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Research Report

Biography and Life History Data in the German Socio Economic Panel (SOEP, v27, 1984-2010)

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Data Documentation

Deutsches Institut für Wirtschaftsforschung

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Biography and Life History Data in the German Socio Economic Panel (SOEP, v27, 1984 - 2010)

Joachim R. Frick and Jan Goebel (Eds.)

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Data Documentation 61

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Biography and Life History Data in the German Socio Economic Panel (SOEP, v27, 1984 – 2010)

Berlin, November 2011

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Contents

1	General Introduction	1
2	Biographical Information in the Meta File PPFAD (Month of Birth, Year of Death, Immigration Variables, Living in East or West Germany in 1989)	13
2.1	Month of birth	13
2.2	Construction of variables	14
2.3	Year of death	16
2.4	Immigration information	19
2.5	Living in East or West Germany in 1989	30
3	Activity Biography in the File PBIOSPE	32
4	BIOJOB: Detailed Information on First and Last Job	41
4.1	Overview	41
4.2	Structure and Contents of BIOJOB	42
4.2.1	Contents of BIOJOB:	42
4.3	Steps of Coding	61
4.4	Definition and assignment of new value-labels for the sub-category LJCIVS, four labels possible, for details see above.	63
5	The marital history files BIOMARSM and BIOMARSY	64
5.1	BIOMARSM: Prospectively collected monthly information on the marital history	64
5.2	BIOMARSY: A yearly marital biography	67
5.3	Sources of the marital history	70
5.4	Construction of the marital history	72
6	BIOBIRTH – A Data Set on the Birth Biography of Female Respondents (Version 2010)	76
6.1	Population and purpose of the data set BIOBIRTH	76
6.2	Structure of the data set	76
6.3	Information basis of the birth biography	78
6.4	A new source of biographical information – the youth questionnaire	79
6.5	Identification process of the children in the SOEP data base	80
6.6	Identification of the children for women with biographical data	81
6.7	Identification of the children for women who have no biography data/ not completed the biography questionnaire	82
6.8	Last step of the identification process	83
6.9	Updating BIOBIRTH	83

7	BIOBRTHM – The Birth Biography of Male Respondents in the SOEP (Version 2010)	88
7.1	Contents of the BIOBRTHM data-set	88
7.2	Population of BIOBRTHM	89
7.3	Construction of variables - Particularities	90
8	BIOTWIN – Information on TWINS in the SOEP	93
8.1	Population and contents of the data set BIOTWIN	93
8.2	The twin survey of 2006	94
8.3	Construction of variables in the data set BIOTWIN	94
9	BIOIMMIG: Generated and Status Variables from SOEP for Foreigners and Migrants (Version 2011)	97
9.1	Content	97
9.2	Status Variables and Carrying Forth of Information	97
9.3	Updating of Time-Dependent Information	99
9.4	Using this File	99
9.4.1	Using BIOIMMIG as a Cross-Section	100
9.5	Documentation of the Variables	100
10	BIOPAREN: Biography Information for the Parents of SOEP Respondents	142
10.1	Content of the data file BIOPAREN	142
10.2	Inclusion of the Biography	143
10.3	Generating using BIOPAREN	143
10.3.1	Steps for Generating from BIOPAREN	148
10.3.2	Identification of the Parents	153
10.4	Updating	154
10.5	Correction and adaption in the current version	155
10.6	New Variables in BIOPAREN as of data release (2006, up to wave U): VAORTAKT/MAORTAKT and VAORTUP/MAORTUP	156
10.7	New Variables in BIOPAREN as of data release (2008):	157
10.8	New Variables in BIOPAREN as of data release (2010): MORIGIN, VORIGIN	157
11	BIOSOC: Retrospective Data on Youth and Socialization	158
11.1	Structure of the Data Set BIOSOC	160
11.2	Special Features of Some Questions and Variables	160
12	BIORESID: Variables On Occupancy and Second Residence	164
12.1	Sources of Variables	165
12.2	Population of Interest	165
12.3	Variable List of the Data Set BIORESID	166

13	BIOAGE17: The Youth Questionnaire.....	167
13.1	Genesis and Target Population of the Youth Questionnaire	167
13.2	Contents and Structure of the Data Set BIOAGE17	169
13.3	Special Features of Some Questions and Variables	170
14	BIOAGE01: Generated Variables from the ‘Mother and Child Questionnaire’ ..	178
14.1	Contents and aims of the BIOAGE01 data file	180
14.2	Variables in BIOAGE01	181
15	BIOAGE03: Generated Variables from the supplementary questionnaire “Your child between the ages of two and three”	184
15.1	Content and goal of the BIOAGE03 dataset.....	186
15.2	Variables in BIOAGE03	187
16	BIOAGE06: Generated Variables from the supplementary questionnaire “Your child between the ages of five and six”	189
16.1	Content and goal of the BIOAGE06 dataset.....	191
16.2	Variables in BIOAGE06	192
17	BIOAGE08A and BIOAGE08B: Generated Variables from the ‘Parents Questionnaire’	194
17.1	Contents and aims of the BIOAGE08 data file	196
17.2	Variables in BIOAGE08A	197
17.3	Variables in BIOAGE08B	199
18	BIOEDU (beta version): Data on educational participation and transitions	201
19	LIFESPELL: Information on the Pre- and Post-Survey History of SOEP- Respondents.....	205
	Index.....	212

1 General Introduction

By compiling a comprehensive set of questions on the individual life history into user-friendly variables, the SOEP database provides users with a representative collection of biographical information for the entire German population. This covers information on the individual career path since the age of 15, on marital status and childhood biography, the first job, social background and immigration history. The function of these data is, on the one hand, to make important background information available for analyses (e.g. information on fertility as an explanatory variable when analyzing labor market supply of women), and, on the other hand, to support self-contained analyses (e.g. on occupational careers or intergenerational transmission of education).

In general, each respondent of the SOEP questionnaire (surveying age starts in the calendar year a person turns 17 years) will answer the biographical questions only once (retrospectively). In the beginning of the SOEP, this occurred within the framework of the first three waves (1984 to 1986). Due to the inevitable ‘mortality rate’ of the panel (refusal to participate, death, relocation abroad), this process unfortunately leads to missing biographical entries for persons who did not participate in all three waves. Because of this, since 1988 all biographical information (occupation, marital status, family, first job and social background) is, in principle, collected during the first interview for new respondents in existing sample households. It should be noted that - due to the costs involved and the increased response burden - the main objective of surveying the biographical information in the course of the very first interview is not applied to the first wave of new subsamples. For example, in sample C (East Germany, field work started in 1990) the biographical questionnaire was first collected in 1992. Consequently, the surveyed persons in sample C who left SOEP before 1992 or who refused to complete the biography questionnaire in 1992 have no biographical information included in the SOEP data.

Summing up, in principle most of the biographical information in the SOEP is collected by means of the so-called ‘Lebenslauf’ (‘life history’) questionnaire. Although naming conventions, positioning of questions and the scope of this questionnaire have been changed and revised several times (see below), it has been addressed once at each respondent throughout the SOEP. Since 2000, a separate youth questionnaire exists which contains youth-specific questions.¹ A whole new series of age-triggered instruments for collecting biographical data was implemented in 2003. The target of

¹ Due to survey-related reasons biographical information was not asked of first-time respondents aged 16 or 17 years until 1999. For this group of persons, much of the biographical information (i.e. on marital status and family information, occupation history since the age of 16 and social background) can generally be reconstructed using variables collected by means of the Individual Questionnaire, i.e. from the yearly ongoing survey.

the *first* of these questionnaires is to collect information about *newborn* children. It is aimed at their mothers of children aged up to 15 months. As a result, the SOEP has started to survey the development of children from the very beginning of their life and will provide users with a completely new type of data. In 2005, a follow-up questionnaire targeted at children aged 2 to 3 years was implemented. Again, the information was collected from the mothers. It contained questions on the child's individual development and the mother's specific experiences during this formative period of raising the child. There will be follow-up interviews to collect data about these children at specific ages which are typically associated with decisions relevant to their individual development. The respective questionnaire targeted at children aged 5 to 6 was implemented in 2008². A questionnaire targeted at children aged 7 to 8 years is used for the first time in 2010. This questionnaire will be answered by mothers and fathers (in contrast to earlier age-triggered instruments which were answered by mothers, only) and will therefore delivered in two separate files.

A chronological listing of the various changes related to the survey of biographically relevant information for the time period 1984 to 2010 can be found below. The differences in gathering information among and between the various sub-samples are reported with respect to 'Timing' (*when* respondents were asked), 'Coverage' (*which* parts of the biographical topics and single indicators were asked), and 'Positioning' of the biographical questions in the diverse survey instruments.

- 1984 The focus of the survey from samples A and B was the occupational biography. This information was collected (retrospectively) with the help of a 'life-course calendar' and covered the time period from the age of 15 up to the current age (or up until and including the maximum age of 65). The 'calendar' takes the form of a matrix with one column for every year of age and up to nine specifications of occupational activities (school, apprenticeship / training, military and community service, employed full time, employed part time, unemployed, househusband/wife, retired and other; question 62 in the standard Individual Questionnaire in Wave 1).
- 1985 The focus for samples A and B was on collecting marital and family status information in retrospect (questions 81-88 in the standard Individual Questionnaire in Wave 2). The number of children born up to that point in time is collected in detail as well as the eventual date at which the children moved

² **Help for (very) old friends:** Starting with data release 2006 (up to wave V) naming conventions for files containing data collected by means of age-specific questionnaires have been changed: Data from the "Mother and Child" questionnaire on newborns can be found in the file BIOAGE01 (file BIOCHILD in earlier SOEP-data releases), data collected by means of the questionnaire on 2 to 3 year old children can be found in the file BIOAGE03, and the biography information collected from 16 to 17 year old first time respondents is stored in the file BIOAGE17 (file BIOYOUTH in earlier SOEP-data releases).

- out of the parents' home (only female participants were asked those questions). In addition, residency during childhood, the date a person moved out of the parents' home, as well as the start, end and potential reasons for the termination of up to three marriages are asked of each surveyed person.
- 1986 The focus of the life history data was on social background and entry into the workforce (questions 10-13 and 80-87 in the standard Individual Questionnaire, Wave 3). Information on every surveyed person's parents is included, i.e. their year of birth and, where appropriate, the year of death, their level of education and vocational training as well as their working status at the time the respondent was 15 years of age. Furthermore, the father's type of gainful employment was also asked. With respect to entering the workforce, information is available on the age of the surveyed person when he/she first started to work and the type of employment he/she had. When appropriate, the age at each job change was also asked.
- 1987 No biographical information was collected in this year.
- 1988 The complete collection of biographical questions was included in the blue Individual Questionnaire for first time participants. For those persons who were new additions to the SOEP since 1985 and who had missed portions or all of the biographical questions, this missing information was collected in 1988. For this reason, it is only since 1988 that complete biographical information has been available on all three biographical areas for all persons surveyed up to this point (as long as they were still included in the SOEP population). Young adults up to age 17 were excluded from this retrospective collection of biographical information due to reasons of content (it did not make sense to collect the biographical information here). However, some technical problems arose when determining the exact minimum cut-off age of the persons included in this retrospective survey.
- 1989 to 90 During this time period, the form of the survey on biographical data from 1988 remained unchanged.
- 1990 The SOEP random sample was expanded. For the first time individuals and households in East Germany (sample C) were surveyed. However, biographical data for sample C were collected later on.
- Since 1991 New respondents of sample A (West Germany) and B (Foreigners / 'Guest Workers') answered the biographical questions in an independent Biography Questionnaire.
- 1992 Due to the differing occupational titles, educational degrees, and biographies between East and West Germany, an additional biography questionnaire was

developed for sample C (East Germany) which was first used in 1992 in order to cover all respondents in this sample. This additional questionnaire is identical with the western version in its structure and the format of its questions, with just a few answer categories being modified and speech delimitations were effected (for example, on occupational position or the description of the successfully completed apprenticeship). This extensive group of questions was also applied to everyone who had been a new addition to the survey in East Germany since 1993.

- 1994 An updated version of the biography questionnaire version called 'Lebenslauf' ('life history') was introduced for all the four samples A, B, C, and D1/D2.³ The formats of some of the questions were slightly changed, and new questions were added, although some questions were included for only one of the samples (i.e. questions relevant to immigration were only directed towards sample D).
- 1996 The Biography Questionnaire 'Lebenslauf' ('life history') was fully integrated for all samples, for example, using appropriate filter questions the immigration relevant information was also asked from persons in samples A to C in an identical form.
- 1998 Introduction of the supplementary sample E.
- 1999 The 1996 form of the Biography Questionnaire 'Lebenslauf' ('life history') was given to members of sample E for the first time.
- 2000 The 1996 version of the Biography Questionnaire 'Lebenslauf' ('life history') was changed slightly. For example, information on having own children is collected for men as well, as is the information on the respondent's mother's occupation at the time that the respondent was 15 years old.

A preliminary-version of the Youth Questionnaire was designed and given to 17 year old youths (only samples A to E). Data on social background were collected from young adults with single or no parents in the household.

In the year 2000, a new supplementary sample F with over 6000 surveyed households was established.

- 2001 The Biography Questionnaire 'Lebenslauf' ('life history') was further expanded and now also includes more questions on school, i.e. marks, and activities during childhood.

³ (A) 'West Germany', (B) 'Guest Workers / Foreigners', (C) 'East Germany', (D1/D2) 'Immigrants since 1984', persons from D2 were first surveyed in 1995.

Biographical data are collected for the first time for all persons belonging to sample F using this updated Biography Questionnaire.

The revised Youth Questionnaire, the standard version for the forthcoming years, is used in the field for all 17 year old teenagers in addition to the Individual Questionnaire.

2002 A new sample G is drawn, which is only targeted at high-income households, i.e. households with a monthly net household income of more than 7,500 DM (\approx 3,850 €). This sample was also asked retrospective information on inheritances, which was collected in 2001 for samples A through F.

2003 Persons from sample G answered the Biography Questionnaire for the ‘first’ time.

The new questionnaire ‘Mother and Child’ was given to mothers of newborns (all samples).

2004 The Biography Questionnaire was slightly expanded with questions concerning the ‘numbers of brothers and sisters’ and the ‘location a person lived at before reunification (East Germany, West Germany, abroad)’. The question on siblings is also asked in the Youth Questionnaire.

2005 The new questionnaire ‘Mother and Child II’ (“Infants”) targeted at children aged 2 to 3 years was implemented (for all samples).

2006 Introduction of the supplementary sample H with valid interview information for about 2.600 individuals. As a standard procedure, these new respondents do not fill in the biography questionnaire in order to reduce response burden in wave 1.

Starting in 2006, the age for first-time respondents has been changed to be the calendar year in which the person turns 18 years of age. Those aged 17 in 2006 are asked to fill in the extended “Youth Questionnaire” (data is stored in the file \$PAGE17) instead of the “Individual Questionnaire” (data stored in \$P). These extended questions cover indicators on subjective well-being, health (including body measures), labor force participation and education.

2007 Members of Sample H have answered the biographical background questionnaire for the very first time.

2008 The new questionnaire ‘Mother and Child III’ (“Pre-School”) targeted at children aged 5 to 6 years was implemented for the first time (for all samples).

2009 Introduction of the new subsample I with valid interview data on about 2.500 adults. As a standard procedure, these new respondents do not fill in the biography questionnaire in order to reduce response burden in wave 1.

2010 Members of Sample I have answered the biographical background questionnaire for the very first time. The new questionnaire 'Parents I' targeted at children aged 7 to 8 years was implemented for the first time.

Looking ahead: Members of the new subsample J (2011) are asked to fill in an integrated version of the individual questionnaire and the biographical background questionnaire. It is planned to implement a questionnaire for 9/10-year-olds in 2012.

A series of problems may emerge when combining biographical information and storing data collections spanning multiple waves. This is due to the fact that the biographical information over time both within and between the sub-samples of SOEP is not always consistent with regards to

- *Positioning* (this includes differences among the various surveying instruments, i.e. the Individual Questionnaire and the single Biography Questionnaire 'Lebenslauf' ('life history'), as well as differences in the position of several indicators in the various versions of the questionnaires),
- *Coverage* (this includes both the changes in the targeted population and the partitions of the survey asked of each person and the corresponding indicators used), and
- *Timing* (this refers to the point in time when the biographical information was collected for a person in relation to the very first survey).

The biography data sets can always be divided into time invariant (e.g. first year of immigration to Germany, first job, place a person grew up) and time dependent (e.g. marital status, number of children, occupational biography) variables. Whereas time invariant information is by definition valid at every point in time after it has been collected, the time dependent information originally collected needs to be updated whenever a change has occurred. Alternatively, the information that is still valid must be included over the entire analysis period under investigation. In other words, since for the most part identical biographical information for different individuals is collected in SOEP at various points in time, all information regarding an eventual status change or an expansion of the original information must be accounted for over the entire time period of the analysis.

A yearly update of the biographical data therefore involves the following tasks:

- *Time dependent* information must be
 - collected for persons answering the survey questions for the first time and
 - carried forward or changed for persons repeating the SOEP interview.
- *Time invariant* information must be integrated into existing data sets for persons answering the survey questions for the first time.

The goal is for all biography relevant information provided to be up-to-date, without any loss of information with respect to the original variables, and in a user friendly form within the framework of the yearly data set updates. The time dependent variables will correspond then to the status of the most recently realized personal interview. The individual steps of the complex revision of the data sets are described in the corresponding documentation.

