUY\$ = (\$P2K02 * \$P2K03)

Variable Name IMILT\$\$

Variable Label Military community service pay

Unit of Observation Individual

Period Annual

Description This variable represents income from military community service pay of individuals

in the household 16 years of age and older. In 1984-1995 questions related to this topic were not asked. Since 2015 information about this income has no longer been col-

lected.

Method Income from military community service pay is the product of the number of months

that income was received in the previous year and the average amount per month. If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1995: N/a

since 1996: IMILT\$\$ = (\$P2L02 * \$P2L03)

since 2015: N/a

Variable Name IALIM\$\$

Variable Label Alimony

Unit of Observation Individual

Period Annual

Description This variable represents income from alimony of individuals in the household 16

years of age and older. In 1984-2000 specific questions related to this topic were not asked. Alimony is included in private transfers received (IELSE\$\$) in the those years. Since 2010 alimony and advance child maintenance payments are surveyed separately. Since 2015 information about this income has been no longer collected, but can be

found in the variables ICHSU\$\$ and ISPOU\$\$.

Method Income from alimony is the product of the number of months that income was re-

ceived in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2000: N/a

2001-2009: IALIM\$\$ = (\$P2O02 * \$P2O03) since 2010: IALIM\$\$ = (\$P2S02 * \$P2S03)

since 2015: N/a

Variable Name IACHM\$\$

Variable Label Advance child maintenance payment

Unit of Observation Individual

Period Annual

Description This variable represents income from advance child maintenance payments of indi-

viduals in the household 16 years of age and older. In 1984-2009 specific questions related to this topic were not asked. Advance child maintenance payments is included

in private transfers received (IELSE\$\$) in the those years.

Method Income from advance child maintenance payments is the product of the number of

months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2009: N/a

since 2010: IACHM\$ = (P2T02 * P2T03)

Variable Name ICHSU\$

Variable Label Child support, caregiver alimony

Unit of Observation Individual

Period Annual

Description This variable represents income from child support, caregiver alimony of individuals

in the household 16 years of age and older. In 1984-2014 specific questions related to this topic were not asked. Child support, caregiver alimony is included in private

transfers received (IELSE\$\$) in the those years.

In 2016 information about child support and spousal support are now integrated in

one variable.

Method Income from child support, caregiver alimony is the product of the number of months

that income was received in the previous year and the average amount per month. If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2014: N/a

2015: ICHSU\$\$ = (\$P2U02 * \$P2U03) Since 2016 ICHSU\$\$ = (\$P2W02 * \$P2W03) Variable Name ISPOU\$\$

Variable Label Divorce alimony, during separation

Unit of Observation Individual

Period Annual

Description This variable represents income from divorce alimony, during separation of individu-

als in the household 16 years of age and older. In 1984-2014 specific questions related to this topic were not asked. Divorce alimony, during separation is included in pri-

vate transfers received (IELSE\$\$) in the those years.

Since 2016 this information is no longer collected as a single variable (see ICHSU\$).

Method Income from divorce alimony, during separation is the product of the number of

months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2014: N/a

2015: ISPOU\$\$ = (\$P2V02 * \$P2V03)

Sicne 2016: N/a

Variable Name IELSE\$\$

Variable Label Private Transfers received

Unit of Observation Individual

Period Annual

Description This variable represents income from private transfers of individuals in the household

16 years of age and older. In 1984-2000 alimony is included in private transfers. Since 2001 a specific question regarding alimony (IALIM\$\$) were asked, thus alimo-

ny is no longer included in private transfers received.

Method Income from private transfers is the product of the number of months that income was

received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

In case of partial unit-non responding households this information has been imputed.

For details see: Frick, Grabka & Groh-Samberg (2010).

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm IELSE\$\$ = (\$P2M02 * \$P2M03)

Variable Name IWITH\$\$

Variable Label Profit Withdrawal

Unit of Observation Individual

Period Annual

Description This variable represents income from profit withdrawal of individuals in the house-

hold 16 years of age and older. In 1984-2015 specific questions related to this topic

were not asked.

Method Income from profit withdrawal is the product of the number of months that income

was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2015: N/a

since 2016: IWITH\$\$ = (\$P2X02 * (\$P2X03))

Variable Name I13LY\$\$

Variable Label 13th monthly salary

Unit of Observation Individual

Period Annual

Description This variable represents income from 13th monthly salary of individuals in the house-

hold 16 years of age and older.

Method Transcribed variable.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm I13LY\$\$ = Y13

13th monthly salary variable list by survey year - each entry denoted in algorithm as

Y13:

ap3902 bp5902 cp5902 dp5902 ep5402 fp7202 gp7202 hp6702 ip6702 jp7702 kp7702 lp8202 mp6802 np6802 op5902 pp7702 qp7702 rp7702 sp7702 tp9502 up8002 vp10102 wp7802 xp9502 yp9602 zp9202 bap8302 bbp9302 bcp8102 bdp9902 bep8602 bfp11502 bgp10102

Variable Name I14LY\$\$

Variable Label 14th monthly salary

Unit of Observation Individual

Period Annual

Description This variable represents income from 14th monthly salary of individuals in the house-

hold 16 years of age and older.

Method Transcribed variable.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm I14LY\$\$ = Y14

14th monthly salary variable list by survey year - each entry denoted in algorithm as

Y14:

ap3904 bp5904 cp5904 dp5904 ep5404 fp7204 gp7204 hp6704 ip6704 jp7704 kp7704 lp8204 mp6804 np6804 op5904 pp7704 qp7704 rp7704 sp7704 tp9504

up8004 vp10104 wp7804 xp9504 yp9604 zp9204 bap8304 bbp9304 bcp8104

bdp9904 bep8604 bfp11504 bgp10104

Variable Name IXMAS\$\$

Variable Label Christmas bonus

Unit of Observation Individual

Period Annual

Description This variable represents income from Christmas bonus of individuals in the household

16 years of age and older.

Method Transcribed variable.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm IXMAS\$\$ = YXMS

Christmas bonus variable list by survey year - each entry denoted in algorithm as

YXMS:

ap3906 bp5906 cp5906 dp5906 ep5406 fp7206 gp7206 hp6706 ip6706 jp7706 kp7706 lp8206 mp6806 np6806 op5906 pp7706 qp7706 rp7706 sp7706 tp9506

up8006 vp10106 wp7806 xp9506 yp9606 zp9206 bap8306 bbp9306 bcp8106

bdp9906 bep8606 bfp11506 bgp10106

Variable Name IHOLY\$\$

Variable Label Vacation bonus

Unit of Observation Individual

Period Annual

Description This variable represents income from vacation bonus of individuals in the household

16 years of age and older.

Method Transcribed variable.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm IHOLY\$\$ = YHOL

Vacation bonus variable list by survey year - each entry denoted in algorithm as

YHOL:

up8008 vp10108 wp7808 xp9508 yp9608 zp9208 bap8308 bbp9308 bcp8108

bdp9908 bep8608 bfp11508 bgp10108

Variable Name IGRAY\$\$

Variable Label Profit-sharing

Unit of Observation Individual

Period Annual

Description This variable represents income from profit sharing of individuals in the household 16

years of age and older.

Method Transcribed variable.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm IGRAY\$\$ = YGRY

Profit sharing variable list by survey year - each entry denoted in algorithm as YGRY:

up8010 vp10110 wp7810 xp9510 yp9610 zp9210 bap8310 bbp9310 bcp8110

bdp9910 bep8610 bfp11510 bgp10110

Variable Name IOTHY\$\$

Variable Label Other bonuses

Unit of Observation Individual

Period Annual

Description This variable represents income from other bonuses of individuals in the household

16 years of age and older. In 1984 questions related to this topic were not asked. They

are included in income from profit sharing (IGRAY84).

Method Transcribed variable.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1984: N/a

since 1985: IOTHY\$\$

Other bonuses variable list by survey year:

bp5912 cp5912 dp5912 ep5412 fp7212 gp7212 hp6712 ip6712 jp7712 kp7712 lp8212 mp6812 np6812 op5912 pp7712 qp7712 rp7712 sp7712 tp9512 up8012 vp10112 wp7812 xp9512 yp9612 zp9212 bap8312 bbp9312 bcp8112 bdp9912

bep8612 bfp11512 bgp10112

Variable Name ITRAY\$\$

Variable Label Commuting expenses, travel grant

Unit of Observation Individual

Period Annual

Description This variable represents income from commuting expenses or travel grants provided

by the employer of individuals in the household 16 years of age and older. In 1984-

2005 specific questions related to this topic were not asked.