Additional Information:

- Unless otherwise indicated, the symbol '\$' in a variable name or a file name stands for a wave specific prefix or suffix: for example, the variable \$KMUTTI from the file \$KIND indicates the vector of the variables AKMUTTI, ..., ZKMUTTI up to BAKMUTTI from the file AKIND, ..., ZKIND to BAKIND. '\$\$' indicates the survey year (2 digits) and is used as a suffix: for example, NATION\$\$ stands for NATION84 to NATION10 from the files APGEN to BAPGEN.⁴
- The file BIOLELA is mentioned frequently within the framework of the following documentation of the individual steps needed for generating biographical variables. This file is not a component of the standard updates of the SOEP data sets, but encompasses all of the biographical entries collected until 1996 (in the Individual Questionnaire and the Biographical Questionnaire) from the SOEP respondents. This file is rather complex due to the differences in the surveying procedures mentioned above and is therefore one central input for nearly all of the following variables on individuals who entered the survey prior to 1996. However, BIOLELA does not contain information necessary for updates (e.g. giving birth after having answered the Biographical Questionnaire). Furthermore, identical information is distributed over a multitude of single variables. The information in BIOLELA is only suitable for very restricted analyses without additional tests and supplements. Beginning with 1997, there are wave-specific \$LELA files containing the biography

⁴ The SOEP data set released in 2011 (SOEP V27) will include, for the first time in the survey's 27 years, a two-letter rather than a single-letter wave prefix. Since we came to the end of the Latin alphabet with the letter Z in data release V26, we decided to use the wave prefix BA for the cross-sectional data format.

information as collected in the respective year. These files (i.e. BIOLELA and \$LELA) can be made available on request to interested users of the SOEP data.

The following table displays in a general overview the full set of biographical information as surveyed in the Biography Questionnaire ‘Lebenslauf’ (‘life history’) in 2006 and the current version (September 2011) of the user-friendly edition of this information. The designated numbers in the Biography Questionnaire ‘Lebenslauf’ (‘life history’) refer to the 2006 version with all samples fully integrated; due to the multitude of differences in the data collection process (as mentioned above), this does not imply that all of the following named variables were collected from all respondents nor that all information is available accordingly in the final biographical files.

Table 1: Biographical data in SOEP

Biography Sub-area	Number of Question in the 'Lebenslauf' Questionnaire (2006)	Comparable Questions in the Youth Questionnaire (2006)	SOEP Target Population	Files in the SOEP Database	Analysis Unit	Update Requirements (Source File for Update)	Status: Available / Not Available (up to Wave BA)
Place of birth	2, 3	61, 62	All persons surveyed	PPFAD	Individual	No	Available
Year of immigration	4	63	For persons not born in Germany	PPFAD	Individual	No	Available
Immigration biography	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 15a	64, 65, 66, 67, 68, 69, 70, 71	For persons not born in Germany	BIOIMMIG	Individual	No	Available
Living in East or West Germany in 1989	16	-	All persons surveyed	PPFAD	Individual	No	Available
Place of childhood; Life at childhood residence; grew up with parents, Living together with parents	17, 17a, 19, 20	72, 73, 75, 76	All persons surveyed	BIOPAREN	Individual	No	Available
Number of brothers and sisters	18	74	All persons surveyed		Individual	Yes	Not available
Parents living region, year of birth, year of death, nationality, country of birth	21, 22, 23, 23a	77, 78, 79	All persons surveyed	BIOPAREN	Individual	Partly (year of death from PPFAD)	Available

Biography Sub-area	Number of Question in the 'Lebenslauf' Questionnaire (2006)	Comparable Questions in the Youth Questionnaire (2006)	SOEP Target Population	Files in the SOEP Database	Analysis Unit	Update Requirements (Source File for Update)	Status: Available / Not Available (up to Wave BA)
Religious affiliation of parents	28	85	All persons surveyed	BIOPAREN	Individual	No	Available
Parents took care about efforts at school	29	41	All persons surveyed	BIOSOC	Individual	No	Available
Respondent's last school marks	30	37	All persons surveyed	BIOSOC	Individual	No	Available
Relationship to parents during youth	31	13	All persons surveyed	BIOSOC	Individual	No	Available
Sport and activities during youth	32, 33, 34, 35	16, 21,22, 25	All persons surveyed	BIOSOC	Individual	No	Available
Occupational biography	36	-	All persons surveyed	PBIOSPE	Spell	Yes (\$P, \$PKAL)	Available
Year and place of acquiring a school degree	37, 38, 41	27	All persons surveyed	BIOSOC	Individual	No (although possible using \$P)	Available
Level of school degree	39, 40, 42	28	All persons surveyed	\$PGEN	Individual	Yes (\$P)	Available
Number of foreign classmates in last attended school class	43	45	All persons surveyed	BIOSOC	Individual	No	Available
Target school degree	44, 45	29, 30	All persons surveyed	BIOSOC	Individual	No	Available

Biography Sub-area	Number of Question in the 'Lebenslauf' Questionnaire (2006)	Comparable Questions in the Youth Questionnaire (2006)	SOEP Target Population	Files in the SOEP Database	Analysis Unit	Update Requirements (Source File for Update)	Status: Available / Not Available (up to Wave BA)

Target vocational degree	53, 54	48, 49	All persons surveyed	BIOSOC	Individual	No	Available
First job (age, occupational position, public sector, industry)	55, 56, 57, 58, 59, 60a, 60b	-	All persons surveyed	BIOJOB	Individual	Yes, if person previously did not work (\$P)	Available
Occupational changes	61	-	All persons surveyed	BIOJOB	Individual	Yes	Available
Last job (year, scope, public sector branch, occupational position)	62, 63, 64, 65, 66, 67	-	All persons surveyed	BIOJOB	Individual	Yes	
Year since living personally in current apartment; second residence	68, 69	-	All persons surveyed	BIORESID	Individual	No	Available
Births	70	-	All women surveyed; since 2000 men, too	BIOBIRTH BIOBRTHM	Individual	Yes (\$P, \$PBRUTTO, \$KIND)	Available

Family status (marriage biography)	71, 72	-	All persons surveyed	BIOMARSY	Spell	Yes (\$P, \$PBRUTTO)	Available
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Biography Sub-area	Number of Question in the 'Lebenslauf' Questionnaire (2006)	Comparable Questions in the Youth Questionnaire (2006)	SOEP Target Population	Files in the SOEP Database	Analysis Unit	Update Requirements (Source File for Update)	Status: Available / Not Available (up to Wave BA)
Youth	Youth Questionnaire		16 and 17 year old respondents	BIOAGE17	Individual	No	Available
Newborns	Mother & Child Questionnaire		Mothers of newborns	BIOAGE01	Individual	No	Available
Infants	Questionnaire on children aged 2 to 3 years		Mothers	BIOAGE03	Individual	No	Available
Preschooler	Questionnaire on children aged 5 to 6 years		Mothers	BIOAGE06	Individual	No	Available
Elementary school	Questionnaire on children between the age of seven and eight		Parents	BIOAGE08A BIOAGE08B	Individual	No	Available
Educational history			All persons surveyed	BIOEDU	Individual	Yes	As beta release available

2 Biographical Information in the Meta File PPFAD

by Joachim R. Frick, Olaf Groh-Samberg and Christian Schmitt

The file PPFAD includes, among other more survey related variables like responding status, some most important demographical information for each person who has ever participated in SOEP in at least one wave. These are, on the one hand, longitudinally checked data on sex (variable SEX) and the date of birth (year of birth in variable GEBJAHR in 4-digits and month of birth in variable GEBMONAT), and, on the other hand, generated demographic variables on the year of death (TODJAHR and TODINFO), on the migration background of an individual (MIGBACK and MIGINFO), on the year of the first immigration to Germany (IMMIYEAR), on the country of origin (GERMBORN and CORIGIN) as well as on the geographic area a person lived in prior to German unification (LOC1989). In the following section, the construction of these generated variables will be explained briefly.

2.1 Month of birth

From wave T onwards (2003) the data set PPFAD contains – in addition to the year of birth – the month of birth (GEBMONAT). This new variable is accompanied by the supporting variable GEBMOVAL which indicates the data source for the month of birth.

GEBMONAT and GEBMOVAL can take the following characteristics:

- GEBMONAT: Month of birth;
 1 (January) to 12 (December)
- GEBMOVAL: MONTH OF BIRTH - DATA-SOURCE
 1 Generated
 2 Info as stored in PPFAD
 3 Info derived from data set \$KIND
 4 Info derived from data set SP (own response)
 5 derived from data set \$LELA (own response)
 6 derived from BIOAGE01 (mother-child-questionnaire)
 (NEW with Wave W / Surveyyear 2006)
 7 derived from Youth Questionnaire (own response)
 (NEW with Wave Z / Surveyyear 2009)

The month of birth was asked in wave S individual questionnaire (SP). Furthermore, the month of birth was asked in the biography data set, starting with wave T (\$LELA, file not available with the SOEP data distribution). Additionally the month of birth is recorded for all children within the file \$KIND (starting with wave T). Since Wave W, information from the mother-child questionnaire, which is filled in by mothers of newborns, is being considered, while information from the Youth Questionnaire is considered since Wave Z. This procedure provides the relevant information for most of the current panel members. The information remains missing for persons who lack any of the above information, including temporary dropouts or people who exited in a previous wave. For some of those persons, the month of birth could be reconstructed. This reconstruction remains an approximation and might differ from the true month of birth in individual cases. The variable GEBMOVAL also displays an ordinal scaling of the level of reliability, where individual response on one's own date of birth is given preference over derived information.

2.2 Construction of variables

The month of birth is constructed in an hierarchical order from the files:

- Generated (basis: \$P, \$PBRUTTO, \$KIND)
- \$KIND
- SP
- \$LELA
- BIOAGE01 (starting with wave W, 2006)
- Youth Questionnaire (\$page17, starting with wave Z, 2009)

whereas the latter information overrides the former.

This means the generated information will only be utilized if no further, questionnaire based information for the month of birth is available.

The generated month of birth could only be constructed for people who were born while their parents were members of the SOEP. The information was derived from two sources:

- For newborn children the month of moving into the household was used as an approximation of the real month of birth (relevant file \$PBRUTTO).
- For parents who reported a birth in a certain month, a link to the child was established, assigning the month of birth to the child (relevant file \$P).

Several adjustments and tests of the generated data have been done which showed that – in the cases in which the generated data was also collected by SP, \$LELA or \$KIND – the data generation is almost always congruent with the collected data and therefore has proven to be reliable.

Frequency examples for the variables “month of birth” and “data source for month of birth” in the file PPFAD(Version 2009 / up to Wave Z)

GEBMONAT Month of Birth

	Frequency	Percent	Valid Percent	Cum. Percent
-3 not valid	1	,0	,0	,0
-1 no info	28472	43,0	43,0	43,0
1 January	3261	4,9	4,9	47,9
2 February	3135	4,7	4,7	52,7
3 March	3352	5,1	5,1	57,7
4 April	3154	4,8	4,8	62,5
5 May	3272	4,9	4,9	67,5
6 June	3050	4,6	4,6	72,1
7 July	3217	4,9	4,9	76,9
8 August	3130	4,7	4,7	81,7
9 September	3208	4,8	4,8	86,5
10 October	3135	4,7	4,7	91,2
11 November	2836	4,3	4,3	95,5
12 December	2966	4,5	4,5	100,0
Total	66189	100,0	100,0	

GEBMOVAL Month of Birth – Data Source

	Frequency	Percent	Valid Percent	Cum. Percent
-3 not valid	1	,0	,0	,0
-1 no info	28472	43,0	43,0	43,0
1 Generated	1459	2,2	2,2	45,2
3 Parents response(\$KIND)	5894	8,9	8,9	54,1
4 Own response (SP)	21536	32,5	32,5	86,7
5 Own response (\$LELA)	6049	9,1	9,1	95,8
6 Mothers response (BIOAGE01)	1626	2,5	2,5	98,3
7 Own response (\$PAGE17)	1152	1,7	1,7	100,0
Total	66189	100,0	100,0	

2.3 Year of death

Variable TODJAHR Year of death - 4 digits -

The Variable TODJAHR contains the four digit year entered as the year of death.

Codes

\$\$\$\$ effective year entered for persons whose year of death could be determined

- (1) from the drop-out file PBR_EXIT⁵, that is, the outcome of the yearly field work
- (2) within the scope of the Infratest-Verbleibstudie (Study conducted by Infratest to follow-up on drop-outs) carried out in 1992
- (3) within the scope of the Infratest-Verbleibstudie (Study conducted by Infratest to follow-up on drop-outs) carried out in 2001
- (4) within the scope of the Infratest-Verbleibstudie (Study conducted by Infratest to follow-up on drop-outs) carried out in 2007
- (5) within the scope of the Infratest-Verbleibstudie (Study conducted by Infratest to follow-up on drop-outs) carried out in 2008

⁵ Help for old friends: The file PBR_EXIT includes all observations that exited from survey households since the previous wave for demographic reasons (death, emigration). Together with the file PBR_HHCH (covering observations who changed household from one wave to the next) these two files replace the file YPBRUTTO used in former releases of SOEP data.

Missing codes

- (-2) Persons currently living or no longer existing in the sample

Essentially, the deaths of SOEP respondents are reported in the course of the yearly household interview during which the status of the currently living members of the household, as well as the changes due to births and deaths since the last year are surveyed. Furthermore, within the framework of, up to now, three subsequent address investigations of SOEP drop-outs (“Infratest-Verbleibstudie”), demographical drop outs due to mortality or move abroad have been identified. The mortality information is used in generating the variable TODJAHR.

In the first “Verbleibstudie” conducted from April to June in 1992 a total of 53 persons could be identified as deceased. In incorporating this information into the variable TODJAHR attention was given to the fact that an exact year of death could be determined for only 35 of these persons. An exact date was missing for 16 persons, that is, only the qualitative information on their death was available. As a substitute for these cases, the year of the Wave in which the person dropped out of SOEP was used. For 2 persons implausible entries were corrected.

Within the scope of the second Infratest-“Verbleibstudie” conducted in 2001, over 700 persons were identified as deceased. Included in this number are multiple identifications, i.e., persons who were already determined to be deceased through the standard follow up process or in course of the first “Verbleibstudie 1992” mentioned above. This displays essentially a very high correspondence of results from the standard follow up and the ex-post determination of the time of death. For 10 persons the missing information on the year of death was imputed with the help of the year in which they dropped out of the SOEP sample.

In the few cases in which there were conflicting information between the first two follow-up studies and the information from PBR_EXIT (formerly YPBRUTTO), in principle the information from the “Verbleibstudie” was used.

In the third of those studies, another 21 individuals were identified as deceased between 2001 and 2005. For 18 of those persons a valid year of death could be investigated, the remaining three observations are set to the standard missing code “-1”.

Again, some of these deaths have also been registered in the most recent of those follow-up studies which was carried out in 2008. In this study a total of 982 individuals were identified as deceased some of which date back to the late 1980s.

Variable TODINFO Year of death – source of information

Codes

- 1 'from continued surveying (PBR_EXIT / YPBRUTTO)'
- 2 'Infratest-Verbleibstudie (Follow-up Study) 1992'
- 3 'Infratest-Verbleibstudie (Follow-up Study) 2001'
- 4 'Infratest-Verbleibstudie (Follow-up Study) 2007'
- 5 'Infratest-Verbleibstudie (Follow-up Study) 2008'

For all of the persons who could be identified as deceased, the variable TODINFO contains the corresponding source of information.

2.4 Immigration information

Variables MIGBACK and MIGINFO (Olaf Groh-Samberg, Florian R. Hertel, Ingrid Tucci)

The objective of the variable MIGBACK is to identify if an individual has a migration background according to the following characteristics: (1) being an immigrant, (2) having or having had a non-German citizenship, (3) having at least one parent who is either non-German or who was born outside Germany. Based on all persons who ever have been part of the SOEP (i.e., the population in the file PPFAD), MIGBACK consistently defines the migration background as either direct or indirect or, due to missing values on GERMBORN, as not further differentiable.

Please notice that in the first release of the MIGBACK variable in 2008 persons (the large majority of them have never been SOEP respondents) were assigned the value 4, but are now assigned “-1” due to the lack of direct information. As a consequence, the current distribution of the MIGBACK variable differs from time it was first available.

Variable MIGBACK

Individual Migration Background

Code	Label	Frequency	Percent
-1	No information available	4,236	6.3
1	No migration background	48,198	72.1
2	Direct migration background	7,946	11.9
3	Indirect migration background	5,284	7.9
4	Migration background, not differentiated	1,149	1.7
	Total	66,813	100,0

Sample I respondents answered the biography questionnaire for the first time in 2010 so that it was possible to assign them a migration background.

Besides the variable GERMBORN which indicates whether the person has a direct migration background (i.e. if he/she has immigrated) the time-variant information on nationality is important too. In order to build the indicator of the migration background, the first step consists in catching all available information on citizenship and citizenship change(s). Therefore the NATION\$\$ variables in the \$PGEN files and additionally the information on the acquisition of German citizenship (\$P files) were

used. Accordingly, people who answered that they acquired German citizenship after birth are recoded as having a migration background. In order to identify also the citizenship of children who have completed neither the personal nor the biography questionnaire, proxy information gathered from the head of the household in 1984 and 1988 (variables AK07A and EK03A) were used. Finally, by using the field agency's (TNS Infratest) proxy information on nationality, it is possible to determine if children or persons who are part of the SOEP gross sample ("Brutto") but never answered the person questionnaire or the biography questionnaire, have a migration background. But the personal information – whether proxy or direct – is not sufficient to know if a person has a migration background because the change of nationality for some persons might have occurred before they took part in the SOEP-survey and they might have never answered the question on the time of becoming German citizen.

In a second step information on mothers and fathers are used. In particular for those parents who were also SOEP-respondents we use the variable constructed accordingly to step one. Additionally the VNAT and MNAT (German/Foreigner) variables from BIOPAREN are used for those parents who were not SOEP-respondents. As respondents might have mixed parents, a respondent is given a migration background as soon as at least one of his or her parents is of migrant origin. Finally, the variable using information concerning the immigrant group (BIIMGRP) located in the BIOIMMIG file is also used as an additional indicator.

MIGINFO informs on the sources used to construct MIGBACK. There are four different possible codes indicating whether the information stemmed from direct response or proxy personal information and if parental information (nationality, country of birth, etc.) is available or not.

Variable MIGINFO

Source of Information to define Migration Background

Code	Label	Frequency	Percent
-1	No information available	4,235	6.3
1	Direct information without parental information	33,732	50.5
2	Proxy information without parental information	463	0.7
3	Direct information with parental information	17,451	26.1
4	Proxy information with parental information	10,932	16.4
	Total	66,813	100,0

The 10,932 persons coded 4 are mostly children whose information on the migration background are derived from parental information and interviewer report. A part of the population identified as “without a migration background” (MIGBACK coded 1) and for which we have no parental information (code 1 and 2 on MIGINFO) however might have a migration background. Unfortunately this cannot be tracked due to the lack of available data (parental information and information on nationality before the respondents entered the SOEP survey).

Variables IMMIYEAR, GERMBORN and CORIGIN (Joachim R. Frick)

The objective of these variables, based on all persons who ever have been a part of SOEP (i.e., the population from PPFAD), is to identify individuals who have immigrated to Germany from any other country since 1949 (the founding year of the Federal Republic of Germany). For this group of persons the variable IMMIYEAR specifies the calendar year (4 digits) in which the first immigration to territories of the Federal Republic of Germany occurred. Persons who had immigrated to Germany up until and including 1948 are included in the group of those identified as “born in Germany” (see variable GERMBORN). The variable CORIGIN specifies the country of origin.

The “Immigrant Sample” D classifies everybody who moved from abroad to West Germany as “immigrant”, including persons who came from the GDR (*‘Übersiedler’*). However, this latter group does not have an immigrant status as a result of the definition used here and as such, *Overview 1* may show a surprisingly low share of immigrants for Sample D. A specific problem regarding immigration to Germany arises from the group of persons who were born in Eastern Europe at a time when these regions were considered German territory and who later immigrated to the Federal Republic of Germany. For this group, according to the formulation of the corresponding SOEP questions regarding the country of origin, inconsistent answers can be expected. If at all possible, these persons are identified as immigrants in the variables described here (cumulative up to Wave R this affects merely 115 persons).

Overview 1 illustrates that across all SOEP sub-samples, persons have been identified as being immigrants. Therefore, an analysis on immigration questions clearly should *not* be limited to samples B and D. It is relevant to note that – almost by definition – the share of *non-immigrants* in Sample B (the “foreigner” sample which was started in 1984) increases permanently due to children born to these persons after their migration to Germany (“second-generation”). The large proportion of individuals with a “No Answer” Code in Sample G is mainly due to a change in the selection scheme for

the second Wave of the High Income Sample. Therefore biographical information is not available for sample G respondents which were not followed up in 2003.

Overview 1: Distribution of the Immigration Information According to SOEP Samples A to I (up to Wave BA, 2010)

GERMBORN	Sample									Total
	A	B	C	D	E	F	G	H	I	
No Answer (Codes -1/-3)	162	96	11	7	21	12	710	76	77	1,172
	1.2	1.8	0.2	0.5	0.9	0.1	22.7	2.7	2.9	2.3
Born in Germany or immigrated before 1949 (Code 1)	13,595	1,413	6,707	551	2,169	11,660	2,301	2,541	2,344	43,281
	95.8	26.3	98.5	35.6	90.8	88.8	73.5	90.0	87.07	83.1
Immigrated since 1949 (Code 2)	438	3,864	89	992	198	1,448	119	205	271	7,624
	3.1	71.9	1.3	64.0	8.3	11.1	3.8	7.3	10.1	14.6
Total	14,195	5,373	6,807	1,550	2,388	13,120	3,130	2,822	2,692	52,077
	100	100	100	100	100	100	100	100	100	100

Source: All survey participants with at least one SOEP interview from 1984 to 2010 (n=52,077).

The objective of generating immigration information in PPFAD is to fill the variables GERMBORN, CORIGIN and IMMIYEAR for all of the survey participants who have had at least one SOEP interview, as well as for the children in all households who have realized interviews; the informational base for permanent non-responders is not sufficient. The elements involved in generating the immigration information are those listed in the *Overview 2* taken from the wave specific individual questionnaire or from the course of the SOEP installed variations of the “Biography/Life history” questionnaires:

- \$P (wave-specific survey data from individual questionnaire),
- \$PAUSL (wave specific survey data collected only for sample B from the personal data questionnaire up until Wave M),
- \$PBRUTTO (wave specific information collected by the interviewer on all household members),
- BIOLELA (integrated biographical file for the years 1984 to 1995 = Wave A to Wave L)

- \$LELA (Curriculum vitae information for those interviewed for the first time since 1996 = wave M)
- \$JUGEND (youth questionnaire for 16-17 year olds since 2000, wave Q) and \$PAGE17 (extended youth questionnaire for first-time respondents since 2006, wave W).

Difficulties in generating the immigration information arise in part for those persons for whom none of the mentioned information was originally surveyed (for example, in the “*Lebenslauf-Fragebogen*” Biographical Questionnaire): This affects in particular sub-samples A and C and in most cases is caused by the fact that these persons did not take part in or no longer took part in the SOEP survey at the time that the survey with the immigration relevant questions was implemented (see Introduction). Questions regarding immigration were first asked of survey participants in sample A in 1990 and the Biographical Questionnaire was first included in the eastern sample C in the third wave (1992) out in the field. Moreover, Item-Non-Response is also significant, i.e., not answering a question. In order to minimize the number of missing entries for immigration relevant variables, for persons for whom corresponding information is missing, information from other variables or from the household context are used to the extent that these permit inferences on the immigration biography of the individual.

Overview 2: Input-Variables for Generating Immigration Information

Variable	File	Variable Label	Sample
AP62A	APAUSL	Country of birth	B
BP98A	BPAUSL	Country of birth	B
CP98AB	CPAUSL	Country of birth	B
DP95A	DPAUSL	Country of birth	B
EP88A	EPAUSL	Country of birth	B
FP105A	FPAUSL	Country of birth	B
GP105A	GPAUSL	Country of birth	B
HP105A	HPAUSL	Country of birth	B
IP105A	IPAUSL	Country of birth	B
JP105A	JPAUSL	Country of birth	B
AP63A	APAUSL	Year moved to Germany	B
BP99A01	BPAUSL	Year moved to Germany	B
CP99AB01	CPAUSL	Year moved to Germany	B
DP96A01	DPAUSL	Year moved to Germany	B
EP89A01	EPAUSL	Year moved to Germany	B
FP106A01	FPAUSL	Year moved to Germany	B
GP10801	GP	Year moved to East, West Germany (Filter)	A B
GP10802	GP	Year moved to East, West Germany	A B
GP10803	GP	Area of origin	A B
GP106A01	GPAUSL	Year moved to Germany	B
HP108B01	HP	Year moved to East, West Germany (Filter)	A B
HP108B02	HP	Year moved to East, West Germany	A B
HP108B03	HP	Area of origin	A B
HP106A01	HPAUSL	Year moved to Germany	B
IP10801	IP	Year moved to East/West Germany (Filter)	A B C
IP10802	IP	Year moved to East/West Germany	A B C
IP10803	IP	Area of origin	A B C
IP106A01	IPAUSL	Year immigrated to Germany	B
JP108B01	JP	Year moved to East/West Germany (Filter)	A B C
JP108B02	JP	Year moved to East/West Germany	A B C
JP108B03	JP	Area of origin	A B C
JP106A01	JPAUSL	Year immigrated to Germany	B
LPGRUPPE	LPBRUTTO	Immigration group	D
LPHERKFT	LPBRUTTO	Country born in	D
MP90A01	MP	German	A B C D
MP90A02	MP	Emigrant of German descent from Eastern Europe	A B C D
MP90A03	MP	Has already lived in Germany in 1984	A B C D
NP101	NP	Born in Germany	A B C D
NP102	NP	Has already lived in Germany in 1984	A B C D
OP103	NP	Born in Germany	A B C D E
OP104	NP	Has already lived in Germany in 1984	A B C D E
PP117	NP	Born in Germany	A B C D E
PP118	NP	Has already lived in Germany in 1984	A B C D E
QP12101	QP	Born in Germany?	A B C D E F
QP12102	QP	Country of birth	A B C D E F
QP122	QP	Has already lived in Germany in 1984	A B C D E F
QP124	QP	Born in Germany?	A B C D E F
RP11701	RP	Born in Germany?	A B C D E F
RP11702	RP	Other country of birth	A B C D E F
RP118	RP	Has already lived in Germany in 1984	A B C D E F
RP120	RP	Foreign citizenship: Born in Germany?	A B C D E F
SP120	SP	Foreign citizenship: Born in Germany?	A B C D E F G

Variable	File	Variable Label	Sample
TP121	TP	Place of residence before reunification 1989	A B C D E F G
TP126	TP	Foreign citizenship: Born in Germany?	A B C D E F G
UP130 ...	UP	Foreign citizenship: Born in Germany?	A B C D E F G
VP139 ...	VP	Foreign citizenship: Born in Germany?	A B C D E F G
WP131 ...	WP	Foreign citizenship: Born in Germany?	A B C D E F G
XP142 ...	XP	Foreign citizenship: Born in Germany?	A B C D E F G H
YP136 ...	YP	Foreign citizenship: Born in Germany?	A B C D E F G H
ZP141 ...	ZP	Foreign citizenship: Born in Germany?	A B C D E F G H I
BAP134	BAP	Foreign citizenship: Born in Germany?	A B C D E F G H I
P031Z	BIOLELA	Year of immigration to Germany	D
P051Z	BIOLELA	Year of immigration to Germany	D
P060Z	BIOLELA	Has always lived in Germany since immigration	D
P04Z	BIOLELA	Country of birth	D
P021Z	BIOLELA	Lived where in 1984?	D
B34	BIOLELA	Area of origin	A B C
B36	BIOLELA	Country of birth	A B C
B37	BIOLELA	Year of immigration to Federal Republic of Germany	A B C
\$B03	\$LELA	Country of birth	A B C D E F G H I
\$B02	\$LELA	Born in Germany?	A B C D E F G H I
\$B04	\$LELA	Year of immigration to Federal Republic of Germany	A B C D E F G H I
QJ54	QJUGEND	Born in Germany?	A B C D E
QJ55	QJUGEND	Country of birth	A B C D E
QJ56	QJUGEND	Year of immigration to Federal Republic of Germany	A B C D E
\$J61	\$JUGEND	Born in Germany?	A B C D E F G H I
\$J62	\$JUGEND	Country of birth	A B C D E F G H I
\$J63	\$JUGEND	Year of immigration to Federal Republic of Germany	A B C D E F G H I
ZZJAHR	Generated on the basis of the variables \$PZUG from the files \$PBRUTTO	Immigrations to Germany which were documented through the interview within the scope of the field work. This information is used only if no other valid information is available.	A B C D E F G H I

In the following sections, the PPFAD variables are described in detail; special attention is given to the central filtering function of the variable GERMBORN in reference to the variables IMMIYEAR and CORIGIN.

Variable GERMBORN Born in Germany?

Codes

- 1 Persons who were born in Germany (including immigrants before 1949)
- 2 Persons who have immigrated to Germany since 1949

Missing codes

- 2 For permanent non-respondents
- 1 Provided that no entry could be derived from all of the variables

The following persons have been identified as immigrants despite the fact that information is missing for the variables relevant to GERMBORN (The process follows the sequence stated here, i.e., if the first condition does not hold, then the second condition is tested and so on):

- 1.1 Persons from sample D for whom a foreign country as the country of origin is entered in the address protocol in the first survey wave (variable LPHERKFT). The variable CORIGIN is also given the respective value.
- 1.2 Persons with valid entries for the variable IMMIYEAR who over the course of their survey in SOEP have at least once indicated a non-German nationality. This nationality is alternatively used instead to generate the variable CORIGIN.
- 1.3 Persons whose mothers have immigrated after having given birth to this individual in case the mother's immigration occurred less than 18 years after the birth of the respective person. For CORIGIN and IMMIYEAR, in this case, information from the mother's immigration history is used, assuming that mother and child have always lived together.
- 1.4 For persons who have acquired an educational degree abroad, who at any time have indicated a non-German nationality and in whose households (given by HHNR) immigrants reside, CORIGIN is given the corresponding value of the nationality; as a rule IMMIYEAR remains "missing" ("-1").

On the other hand, for the following persons it is assumed that they were born in Germany:

- 2.1 Persons from sample D for whom in the first survey wave Germany as the country of origin is entered in the address protocol.
- 2.2 Persons whose mothers were born in Germany or had immigrated before giving birth.
- 2.3 Minor children who live in a household with no immigrants.
- 2.4 Persons from samples A, C, E, F, G and H who live in a household with no immigrants and who have never indicated a non-German nationality.

Furthermore, generating immigration variables proves to be difficult for persons who in the course of the survey years submit conflicting answers on whether or not they were born in Germany. The number of these inconsistencies has increased with the inclusion of the yearly repetition of the corresponding question in the individual data questionnaire (2000). In such cases, as a rule decisions can only be based on plausibility and in comparison with further answers. If, for example, concrete information on the country of origin or the immigration year exists, then it is assumed that the person is an immigrant. For such cases where the individual information given by the person itself is not strong enough to base a decision on, then additional information from the household context is applied. If no final decision on the basis of all available information can be made, then the person with an inconsistent answer is given the code for missing values; thereafter the affected person's data file is run through the generation process described above.

In assessing the cases with inconsistent answers it must be considered that the questions relevant for GERMBORN in the SOEP surveying instruments are based on different definitions of "Germany". The questions from 1990 to 1993 that related to the regions of the Federal Republic of Germany and the German Democratic Republic (DDR) since 1949, respectively have been switched in the Biographical Questionnaire since 1996 to "the Federal Republic of Germany (West Germany), the German Democratic Republic (East Germany) or Germany as defined at the time of your birth". From this, answers which appear to be in contrast to each other could emerge for persons who were born prior to 1949 in "formerly German regions" in Eastern Europe which today are no longer part of the Federal Republic. Persons belonging to this group are considered to be, in the manner described here, immigrants if they immigrated after 1949.

For persons who, according to GERMBORN, are not born in Germany, the variables IMMIYEAR and CORIGIN should designate the year of the initial immigration to Germany, respectively the country of origin.

Variable IMMIYEAR

Year of the initial immigration to Germany after 1948 (4 digits)

Codes

1949 ... 2009 Immigration year

Missing codes

- 3 for successfully surveyed persons without a valid entry for the immigration variables (GERMBORN could not be filled with a valid answer)
- 2 if born in Germany or immigrated before 1949, respectively and survey participants without an interview
- 1 Immigrants for whom no valid answer can be derived from all the original variables

Persons who have been identified as immigrants and for whom it was not possible to determine the immigration year from the original variables are assigned the following values:

1. The year of entry into SOEP, in the event that \$PZUG from the file \$PBRUTTO indicates the code “moved into household from abroad” (see the variable ZZJAHR in *Overview 2*)
2. The year of the mother’s immigration, in the event that the mother had immigrated prior to the year the person turned 18 years of age.

Variable CORIGIN Country of origin

Codes

- | | |
|----------|--|
| 1 | Germany |
| 2 to 155 | Turkey, (Ex-)Yugoslavia, Greece, Italy, Spain, Turkmenistan |
| 222 | unspecified Eastern Europe |
| 333 | other unspecified foreign country |
| 444 | unspecified countries within EU |

Missing codes

- 3 for successfully surveyed persons without a valid entry for the immigration variables (GERMBORN could not be filled with a valid answer).
- 2 all survey participants without an interview
- 1 Immigrants for whom no valid answer is derivable from all of the original variables

The variable CORIGIN represents the country of origin, respectively of birth. Every person born in (West and East) Germany is assigned code "1" for the variable CORIGIN (see also the variable GERMBORN). Starting with the January 2004 release of SOEP-data (including wave S (survey year 2002)), the information on the country of origin is also contained in the 95% Scientific-Use-Version, which had not been the case before (the same is true for the variables on nationality in \$PGEN).

Persons, who have been identified as immigrants and from whose original variables no country of origin could be determined, are assigned as a resource the following codes:

1. The code of the country which corresponds to their non-German nationality.
2. The code "222", in the event that it is evident from the original variables (code "2" in GP10803 to JP108B03) that the person in question immigrated from Eastern Europe, respectively from the former German territories in Eastern Europe. This also includes, under certain circumstances, a small number of persons from sample D if they were identified in P070Z as persons of German descent from Eastern Europe.
3. The code „333“, in the event that from the original variables (code "3" in GP10803 to JP108B03) it is evident that the person comes from a region other than Eastern Europe.
4. The country of origin given in the address protocol from sample D (variable LPHERKFT).
5. The mother's country of origin in the event that the mother has immigrated prior to the year the person turned 18 years of age.