In 2010 and 2011 this information was not asked in subsamples L1, L2 and L3, in

2016 in subsample M3/4.

Method Transcribed variable.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2005: N/a

since 2006: ITRAY\$\$

Commuting or travel grants variable list by survey year:

wp7902 xp9602 yp9702 zp9302 bap8402 bbp9402 bcp8202 bdp10002 bep8702

bfp11602 bgp10202

Variable Name IDEMY\$\$

Variable Label Indemnity payments

Unit of Observation Individual

Period Annual

Description This variable represents income from indemnity payments of individuals in the

household 16 years of age and older. In 1984-1990 specific questions related to this

topic were not asked.

In 2010-2013 this information was not asked in subsamples L1,L2,L3 and M1, in

2016 not in subsample M3/4.

Method Transcribed variable.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1990: N/a

since 1991: IDEMY\$\$

Indemnity payments variable list by survey year:

hp27g02 ip27g02 jp27g02 kp2402 lp2002 mp6502 np6502 op5602 pp7302 qp7302 rp7302 sp7302 tp9102 up7602 vp9702 wp8502 xp9102 yp9202 zp8802 bap7902

bbp8902 bcp7702 bcp9502 bep8202 bfp3002 bgp2902

Variable Name IGRV1\$\$

Variable Label Statutory pension insurance

Unit of Observation Individual

Period Annual

Description This variable represents income from statutory pension insurance of individuals in the

household 16 years of age and older. In 1984-1985 specific questions related to this topic were not asked. Since 2002 the statutory pension insurance did also include the social miners insurance pension (ISMP1\$\$) and farmers pension (IAGR1\$\$).

In 2016 this information was not asked in subsamples M3/4.

Method Income from statutory pension insurance is the product of the number of months that

income was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

In case of partial unit-non responding households this information has been imputed.

For details see: Frick, Grabka & Groh-Samberg (2010).

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: IGRV1\$\$ = (\$P2D02 * X)

Statutory pension insurance variable list by survey year - each entry denoted in algo-

rithm as X:

cp6101 dp6101 ep5601 fp7401 gp7401 hp6901 ip6901 jp7901 kp7901 lp8401 mp7001 np7001 op6101 pp7901 qp7901 rp7901 tp9701 up8201 vp10301 wp8001 xp9701 yp9801 zp9401 bap8601 bbp9601 bcp8301 bdp10101 bep8801 bfp11701

Variable Name ISMP1\$\$

Variable Label Social miners insurance pension

Unit of Observation Individual

Period Annual

Description This variable represents income from social miners insurance pension of individuals

in the household 16 years of age and older. In 1984-1985 and since 2002 specific questions related to this topic were not asked. Since 2002 this income component is

included in the statutory pension insurance (IGRV1\$\$).

Method Income from social miners insurance pension is the product of the number of months

that income was received in the previous year and the average amount per month. If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

1986-2001: ISMP1\$ = (\$P2D02 * X)

since 2002: N/a

Social miners insurance pension variable list by survey year - each entry denoted in

algorithm as X:

cp6102 dp6102 ep5602 fp7402 gp7402 hp6902 ip6902 jp7903 kp7903 lp8403

mp7002 np7002 op6102 pp7902 qp7902 rp7902

Variable Name ICIV1\$\$

Variable Label Civil servant pension

Unit of Observation Individual

Period Annual

Description This variable represents income from civil servant pension of individuals in the

household 16 years of age and older. In 1984-1985 specific questions related to this

topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from civil servant pension is the product of the number of months that income

was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: ICIV1\$\$ = (\$P2D02 * X)

Civil servant pension variable list by survey year - each entry denoted in algorithm as

X:

cp6103 dp6103 ep5603 fp7403 gp7403 hp6903 ip6903 jp7904 kp7904 lp8404 mp7003 np7003 op6103 pp7903 qp7903 rp7903 tp9703 up8203 vp10303 wp8003 xp9703 yp9803 zp9403 bap8603 bbp9603 bcp8303 bdp10103 bep8803 bfp11703

Variable Name IWAR1\$\$

Variable Label War victim pension

Unit of Observation Individual

Period Annual

Description This variable represents income from war victim pension of individuals in the house-

hold 16 years of age and older. In 1984-1985 specific questions related to this topic

were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from war victim pension is the product of the number of months that income

was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: IWAR1\$\$ = (\$P2D02 * X)

War victim pension variable list by survey year - each entry denoted in algorithm as

X:

cp6104 dp6104 ep5604 fp7404 gp7404 hp6904 ip6904 jp7905 kp7905 lp8405 mp7004 np7004 op6104 pp7904 qp7904 rp7904 tp9705 up8205 vp10305 wp8005 xp9705 yp9805 zp9413 bap8613 bbp9613 bcp8313 bdp10113 bep8813 bfp11715

Variable Name IAGR1\$\$

Variable Label Farmer Pension

Unit of Observation Individual

Period Annual

Description This variable represents income from farmer pension of individuals in the household

16 years of age and older. In 1984-1985 and since 2002 specific questions related to this topic were not asked. Since 2002 this income component is included in the statu-

tory pension insurance (IGRV1\$\$).

Method Income from farmer pension is the product of the number of months that income was

received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

1986-2001: IAGR1\$\$ = (\$P2D02 * X)

since 2001: N/a

Farmer pension variable list by survey year - each entry denoted in algorithm as X:

cp6105 dp6105 ep5605 fp7405 gp7405 hp6905 ip6905 jp7906 kp7906 lp8406

mp7005 np7005 op6105 pp7905 qp7905 rp7905

Variable Name IGUV1\$\$

Variable Label Statutory accident insurance pension

Unit of Observation Individual

Period Annual

Description This variable represents income from statutory accident insurance pension of individ-

uals in the household 16 years of age and older. In 1984-1985 specific questions re-

lated to this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from statutory accident insurance pension is the product of the number of

months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: IGUV1\$\$ = (\$P2D02 * X)

Statutory accident insurance pension variable list by survey year - each entry denoted

in algorithm as X:

cp6106 dp6106 ep5606 fp7406 gp7406 hp6906 ip6906 jp7907 kp7907 lp8407 mp7006 np7006 op6106 pp7906 qp7906 rp7906 tp9707 up8207 vp10307 wp8007

xp9707 yp9807 zp9411 bap8611 bbp9611 bcp8311 bdp10111 bep8811 bfp11713

Variable Name IVBL1\$\$

Variable Label Supplementary benefits for civil servants

Unit of Observation Individual

Period Annual

Description This variable represents income from supplementary benefits for civil servants of

individuals in the household 16 years of age and older. In 1984-1985 specific ques-

tions related to this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from supplementary benefits for civil servants is the product of the number of

months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: IVBL1\$\$ = (\$P2D02 * X)

Supplementary benefits for civil servants variable list by survey year - each entry de-

noted in algorithm as X:

cp6107 dp6107 ep5607 fp7407 gp7407 hp6907 ip6907 jp7908 kp7908 lp8408 mp7007 np7007 op6107 pp7907 qp7907 rp7907 tp9709 up8209 vp10309 wp8009

xp9709 yp9809 zp9405 bap8605 bbp9605 bcp8305 bdp10105 bep8805 bfp11705

Variable Name ICOM1\$\$

Variable Label Company pension

Unit of Observation Individual

Period Annual

Description This variable represents income from company pension of individuals in the house-

hold 16 years of age and older. In 1984-1985 specific questions related to this topic

were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from company pension is the product of the number of months that income

was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: ICOM1\$\$ = (\$P2D02 * X)

Company pension variable list by survey year - each entry denoted in algorithm as X:

cp6108 dp6108 ep5608 fp7408 gp7408 hp6908 ip6908 jp7909 kp7909 lp8409 mp7008 np7008 op6108 pp7908 qp7908 rp7908 tp9711 up8211 vp10311 wp8011 xp9711 yp9811 zp9407 bap8607 bbp9607 bcp8307 bdp10107 bep8807 bfp11707

Variable Name IPRV1\$\$

Variable Label Private pension

Unit of Observation Individual

Period Annual

Description This variable represents income from private pension of individuals in the household

16 years of age and older. In 1984-2002 specific questions related to this topic were

not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from private pension is the product of the number of months that income was

received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2002: N/a

since 2003: IPRV1\$\$ = (\$P2D02 * X)

Private pension variable list by survey year - each entry denoted in algorithm as X:

tp9713 up8213 vp10313 wp8013 xp9713 yp9813 zp9409 bap8609 bbp9609 bcp8309

bdp10109 bep8809 bfp11711 bgp10311

Variable Name IRIE1\$\$

Variable Label Riester pension plan

Unit of Observation Individual

Period Annual

Description This variable represents income from Riester pension plan of individuals in the

household 16 years of age and older. In 1984-2014 specific questions related to this

topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from Riester pension plan is the product of the number of months that income

was received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2014: N/a

since 2015: IRIE11\$\$ = (\$P2D02 * X)

Riester pension plan variable list by survey year - each entry denoted in algorithm as

X:

bfp11709 bgp10309

Variable Name ISON1\$\$

Variable Label Other pension

Unit of Observation Individual

Period Annual

Description This variable represents income from other pension of individuals in the household 16

years of age and older. In 1984-1985 specific questions related to this topic were not

asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from other pension is the product of the number of months that income was

received in the previous year and the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: ISON1\$\$ = (\$P2D02 * X)

Other pension variable list by survey year - each entry denoted in algorithm as X:

cp6109 dp6109 ep5609 fp7409 gp7409 hp6909 ip6909 jp7910 kp7910 lp8410 mp7009 np7009 op6109 pp7909 qp7909 rp7909 tp9715 up8215 vp10315 wp8015 xp9715 yp9815 zp9415 bap8615 bbp9615 bcp8315 bdp10115 bep8815 bfp11717

Variable Name IGRV2\$\$

Variable Label Widows and orphans statutory pension insurance

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans statutory pension insur-

ance of individuals in the household 16 years of age and older. In 1984-1985 specific questions related to this topic were not asked. Since 2002 the widows and orphans statutory pension insurance does also include the widows and orphans social miners insurance pension (ISMP2\$\$) and widows and orphans farmers pension (IAGR2\$\$).

In 2016 this information was not asked in subsamples M3/4.

Method Income from widows and orphans statutory pension insurance is the product of the

number of months that income was received in the previous year and the average

amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: IGRV2\$\$ = (\$P2E02 * X)

Widows and orphans statutory pension insurance variable list by survey year - each

entry denoted in algorithm as X:

cp6110 dp6110 ep5610 fp7410 gp7410 hp6910 ip6910 jp7911 kp7911 lp8411 mp7010 np7010 op6110 pp7910 qp7910 rp7910 tp9702 up8202 vp10302 wp8002

xp9702 yp9802 zp9402 bap8602 bbp8602 bcp8302 bdp10102 bep8802 bfp11702

Variable Name ISMP2\$\$

Variable Label Widows and orphans social miners insurance pension

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans social miners insurance

pension of individuals in the household 16 years of age and older. In 1984-1985 and since 2002 specific questions related to this topic were not asked. Since 2002 this in-

come component is included in the statutory pension insurance (IGRV2\$\$).

Method Income from widows and orphans social miners insurance pension is the product of

the number of months that income was received in the previous year and the average

amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

1986-2001: ISMP2\$\$ = (\$P2E02 * X)

since 2002: N/a

Widows and orphans social miners insurance pension variable list by survey year -

each entry denoted in algorithm as X:

cp6111 dp6111 ep5611 fp7411 gp7411 hp6911 ip6911 jp7913 kp7913 lp8413

mp7011 np7011 op6111 pp7911 qp7911 rp7911

Variable Name ICIV2\$\$

Variable Label Widows and orphans civil servant pension

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans civil servant pension of

individuals in the household 16 years of age and older. In 1984-1985 specific ques-

tions related to this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from widows and orphans civil servant pension is the product of the number

of months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: ICIV2\$\$ = (\$P2E02 * X)

Widows and orphans civil servant pension variable list by survey year - each entry de-

noted in algorithm as X:

cp6112 dp6112 ep5612 fp7412 gp7412 hp6912 ip6912 jp7914 kp7914 lp8414 mp7012 np7012 op6112 pp7912 qp7912 rp7912 tp9704 up8204 vp10304 wp8004

xp9704 yp9804 zp9404 bap8604 bbp8604 bcp8304 bdp10104 bep8804 bfp11704

Variable Name IWAR2\$\$

Variable Label Widows and orphans war victim pension

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans war victim pension of

individuals in the household 16 years of age and older. In 1984-1985 specific ques-

tions related to this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from widows and orphans war victim pension is the product of the number of

months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: IWAR2\$\$ = (\$P2E02 * X)

Widows and orphans war victim pension variable list by survey year - each entry de-

noted in algorithm as YWAR:

cp6113 dp6113 ep5613 fp7413 gp7413 hp6913 ip6913 jp7915 kp7915 lp8415 mp7013 np7013 op6113 pp7913 qp7913 rp7913 tp9706 up8206 vp10306 wp8006

xp9706 yp9806 zp9414 bap8614 bbp8614 bcp8314 bdp10114 bep8814 bfp11716

Variable Name IAGR2\$\$

Variable Label Widows and orphans farmer Pension

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans farmer pension of individ-

uals in the household 16 years of age and older. In 1984-1985 and since 2002 specific questions related to this topic were not asked. Since 2002 this income component is

included in the statutory pension insurance (IGRV2\$\$).

Method Income from widows and orphans farmer pension is the product of the number of

months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

1986-2001: IAGR2\$\$ = (\$P2E02 * X)

since 2001: N/a

Widows and orphans Farmer pension variable list by survey year - each entry denoted

in algorithm as X:

cp6114 dp6114 ep5614 fp7414 gp7414 hp6914 ip6914 jp7916 kp7916 lp8416

mp7014 np7014 op6114 pp7914 qp7914 rp7914

Variable Name IGUV2\$\$

Variable Label Widows and orphans statutory accident insurance

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans statutory accident insur-

ance pension of individuals in the household 16 years of age and older. In 1984-1985

specific questions related to this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from widows and orphans statutory accident insurance pension is the product

of the number of months that income was received in the previous year and the aver-

age amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: IGUV2\$\$ = (\$P2E02 * X)

Widows and orphans statutory accident insurance pension variable list by survey year

- each entry denoted in algorithm as X:

cp6115 dp6115 ep5615 fp7415 gp7415 hp6915 ip6915 jp7917 kp7917 lp8417 mp7015 np7015 op6115 pp7915 qp7915 rp7915 tp9708 up8208 vp10308 wp8008

xp9708 yp9808 zp9412 bap8612 bbp8612 bcp8312 bdp10112 bep8812 bfp11714

Variable Name IVBL2\$\$

Variable Label Widows and orphans supplement. benefits for civil servants

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans supplementary benefits for

civil servants of individuals in the household 16 years of age and older. In 1984-1985

specific questions related to this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from widows and orphans supplementary benefits for civil servants is the

product of the number of months that income was received in the previous year and

the average amount per month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: IVBL2\$ = (\$P2E02 * X)

Widows and orphans supplementary benefits for civil servants variable list by survey

year - each entry denoted in algorithm as X:

cp6116 dp6116 ep5616 fp7416 gp7416 hp6916 ip6916 jp7918 kp7918 lp8418 mp7016 np7016 op6116 pp7916 qp7916 rp7916 tp9710 up8210 vp10310 wp8010

xp9710 yp9810 zp9406 bap8606 bbp8606 bcp8306 bdp10106 bep8806 bfp11706

Variable Name ICOM2\$\$

Variable Label Widows and orphans company pension

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans company pension of

individuals in the household 16 years of age and older. In 1984-1985 specific ques-

tions related to this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from widows and orphans company pension is the product of the number of

months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: ICOM2\$\$ = (\$P2E02 * X)

Widows and orphans company pension variable list by survey year - each entry denot-

ed in algorithm as X:

cp6117 dp6117 ep5617 fp7417 gp7417 hp6917 ip6917 jp7919 kp7919 lp8419 mp7017 np7017 op6117 pp7917 qp7917 rp7917 tp9712 up8212 vp10312 wp8012

xp9712 yp9812 zp9408 bap8608 bbp8608 bcp8308 bdp10108 bep8808 bfp11708

Variable Name IPRV2\$\$

Variable Label Widows and orphans private pension

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans private pension of individ-

uals in the household 16 years of age and older. In 1984-2002 specific questions re-

lated to this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from widows and orphans private pension is the product of the number of

months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2002: N/a

since 2003: IPRV2\$\$ = (\$P2E02 * X)

Widows and orphans private pension variable list by survey year - each entry denoted

in algorithm as X:

 $tp9714\ up8214\ vp10314\ wp8014\ xp9714\ yp9814\ zp9410\ bap8610\ bbp8610\ bcp8310$

bdp10110 bep8810 bfp11712 bgp1032

Variable Name IRIE2\$\$

Variable Label Widows Riester pension plan

Unit of Observation Individual

Period Annual

Description This variable represents income from widows and orphans Riester pension plan of

individuals in the household 16 years of age and older. In 1984-2014 specific ques-

tions related to this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from widows and orphans Riester pension plan is the product of the number

of months that income was received in the previous year and the average amount per

month.