People who immigrated from 'Croatia', 'Serbia', 'Slovenia', 'Bosnia Herzegovina', 'Macedonia' and 'Kosovo' before 1991 to Germany assigned to the corigin code 3 'Ex Yugoslavia' as 'Croatia', 'Serbia', 'Slovenia', 'Bosnia Herzegovina', 'Macedonia' and 'Kosovo' did not exist those days.

2.5 Living in East or West Germany in 1989

The variable LOC1989 in the meta-file PPFAD provides information about the geographic area a person lived in *prior to* the German reunification, differentiating “East Germany (DDR incl. East Berlin)”, “West Germany (Bundesrepublik Deutschland incl. West Berlin)”, and “abroad (Ausland)”. This information has been generated for all individuals in SOEP with at least one successful interview since 1984 as well as for children (i.e., \$NETTO >= 10 & < 30).

Variable LOC1989 “Where did you live in 1989?”

Codes

- 1 East Germany (German Democratic Republic [DDR] including East Berlin)
- 2 West Germany (Federal Republic of Germany [BRD] including West Berlin)
- 3 Abroad (Ausland)

Missing Codes

- 2 does not apply; born after 1989
- 1 not available

After asking this information from all respondents in 2003 (variable TP121 in file TP), a corresponding question has been included in the biography questionnaire since wave U (2004) [Question 16 / variable UB16 in file ULELA] which will collect this time-independent information from all future first time respondents. For all respondents interviewed up until 2006, the following information was used as input to generate LOC1989:

- Information on place and date of last school attendance [variables BSSCHEND and BSSCHWO in file BIOSOC / variables \$B38 and \$B3701 in file \$LELA with \$ starting in wave U, 2004],
- Sample affiliation [variable PSAMPLE in file PPFAD],
- year moved in at current address [variable BRMOVEIN in file BIORESID / variable \$B68 in file \$LELA with \$ starting in wave U, 2004],
- sample region [variables \$SAMPREG in file PPFAD],

- year of first immigration to Germany [variable IMMIYEAR in file PPFAD]
- In case of inconsistent information from these various sources, the data collected in 2003 via variable TP121 and the information from the biography questionnaire collected since 2004 is considered superior. Persons without any individual information and aged less than 18 years in 1989 were assigned parental information, if available.
- Since biographical information for members of sample I has been collected in survey year 2010 for the first time the variable LOC1989 is completed for SOEP samples A through I.

Where did you live in 1989?	Freq.	Percent	Cum.
n/a; t.n.z (GEBJAHR>=1990)	9,290	14.63	14.63
n/s; k.A.	6,509	10.25	24.88
GDR; DDR (including East Berlin)	10,820	17.04	41.91
FRG; BRD (including West Berlin)	34,886	54.93	96.85
Abroad; Ausland	2,003	3.15	100.00
Total	63,508	100.00	

Source: POPULATION of PPFAD as of wave BA (2010) with at least one interview since 1984 or living as child in a responding household (\$NETTO-codes >=10 and <30)

3 Activity Biography in the File PBIOSPE

by Henning Lohmann (based on earlier work by Rainer Pischner)

The spell file PBIOSPE is based on the information on activity status over the life course, which are collected as a matrix from every respondent using the Biography Questionnaire (Question 36 in 2010).⁶ The observations start at the age of 15 and end at the current age (up to age 65). This information on activity status covers only the period up to the time the biography is collected. To update the ongoing occupational career in PBIOSPE, information from the yearly Individual Questionnaire is also used. In this questionnaire, respondents are always asked their occupational status for every month of the previous year (Question 81 in 2010).⁷ Therefore, the information collected on a monthly basis and stored in the file ARTKALEN is aggregated into yearly values and combined with the information gathered from the Biography Questionnaire.³

In the following, the method of combining the data is described. There have been no changes how the data is generated since the previous version, distributed in 2010. But if you have been working with older versions of the dataset (versions distributed in 2008 and earlier) you should check the section at the end of the chapter, where you will find information on previous changes. But before we move on to the details, we provide a brief overview of the contents of PBIOSPE. Table 1 contains a list of all the variables in the dataset. The variables BEGIN and END indicate the beginning and the end of a spell. These variables are age entries. There are also variables that refer to calendar years: BEGINY and ENDY (Y stands for Year). The variable SPELLTYP contains information on the activity status during the spell, e.g., employed full-time or unemployed. The SPELLNR is a serial identifier of spells of a given person. Missing information on the beginning or end of a spell causes what are known as censoring problems. There are two types of missing data. First, data can be missing on periods outside the observation window (before the age of 15 and after the age of 65). Second, data can be missing on years within the observation window due to item non-response in particular years or due to temporary drop-outs (the latter applies to calendar information only). In this case, we speak of “gaps.” There are nine different patterns (variable ZENSOR):

⁶ See Chapter 1 for general information on the collection of biography information.

⁷ For persons who were temporarily unavailable for interviewing, it is sometimes possible to fill in the gaps in their occupational status. If these persons fill out the additional questionnaire for temporary drop-outs later on, we can use the information collected there (see files \$PLUECKE).

³ For more information, see Haisken-DeNew, John and Joachim R. Frick (2005): *DTC - Desktop Companion to the German Socio-Economic Panel Study (SOEP)*, Chapter 3.

1. uncensored: beginning observed, end observed
2. right-censored: beginning observed, end not observed
3. right-censored (gap): beginning observed, end not observed because of gap
4. left-censored: beginning not observed, end observed
5. left- and right-censored: beginning not observed, end not observed
6. left-censored and right-censored (gap): beginning not observed, end not observed because of gap
7. left-censored (gap): beginning not observed because of gap, end observed
8. left-censored (gap) and right-censored: beginning not observed because of gap, end not observed
9. left-censored (gap) and right-censored (gap): beginning not observed because of gap, end not observed because of gap

Table 1: Contents of PBIOSPE (variables)

Variable	Description
HHNR	Original Household Number
PERSNR	Never Changing Person ID
SPELLNR	Serial Number Of The Spell Per Person
SPELLTYP	Type Of Spell
BEGIN	Age Spell Begins
END	Age Spell Ends
BEGINY	Year Spell Begins
ENDY	Year Spell Ends
ZENSOR	Censor Variable
SPELLINF	Spell Construction Information
ERHEBJ	Survey Year Biography Data
KALYEAR	First Observation Year Calendar
BEGINB1	Age Spell Begins, 1st Initial Biography Spell
ENDB1	Age Spell Ends, 1st Initial Biography Spell
BEGINK1	Age Spell Begins, 1st Initial Calendar Spell
ENDK1	Age Spell Ends, 1st Initial Calendar Spell
BEGINYB1	Year Spell Begins, 1st Initial Biography Spell
ENDYB1	Year Spell Ends, 1st Initial Biography Spell
BEGINYK1	Year Spell Begins, 1st Initial Calendar Spell
ENDYK1	Year Spell Ends, 1st Initial Calendar Spell
BEGINB2	Age Spell Begins, 2nd Initial Biography Spell
ENDB2	Age Spell Ends, 2nd Initial Biography Spell
BEGINK2	Age Spell Begins, 2nd Initial Calendar Spell
ENDK2	Age Spell Ends, 2nd Initial Calendar Spell
BEGINYB2	Year Spell Begins, 2nd Initial Biography Spell
ENDYB2	Year Spell Ends, 2nd Initial Biography Spell
BEGINYK2	Year Spell Begins, 2nd Initial Calendar Spell
ENDYK2	Year Spell Ends, 2nd Initial Calendar Spell
BEGINB3	Age Spell Begins, 3rd Initial Biography Spell
ENDB3	Age Spell Ends, 3rd Initial Biography Spell
BEGINK3	Age Spell Begins, 3rd Initial Calendar Spell
ENDK3	Age Spell Ends, 3rd Initial Calendar Spell
BEGINYB3	Year Spell Begins, 3rd Initial Biography Spell
ENDYB3	Year Spell Ends, 3rd Initial Biography Spell
BEGINYK3	Year Spell Begins, 3rd Initial Calendar Spell
ENDYK3	Year Spell Ends, 3rd Initial Calendar Spell
BEGINK4	Year Spell Begins, 4th Initial Biography Spell
ENDK4	Year Spell Ends, 4th Initial Biography Spell
BEGINYK4	Year Spell Begins, 4th Initial Calendar Spell
ENDYK4	Year Spell Ends, 4th Initial Calendar Spell

As mentioned above, PBIOSPE combines information collected in the biography questionnaire and the calendar matrix of the individual questionnaire. The two types of information are merged into PBIOSPE following a number of rules. First of all, it is important to acknowledge that the Biography Questionnaire Matrix as well as the Individual Questionnaire Matrix allow for multiple activity statuses for a given year or month. No concept of main activity is used. A common combination is, for instance, “housewife/-husband” and “working part-time”. There are a number of other plausible combinations, but also combinations that are less plausible. However, a list of valid

combinations of activity statuses defined according to legal or similar constructs would need to be based on very strong assumptions. In addition—in particular in case of the yearly matrix in the Biography Questionnaire—activities are reported that took place in a calendar year in consecutive months, which makes it impossible to exclude combinations of activities. Therefore, no data cleaning is performed at this stage. As a consequence, the data may contain information on more than one activity for a given point in time.

This also defines the rules for aggregating the monthly ARTKALEN data into yearly values. Take, for example, a person who was in full-time employment from January to November 2007, and unemployed in December 2007. The exact months are recorded in the dataset ARTKALEN. In the aggregated data, which is merged with the yearly data from the Biography Questionnaire, you find the information that the person worked full-time and was also unemployed in the year 2007. There is a second level of aggregation of ARTKALEN information as the data on type of activity, which is recorded in the variable SPELLTYP is more detailed than in PBIOSPE. The respective information is aggregated as described in Table 2.

Table 2: Aggregation of ARTKALEN spell information into PBIOSPE

	PBIOSPE	ARTKALEN
1	School/University	School, College (1)
2	Apprenticeship/Training	Vocational Training (4), First Job Training, Apprenticeship (13), Continuing Education, Retraining (14)
3	Military/Civilian service	Military, Community Service (9)
4	Full-time employed	Full-Time Employment (1), Short Work Hrs (2)
5	Part-time employed	Part-Time Employment (3), Second Job (11), Mini-job (up to 400 euros) (15)
6	Unemployed	Unemployed (5)
7	House-Husband/Wife	Housewife, Husband (10)
8	Retired	Retired (6)
9	Other	Maternity Leave (7), Other (12)
99	Gap	Information on gaps in ARTKALEN is not used. Gaps are calculated on the basis of the merged dataset.

As stated above, the calendar information is used to update the biography information. However, there is also a certain overlap of the periods covered by the two types of data. This is shown in Table 3. It indicates, for persons included in PBIOSPE, the year in which the biography information was collected (variable ERHEBJ). This year is usually also the last year for which biography information is available.⁸ The table also shows the first year recorded in the calendar data (variable KALYEAR).

Table 3: Overlap between biography and calendar information

First observation in ARTKALEN (compared to erhebj*)						
erhebj*	same year	earlier				Total n
	or later	1 year	2 years	3 years	4+years	
	%	%	%	%	%	
1984	0.1	100.0	0.0	0.0	0.0	11,001
1987	0.0	36.4	33.5	30.1	0.0	505
1988	0.0	100.0	0.0	0.0	0.0	164
1989	0.5	99.5	0.0	0.0	0.0	193
1990	0.0	100.0	0.0	0.0	0.0	180
1991	0.0	100.0	0.0	0.0	0.0	157
1992	0.0	8.4	3.6	88.0	0.0	3,930
1993	0.0	76.6	0.3	2.3	20.7	304
1994	0.2	98.3	0.3	0.2	1.0	918
1995	0.2	99.1	0.0	0.1	0.6	1,037
1996	0.2	97.9	0.0	0.0	1.9	480
1997	0.0	98.5	0.0	0.0	1.5	478
1998	0.7	98.1	0.0	0.2	1.0	415
1999	0.1	26.6	72.8	0.0	0.5	1,821
2000	0.0	90.2	0.9	7.7	1.3	235
2001	0.0	6.3	93.6	0.0	0.0	7,529
2002	0.2	48.1	0.4	39.0	12.4	526
2003	0.1	16.9	81.3	0.1	1.6	2,193
2004	0.0	68.8	4.2	20.1	6.9	432
2005	0.0	89.0	3.4	0.7	6.9	292
2006	0.0	92.2	4.2	0.0	3.7	217
2007	0.0	16.2	83.4	0.1	0.3	1,858
2008	0.0	68.9	2.9	26.9	1.3	309
2009	0.0	89.5	2.1	0.5	7.9	190
2010	0.0	20.6	79.3	0.1	0.1	1,553
2011	0.0	0.0	21.4	78.6	0.0	112
Total	0.1	52.0	36.0	11.1	0.8	37,029

Notes: *) Year of biography data collection (variable erhebj).

Source: SOEP v27 (PBIOSPE).

⁸ Please note that some biographies were collected in 2011 although they are part of Wave 27. This results from the fact that some members of Sample I were interviewed in early 2011 instead of 2010.

In the majority of cases (52.0 percent), the earliest calendar information is available for the year before the biography interview. This is the case for persons who answered the Biography Questionnaire in their first year as survey respondents. The calendar in the Individual Questionnaire refers to the year before the survey. There are, however, changes over time. In 1998, it was decided that first-time respondents from new samples would not be given the Biography Questionnaire in the first wave but in the second in order to reduce the entry threshold for these new respondents. Consequently, for the majority of persons in years after new samples were integrated (1999, 2001, 2003, 2007, 2010/11 – Samples E to I), the earliest calendar information is available two years before the biography information was collected. However, first-time respondents who are members of an old sample (e.g., persons who moved into a panel household) still answer the Biography Questionnaire at the time of their first interview. The pattern is quite stable for most years before 1999. A notable exception is the year 1992. This is explained by the integration of East Germany into the SOEP in 1990 (Sample C). The majority of the respondents in this sample answered the Biography Questionnaire in 1992 (and some in 1993). Another exception is the year 1987. In the years 1985 to 1987, the life course matrix was not part of any of the questionnaires. Therefore the respective biography information was only available for persons who were interviewed in 1984. In 1988, biographic information was also collected for persons who became respondents in 1985, 1986, and 1987 (for all years ERHEBJ=1987). While there are only very few cases where the calendar information starts in the same year as the Biography Questionnaire or later (0.1 percent = 21 cases), there are some more cases (0.8 percent = 298 cases) where the biography information was collected a long time after the person started to respond to the Individual Questionnaire (up to 20 years). These are respondents who failed to answer to the Biography Questionnaire at a given time and therefore the biography information was collected later. In these—albeit very rare—cases, there is substantial overlap between the periods covered by the calendar and biography information.

Table 4: Sources of PBIOSPE spells

	n	%	% cum.
biography only	120,165	46.1	46.1
calendar only	97,153	37.2	83.3
1 biography, 1 calendar spell	42,352	16.2	99.5
2+ biography, 1 calendar spell(s)	379	0.2	99.7
1 biography, 2+ calendar spell(s)	789	0.3	100.0
2 biography, 2+ calendar spell(s)	22	0.0	100.0
Total	260,860	100.0	

Source: SOEP v27 (PBIOSPE).

After merging the information from the Biography Questionnaire and ARTKALEN, the data is transformed into spells, whereby each spell is defined by the duration of a given status. A question that arises when merging the data is how to handle overlapping pieces of information. The basic principle is to assign a value of a given status in a given year if the status is recorded in the calendar or in the biography information or both. An example might help to illustrate this: the calendar records full-time employment for the years 2005 and 2007 while the biography records full-time employment for the period from 2000 up to 2006. The merged data from PBIOSPE contains a spell that begins in 2000 and ends in 2007. However, the initial information is restored by including additional variables, which allows for alternative ways of merging the data (see below). The variables SPELLINF, ERHEBJ, and KALYEAR contain general information on the sources of the information captured in a given spell. Table 4 shows that the majority of spells are based on biography information only (46.1 percent). Slightly more than one-third of all spells (37.2 percent) are not observed in the Biography Questionnaire but only in the calendar data. The remainder of spells contain information from biography as well as calendar data. Usually these spells combine one period observed in the Biography Questionnaire with a period observed in the calendar. Only 0.5 percent of the spells combine more than one period in any of the two sources (SPELLINF=4, 5 or 6).

The variables BEGINB1-ENDYK4 document the initial information from the two different sources and are probably not of interest to the majority of users. However, on the basis of these variables, users are able to fully separate the Biography data from the aggregated ARTKALEN data. This is advisable if you want to use the more detailed ARTKALEN information and combine it with the yearly information from PBIOSPE for earlier years only. The variable names indicate the “source” of the original information utilized (B: Biography -Questionnaire or K: calendar information from the yearly survey). As an example, we discuss one of the spells that combines information on more than one period from any of the two sources. The spell number 4 of person 9205 starts in 1983 and ends in 1994 (SPELLTYP=4: full-time employment). As the variable SPELLINF (=5) shows, this a spell that combines one period from the biography data with two periods from the calendar data. According to the biography data, the person worked full-time from 1983 (BEGINYB1) until 1992 (ENDYB1). There is overlapping information from the calendar data available from 1986 onwards (KALYEAR). According to these data, the person worked full-time from 1986 (BEGINYK1) to 1990 (ENDYK1) and from 1993 (BEGINYK2) to 1994 (ENDYK2). During the years 1991 and 1992, no full-time employment is recorded in the calendar data, which contradicts the information from the biography data.

Table 5: Example of combined spell

persnr	spellnr	spelltyp	beginy	endy	spellinf	erhebj	kalyear	beginyb1	endyb1	beginyk1	endyk1	beginyk2	endyk2
9205	4	4	1983	1994	5	1998	1986	1983	1992	1986	1990	1993	1994

Source: SOEP v27 (PBIOSPE).

In PBIOSPE, no attempt is made to “resolve” such contradictions, as this would require rather strong assumptions. More important, such assumptions would differ according to the research question, which makes it even more difficult to provide a standard solution. Therefore, in such cases, we generate spells in the same manner as in less difficult cases, namely by combining the information from the calendar and the biography data. In the given example, this results in a full-time employment spell that starts in 1983 and ends in 1994. As mentioned above, there are very few spells that combine information on two or more periods (SPELLINF=4, 5, 6, less than 0.5 percent of all spells). There are even fewer such spells where the period of overlap is as long as in this example, where the biography data was collected many years after the persons joined the survey (ERHEBJ=1998, KALYEAR=1986). However, users who are interested in combining biography and calendar data in a different manner can use the variables BEGINB1-ENDYK4 to fully separate the two types of data and to recombine the data on the basis of different rules of aggregation.

Changes in the previous version of PBIOSPE (release 2009):

The description in this chapter refers to the version of PBIOSPE released in 2011 (waves 1-27). There have been no changes how the data is generated since the previous version, distributed in 2009. But users who are only familiar with older versions of PBIOSPE (releases 2008 and earlier) will observe some differences. In 2009, the data generation has been updated completely, but without changing the basic principles. Therefore, there are only a few barely discernible deviations in the main variables (due to slight changes in the consistency checks of the data). But there are a number of visible changes in the form of additional variables or additional values in already existing variables:

- documentation of censoring:
 - o gaps in the data are recorded as spells (SPELLTYP=99)
 - o the variable ZENSOR is more detailed and informs about the type of censoring (end of observation window, gap due to missing data)
- documentation of set-up of single spells:

- new variable KALYEAR: contains the first year for which calendar information is available
 - new variables BEGINB1-3, ENDB1-3, BEGINYB1-3, ENDYB1-3, BEGINK1-4, ENDK1-4, BEGINYK1-4, ENDYK1-4 (these variables replace BEGINBIO, ENDBIO, BEGINYB, ENDYB, BEGINKAL, ENDKAL, BEGINYK, ENDYK): Like the replaced variables, these variables document the original calendar and biography data. The new variables have been added to have a full documentation also for spells in which three or more initial spells are merged (spells with SPELLINF \geq 4). For the large majority of spells (SPELLINF \leq 3) only the first of each set of variables is filled. The new variables can be used to separate biography and calendar data, e.g., if you want to combine on your own biography data with data from ARTKALEN.
 - additional value in variable SPELLINF: the value 6 indicates that a spell has been constructed out of 2 or more biography and 2 or more calendar spells
- additional changes:
- variable ERHEBJ: value -2 if no biography information for a person is available (old version: value 0)
 - The variable FEHLCODE is no longer provided, as its values appeared to be more confusing than helpful. It contained information on data problems in the biographies collected in 1984 only. Information on gaps and overlaps is now documented for all years but not in a single variable.

4 BIOJOB: Detailed Information on First and Last Job

by Tanja Schmidt

(Update waves X /Y/Z /BA(2007/2008/2009/2010) by Hansjoerg Haas, based on work of Anita Kottwitz, Daniel Wachtlin, Mathis Schroeder & Thorsten Schneider)

4.1 Overview

Biographical data in the SOEP stem from various sources. All information for the waves 1984 to 1995 is compiled in the BIOLELA-file of the SIR-SOEP-database. Since 1996 a standardised version for all samples has been provided, and new biographical data is stored in wave-specific files (\$LELA). To have a general phrasing, all biographical files are referred to as LELA-files. (LELA stems from the German 'LEbensLAuf', curriculum vitae.)

The LELA-data relevant for BIOJOB consists of

- the age at entry into the working force
- the type of occupation at entry (blue/white collar worker, self-employed, civil servant)
- detailed occupational information at entry
- changes of occupation
- intended educational degree or vocational/professional training
- the year of the last employment
- the type of occupation in the last job.

Since 2000 a new questionnaire (in the following referred to as Youth Questionnaire) has been provided for respondents who are 16 or 17 years old. The youth respondents answer the Youth Questionnaire instead of the biographical one. The Youth Questionnaire provides less detailed information about the job biography because respondents usually have not entered the labour market at the age of 16 or 17.

In 2001 members of the F sample became part of the biojob population. They had to answer the biography questionnaire if their year of birth was prior to 1982. Members of the F sample with a birth year in the range from 1982 to 1984 answered the Youth Questionnaire.

Members of sample G (2002) answered the biography questionnaire in 2003, Persons who where born between 1986 and 1987 answered the Youth Questionnaire.

Members of sample H (2006) answered the biography questionnaire first time in 2007, those of sample I (2009) first time in 2010, and therefore are now part of the BIOJOB population.

Since 2006 respondents who are 16 or 17 years old filled in a youth questionnaire instead of the standard Individual Questionnaire, which provides less detailed information about the current job.

The purpose of BIOJOB is to provide a file, that offers the user convenient access to biographical information on past job activities. Up to now all but two variables of BIOJOB are time-invariant. Information on occupational changes and on the age at the most recent change of occupation refer to the date of the respondent's biography interview.

4.2 Structure and Contents of BIOJOB

BIOJOB consists of generated variables as well as plain questionnaire information. In this section the generated variables are explained and their coding is illustrated.

Concerning different sources of information, the following priority scheme is applied: First the plain information stemming directly from questions on the relevant topic in the latest valid LELA-file is used. In case of inconsistencies, which will be explained later on, the latest valid information stemming from the PBIOSPE file is also used. The PBIOSPE file consists of spell data concerning the retrospective question 'what did you do since the age of 15' in the Biography Questionnaire as well as the question on activities in the last year in the Individual Questionnaire (for detailed information see chapter 3).

4.2.1 Contents of BIOJOB:

Population: All persons with an entry in any LELA-/YOUTH-file up to 2010, even if information on employment is missing.

number of cases: 47,532 waves: A(84) - BA(10) samples: A, B, C, D, E, F, G, H, I

variables:

HHNR	original household identifier
PERSNR	unique individual identifier
BIOYEAR	year of biography / youth interview
AGEFJOB	age at first job

AGEINFO	information source AGEFJOB
NOJOB	never worked before the time of the interview
STILLFJ	still employed in first job
OCCFJOB	occupational position first job
FULLTIME	first job was a full-time or part-time job
FJBLUE	first job blue collar worker
FJSELF	first job self-employed
FJSEFSIZ	number of employees FJSELF
FJWHITE	first job white collar worker
FJCIVS	first job civil servant
ISCO88	International Standard Classification of Occupation 1988, first job
STBA	classification of career according to the Federal Statistical Office, Germany, (Statistisches Bundesamt), version 1992, first job
EGP	Erikson and Goldthorpe's Class Category (EGP), first job
ISEI	International Socio-Economic Index of Occupational Status after Ganzeboom (ISEI), first job
MPS	Magnitude Prestige Scale after Wegener, first job
SIOPS	Treiman Standard Int. Occ. Prestige Scale, first job
REQEDUC	required education for first job
CIVILSFJ	first job was in civil service
NACEFJ	NACE branch code first job
OCCMOVE	number of occupational changes
AGEATMV	age at most recent occupational change
INTEDUC1	to
INTEDUC4	intended educational degree
CURREMPL	employed at time of biography interview
YEARLAST	year of last employment
SCOPELJ	last job was a full-time or part-time job

CIVLSLJ	last job was in civil service
NACELJ	NACE branch code last job
OCCLJOB	occupational position last job
LJBLUE1	last job blue collar worker
LJSELF	last job self-employed
LJSEFSIZ	number of employees LJSELF
LJWHITE	last job white collar worker
LJCIVS	last job civil servant

If data are missing, we use the SOEP missing value definition:

- (-1) no answer
- (-2) does not apply

Description of variables:

AGEFJOB/AGEINFO

The variable AGEFJOB provides the age at entry into the working force. AGEINFO is a pointer variable indicating the source of the age information.

In the Biography Questionnaire people either have to give information on their age at entry into the working force or have to state that they have never worked before the time of the interview. The latter information is used in the variable NOJOB.

In the Youth Questionnaire people have to answer whether they are currently working in a regular occupation. They are not asked about the age at their first occupation, but since people answering the Youth Questionnaire are normally at the age of 16 or 17, in most cases we can assume that a full-time job at this age is their first regular employment.

Information on the coding procedure of AGEFJOB is provided in the following subsections where (a) to (i) refer to LELA respondents, (j) to (p) to youth respondents respectively.

LELA-respondents:

- a) For people who are or have ever been employed at the time of answering the biographical questions their age at the time of entry into the working force is taken from the LELA-files.
- b) When we observe, that the person has not been in the working force at the time of responding, but starts to work later on, data of the PBIOSPE-file is used. Using the spell information in PBIOSPE, we are able to collect the age at the first job.
- c) A replacement of the LELA-data takes place, when respondents state that they have worked before the age of fifteen, but have a spell entry later than the age of fifteen. This rule is not applied when the spell starts at the age of fifteen, since this is the minimum value for spell data in the questionnaires.
- d) The same procedure is applied, when people answer, that they have never worked at the time of the interview, but have a spell which starts before the first interview.
- e) In some cases the AGEFJOB value is higher than the start of the corresponding working spell in PBIOSPE. In general, the AGEFJOB value is maintained. Only when the value is greater than 27, is it replaced by the PBIOSPE data. (95% of these cases have an AGEFJOB below 27.)

- f) If we observe item non response concerning AGEFJOB and NOJOB, but spell information is available, the missing value is replaced by the corresponding PBIOSPE spell data.
- g) If even the 'What did you do since you were 15' question had not been answered, there still was a chance to extract similar information out of the PBIOSPE-file by considering the question 'What did you do every month last year'.
- h) If we still had no valid information, the value of AGEFJOB was left out of the dataset.
- i) Due to the fact that PBIOSPE information are collected only until the end of the year preceding the actual wave (in this version of BIOJOB: December 2006), for respondents without first job information from both the biography questionnaire and PBIOSPE we further look for a first job using information from the current wave individual questionnaire.

YOUTH-respondents:

- j) For respondents who are regularly employed, information is taken from the Youth Questionnaire; AGEFJOB is coded as year of questioning minus year of birth minus one (only if the respondent does not state that he/she is still in school, etc.).
- k) If we additionally observe a spell starting before the respondent answers the Youth Questionnaire, information from PBIOSPE is used if the respondent does not state in the current questionnaire that he/she is still in school, etc.
- l) If respondents answer that they have no regular employment but provide an employment spell starting after the time of the first interview, information from \$P (for details see m) is taken if available (only if the respondent does not state that he/she is still in school, etc.).
- m) For respondents with inconsistent first job information (simultaneous employment and school attendance/apprenticeship, differing job info in Youth Questionnaire and PBIOSPE) the question 'Are you currently engaged in paid employment?' asked in the Individual Questionnaire turned out to be the most reliable source of information. If a respondent states to be full- or part-time employed in a wave subsequent to the youth interview, AGEFJOB info is derived from the latest information of that kind.
- n) If people do not answer at least one of the questions 'Do you currently earn money?' and 'Do you earn money as an apprentice, full-time worker or part-time-worker?' but have an employment spell, like in m) the earliest \$P information is

taken if available (only if the respondent does not state that he/she is still in school, etc.).

- o) If information from the Youth and the Individual Questionnaire (including PBIOSPE) are inconsistent concerning AGEFJOB, then the variable is set to missing.
- p) Due to the fact that PBIOSPE information are collected only until the end of the year preceding the actual wave (in this version of BIOJOB: December 2006), for respondents without first job information from both the Youth Questionnaire and PBIOSPE we further look for a first job using information from the current Individual Questionnaire.

The pointer variable AGEINFO provides the coding information described above. Value labels of AGEINFO indicating the source of information are:

- (1) LELA-files (case (a) above)
- (2) PBIOSPE if AGEFJOB<15, but spell begin > 15 (c)
- (3) PBIOSPE if 'not worked' at interview but later spell begin (b)
- (4) PBIOSPE if 'not worked' at interview but earlier spell begin (d)
- (5) PBIOSPE if AGEFJOB>27 and earlier spell begin (e)
- (6) implausible information therefore set missing (h)
- (7) PBIOSPE if 'not worked'-question and AGEFJOB not answered, but 'what done at 15'-question answered (f)
- (8) PBIOSPE if 'not worked'-question, AGEFJOB and 'what done at 15'-question not answered, but 'what done last year'-question answered (g)
- (9) completely missing
- (10) SP if no info from bio interview and PBIOSPE but employment in current Individual Questionnaire (i)
- (11) info drawn from Youth Questionnaire(j)
- (12) info drawn from PBIOSPE for persons who state in the Youth Questionnaire to be regularly employed and additionally have an employment spell starting earlier (k)
- (13) info drawn from \$P for persons who state in the Youth Questionnaire not to earn money relating to an employment/job or to earn money but relating to a part-time job or a practical training, and have a subsequent employment spell (l)

- (14) info drawn from \$P for persons with inconsistent first job information from the Youth Questionnaire or PBIOSPE, but valid employment information from an Individual Questionnaire subsequent to the biography interview (m)
- (15) info drawn from \$P for persons with item non response in one of the questions ‘Do you already earn money from jobs?’ or ‘Do you earn that money as a trainee, full-time or part-time employee?’ and with info in PBIOSPE (n)
- (16) completely missing
- (17) set to missing because of inconsistent information (o)
- (18) info drawn out of UP, the last wave of the SOEP (p)

For more than 50% of the cases with AGEINFO = 3, 7, or 8 (AGEINFO=7 or 8 only if information collected after biography interview) it is possible to extract information from the regular questionnaires.

For respondents with AGEINFO=10 or 11, information referring to the variables OCCFJOB, FJBLUE, FJWHITE, FJSELF, FJSEFSIZ, FJCIVS, REQEDUC and CIVILSFJ are taken from the Individual Questionnaire (same year as of youth interview). While for respondents having AGEINFO=10 this approach is intuitive, for the persons having AGEINFO=11 we act on the assumption that the job declared in the respective Individual Questionnaire is still the first job of that person. This assumption seems plausible due to the low age of all persons responding to the YOUTH Questionnaire.

In the YOUTH Questionnaire there is no question on the first job. But we can follow up their professional career by the statements given in the activity calendar in the subsequent waves. This can lead to problems if these youths report student jobs. For that reason we decided to take information from the question “Are you currently engaged in paid employment?” asked in the Individual Questionnaires of subsequent waves as the relevant source of information for this group of respondents. The earliest information of that kind determines the variable AGEFJOB.

Some respondents have very low values with respect to AGEFJOB. Most of these jobs turn out to be low-skilled and starting before 1970. The respective persons are either blue collar workers (mostly unskilled) or self-employed (mostly helping in family business). We think these characteristics suggest that these specifications are valid.

NOJOB

The underlying question for the variable NOJOB is ‘I have never been employed up to this date’. This variable has the label ‘never been employed until the date of the interview’ (1).

If NOJOB has a missing value, in general there should exist AGEFJOB information, for special cases, see above. Due to the lack of a comparable question in the Youth Questionnaire, respondents of this questionnaire are given the value (1) as long as no consistent AGEFJOB information is available.

STILLFJ

This variable is based on the question ‘Are you still employed in the same job and at the same place?’. It applies only to LELA respondents who do not state ‘I have never been gainfully employed’ and whose biography interview was after 2000.

Value labels:

(1) Yes

(2) No

FULLTIME

The FULLTIME-variable is used to indicate, whether the first job of a person was a full-time or a part-time job. The value labels are

(0) part-time job or marginal employment

(1) full-time job.

This variable is generated out of the file PBIOSPE for all respondents. For persons with first job information stemming from the Biography Questionnaires, FULLTIME possibly does not refer to the declared first job if PBIOSPE does not contain the respective job spell (i.e. due to item non response or incomplete answering of the activity biography within the Biography Questionnaire).

OCCFJOB

The variable OCCFJOB provides information on the occupational position at the first job. Due to different versions of the questionnaires in the SOEP’s different samples we face some difficulties. Table 1 gives an overview.

Table 1: Number of Possible Values for Occupational Classifications in the First Job

	Farmers (not self-employed)	Blue Collar Workers	Self-employed	White Collar Workers	Civil Servants
Sample A, B (84-95)	-	5	5	5	4
Sample C (90-95)	4	5	5	4	4
Sample D (94/95)	4	5	5	4	4
Sample A,B,C,D (96)	-	3	4	3	4
Sample A,B,C,D (97-99), E (99)	-	3	4	4	4
Sample A,B,C,D,E (00)	-	3	6	4	4
Sample A,B,C,D,E,F (01)	-	3	10	4	4
Sample A,B,C,D, E,F (02)	-	5	10	6	4
Sample A,B,C,D, E,F,G(06),H(06), I(10)	-	5	10	6	4

Facing these differences we decided to standardise the occupational classification. Only four types of occupational status were taken into account: blue collar workers, white collar workers, civil servants, and self-employed. The group 'Farmers' is included in the blue collar worker group.

The potential value labels for OCCFJOB are:

- (1) blue collar worker
- (2) self-employed

(3) white collar worker

(4) civil servant

Further details are provided by the variables FJBLUE (for blue collar workers), FJSELF (self-employed), FJWHITE (white collar workers), and FJCIVS (civil servants). Table 2 shows the number of possible values.

Table 2: Number of Possible Values for the subcategories of the variable OCCFJOB

	FJBLUE	FJSELF	FJWHITE	FJCIVS
Sample A,B,C,D, E,F,G,H,I (84-10)	9	4	7	4

Due to the fact that the PBIOSPE-file is used for the coding of AGEFJOB in certain cases (see above) there is less information on OCCFJOB than on AGEFJOB.