If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2014: N/a

since 2015: IRIE2\$\$ = (\$P2E02 * X)

Widows and orphans private pension variable list by survey year - each entry denoted

in algorithm as X:

bfp11710 bgp10310

Variable Name ISON2\$\$

Variable Label Other widows or orphans pension

Unit of Observation Individual

Period Annual

Description This variable represents income from other widows or orphans pension of individuals

in the household 16 years of age and older. In 1984-1985 specific questions related to

this topic were not asked.

In 2016 this information was not asked in subsamples M3/4.

Method Income from other widows or orphans pension is the product of the number of months

that income was received in the previous year and the average amount per month. If the information about the number of months is missing, the sample mean of that

variable has been assigned.

Format The value of this variable ranges from 0 to 999.999.

This variable is in current year EURO.

The original survey variables provided below can be found in the file _P and _PKAL.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-1985: N/a

since 1986: ISON2\$\$ = (P2E02 * X)

Other widows or orphans pension variable list by survey year - each entry denoted in

algorithm as X:

cp6118 dp6118 ep5618 fp7418 gp7418 hp6918 ip6918 jp7920 kp7920 lp8420 mp7018 np7018 op6118 pp7918 qp7918 rp7918 tp9716 up8216 vp10316 wp8016 xp9716 yp9816 zp9416 bap8616 bbp8616 bcp8316 bdp10116 bep8816 bfp11718

Variable Name	FJOB1\$\$	Imputation flag: Wages, Salary from main job
· · · · · · · · · · · · · · · · · · ·	FJOB2\$\$	Imputation flag: Income from secondary job
	FSELF\$\$	Imputation flag: Income from self-employment
	FUNBY\$\$	Imputation flag: Unemployment benefit
	FOLDY\$\$	Imputation flag: Old-age, civil servants pens
	FWIDY\$\$	Imputation flag: Widows / orphans pension
	FCOMP\$\$	Imputation flag: Combined company pension
	FPRVP\$\$	Imputation flag: Combined company pension
	FUNAY\$\$	Imputation flag: Unemployment assistance
	FSUBY\$\$	Imputation flag: Subsistence allowance
	FERET\$\$	Imputation flag: Old-age transition benefit
	FMATY\$\$	Imputation flag: Maternity benefit
	FSTUY\$\$	Imputation flag: Student grant
	FMILT\$\$	Imputation flag: Military community service pay
	FALIM\$\$	Imputation flag: Alimony
	FACHM\$\$	Imputation flag: Advance child maintenance payment
	FCHSU\$\$	Imputation flag: Advance cliffd maintenance payment Imputation flag: Child support, caregiver alimony
	FSPOU\$\$	Imputation flag: Clind support, caregiver anniony Imputation flag: Divorce alimony, during separation
	FELSE\$\$	Imputation flag: Divorce anniony, during separation Imputation flag: Private Transfers received
	FWITH\$\$	
		Imputation flag: Profit Withdrawal
	F13LY\$\$	Imputation flag: 13th monthly salary
	F14LY\$\$	Imputation flag: 14th monthly salary
	FXMAS\$\$	Imputation flag: Christmas bonus
	FHOLY\$\$	Imputation flag: Vacation bonus
	FGRAY\$\$	Imputation flag: Profit-sharing
	FOTHY\$\$	Imputation flag: Other bonuses
	FTRAY\$\$	Imputation flag: Commuting, travel grant
	FDEMY\$\$	Imputation flag: Indemnity

Variable Label Imputation flag: for respective income component

Unit of Observation Individual

DescriptionThis variable indicates if income from the respective income component has been

imputed.

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing values can be interpreted as:

-1 =no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A) and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Variable Name FGRV1\$\$ / FGRV2\$\$

Variable Label Imputation flag: statutory pension insurance /

Imputation flag: widows or orphans statutory pension insurance

Unit of Observation Individual

Description This variable indicates if income from the respective pension has been imputed. In

order to reduce complexity and because of minor incidence, the imputation flag variable FGVR1\$\$ and FGRV2\$\$ encompasses also imputation of item-non-response on

any of the considered variables related to (own) pension income.

The predominant imputation technique used to fill in missing values is based on the row and column imputation procedure developed by Little and Su (1989). In the case of lacking longitudinal data purely cross-sectional imputation techniques are applied.

For further details, see: Grabka and Frick (2003).

Method In the original SOEP data there are three types of missing values. These missing

values can be interpreted as:

-1 = no answer or do not know

-2 = does not apply

-3 = original value was deleted because it was found to be implausible

The imputation procedures was used to fill in missing values represented by -1 (.A)

and -3 (.C) only.

Format 0 = Not Imputed

1 = Fully Imputed

This algorithm omits individuals with survey non-responses.

Variable Name M11101\$\$

Variable Label Whether spent night in hospital in last year

Unit of Observation Individual

Description Indicates whether person stayed overnight in a hospital at any time in previous year

In 1990 and 1993 this information was not asked.

Method Transcribed variable.

Format -2 = N/A - Child

-1 = Item non-response

0 = Did not stay overnight in a hospital 1 = Stayed overnight in a hospital

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm

array hosp{*} ap5101 bp7201 cp7201 dp7201 ep6901 fp8501 null hp8001 ip8001 null kp8701 lp9301 mp7901 np8301 op7201 pp100 qp99 rp99 sp98 tp101 up94 vp107 wp98 xp101 yp111 zp98 bap100 bbp103 bcp106 bdp117 bep100 bfp134 bgp123

array nhosp{*} M11101\$\$;

do i = 1 to dim(netto);

if $netto\{i\} >= 10 \& < 20$ then do;

if i=1 and $hosp{i}=-2$ then $nhosp{i}=0$;

if $hosp{i}$ in (1,2) then $nhosp{i}=2-hosp{i}$;

if $hosp{i}$ in (-1,-3) then $nhosp{i}=-1$;

if $hosp{i}$ in (-2) then $nhosp{i}=-2$;

end;

else $nhosp{i}=-2;$

end;

Variable Name M11102\$\$

Variable Label Number of nights (days) stayed in hospital overnight in past year

Unit of Observation Individual

Description Number of nights (days) person stayed overnight in a hospital in previous year

In 1990 and 1993 this information was not asked.

Method Transcribed variable.

Format -2 = N/A - Child

-1 = Item non-response

0 = Did not stay overnight in a hospital 1-365 = Nights (days) spent in hospital

The original survey variables provided below can be found in the file P.

This algorithm omits individuals with survey non-responses.

Algorithm

array hospd{*} ap5103 bpP7203 cp7203 dp7203 ep6903 fp8503 null hp8003 ip8003 null kp8703 lp9303 mp7903 np8303 op7203 pp10102 qp10002 rp10001 sp9901 tp10201 up9501 vp10801 wp9901 xp10201 yp11201 zp9901 bap10101 bbp10401 bcp10701 bdp11801 bep10101 bfp13501

bgp12401

array nhospd{*} M11102\$\$;

do i = 1 to dim(netto);

if netto{i} >= 10 & < 20 then do;

if hospd{i}>=0 then nhospd{i}=hospd{i}; if hospd{i} in (-1,-3) then nhospd{i}=.M; if hospd{i} in (-2) then nhospd{i}=0;

end;

else $nhospd\{i\}=.S;$

end;

Variable Name M11103\$\$

Variable Label Whether had accident in past year that required hospitalization

Unit of Observation Individual

Description Indicates whether person had accident in past year that required he stay overnight

in a clinic or hospital. This information is collected for employed persons only.

In several years the question related to this topic were not asked.

Method Transcribed variable.

Format -2 = N/A - Child / does not apply currently not employed

-1 = Item non-response

0 = Had no accident that required overnight stay in a hospital 1 = Had accident that required overnight stay in a hospital

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm

```
null=.S;
```

> null null {*} M11103\$\$:

array m03{*} M11103\$\$; do i = 1 to dim(netto);

if netto $\{i\} >= 10 \& < 20 \text{ then do};$

if $s03\{i\}$ in (1,2) then $m03\{i\}=1$; if $s03\{i\}$ in (3) then $m03\{i\}=0$;

if $s03\{i\}$ in (-1,-3) then $m03\{i\}=-1$; if $s03\{i\}$ in (-2) then $m03\{i\}=-2$;

1 305 (1) iii (-2) then 11105 (

end;

else $m03\{i\}=-2;$

end;

Variable Name M11104\$\$

Variable Label Frequency play sports or exercise

Unit of Observation Individual

Description Indicates how often person plays sports, exercises or walks or swims. In several years

the question related to this topic were not asked.

Method Transcribed variable.

Format: -2 = N/A - Child

-1 = Item non-response

1 = Play sport or exercise once a year or less, almost never, or never

2 = Play sport or exercise several times a year 3 = Play sport or exercise at least once a month 4 = Play sport or exercise at least once a week

The original survey variable provided below can be found in the _P files.

This algorithm omits individuals with survey non-responses.

Algorithm

```
*** First code, generate one sport variable for east and west germans ***;
if grampreg = 2 and zp0203 ge 0 then GP0413 = zp0203+1;
if gsampreg = 2 and zp0203 lt 0 then GP0413 = zp0203;
array sport{*} AP0202 BP0703 CP0903 null EP0903 null GP0413 null IP0703 null
               KP1203 LP0613 MP0503 NP0303 OP0613 PP0303 null RP0303 null
               TP1414 null vp0303 null xp0303 yp1815 zp0303 null bbp0303 null
             bdp11116 null bfp1103 null
array nsport {*} M11104$$
do i = 1 to dim(netto);
if netto{i} >= 10 \& < 20 then do;
if sport{i}=-1 then nsport{i}=-1;
if sport{i}=-2 then nsport{i}=-2;
if i = 1 then do;
if sport{i} gt 0 then nsport{i}=sport{i};
end;
if i in (2,3,5,9,11,13,14,16,18,22,24,26,28,32) then do;
if sport{i} = 1 then nsport{i}=4;
if sport{i} = 2 then nsport{i} = 3;
if sport{i} = 3 then nsport{i} = 2;
if sport{i} = 4 then nsport{i}=1;
end;
if i in (7,12,15,20,25,30) then do;
if sport{i} in (1,2) then nsport{i}=4;
if sport{i} = 3 then nsport{i} = 3;
if sport{i} =4 then nsport{i}=2;
if sport{i} = 5 then nsport{i}=1;
end;
end;
else nsport{i}=-2;
end;
```

Variable Name M11105\$\$

Variable Label Have had stroke

Unit of Observation Individual

Description Indicates whether a doctor ever diagnosed a stroke

Method Transcribed variable

Format: 0 = N/A - Child

-1 = Item non-response 1 = has had a stroke

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2008, 2010, 2012, 2014: Data not available in SOEP

null null null null null null null zp10205 null bbp10006 null

bdp11206 null bfp12906 null

array m05{*} m11105\$\$; do i = 1 to dim(netto);

 $\begin{array}{lll} \mbox{if netto}\{i\} \mbox{ ge } 10 \mbox{ \& netto}\{i\} \mbox{ le } 19 \mbox{ then do;} \\ \mbox{if str}\{i\} \mbox{ gt } 0 & \mbox{ then m05}\{i\} = \mbox{str}\{i\}; \\ \mbox{if str}\{i\} \mbox{ in } (-1, -3) & \mbox{ then m05}\{i\} = M; \\ \mbox{if str}\{i\} \mbox{ in } (-2) & \mbox{ then m05}\{i\} = 0; \\ \end{array}$

end;

else $m05\{i\}=.S$;

end;

SOEP Survey Paper 464 142 SOEP v33

Variable Name M11106\$\$

Variable Label High blood pressure/circulation problems

Unit of Observation Individual

Description Indicates whether a doctor ever diagnosed a with high blood pressure or circulation

problems

Method Transcribed variable

Format: 0 = N/A - Child

-1 = Item non-response

1 = Has or had problem with high blood pressure or circulation

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2008, 2010, 2012, 2014: Data not available in SOEP

 $array \ hbp\{*\} \ null \ null$

null null null null null null null zp10207 null bbp10008 null

bdp11208 null bfp12908 null

array m06{*} m11106\$\$;

```
do i = 1 to dim(netto);
```

if netto{i} ge 10 & netto{i} le 19 then do; if hbp{i} gt 0 then $m06\{i\}=hbp\{i\}$; if hbp{i} in (-1,-3) then $m06\{i\}=.M$; if hbp{i} in (-2) then $m06\{i\}=0$;

end;

else $m06\{i\}=.S$;

Variable Name M11107\$\$

Variable Label Have or had diabetes

Unit of Observation Individual

Description Indicates whether a doctor ever diagnosed diabetes

Method Transcribed variable

Format: 0 = N/A - Child

-1 = Item non-response

1 = Has or had problem with diabetes

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2008, 2010, 2012, 2014: Data not available in SOEP

null null null null null null null zp10201 null bbp10002 null

bdp11202 null bfp12902 null

array m07{*} m11107\$\$;

do i = 1 to dim(netto);

 $\begin{array}{lll} \text{if netto}\{i\} \text{ ge } 10 \text{ \& netto}\{i\} \text{ le } 19 \text{ then do;} \\ \text{if dia}\{i\} \text{ gt } 0 & \text{then m07}\{i\} = \text{dia}\{i\}; \\ \text{if dia}\{i\} \text{ in (-1,-3)} & \text{then m07}\{i\} = .M; \\ \text{if dia}\{i\} \text{ in (-2)} & \text{then m07}\{i\} = 0; \\ \end{array}$

end;

else $m07\{i\}=.S$;

end;

SOEP Survey Paper 464 SOEP v33

Variable Name M11108\$\$

Variable Label Have or had cancer

Unit of Observation Individual

Description Indicates whether a doctor ever diagnosed cancer

Method Transcribed variable

Format: 0 = N/A - Child

-1 = Item non-response

1 = Has or had problem with cancer

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2008, 2010, 2012, 2014: Data not available in SOEP

 $array \ can \{*\} \ null \ nul$

null null null null null null null zp10204 null bbp10005 null

bdp11205 null bfp12905

array m08{*} m11108\$\$;

```
do i = 1 to dim(netto);
```

if netto{i} ge 10 & netto{i} le 19 then do; if $can\{i\}$ gt 0 then $m08\{i\}=can\{i\}$; if $can\{i\}$ in (-1,-3) then $m08\{i\}=.M$; if $can\{i\}$ in (-2) then $m08\{i\}=0$;

end;

else $m08\{i\}=.S$;

Variable Name M11109\$\$

Variable Label Have or had psychiatric problems

Unit of Observation Individual

Description Indicates whether a doctor ever diagnosed a depressive diseases.

Method Transcribed variable

Format: 0 = N/A - Child

-1 = Item non-response

1 = Has or had problem with depressive diseases

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2008, 2010, 2012, 2014: Data not available in SOEP

bdp11209 null bfp12909 null

array m09{*} m11109\$\$;

do i = 1 to dim(netto);

 $\begin{array}{ll} \text{if netto}\{i\} \text{ ge } 10 \text{ \& netto}\{i\} \text{ le } 19 \text{ then do;} \\ \text{if psy}\{i\} \text{ gt } 0 & \text{then m09}\{i\} = \text{psy}\{i\}; \\ \text{if psy}\{i\} \text{ in (-1,-3)} & \text{then m09}\{i\} = .M; \\ \text{if psy}\{i\} \text{ in (-2)} & \text{then m09}\{i\} = 0 \end{array}$

end;

else $m09\{i\}=.S;$

Variable Name M11110\$\$

Variable Label Have or had arthritis

Unit of Observation Individual

Description Indicates whether person has or had problems with arthritis

 $\begin{tabular}{ll} \textbf{Method} & n.a. \end{tabular}$

Format: Information is <u>not</u> available in the SOEP

Algorithm n.a.