FJBLUE

The FJBLUE variable provides detailed information on the first occupational status if the person was a blue collar worker. Certain value labels are only given for certain samples, because of the already mentioned differences in the questionnaires.

The following value labels are assigned:

- (10) un- and semiskilled farmers (sample C/D)
- (11) unskilled worker
- (12) semiskilled worker
- (20) skilled worker
- (30) farmers (sample C/D) being foreman or master craftsman
- (31) foreman (sample A/B)
- (32) foreman (sample C/D)
- (40) master craftsman
- (41) farmers (sample C/D) in middle and higher management

FJSELF/FJSEFSIZ

The FJSELF variable provides detailed information on the first occupational status if the person was self-employed. FJSEFSIZ gives the number of employees in the respondent's firm. Again there are differences due to the different versions of questionnaires.

The following value labels are assigned:

- (10) independent farmer
- (20) free lances, self employed academics
- (30) other self employed workers
- (40) helping within family business

FJSESIZ has the following value labels:

- (10) number of employees ≤ 9 (all subsamples (see exceptions for samples C/D), up until wave M)
- (11) no co-workers (all subsamples, from wave R on)
- (12) number of co-workers 1-9 (all subsamples, from wave N on)
- (20) number of employees > 9 (all subsamples (see exceptions for samples C/D))
- (30) number of employees ≤ 10 (sample C (waves I to L) / D (waves K to L), only if info drawn from biography questionnaire)
- (40) number of employees > 10 (sample C (waves I to L) / D (waves K to L) , only if info drawn from biography questionnaire)

FJWHITE

FJWHITE gives detailed information on persons, who were first employed as white collar workers. The subvalues of unskilled labour without degree (21), or with degree (22) are, due to uncomparable values in the LELA-files, only drawn from the \$P-Files. (Beginning with BIOJOB 2004).

Potential value labels:

- (10) industrial foreman
- (20) employee / unskilled labour

- (21) same as (20), but without degree
- (22) same as (20), but with degree
- (30) employee / skilled labour
- (40) employee / professional labour
- (50) employee / managerial labour

FJCIVS

FJCIVS provides detailed information on first employment as a public servant.

The following value labels occur:

- (10) low level civil servant
- (20) middle level civil servant
- (30) high level civil servant
- (40) executive civil servant

ISCO88, STBA EGP, ISEI, MPS, SIOPS

These variables – job classifications and different prestige scores – concerning in each case the first job but are not generated within this file and therefore they are not described within this documentation.

REQEDUC

REQEDUC provides information about the required education for the first job. This information has been asked in the Biography Questionnaire for the first time in the year 2001, but comparable information are gathered by the Individual Questionnaire in all waves.

For all respondents having their first job subsequent to their biography interview, information is drawn out of the generated file \$PGEN. Neither respective variables in \$P nor those in \$PGEN provide full information for all waves. In both data sources no differentiation is made between vocational college degree and university degree. As \$PGEN info is equally coded in all waves, it is preferred to \$P info.

Potential value labels:

- (10) no training

- (20) completed vocational training
- (30) vocational college or university degree
- (31) vocational college degree
- (32) university degree

CIVILSFJ

CIVILSFJ indicates if the first job was assigned to the civil service or not. This information has been asked in the 2001 Biography Questionnaire for the first time

For respondents having their first job subsequent to their biography interview, information is drawn out of the generated file \$PGEN where this information is provided since the first wave in 1984.

The following value labels occur:

- (1) Yes
- (2) No

NACEFJ

NACEFJ provides information about the industrial sector of the first job according to the branch classification NACE. This variable is not generated within this file. The description of its value labels is therefore not part of this documentation.

OCCMOVE

The variable OCCMOVE is based on the question 'Did you change your occupation and if you did, more than once?'. Information stems from the year of the biography interview. For respondents of the Youth Questionnaire as well as persons having their first job after the biography interview no information is available.

Labels of OCCMOVE:

- (1) never changed occupation
- (2) changed once
- (3) changed more than once

AGEATMV

This variable is based on the question ‘If you changed your occupation, how old were you at the most recent change?’. Information stems from the year of the biography interview. For respondents of the Youth Questionnaire as well as persons having their first job after the biography interview no information is available.

CURREMPL

This variable is based on the question ‘Are you gainfully employed at the current time?’. The question applies only to LELA respondents who do not state ‘I have never been gainfully employed’ or ‘Still employed in the first job’. This question has been asked in 1994 for the first time.

Value labels:

- (1) Yes
- (2) No

YEARLAST

This variable is based on the question ‘When was the last time you were gainfully employed?’. The question applies only to LELA respondents who do not make at least one of the following statements in their biography interview:

‘I have never been gainfully employed.’

‘Still employed in the first job’

‘Gainfully employed at the current time’.

This question has been asked in 1994 for the first time.

SCOPELJ

SCOPELJ indicates if the last job was a full time or part time job.

Information is only provided for respondents who answer the respective question within the Biography Questionnaires. The respective question applies only to respondents who do not make at least one of the following statements:

‘I have never been gainfully employed.’

‘Still employed in the first job’

‘Gainfully employed at the current time’.

This question has been asked in 1994 for the first time.

For youth respondents no information is available.

Value labels:

- (1) full-time employed
- (2) part-time employment
- (3) marginal / irregular employment

CIVILSLJ

CIVILSLJ indicates if the last job was assigned to the civil service or not.

Information is only provided for respondents who answer the respective question within the Biography Questionnaires. The respective question applies only to respondents who do not make at least one of the following statements:

‘I have never been gainfully employed.’

‘Still employed in the first job’

‘Gainfully employed at the current time’.

This question has been asked in 1994 for the first time.

For youth respondents no information is available.

The following value labels occur:

- (1) Yes
- (2) No

NACELJ

NACELJ provides information about the industrial sector of the last job according to the branch classification NACE. The respective question applies only to respondents who do not make at least one of the following statements in their biography interview:

‘I have never been gainfully employed.’

‘Still employed in the first job’

‘Gainfully employed at the current time’.

This question has been asked in 1994 for the first time.

This variable is not generated within this file. The description of its value labels is therefore not part of this documentation.

OCCLJOB

The variable OCCLJOB provides information on the occupational position at the last job. The respective question applies only to respondents who do not make at least one of the following statements in their biography interview:

‘I have never been gainfully employed.’

‘Still employed in the first job’

‘Gainfully employed at the current time’.

This question has been asked in 1994 for the first time.

Due to different versions of the questionnaires in the GSOEP’s different samples we face some difficulties. Table 3 gives an overview:

Table 3: Number of Possible Values for Occupational Classifications in the Last Job

	Farmers (not self-employed)	Blue Collar Workers	Self-employed	White Collar Workers	Civil Servants
Sample A,B (94/95)	-	5	5	5	4
Sample C,D (94/95)	4	5	5	4	4
Sample A,B,C,D (96-99), E (99)	-	5	5	6	4
Sample A,B,C,D,E (00)	-	5	6	6	4
Sample A,B,C,D, E,F (01/02)	-	5	10	6	4
Sample A,B,C,D, E,F,G(06),H(06), I(10)	-	5	10	6	4

Facing these differences we decided to standardise the occupational classification. Only four types of occupational status were taken into account: blue collar workers, white collar workers, civil servants, and self-employed. The group 'Farmers' is included in the blue collar worker group.

The potential value labels for OCCLJOB are:

- (1) blue collar worker
- (2) self-employed
- (3) white collar worker
- (4) civil servant

Further details are provided by the variables LJBLUE (for blue collar workers), LJSELF (self-employed), LJWHITE (white collar workers), and LJCIVS (civil servants). Table 4 shows the number of possible values.

Table 4: Number of possible values for the subcategories of the variable OCCLJOB

	LJBLUE	LJSELF	LJWHITE	LJCIVS
Sample A,B,C,D, E,F,G,H ,I (84-10)	9	4	7	4

LJBLUE

The LJBLUE variable provides detailed information on the last occupational status if the person was a blue collar worker. Certain value labels are only given for certain samples, because of already mentioned differences in the questionnaires.

The following value labels are assigned:

- (10) un- and semiskilled farmers (sample C/D)
- (11) unskilled worker
- (12) semiskilled worker
- (20) skilled worker
- (30) farmers (sample C/D) being foreman or master craftsman
- (31) foreman (sample A/B)
- (32) foreman (sample C/D)
- (40) master craftsman
- (41) farmers (sample C/D) in middle and higher management

LJSELF/LJSEFSIZ

The LJSELF variable provides detailed information on the last occupational status if the person was self-employed. LJSEFSIZ gives the number of employees in the respondent's firm. Again there are differences due to different versions of questionnaires.

The following value labels are assigned:

- (10) independent farmer
- (20) free lances, self employed academics
- (30) other self employed workers
- (40) helping within family business

LJSEFSIZ has the following value labels:

- (10) number of employees ≤ 9 (all subsamples (see exceptions for samples C/D), until wave M)
- (11) number of co-workers = 0 (all subsamples, from wave N on)
- (12) number of co-workers 1-9 (all subsamples, from wave N on)
- (20) number of employees > 9 (all subsamples (see exceptions for samples C/D))
- (30) number of employees ≤ 10 (sample C (waves I to L) / D (waves K to L), only if info drawn from biography questionnaire)
- (40) number of employees > 10 (sample C (waves I to L) / D (waves K to L) , only if info drawn from biography questionnaire)

LJWHITE

LJWHITE gives detailed information on persons, who were last employed as white collar workers. The values (21) and (22) are drawn from the BIOLELA-File and from the \$P-files.

Potential value labels:

- (10) industrial foreman
- (20) employee / unskilled labour
- (21) same as (20), but without degree

- (22) same as (20), but with degree
- (30) employee / skilled labour
- (40) employee / professional labour
- (50) employee / managerial labour

LICIVS

LICIVS provides detailed information on last employment as a public servant.

The following value labels occur:

- (10) low level civil servant
- (20) middle level civil servant
- (30) high level civil servant
- (40) executive civil servant

INTEDUC1 to INTEDUC4

The variables INTEDUC1, INTEDUC2, INTEDUC3, and INTEDUC4 provide information on the educational degree or the vocational/professional training a respondent intends to complete in the future, asked at the time of the biography interview. We create these four variables since multiple answers are explicitly allowed in the questionnaire. The intended education is stored with respect to the hierarchy given by the questionnaire, i.e., the highest degree is placed in INTEDUC1. For example, a person intending to finish an apprenticeship (1) and university (7) would have INTEDUC1 = 7 and INTEDUC2 = 1. Since this question has been asked for the first time in 1996, we do observe a large number of missing values for INTEDUC1 to INTEDUC4.

- (1) apprenticeship
- (2) full-time vocational school
- (3) technical school
- (4) education as a civil servant
- (5) accredited professional school
- (6) technical or professional college
- (7) university

General remark:

Some persons answered more than once the Biography Questionnaire (but this occurs very rarely). The data-set BIOJOB contains only information from one Biography Questionnaire, in most cases the earlier one.

4.3 Steps of Coding

1. Creating a dataset using the data concerning all aspects of the job biography (working force entry, position, etc.) drawn from BIOLELA, MLELA, NLELA, OLELA, PLELA, QLELA, RLELA, SLELA, TLELA, ULELA, VLELA, WLELA, XLELA, YLELA, ZLELA, BALELA (internal DIW files with biographical information up to wave BA), QJUGEND, RJUGEND, SJUGEND, TJUGEND, UJUGEND, VJUGEND, WJUGEND, XJUGEND, YJUGEND, ZJUGEND, BAJUGEND (internal DIW youth biography files), QP, RP, SP, TP, UP, VP, WP, XP, YP, ZP, BAP (needed for consistency checks with respect to the youth biography files).
2. Using the PBIOSPE-data to retrieve spell information during the first occupation.
3. Using PPFAD for personal data (year of birth, sex, sample).
4. Using several files containing generated information about job classification (ISCO), prestige scores and industry sector classification (NACE) concerning the first job.
5. Combining all data concerning the employment biography into a new data file BIOJOB, where priority is set as mentioned above.
6. Coding of AGEFJOB. (for details, see above)
7. Setting the pointer variable AGEINFO indicating the source of the information of AGEFJOB. (for details, see above)
8. Excluding one value for respondents, who stated to have two occupational positions in their first job. Exclusion based on consistency checks.
9. Assignment of the variable OCCFJOB, with respect to the different versions of the questionnaire. Possible value labels: FJBLUE, FJSELF, FJWHITE, FJCIVS.
10. Definition and assignment of new value-labels for the sub-category FJBLUE, nine labels possible, for details see above.
11. Definition and assignment of new value-labels for the sub-category FJSELF, four labels possible, for details see above.
12. Definition of the variable FJSEFSIZ, indicating the numbers of employees.

13. Definition and assignment of new value-labels for the sub-category FWHITE, seven labels possible, for details see above.
14. Definition and assignment of new value-labels for the sub-category FJCIVS, four labels possible, for details see above.
15. Coding of the variables REQEDUC and CIVILSFJ.
16. Coding of the variables INTEDUC1 to INTEDUC4.
17. Computing the age at the most recent change of occupation if necessary.
18. Check of consistency: Does information about the age at the most recent change of occupation make sense? If inconsistencies appear, the value is set to a missing value.
19. Assignment of value labels for the variables specifying the last job:
20. Definition and assignment of value labels of the variable CURREMPL indicating if a respondent is gainfully employed at the time of the biography interview.
21. Specification of the year of last employment (YEARLAST).
22. Coding of the variables SCOPELJ and CIVILSLJ.
23. Excluding one value for respondents, who stated to have two occupational positions in their last job. Exclusion based on consistency checks.
24. Assignment of the variable OCCLJOB, with respect to the different versions of the questionnaire. Possible value labels: LJBLUE, LJSELF, LJWHITE, LJCIVS.
25. Definition and assignment of new value-labels for the sub-category LJBLUE, nine labels possible, for details see above.
26. Definition and assignment of new value-labels for the sub-category LJSELF, four labels possible, for details see above.
27. Definition of the variable LJSEFSIZ, indicating the numbers of employees.
28. Definition and assignment of new value-labels for the sub-category LJWHITE, seven labels possible, for details see above.
29. Definition and assignment of new value-labels for the sub-category LJCIVS, four labels possible, for details see above.
30. Collecting of job information for people with AGEINFO = 3, 7 or 8, if possible.
31. Collecting of job information for people with AGEINFO = 12, 14 or 16, if possible.
32. Coding of the variable FULLTIME.
33. Definition of missing values for all variables.

34. Hand-editing of inconsistencies between different variables.
35. Final listing
36. Definition and assignment of new value-labels for the sub-category LCIVS, four labels possible, for details see above.
37. Collecting of job information for people with AGEINFO = 3, 7 or 8, if possible.
38. Collecting of job information for people with AGEINFO = 12, 14 or 16, if possible.
39. Coding of the variable FULLTIME.
40. Definition of missing values for all variables.
41. Hand-editing of inconsistencies between different variables.
42. Final listing

5 The marital history files BIOMARSM and BIOMARSY

by Olaf Groh-Samberg, Florian R. Hertel and Juliana Werneburg

(Update of the 2010 version written by Olaf Groh-Samberg and Florian R. Hertel)

SOEP provides marital histories of more than 52.000 respondents in two data files, BIOMARSM and BIOMARSY. BIOMARSY is a spell data set containing annual spells whereas in BIOMARSM spells are measured on a monthly basis. While BIOMARSY contains the whole marital biography from the year of birth, and thus also includes retrospective information, BIOMARSM covers the marital history from first to last personal interview of a respondent. Additionally, the marital status in the \$PGEN data files, stored in \$FAMSTD, is derived from BIOMARSM for the respective month of an interview. The current data distribution of 2011 follows the same data concept as established in 2010, though editing of the original data was expanded. This documentation proceeds with a brief description of data files BIOMARSM (1.) and BIOMARSY (2.). Users interested in more details may read further about the sources of information and how marital histories are collected in the SOEP (3) and the editing process of constructing logically consistent and complete marital histories (4).

5.1 BIOMARSM: Prospectively collected monthly information on the marital history

The 61.355⁹ spells in data file BIOMARSM contain prospectively collected information on marital biographies starting with the month of the first personal interview. The data file comprises eight variables: the case and individual identifiers HHNR and PERSNR as well as six spell specific variables. Variable SPELLTYP documents marital status with the possible categories ‘unmarried’, ‘married’, ‘divorced’, and ‘widowed’. A fifth state is ‘gap’ indicating a lack of reliable data for this period. Variable SPELLNR is a chronological index number for each individual’s spells during the observation period. Variables BEGIN and END indicate the month in which a marital spell starts and ends.

⁹ All numbers given in this chapter relate to SOEP distribution v27.

Monthly histories start with a value of 1 in January 1983 and ranges until the current margin in month 336, i.e., December 2010. For compatibility reasons with the other monthly spell data in the SOEP, BIOMARSM starts in January 1983 although there are no observations prior to January 1984 (i.e., month 13). In principle, the month in which a spell starts is the very same month the previous spell ends in.

Variables of BIOMARSM

HHNR	Identifier of original sample household
PERSNR	Personal identifier
SPELLNR	Consecutive spell number (chronological order) [1 to 9]
SPELLTYP	Marital status (1) unmarried (2) married (3) divorced (4) widowed (9) gap
BEGIN	Month of begin [1=Jan 1983 to 336=Dec 2010]
END	End month of spell [1=Jan 1983 to 336=Dec 2010]
REMARK	Error code [1 to 26] (see explanation below, Tab. 1)
CENSOR	Censoring information [0 to 11] (see explanation below, Tab. 2)

It is important to note that a ‘first spell’ in BIOMARSM is not the very first spell of a person, but the first observed marital status since the person is taking part in the SOEP. Accordingly, the first spell in BIOMARSM is (almost) always left-censored. Variable CENSOR informs about whether a spell is left- or right-censored and if so, why. Most spells in BIOMARSM are in fact censored. In order to provide the user with detailed information on the nature of censorship we distinguished ‘left’, ‘right’, and combined ‘left- and right-censored spells’ with respect to the reason for censoring: ‘first spell’ or ‘last spell’, ‘spell ends with death’, spell ‘precedes’ or ‘succeeds a gap’ (see Table 1). Of course, ‘death’ and ‘last spell’ are not mutually exclusive, thus we overwrite the latter with the former reason for being right-censored if the last interview is in the year of death or precedes it.

Table 1: Coding of the variable CENSOR in BIOMARSM

Left:	Right:	not censored	censored last spell	censored death	censored before gap
not censored		0	3	4	5
censored first spell		1	6	7	8
censored after gap		2	9	10	11

Variable REMARK provides information on whether we had to edit or supplement the original information provided by the respondents in order to construct logically consistent and continuous marital biographies (see section 4 for more details on the editing process). Spells in BIOMARSM are marked as ‘edited’ (in contrast to ‘original’) if the editing process to obtain logically consistent and complete marital histories involved deletion or substitution of original information as reported in the individual questionnaire. In some cases we also had to ‘insert’ spells, for example, if a respondent failed to report a marriage between being single and divorced, but we were able to validate this marriage from partner information, or if we had to insert a divorce between two marriages with different partners. Furthermore, for each of the three states – ‘original spell’, ‘edited spell’, and ‘inserted spell’ – variable REMARK comprises information on whether the month of a spell’s respective beginning (BEGIN) and end (END) was ‘reported’ by the respondent, ‘imputed’ due to missing information on the month when the event took place, or whether it is the ‘first spell’ or ‘last spell’ (see Table 2).

Table 2: Coding of variable REMARK in BIOMARSM

Type of spell	Begin (month) of spell	End (month) of spell		
		reported	last spell	imputed
Original spell	reported	1	2	3
	first spell	4	5	6
	imputed	7	8	9
Edited spell	reported	10	11	12
	first spell	13	14	15
	imputed	16	17	18
Inserted spell	first spell	19	20	21
	imputed	22	23	24

We call the beginning of a spell ‘reported’ if the respondent reported the month of the event that led to the new marital status, e.g., a marriage or divorce. The end of a spell is labelled as ‘reported’ if the following spell’s beginning is ‘reported’. A spell will be displayed as having a ‘reported’ beginning even if it is a ‘first’ spell, i.e., the marital status reported in the first personal interview. A spell’s beginning month BEGIN is ‘imputed’ if the exact information on the month of the status change is missing. We impute a randomly drawn value between the two observed states before and after the change, i.e., the imputed BEGIN always falls in between the months of two consecutive interviews. In case of marriages we restrict the random imputation procedure to reproduce the monthly distribution of marriages in Germany based on administrative data from the German statistical office. Correspondingly, the end of a spell is labelled ‘imputed’ if the beginning of the following spell was imputed. Inserted spells – e.g., a marriage spell that we introduced between a single spell and a divorced spell after cross-checking with the partner information (see below for more details) – can only have ‘imputed’ months of beginning, except for the very rare cases where the inserted spell is a first spell in BIOMARSM.

Note that the generated variable \$FAMSTD of the marital status at the time of the interview stored in file \$PGEN is derived from BIOMARSM. Thus, \$FAMSTD takes on the value derived from the spell system BIOMARSM for the month of an interview.

5.2 BIOMARSY: A yearly marital biography

Data file BIOMARSY supplements BIOMARSM with retrospectively collected information on the marital history since a respondent’s year of birth. Whereas the marital history in BIOMARSM is measured in months, BIOMARSY depicts the marital biography on an annual basis. For the years of panel participation, the annual spells in BIOMARSY are derived by aggregating the monthly information from BIOMARSM. Thus, both spell data sets are consistent with each other.

The BIOMARSY file comprises ten variables. The individual and household identifiers HHNR and PERSNR as well as SPELLTYP are basically the same in the two data sets. For BIOMARSY, it is important to notice that SPELLTYP has one additional category ‘divorced or widowed’ which indicates that a marriage definitely ended though we do not know

whether via divorce or death of the spouse. This may be due to missing information from the biographical questionnaires or due to a respondent's frequent shifts between both categories without ever reporting the death of the partner or divorce as an event. Due to the fact that duration of spells is measured in years it is important to notice that an individual may encounter several (up to three) events in the same year. In this case the variable SPELLNR allows the user to order the spells with respect to a respondent's life course. The variables BEGINY and ENDY provide the years in which a spell begins and ends, while the variables BEGIN and END indicate for users' convenience the respective age of the respondent. The spell system for each individual in BIOMARSY always starts with the birth of the respondents. We thus created a first spell for each individual ever interviewed in the SOEP starting in the year of birth and continuing at least until the year in which a person turns age 15. The SPELLTYP of the first spell per definition is 'unmarried'. Even if a respondent reported an earlier marriage in the biography questionnaire we restricted its beginning to age 15, however, we marked this spell as 'left censored'.

Variables of BIOMARSY

HHNR	Identifier of original sample household	
PERSNR	Personal identifier	
SPELLNR	Consecutive spell number (chronological order) [1 to 11]	
SPELLTYP	Marital status	
	(1) unmarried	
	(2) married	
	(3) divorced	
	(4) widowed	
	(5) divorced or widowed	
	(9) gap	
BEGINY	Year spell begins	[1882 to 2010; -3=implausible; -1=missing]
ENDY	Year spell ends	[1912 to 2010; -3=implausible; -1=missing]
BEGIN	Age spell begins	[12 to 102; -3=implausible; -1=missing]
END	Age spell ends	[12 to 102; -3=implausible; -1=missing]
REMARK	Error code	
	(1) original spell	
	(2) edited spell	
	(3) gap spell	
	(4) first spell	
CENSOR	Censoring information [0 to 14]	
	(see explanation below, Tab. 3)	

There are some missing values (-1 or -3) in BEGINY as well as in ENDY (resp. BEGIN and END) indicating that we do not know the exact year of a change in the marital status.¹⁰ This can have two reasons. First, it may simply indicate that the respondent did not report the year in which a marriage began or ended (item non-response). Second, a gap might be included because there is an unobserved period of at least two years due to repeated item or partial unit non-response. In order to differentiate the reasons for missing information the user may utilize the variables REMARK and CENSOR. Third, within single case corrections some dates are set implausible (-3) if huge contradictions between partners appear unsolvable.

REMARK indicates whether a spell was ‘edited’ or ‘inserted’ (other than ‘original’) in the same way as in BIOMARSM (see above). Variable CENSOR indicates if a spell is left or right censored or censored on both tails. Furthermore, there is information included for the reasons of censoring. In principle, spells might be censored if they precede or follow a gap spell or if BEGIN or END is missing (-1, -3). In addition to what was said before about gap spells in BIOMARSM, gaps or missing values in BEGIN or END may appear in BIOMARSY if a respondent reported a terminated first marriage and the beginning of a second marriage, but did not report the reason for and/or the year of the end of the first marriage (for more details see below). The last spell of each person is marked as right censored, be it that the person died, quit the SOEP or is still married currently. Some ‘marriages’ are marked as left censored as well if the respondents report the marriage to began before age 15.

Table 3: Coding of variable CENSOR in BIOMARSY

Left: \ Right:	not censored	censored missing	censored before gap	censored last spell	censored death
not censored	0	3	4	5	6
censored missing	1	7	8	9	10
censored after gap	2	11	12	13	14

For the construction of BIOMARSM and BIOMARSY we first collapsed all the information on current marital status, family events and marital biography into a single data set. In

¹⁰ There are only two persons in the SOEP who never reported their year of birth, thus having in all but the first spell a missing in BEGIN and END and only in the first spell a missing BEGINY and ENDY.

a second step, this information was extensively checked and edited in order to obtain logically consistent marital histories. In the third and last step we put these marital histories into a user friendly spell data format. These steps will be explained in more detail in the following sections.

5.3 Sources of the marital history

For the construction of individual marital histories we gathered information (1.) on the biography from the biographical questionnaire \$LELA, (2.) on current marital status conducted in the personal questionnaire \$P (or \$PAUSL or \$PLUECKE or BIOIMMIG) together with (3.) monthly information on the events ‘marriage’, ‘divorce’ and ‘death of partner’ that may have occurred since the last personal interview, also collected in the personal interviews and stored in the files \$P. Fig. 1 to 3 show the different questionnaires aimed at collecting the marital history (for the survey year 2001). After integrating all information from these three sources we performed checks on their internal coherence.

Fig. 1: Extraction of the supplementary biography questionnaire in 2001

69. Are you married or have you ever been married?

Yes, I am or was married ____

No, I was never married ____ →Skip to question 71.

70. When did you get married or when were you married?

If you have been married more than once, please provide information on your earlier marriages, too.

	First Marriage	Second Marriage	Third Marriage
Married in the year	19__	19__	19__
Still married			
Marriage ended in the year	19__	19__	19__
by means of divorce			
due to the death of your partner			

Fig. 2: Extraction of the personal questionnaire in 2001 – marital status

131. What is your marital status?	
Married, living together with spouse	
Married, living (permanently) separated from my spouse	
Single	
Divorced	
Widowed	

Fig. 3: Extraction of the personal questionnaire in 2001 – events since last interview

133. Has your family situation changed after December 31, 1999? Please indicate if any of the following apply to you and if so, when this change occurred.			
	Yes	in 1999 in month	in 2000 in month
I married			
I moved in with my partner			
I got divorced			
I separated from my spouse / partner			
My spouse / partner died			
My son or daughter left the household			
Had a child			
Other:			
There have been no changes in my family			

From the biographical questionnaire (see Fig. 1) we obtain information on up to three marriages that took place prior to the interview and, if any, the way they ended. The biographical information from the life course questionnaire (which is not part of the standard data distribution package) needed to be cleaned from input data errors.

The personal questionnaire comprises a question on the marital status at the month of interview (see Fig. 2). For immigrants we also used information on the marital status derived from the foreigner questionnaire stored until 1995 in \$PAUSL. Additionally, information on immigrants' spouses, their whereabouts, and foreign respondent's marital status were taken from BIOIMMIG. For temporary drop outs we replaced missing information with data from \$PLUECKE.

Third, in the personal questionnaire we also ask questions about family events that may have led to changes of a respondent's marital status (see Fig. 3). Of those items we only considered information on the month of a marriage, divorce or death of a partner in order to construct the marital history. Due to the fact that events were collected retrospectively from first of January of the last calendar year until the month of interview, events in the beginning of a year could have been reported twice. For temporary drop outs we collect the information on marital events from \$PLUECKE.

5.4 Construction of the marital history

Data are checked and edited in order to obtain logically consistent and complete individual marital histories. The main criteria for a logically consistent marital history can be derived from legal restrictions and translated into the following rules:

1. Every individual marital history has to start with the state 'unmarried'. We did not allow a person to be married before age 15.
2. From 'unmarried', one can only change to 'married'.
3. There is no possible return to 'unmarried' once a person was ever 'married' (except for the annulations of a marriage. However, given that this event is extremely rare – in particular compared to the many returns to 'unmarried' that we find in the data – we did not consider the possibility of annulations [as we did in the former version of BIOMARSM/Y]). The only possible change from 'married' is to 'divorced' or 'widowed'.
4. The only possible change from 'divorced' or 'widowed' is to 'married'.

Algorithms rearrange and correct original data to produce logically consistent marital histories following these four rules. Thus, we inserted an obligatory first ‘unmarried’ spell starting with birth and ending with the first marriage. Possible contradictions in the data were checked and edited as well, i.e.: a) contradictions between responses given in the same year in the different, previously described sources; b) illogical sequences between years; c) contradictions between both partners on an identified marriage. Thus, the amount of spells that was edited increased from 0.8 percent in data distribution v26 to 8.9 percent in the current, v27.

In principle, the notion of “romantic wedding” that was introduced in 2010 is further exerted. This idea assumes that respondents often define their marital status in subjective or even affective terms rather than referring to the legal marital status. For instance, we frequently observe unmarried couples both reporting to be married for one year, and then returning to define themselves as singles (this phenomenon we call “romantic marriage”). Another rather emotional defined marital status often occurs when married couples start to perceive themselves as singles prior to a divorce some years later (“second spring”). A third example refers to unmarried respondents who report to be widowed after their long-term partner died.

In general, indications of being ‘unmarried’ between two marriages were changed into ‘divorced’. If responses on marital status alternate between ‘divorced’ and ‘widowed’ without reporting another marriage in between, the first information reported was used to correct these contradictions. Sequences alternating short-termed between ‘divorced’/‘unmarried’ and ‘married’ are replaced by ‘married’, as long as a new partner, a longer consistent sequence or the report of an event does not confirm this possibly new marriage. Marriages, that were only reported for one year and not confirmed by the following sequence, are mostly interpreted as “romantic marriage” and thus replaced by the previous and following marital status. If the very end of a reported sequence indicates an ‘unmarried’ spell after being married and without further information, the marital history ends with a gap instead. Reports of single events that are not confirmed by marital status or biography information are ignored as well. Likewise, reported weddings during still existing marriages are ignored mostly.

In cases where information of both partners on their joint marriage is available, dates were counterchecked. Contradictions in both reports were either validated or

corrected via single case inspections if possible. If contradictions in dates were not possible to dissolve but neither decisive, i.e. dates differ for example by five years but have no effect on both respondents' sequences of marital history, original information is not replaced. Clearly implausible information is either replaced by the more likely information of one partner or dates were set implausible (-3) if no decision could be made.

Completeness is a fifth criterion for construction of marital histories in the sense that the spell system is a closed system of spells starting from birth to the last year of sample membership. Due to item as well as partial unit non-response (i.e., a person of a SOEP households refuses to give a personal interview) and due to inconsistent information, 'gap' spells are introduced as another category of SPELLTYP on its own. Gap spells can occur at any place in the spell system, i.e., there are no restriction rules like the ones above for gap spells. If information on marital status is missing for more than two years we inserted gap spells indicating that we have no knowledge of what happened during these periods. Likewise, missing retrospective biography information is indicated by an inserted gap spell. Also, if three finished marriages were reported in the biography questionnaire and a fourth current marriage via the next marital status, another gap is inserted.

Missing information due to item non-response in the life course questionnaire may also affect the dates of the beginning or end of a spell. In these cases the date is declared as missing (-1) if there is no other reliable source like a spouse reporting the beginning of a marriage with the individual in question. We decided to assign a value of -1 to the BEGIN and/or END variables instead of inserting rather long gap spells in order to maintain a maximum of information. For example, if a respondent failed to determine the end of a first marriage but the beginning of the second, still valid marriage, we know that the end of the first marriage falls in between the beginnings of the first and second marriage. The value of -1 also indicates that the first marriage spell and the following divorced or widowed spell are right or left censored, respectively.

As mentioned above, in many cases we observed a change in the marital status whereas the event that caused the change was not reported. In these cases the exact month of the change is missing and was imputed. If possible, the reported date is a

copy from the imputed version of BIOMARSM last year. In other cases without a match, the imputation process follows the concept of last year: In order to avoid peaks at certain months, we imputed the month of a divorce or death of a spouse randomly within the interval of the two interviews. As marriages are not randomly distributed across months, we restricted our imputation algorithm to reproduce the empirical distribution of marriage months according the official statistics for Germany. The variable REMARK indicates whether the beginning or end of a certain spell is ‘exact’ (i.e., the month of the event was reported), ‘imputed’ or a ‘first’ or ‘last’ spell. Note that the monthly spell system BIOMARSM starts with the month of the first personal interview, although the true beginning of this ‘first spell’ can easily be determined – at least annually – from the BIOMARSY file.

6 BIOBIRTH – A Data Set on the Birth Biography of Female Respondents (Version 2010)

by Joachim Frick and Christian Schmitt

6.1 Population and purpose of the data set BIOBIRTH

The file BIOBIRTH is based on every woman who has ever had at least one successful SOEP interview. For each of these women the data set BIOBIRTH documents the birth biography. The annual update focuses on including new information on giving-birth collected in the individual questionnaire or in the biographical questionnaire. Furthermore women who have been interviewed for the first time but who have no information on giving-birth yet are included. The latter are either new female household members or female teenagers who have reached the required minimum for a SOEP participation (16 years). For that reason BIOBIRTH can be described as an accumulative data set, in which the entire birth biography of all female SOEP respondents is presented. BIOBIRTH covers the following information:

- (1) sum, birth year and sex of the biological children of a woman up to the last date of interview¹¹
- (2) Person identifier (PERSNR) of the children – provided the child could be identified within the SOEP.

6.2 Structure of the data set

BIOBIRTH contains the following variables for all women:

- HHNR Invariable number of the original household
- PERSNR Invariable personal number of the woman
- BIOVALID Status of the birth biography:

(Attention! The variable BIOVALID has been altered in SOEP wave T (2003) containing 2 digit-information).

10: no birth biographical entries
(was code “o” in SOEP distribution 2002 and before).

¹¹ While the wave specific files \$KIND present the social, thus time-dependent, mother-child relationships for children aged 16 or younger in the household, BIOBIRTH documents only biological mother-child-relationships.