Variable Name M11111\$\$

Variable Label Angina or heart condition

Unit of Observation Individual

Description Indicates whether a doctor ever diagnosed angina or heart condition problems

Method Transcribed variable

Format: 0 = N/A - Child

-1 = Item non-response

1 = Has or had problem with depressive diseases

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1984-2008, 2010, 2012, 2014: Data not available in SOEP

 $array \ ang\{*\} \ null \ null$

null null null null null null null zp10203 null bbp10004 null

bdp11204 null bfp12904 null

array m11{*} m11111\$\$;

```
do i = 1 to dim(netto);
```

if netto{i} ge 10 & netto{i} le 19 then do; if ang{i} gt 0 then $m11\{i\}=ang\{i\}$; if ang{i} in (-1,-3) then $m11\{i\}=.M$; if ang{i} in (-2) then $m11\{i\}=0$;

end;

else $m11\{i\}=.S$;

Variable Name M11112\$\$

Variable Label Have or had asthma or breathing difficulty

Unit of Observation Individual

Description Indicates whether person has or had problems with asthma or breathing difficulties

Method n.a

Format: n.a.

Algorithm Information is <u>not</u> available in the SOEP

Variable Name M11113\$\$

Variable Label Need help to climb stairs

Unit of Observation Individual

Description Indicates whether person has trouble with or needs help of others to climb stairs.

In several years the question related to this topic were not asked.

Method Transcribed variable.

Format: -2 = N/A - Child

-1 = Item non-response

0 = Doesn't have trouble with stairs or need help with stairs 1 = Has trouble with stairs or needs help of others with stairs

The original survey variable provided below can be found in the P files.

This algorithm omits individuals with survey non-responses.

Algorithm

null=.-2;

*First set missing values for all other data;

M1111384 - M1111301, M1111303, M1111305, M1111307, M1111309, M1111311,

M1111313 M1111315 =-2

array hlpstair{*} sp87 up84 wp88 yp100 bap88 bcp92 bep90 bgp106

array hlthaffstair {*} M1111302 M1111304 M1111306 M1111308 M1111310

M1111314;

do i = 1 to dim(hlpstair);

if $hlpstair{i}$ in (1, 2) then $hlthaffstair{i} = 1$;

if $hlpstair\{i\} = 3$ then $hlthaffstair\{i\}=0$;

if $hlpstair\{i\} < 0$ then $hlthaffstair\{i\} = .-1$;

Variable Name M11114\$\$

Variable Label Have difficulty or need help of others to bathe

Unit of Observation Individual

Description Indicates whether person has trouble with or needs help of others to bathe

Method n.a

Format: n.a.

Algorithm Information is <u>not</u> available in the SOEP

Variable Name M11115\$\$

Variable Label Have difficulty or need help of others to dress

Unit of Observation Individual

Description Indicates whether person has trouble with or needs help of others to dress.

In 1984-1990 questions related to this topic were not asked.

Method Transcribed variable.

Format: -2 = N/A - Child

-1 = Item non-response

0 = Doesn't have trouble with or need help of others to dress

1 = Has trouble with or needs help of others to dress

The variable provided below are derived from the original survey variable "multgrad"

which can be found in the file PFLEGE.

This algorithm omits individuals with survey non-responses.

Algorithm Note that, in the original survey data the questions in the SOEP asks about differing

levels of help required in different years. Please refer to the "PFLEGE.DOC" document. The question from the original survey starts in 1991 and identifies individuals who "require help only with household chores, meals, and drinking."

if erhebj=&year; if multgrad in (-1,-2,-3) then multgrad=9; char=put(multgrad,5.); simp&year.=0; if substr(char,4,1)=1 then simp&year.=1; if multgrad in (9) then do; simp&year.=-1; end; array simp{*} simp\$\$; array M15{*} M11115\$\$; do i = 1 to dim(netto);

if netto{i} >= 10 & < 20 then do; $m15{i}=0;$ if $simp\{i\}$ in (1) then $m15\{i\}=1$; if $simp\{i\}$ in (.M) then $m15\{i\}=-1$; end;

else $m15\{i\} = -2;$

if i in (1,2,3,4,5,6,7) then m15{i}=.-2;

Variable Name M11116\$\$

Variable Label Have difficulty or need help of others to get in/out of bed

Unit of Observation Individual

Description Indicates whether person has trouble with or needs help of others to get into/out

of bed. In 1984 questions related to this topic were not asked.

Method Transcribed variable.

Format: -2 = N/A - Child

-1 = Item non-response

0 = Doesn't have trouble with or need help of others to get in/out of bed

1 = Has trouble with or needs help of others to get in/out of bed

The variables provided below are derived from the original survey variable "multgrad" and "maxgrad" which can be found in the file PFLEGE.

This algorithm omits individuals with survey non-responses.

Algorithm

```
if erhebj=&year;
                                                             (\&year = 84, 85, ..., 90)
if maxgrad=1 then outh&year.=1;
if maxgrad=3 then do; inh&year.=1; outh&year.=1; end;
if maxgrad=5 then do; bed&year.=1; inh&year.=1; outh&year.=1; end;
if maxgrad in (-1,-3) then do; bed&year.=-1; inh&year.=-1; outh&year.=-1; end;
end;
if erhebj=&year;
                                                             (\&year = 91, 92, ...)
if multgrad in (-1,-2,-3) then multgrad=9; char=put(multgrad,5.);
bed&year.=0;
if substr(char,5,1)=1 then bed&year. =1;
if multgrad in (9) then do;
 bed&year.=-1;
end;
array bed{*} bed$$;
array M16{*} M11116$$;
do i = 1 to dim(netto);
if netto{i} >= 10 \& < 20 then do;
m16{i}=0;
if bed\{i\} in (1) then m16\{i\}=1;
if bed\{i\} in (.M) then m16\{i\}=.M;
end;
else m16\{i\}=.S;
if i=1 then m16\{i\}=.S;
end;
```

Variable Name M11117\$\$

Variable Label Have difficulty or need help of others to shop

Unit of Observation Individual

Description Indicates whether person has trouble with or needs help of others to shop.

In 1984 questions related to this topic were not asked.

Method Transcribed variable.

Format: -2 = N/A - Child

-1 = Item non-response

0 = Doesn't have trouble with or need help of others to shop

1 = Has trouble with or needs help of others to shop

The variables provided below are derived from the original survey variable "mul-

tgrad" and "maxgrad" which can be found in the file PFLEGE. This algorithm omits individuals with survey non-responses.

Algorithm

```
if erhebj=&year;
                                                             (\&year = 84, 85, ..., 90)
if maxgrad=1 then outh&year.=1;
if maxgrad=3 then do; inh&year.=1; outh&year.=1; end;
if maxgrad=5 then do; bed&year.=1; inh&year.=1; outh&year.=1; end;
if maxgrad in (-1,-3) then do; bed&year.=-1; inh&year.=-1; outh&year.=-1; end;
end;
if erhebj=&year;
                                                             (\&year = 91, 92, ...)
if multgrad in (-1,-2,-3) then multgrad=9; char=put(multgrad,5.);
outh&year.=0;
if substr(char,1,1)=1 then outh&year.=1;
if multgrad in (9) then do;
outh&year.=-1;
end;
array outh{*} outh$$
array M17{*} M11117$$;
do i = 1 to dim(netto);
if netto{i} >= 10 \& < 20 then do;
m17\{i\}=0;
if outh\{i\} in (1) then m17\{i\}=1;
if outh\{i\} in (.M) then m17\{i\}=.M;
end;
else m17\{i\}=.S;
if i=1 then m17\{i\}=.S;
end;
```

Variable Name M11118\$\$

Variable Label Walk 10+ minutes difficult

Unit of Observation Individual

Description Indicates whether person has trouble to walk unaided for 10 or more minutes

Method n.a

Format: n.a.

Algorithm Information is <u>not</u> available in the SOEP

Variable Name M11119\$\$

Variable Label Difficulty doing housework

Unit of Observation Individual

Description Indicates whether person has trouble doing housework.

In 1984 questions related to this topic were not asked.

Method Transcribed variable.

Format: -2 = N/A - Child

-1 = Item non-response

0 = Doesn't have trouble doing housework

1 = Has trouble doing housework.

The variables provided below are derived from the original survey variable "multgrad" and "maxgrad" which can be found in the file PFLEGE.

This algorithm omits individuals with survey non-responses.

Algorithm

```
if erhebj=&year;
                                                              (&year= 84, 85, ..., 90)
if maxgrad=3 then do; inh&year.=1; end;
if maxgrad in (-1,-3) then do; inh&year.=-1; end;
end;
if erhebj=&year;
                                                              (\&year=91, 92, ...)
if multgrad in (-1,-2,-3) then multgrad=9; char=put(multgrad,5.);
inh&year.=0;
if substr(char,2,1)=1 then inh&year. =1;
if multgrad in (9) then do;
inh&year.=-1;
end;
array inh{*} inh$$;
array M19{*} M11119$$;
do i = 1 to dim(netto);
if netto{i} >= 10 \& < 20 then do;
m19{i}=0;
if inh\{i\} in (1) then m19\{i\}=1;
if inh\{i\} in (.M) then m19\{i\}=.M;
end;
else m19\{i\}=.S;
if i=1 then m19\{i\}=.S;
end;
```

Variable Name M11120\$\$

Variable Label Health limits bending, lifting, stooping

Unit of Observation Individual

Description Indicates whether a person's health limits his ability to bend, lift, or stoop

Method n.a

Format: n.a.

Algorithm Information is <u>not</u> available in the SOEP

Variable Name M11121\$\$

Variable Label Health limits vigorous physical activity

Unit of Observation Individual

Description Indicates whether person's health limits vigorous physical activity

Method n.a

Format: n.a.

Algorithm Information is <u>not</u> available in the SOEP

Variable Name M11122\$\$

Variable Label Height in centimeters

Unit of Observation Individual

Description This variable indicates each person's height in centimeters on the interview date.

In 1984-2001, 2003/05/07/09/11,13 questions related to this topic were not asked.

Method Transcribed variable.

Format -2 = N/A - Child

-1 = Item non-response

0 to 220 = Height in centimeters

The original survey variables provided below can be found in the file _P and PAGE17. This algorithm omits individuals with

Algorithm

 $array \ hgt\{*\} \ null \ null$

SP90 null up90 null wp94 null yp107
null bap96 null bcp100 null bep96 null

bgp119;

 $array \ hg2\{*\} \ null \ null$

null null null null wj57 null yj57 null baj57null bcj57null bej57 null bgj100;

array M22{*} m11122\$\$

```
do i = 1 to dim(netto);
```

 $\begin{array}{lll} \text{if netto}\{i\} \ \text{ge } 10 \ \& \ \text{netto}\{i\} \ \text{le } 19 \ \text{then } \text{do;} \\ \text{if } \text{hgt}\{i\} \ \text{gt } 0 & \text{then } \text{M22}\{i\} = \text{hgt}\{i\}; \\ \text{if } \text{hgt}\{i\} \ \text{in } (0,\text{-}1,\text{-}3) \ \text{then } \text{M22}\{i\} = .M; \\ \text{if } \text{hgt}\{i\} \ \text{in } (-2) & \text{then } \text{M22}\{i\} = .S; \\ \text{if } \text{hg2}\{i\} \ \text{gt } 0 & \text{then } \text{M22}\{i\} = \text{hg2}\{i\}; \\ \text{if } \text{hg2}\{i\} \ \text{in } (0,\text{-}1,\text{-}3) \ \text{then } \text{M22}\{i\} = .M; \\ \end{array}$

if $hg2\{i\}$ in (-2) then $M22\{i\}=.S$; end;

else $M22\{i\}=.S$;

Variable Name M11123\$\$

Variable Label Weight in kilos

Unit of Observation Individual

Description This variable indicates each person's weight in kilos on the interview date.

In 1984-2001, 2003/05/07/09/11/13 questions related to this topic were not asked.

Method Transcribed variable.

Format -2 = N/A - Child

-1 = Item non-response 0 to 400 = Weight in kilos

The original survey variables provided below can be found in the file _P and PAGE17. This algorithm omits individuals with survey non-responses.

Algorithm

 $array\ wgt\{*\}\ null\ n$

SP91 null up91 null wp95 null yp108 null bap97 null bcp101 null bep97 null

bgp120

 $array \ wg2\{*\} \ \overline{null} \ null \$

null null null null wj58 null yj58 null baj58 null bcj58 null bej58 null bgj101

array M23{*} m11123\$\$

do i = 1 to dim(netto); if netto{i} ge 10 & ne

if netto{i} ge 10 & netto{i} le 19 then do;

if wgt{i} gt 0 then m23{i}=wgt{i};

if $wgt\{i\}$ in (0,-1,-3) then $m23\{i\}=.M$; if $wgt\{i\}$ in (-2) then $m23\{i\}=.S$;

if $wg2\{i\}$ gt 0 then $m23\{i\}=wg2\{i\}$;

if $wg2\{i\}$ in (0,-1,-3) then $m23\{i\}=.M$;

if $wg2\{i\}$ in (-2) then $m23\{i\}=.S$;

end;

else $m23\{i\}=.S$;

Variable Name M11124\$\$

Variable Label Disability Status of Individual

Unit of Observation Individual

Description This variable indicates disability status at the time of the survey for all individuals in

the household 16 years of age and older.

Method Disability is here defined as a share of legally attested disability of more than 30%. In

1986, 1990 and 1993 this information was in SOEP not asked. If in the following year a legally attested disability existed then this information is assigned to the previous

year.

Format -2 = N/A - Child

-1 = Item non-response 0 = Not disabled 1 = Disabled

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm Degree of disability variable list by survey year - each entry denoted in algorithm as

Ydisab:

ap5202 bp7402 cp74b02 dp0602 ep6602 fp8202 gp7702 hp7702 ip7802 jp7802 kp8402 lp9102 mp7702 np8102 op7002 pp9702 qp9702 rp9702 sp9502 tp9902 up9202 vp10502 wp9602 xp10502 yp10902 zp9602 bap9802 bbp10102 bcp10402

bdp11402 bep9302 bfp13102 bgp110

*This step is to assign a value for 1990 using 1991 degree of disability;

if gnetto ge 10 & < 30 & ghnetto=1 then do; gp7702=0; if hp7702 > 0 then gp7702=hp7702; end;

*This step is to assign a value for 1993 using 1992 degree of disability;

if jnetto ge 10 & < 30 & jhnetto=1 then do; jp7802=0; if ip7802 > 0 then jp7802=ip7802; end;

*This step is to assign values to respondents in 1986 missing degree of disability information:

if cnetto >= 10 & < 30 and chnetto in (1) then do; if cp74b02<0 then do; if bp7402 > 0 then cp74b02 = bp7402; end;

*Next assign disability status for all individuals using the variable list shown above;

if Ydisab ge 30 then M11124\$\$=1; else M11124\$\$=0; Variable Name M11125\$\$

Variable Label Satisfaction With Health

Unit of Observation Individual

Description This variable indicates satisfaction with health at the time of the survey for all indi-

viduals in the household 16 years of age and older.

Method Individuals are asked to report how satisfied they are with their health on a scale of 0

to 10, in which 0 means totally unhappy and 10 means totally happy.

Format -2 = N/A - Child

-1 = Item non-response

 $0 = totally unhappy, \dots, 10 = totally happy$

The original survey variables provided below can be found in the file __P.

This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: D11101__ = Age of Individual

Algorithm

Satisfaction With Health variable list by survey year - each entry denoted in algorithm

as Ysatis

ap0301 bp0101 cp0101 dp0101 ep0101 fp0101 gp0101 hp1001 ip9801 jp0101 kp0101

lp0101 mp0101 np0101 op0101 pp0101 qp0101 rp0101 sp0101 tp0101 up0101 vp0101 wp0101 xp0101 yp0101 zp0101 bap0101 bbp0101 bcp0101 bdp0101

bep0101 bfp0101 bgp0101

if D11101\$\$ ge 16 then do (Y=a-x, \$\$=84, ...)

if Ysatis ge $\overline{0}$ then M11125\$\$ = Ysatis else M11125\$\$ = .M

end

if D11101\$\$ lt 16 then M11125\$\$ = .C

Variable Name M11126\$\$

Variable Label Self-Rated Health Status

Unit of Observation Individual

Description This variable indicates each person's self-rated health status.

Method Transcribed variable.

Format: -2 = N/A - Child

-1 = Item non-response

1 = Excellent 2 = Very good 3 = Good 4 = Fair 5 = Poor

The original survey variables provided below can be found in the file _P and _PAGE17. This algorithm omits individuals with survey non-responses.

Algorithm 1984-1991, 1993: Data not available in SOEP

1992, since 1994:

array sta1{*} null null null null null null null ip77 null kp83 lp89 mp75 np79 $\,$

op
66 pp95 qp95 rp95 sp86 tp98 up83 vp104 wp87 xp104 yp99 zp95

bap87 bbp97 bcp91 bdp110 bep89 bfp127 bgp105

bej56 bfj56 bgj99

array stat{*} M11126\$\$ do i = 1 to dim(netto); if netto{i} >= 10 & < 20 then do; if sta1{i} ge 0 then stat{i}=sta

if $sta1\{i\}$ ge 0 then $stat\{i\}=sta1\{i\}$; if $sta1\{i\}$ in (-1,-3) then $stat\{i\}=.M$; if $sta1\{i\}$ in (-2) then $stat\{i\}=.S$; if $sta2\{i\}$ ge 0 then $stat\{i\}=sta2\{i\}$; if $sta2\{i\}$ in (-1,-3) then $stat\{i\}=.M$;

if $sta2\{i\}$ in (-2) then $stat\{i\}=.S$;

end;

else stat $\{i\}$ =-2;

Variable Name M11127\$\$

Variable Label Number of doctor visits in previous year

Unit of Observation Individual

Description Number of doctor visits in previous year. The SOEP asked for the number of trips to

the doctor's in the last three months. This information is multiplied by 4 to get the annual figure. In the years 1984 to 1987 and 1994 the SOEP asked for various medical

specialist. This information was add up to yield one measure. In 1990 and 1993 the Number of doctor visits were not asked.

Method Transcribed variable

Format: -2 = N/A - Child

-1 = Item non-response

0 to 400 = doctors visits in previous year.

The original survey variables provided below can be found in the file _P.

This algorithm omits individuals with survey non-responses.

Algorithm 1990, 1993: Data not available in SOEP

1984-1989, 1991-1992, since 1994:

ap5001 = sum(ap5002-ap5012); bp7101 = sum(bp7102-bp7112); cp7101 = sum(cp7102-cp7112); dp7101 = sum(dp7102-dp7112);

kp8601 = sum(kp8602-kp8612);

array s100{*} ap5001 bp7101 cp7101 dp7101 ep6801 fp8401 null hp7901 ip7901 null

kp8601 lp9201 mp7801 np8201 op7101 pp9801 qp9801 rp9801 sp9601 tp10001 up9301 vp10601 wp9701 xp10601 yp11001 zp9701 bap9901 bbp10201 bcp10501 bdp11601 bep9901 bfp13301 bgp12201

array s101{*} ap5001 bp7101 cp7101 dp7101 ep6802 fp8402 null hp7902 ip7902 null kp8601 lp9202 mp7802 np8202 op7102 pp9802 qp9802 rp9802 sp9602 tp10002 up9302 vp10602 wp9702 xp10002 yp11002 zp9702 bap9902 bbp10202 bcp10502 bdp11602 bep9902 bfp13302 bgp12202

array $s101\{*\}$ M11127\$\$ do i = 1 to dim(netto); if netto{i} >= 10 & < 20 then do; if $s100\{i\}$ ge 0 then $s101\{i\}=4*s100\{i\}$;

if $s100\{i\}$ in (-1,-3) then $s101\{i\}=M$; if $s100\{i\}$ in (-2) then $s101\{i\}=0$;

end;

else $s101\{i\}=.S;$

Variable Name P11101\$\$

Variable Label Overall life satisfaction

Unit of Observation Individual

Description This variable indicates the satisfaction with life in general at the time of the survey for

all individuals in the household 16 years of age and older.

Method Individuals are asked to report how satisfied they are with their life in general on a

scale of 0 to 10, in which 0 means completely dissatisfied and 10 means completely

satisfied.

Format -2 = N/A - Child

-1 = Item non-response

0 = completely dissatisfied,, 10 = completely satisfied

The original survey variables provided below can be found in the file __P.

This algorithm omits individuals with survey non-responses.

Equivalent Data File Variable Definitions: D11101__ = Age of Individual

Algorithm

Satisfaction With Life variable list by survey year - each entry denoted in algorithm as

Ysatis:

ap6801 bp9301 cp9601 dp9801 ep89 fp108 gp109 hp10901 ip10901 jp10901 kp10401 lp10401 mp11001 np11701 op12301 pp13501 qp14301 rp13501 sp13501 tp14201 up14501 vp154 wp142 xp149 yp15501 zp15701 bap160 bbp15201 bcp151 bdp15801

bep151 bfp174 bgp175

if D11101\$\$ ge 16 then do

(Y=a-x, \$\$=84, ...)

if Ysatis ge 0 then P11101\$\$ = Ysatis else $\ddot{U}11101$ \$\$ = .M

end

if D11101\$\$ lt 16 then P11101\$\$ = .C

Variable Name W11101\$\$

Variable Label Individuals Cross-sectional Weight – without 1st wave of a subsample

Unit of Observation Individual

Description Indicates the individual's population and sample weight. The individual weight pro-

vides a time-series consistent information, which might be used for analyses of income and income inequality over time. Given the selectivity built in the answering behavior of first-time respondents with respect to income questions (showing a significant higher share of item-non response which is especially true for a first wave of a new sub-sample), this weighting factor excludes every first wave of a new sub-sample of the SOEP. If all sub-samples will be used, the appropriate variable is W11105\$\$.

Method Individual weights to compensate for unequal probabilities of selection and sample

attrition are necessary to obtain populations based statistics. The individual weights

also encompass population weights.

Format The value of this variable ranges from 0 to 80.000.

The original survey variables provided below can be found in the file PHRF.

This algorithm omits individuals with survey non-responses.

Algorithm

W11101\$\$ = Yphrf

W11101\$\$ = Ophrfad
W11101\$\$ = Qphrfae
W11101\$\$ = Sphrfaf
W11101\$\$ = Wphrfag
W11101\$\$ = BAphrfah
W11101\$\$ = BBphrfal2
W11101\$\$ = BCphrfaj
W11101\$\$ = BDphrfak
W11101\$\$ = BFphrfam1
W11101\$\$ = BGphrfam2

Variable Name W11102\$\$

Variable Label Household Weight

Unit of Observation Household

Description Indicates the household's sample weight.

Method Household weights to compensate for unequal probabilities of selection and sample

attrition are necessary to obtain populations based statistics.

Format The value of this variable ranges from 0 to 80.000.

The original survey variables provided below can be found in the file HHRF.

This algorithm omits individuals with survey non-responses.

Algorithm W11102\$\$ = Yhhrf

Variable Name W11103\$\$

Variable Label Longitudinal Weight – Respondent Individuals

Unit of Observation Individual

Description Indicates the individual's longitudinal sample weight.

Method Longitudinal weights in the SOEP are constructed using inverse staying factors. The

staying factor is the inverse of the probability that an individual participated in the

named year. By themselves, W11103\$\$ are only staying factors.

To properly weight a balanced sample of individuals represented in five years of the survey (1986 through 1990), for example, create a longitudinal weight by multiplying the individual weight in 1986 by the staying factors in 1987, 1988, 1989, and 1990.

Example:

longitudinal weight = W1110186*W1110387*W1110388*W1110389*W1110390

The created longitudinal weight should be used with any longitudinal sample.

Format N/A

The original survey variables provided below can be found in the file PHRF.

This algorithm omits individuals with survey non-responses.

Algorithm 1984: N/A

since 1985: W11103\$\$ = Ypbleib

Variable Name W11104\$\$

Variable Label Population Factor

Unit of Observation Household

Description This correction factor is already integrated into W11101\$\$ and is not repeated here.

Format Data <u>not</u> available in SOEP

Variable Name W11105\$\$

Variable Label Individuals Cross-sectional Weight – all samples

Unit of Observation Individual

Description Indicates the individual's weight for all sub-samples of the SOEP.

Method Individual weights to compensate for unequal probabilities of selection and sample

attrition are necessary to obtain populations based statistics.

These weights should be used when analyses include all sub-samples of the SOEP.

For a more detailed discussion of weighting issues in the SOEP please see Desktop

Companion to the German Socio-Economic Panel Study (SOEP).

Format The value of this variable ranges from 0 to 80.000.

The original survey variables provided below can be found in the file PHRF.

This algorithm omits individuals with survey non-responses.

Algorithm W11105\$\$ = \$PHRF

Variable Name	Variable Label
W11107\$\$	Cross-sectional Weight – Enumerated Individuals
W11107\$\$ W11108\$\$	Longitudinal Weight – Enumerated Individuals
W11109\$\$ W11109\$\$	Population Factor for W11103\$\$
W11110\$\$	Population Factor for W11107\$\$
W11111\$\$	Population Factor for W11108\$\$
43 443	D
Algorithm	Data <u>not</u> available in SOEP

SOEP Survey Paper 464 SOEP v33

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