20: youth biography questionnaire completed, no children in biography (new code).

30: birth biography questionnaire completed, no children in biography (was code “2” in SOEP distribution 2002 and before).

31: birth biography questionnaire completed, one or more children in biography (was code “1” in SOEP distribution 2002 and before).

- BIOYEAR Year of the survey of the birth biography (1985ff.), respectively “-2” for women without information stemming from this special survey instrument.
- BIOAGE Age of the woman at the time of the birth biography survey. If no birth biographical information is available yet, the age at the very first survey is indicated.
- SUMKIDS Total number of children born (more precisely: total number of children identifiable within SOEP by merging all available data up to the time of the last observation (SUMKIDS=BIOKIDS+NEWKIDS)).
- BIOKIDS Total number of children identified through the birth biography. For women who haven’t filled in the birth biographical questionnaire yet, the code “-2” applies.
- NEWKIDS Total number of children identified through \$PBRUTTO or \$KIND.
- KIDGEB[N] Year of birth of the children (for the first child up to the fifteenth child).
- KIDSEX[N] Sex of the children (for the first child up to the fifteenth child).
- KIDPNR[N] Personal number of the children (for the first child up to the fifteenth child), in so far as it is identifiable in the SOEP.
- KIDMON[N] Month of birth of a child (for the first child up to the fifteenth child).

For the variables KIDGEB[N], KIDSEX[n], KIDPNR[n], and KIDMON[n] identical missing codes apply: The code “-2” is assigned if there’s no [n]th child found for this mother. The code “-1” applies if information about the [n]th child is found but information about the birth year or the sex is missing or the child could not be identified by a personal identifier (“persnr”) within the SOEP.

For every woman a maximum of 15 entries for children is provided, although the biography questionnaire enables only eight possible entries regarding birth

information. If there have been additional births up to the time the biography questionnaire is collected, they are recorded separately by the interviewer and are included in BIOBIRTH. The sequence of children within BIOBIRTH is recorded with regards to the age of the children. The oldest child is recorded under KIDPNR01 the second oldest under KIDPNR02 and so on. If the age is missing the lowest personal identifier applies.

6.3 Information basis of the birth biography

The main basis of the individual birth biography in BIOBIRTH is normally the information collected by the biography questionnaire¹², in which the number, birth year and sex of the biological children for every woman are collected. For women with information on children stemming from the biography questionnaire the BIOVALID code “31” is assigned. Women who completed this questionnaire but did not report on any births receive the code “30”. In addition, the variable BIOAGE contains the age at the time of the collection of the life history. Apart from this one-time collection within the scope of the first SOEP interview, there is no other possibility in SOEP to collect information on the number, the residence status, or if appropriate, the year of death of children who were born before the first SOEP interview.

A minority of women have no information from the biographical questionnaire due to several reasons¹³. In this cases the variable BIOVALID has the code “10” and the variable BIOAGE contains the age at the first time of SOEP interview. The group can be divided into different sub-populations and is in principle affected by the risk of underestimating the total number of births:

- Woman who were at the time of the first interview only 16 years old. In most cases these women participate at a later date in the biography survey. Thus, the mother-child relationship recorded earlier in BIOBIRTH can be checked later with the birth biography.
- Women who are 30 years old or younger at the first interview. In this sub-population, children are not yet adults and live in most cases in the parents' household. Since information from the biographical questionnaire is missing, a final distinction in social and biological children is not possible.

¹² The information collected over the course of the biography survey for every woman on the number, on the year of birth, on the sex, on the residence status within the household, and, if necessary, on the year of death of the biological children was stored up until 1995 in a biography data set which spanned the various waves (BIOLELA). Since 1996, this biographical information has been stored in wave specific files (\$LELA) Both BIOLELA as well as \$LELA belong to the files which have never been distributed to the SOEP-user community.

¹³ Beside the reason ‘refusal’, the collection date of the life history biographies differ among SOEP sub-samples.

- Women who are over 30 years old at the time of the first interview. Some of the children don't live any more in the parents' household at the time of the first interview and therefore they are not part of the survey population. For that reason the number of biological children might be underestimated in this group of women (over 30 years) to a larger extent compared to younger women.

6.4 A new source of biographical information – the youth questionnaire

From wave T onwards the data within BIOBIRTH includes information from a further biographical instrument: the youth biography. The youth-questionnaire has been in circulation since the year 2000 (wave Q) for all young adults, one year after they have reached the required age for completing the individual-questionnaire. Apart from exceptions described in table 1, this means the age of 17. What is important for the BIOBIRTH data-set is that these individuals who fill in the youth-questionnaire complete this questionnaire *instead* of the biographical questionnaire. The age groups which instead fill in the youth-questionnaire of the biographical module differ slightly among the SOEP-subsamples (table 1):

Table 1: Target population of the Youth Questionnaire by year, sample and age

sample	2000	2001	2002	2003 and later
A-E	17 years	17 years	17 years	17 years
F		17-19 years	17 years	17 years
G				17 years

The youth-biography does not contain any birth-biographical modules. Assuming that only very few women give birth before the age of 17 and that these few can be identified in the household context (as long as they remain within the SOEP) this does not pose any problems for compiling the birth-biography of the respondents. Nevertheless, a few changes to the BIOBIRTH data-set have to be outlined:

- In the variable BIOVALID a new code ("20": "youth biography questionnaire completed") is added. As the youth questionnaire doesn't contain any information about own children the addendum "no children in biography" is always added to the code "20".
- While calculating the age at the time of the biographical questionnaire (BIOAGE), the age upon completion of the youth questionnaire is applied.

- The variable BOKIDS always remains at zero as no biographical information on parenthood can be derived from the youth-biography (in this cases no missing code is applied in BOKIDS).

6.5 Identification process of the children in the SOEP data base

The starting point for the process of identifying children is the relationship of a household member to the head of the household (HH) (variable \$STELL in the file \$PBRUTTO). The variable \$STELL has the following codes:

Code Label

0	head of the household (HH)
1	spouse of HH
2	“life companion” of HH
3	daughter / son (including adopted/step-children) of HH
4	foster child of HH
5	daughter in law / son in law of HH
6	father / mother of HH
7	father in law / mother in law of HH
8	brother / sister / brother in law / sister in law of HH
9	grandchild of HH
10	other relation to HH
11	not related to HH
12	child of “life companion” of HH (included since 1999)

However, there are only certain combinations among household members in which a biological mother-child relationship among a female adult and another person can be assumed.

Potential mother-child relationships as a combination of the variable \$STELL

\$STELL of the		Potential mother-child relationship
woman	another person	In this case the person is the...
0	3	Child of reference person (reference person = head of he household)
1	3	Child of the wife of reference person
1	11	Child of the wife of reference person, but not child of reference person
1	12	
2	3	Child of “life companion” of reference person and of reference person
2	11	Child of “life companion” of reference person but not of reference person
2	12	
3	9	Child of daughter of reference person
4	9	Child of foster child of reference person
5	9	Child of daughter in law of reference person (3 generation household)
6	0	Child is reference person, lives with his mother in the same household
6	8	Child is the sister / brother of reference person, the siblings live with their mother in the same household
7	1	Child is spouse of reference person and lives together with spouse and mother in the same household
7	8	Child is daughter / son of the mother in law of reference person, but not the spouse of the reference person rather the sister in law / brother in law of reference person
8	10	Child is niece / nephew of reference person, mother is sister / sister in law of reference person
9	10	Child is another relation to reference person, great grandchild of reference person
10	10	Mother and child have another relation to reference person
11	11	Child and mother are in no way related to reference person

For the remaining unassigned children within a household a thorough check is performed to scan for mother-child ties that can be derived from more complex household relationships. It should be noted here that the larger the number of persons living in a household, the more complicated the relationships become among the individual household members. For that reason only the combination of the information from the biography questionnaire with the information from \$PBRUTTO (and in most cases the mother indicator \$KMUTTI from \$KIND) provides the most reliable definition of a biological mother-child relationship.

6.6 Identification of the children for women with biographical data

If one woman mentioned in the biography questionnaire the birth, the sex and the birth year of a child, the identification process has been started. In the first step, the

program identified the woman's relationship to the reference person and looked on the basis of the mother-child combination - as illustrated above- for a potential child in the household. If the birth year and the sex of this person are the same as named in the life history interview of the assumed mother, the person has been identified as the child of this woman. Since the majority of the households with children present small nuclear families including one potential mother, this kind of identification process was completely sufficient. In other, rather complex households a careful hand editing has been examined, in order to identify the 'right' child to the 'right' mother. The same has been done, if the sex or the important information – the year of birth - of a child mentioned in the biography questionnaire of a woman was missing.

In the case of a successful identification the variable KIDPNR[N] has been filled with the person identifier of this child. Children, for whom the woman in the biography questionnaire has reported that they were deceased or had moved out, were assigned the personal number (KIDPNR[N]) "-1", for missing information, in BIOBIRTH.

6.7 Identification of the children for women who have no biography data/ not completed the biography questionnaire

To get as close as possible to the definition of a biological child, for this group of women only, specific relationships among household members were allowed. Since the main important information – from the biography questionnaire - is missing, a careful analysis of the composition and the history of the household in which the children live has been examined, in order to assign the 'right' child to the 'right' mother.

Potential mother-child relationships as combination of the variable \$STELL

\$STELL of the		Potential mother-child relationship
woman	another person	In this case the person is the...
0	3	Child of reference person
1	3	Child of the wife of reference person
2	3	Child of "life companion" of reference person and of reference person
3	9	Child of daughter of reference person

6.8 Last step of the identification process

If a child is identified through the above described process and it was not yet old enough to be surveyed itself (under 16 years old) and lived at least in a partially realized household, an additional source of information is made available along with the data set \$KIND to check the relationship. For each person in this group (under 16 years old), there is an indicator for the mother (\$KMUTTI) containing the person identifier of the mother. Although this information does not necessarily indicate a biological mother-child relationship, at least the identification process for a large portion of the women could be checked or compared.

6.9 Updating BIOBIRTH

As mentioned in section 6.1 the annual update of the data set BIOBIRTH is examined with respect to two dimensions. First, updating the birth biography of the BIOBIRTH population and second, extending BIOBIRTH by new persons. The latter are either new female household members or female teenagers who have reached the required age for giving a first interview (16 years). Since the extension of BIOBIRTH follows the generation rules as described above, the following only summarizes the updating of the birth biography of the BIOBIRTH population.

New born children in the SOEP study are documented in the variable \$PZUG in the data set \$PBRUTTO:

Code	Label
11	Born since the last survey
17	Born before the last survey, but only now first mentioned
31	Born two years ago

For this group of new born persons the identification process starts this time in the reverse direction: While we have looked before for the children, now we are looking for the mothers.

Potential mother-child relationships as combination of the variable \$STELL

\$STELL of the		Potential mother-child relationship
woman	another person	In this case the person is the...
0	3 / 4	Child / foster child of reference person
1	3	Child / foster child of the wife of reference person
2	3	Child / foster child of the reference person's life's companion and of the reference person
2	11	Child / foster child of the reference person's life's companion, but not child of reference person
2	12	Child / foster child of the reference person's life's companion, but not child of reference person
3	9	Child of daughter of reference person
4	9	Child of foster child of reference person
5	9	Child of daughter in law of reference person
6	8	Child is sister / brother of reference person, the brothers and sisters live with their mother in the same household
7	8	Child is daughter / son of the mother in law of reference person, but not the spouse of the reference person rather the sister in law / brother in law of reference person
8	10	Child is niece / nephew of reference person, mother is sister / sister in law of reference person
9	10	Child is great grandchild of reference person, mother is granddaughter of reference person

Since new born children per definition could not be a reference person or a partner of the reference person, several \$STELL codes are excluded. Further combinations are excluded, in which the basis of a mother-child relationship could not have been identified with sufficient significance. Again, the majority of the households with children, in particular with small children, are nuclear households or lone parent households. For that reason this kind of identification process often yields in a successful identification of the new born children. Nevertheless, the mother indicator information (\$KMUTTI) from \$KIND was again drawn upon as a check.

An overview over central variables in the file BIOBIRTH (Version 2009 / up to Wave Z)

BIOVALID Status of the birth biography

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	10 No Birthbio. - No Kids from Bio.	3204	12,2	12,2	12,2
	20 Youthbio - No Kids from Bio.	1710	6,5	6,5	18,7
	30 Birthbio - No Kids from Bio.	8389	31,9	31,9	50,6
	31 Birthbio - Kids according to Bio.	13011	49,4	49,4	100,0
	Complete	26314	100,0	100,0	

BIOYEAR Year of the survey of the birth biography

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	-2 No Birth-Biography	3204	12,2	12,2	12,2
	1985	6619	25,2	25,2	37,3
	1986	83	,3	,3	37,6
	1987	104	,4	,4	38,0
	1988	220	,8	,8	38,9
	1989	211	,8	,8	39,7
	1990	202	,8	,8	40,4
	1991	161	,6	,6	41,1
	1992	2636	10,0	10,0	51,1
	1993	230	,9	,9	51,9
	1994	592	2,2	2,2	54,2
	1995	528	2,0	2,0	56,2
	1996	255	1,0	1,0	57,2
	1997	231	,9	,9	58,1
	1998	203	,8	,8	58,8
	1999	1033	3,9	3,9	62,7
	2000	243	,9	,9	63,7
	2001	4928	18,7	18,7	82,4
	2002	467	1,8	1,8	84,2
	2003	1321	5,0	5,0	89,2
	2004	410	1,6	1,6	90,8
	2005	329	1,3	1,3	92,0
	2006	268	1,0	1,0	93,0
	2007	1333	5,1	5,1	98,1
	2008	290	1,1	1,1	99,2
	2009	213	,8	,8	100,0
	Total	26314	100,0	100,0	

SUMKIDS Sum of kids in BIOBIRTH

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	,00	10241	38,9	38,9	38,9
	1,00	4995	19,0	19,0	57,9
	2,00	6877	26,1	26,1	84,0
	3,00	2685	10,2	10,2	94,2
	4,00	920	3,5	3,5	97,7
	5,00	327	1,2	1,2	99,0
	6,00	139	,5	,5	99,5
	7,00	60	,2	,2	99,7
	8,00	42	,2	,2	99,9
	9,00	13	,0	,0	99,9
	10,00	10	,0	,0	100,0
	11,00	1	,0	,0	100,0
	12,00	4	,0	,0	100,0
	Total	26314	100,0	100,0	

BIOKIDS Sum of kids derived from birth biography

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	-2	3204	12,2	12,2	12,2
	0	10099	38,4	38,4	50,6
	1	4117	15,6	15,6	66,2
	2	5452	20,7	20,7	86,9
	3	2159	8,2	8,2	95,1
	4	762	2,9	2,9	98,0
	5	278	1,1	1,1	99,1
	6	121	,5	,5	99,5
	7	56	,2	,2	99,7
	8	41	,2	,2	99,9
	9	14	,1	,1	100,0
	10	8	,0	,0	100,0
	11	1	,0	,0	100,0
	12	2	,0	,0	100,0
	Total	26314	100,0	100,0	

NEWKIDS Sum of kids identified through \$PBRUTTO

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	0	22299	84,7	84,7	84,7
	1	2215	8,4	8,4	93,2
	2	1362	5,2	5,2	98,3
	3	355	1,3	1,3	99,7
	4	66	,3	,3	99,9
	5	12	,0	,0	100,0
	6	4	,0	,0	100,0
	10	1	,0	,0	100,0
	Total	26314	100,0	100,0	

7 BIOBRTHM – The Birth Biography of Male Respondents in the SOEP (Version 2010)

by Christian Schmitt

7.1 Contents of the BIOBRTHM data-set

In the year 2001 a new biographical module was implemented in the SOEP. The birth-biography – up to then only available for women – was also collected from the men in the SOEP. The information is included in the file BIOBRTHM that was introduced to the family of SOEP biography data-sets in wave T (2003). This documentation deals with important features and limitations that are unique to BIOBRTHM data-set. The data-set BIOBRTHM – the birth biography of male respondents – contains the same set of variables as the initial BIOBIRTH file – the birth biography of female respondents. Refer to the documentation of the latter file for basic information, concerning the SOEP birth biography.

The variables are:

- HHNR Invariable number of the original household.
- PERSNR Invariable personal number of the man.
- BIOVALID Status of the birth biography:
 10: no birth biographical entries.
 20: youth biography questionnaire completed, no children in biography.
 30: birth biography questionnaire completed, no children in biography.
 31: birth biography questionnaire completed, one or more children in biography.
- BIOYEAR Year of the birth biography survey (2001ff.), respectively “-2” for men without information stemming from this special survey instrument.
- BIOAGE Age of the man at the time of the birth biography survey. If no birth biographical information is available yet, the age at the very first survey is indicated.
- SUMKIDS Total number of children born (more precisely: total number of children identifiable within SOEP by merging all available data up to the time of the last observation (SUMKIDS=BIOKIDS+NEWKIDS)).

- BOKIDS Total number of children identified through the birth biography. For men who haven't filled in the birth biographical questionnaire yet, the code "-2" applies.
- NEWKIDS Total number of children identified through \$PBRUTTO or \$KIND.
- KIDGEB[N] Children's year of birth (for the first child up to the fifteenth child).
- KIDSEX[N] Sex of the children (for the first child up to the fifteenth child).
- KIDPNR[N] Personal number of the children (for the first child up to the fifteenth child), as far as this person is identifiable in the SOEP.
- KIDMON[N] Month of birth for the children (for the first child up to the fifteenth child).

For the variables KIDGEB[N], KIDSEX[N], KIDPNR[N], and KIDMON[N] identical missing codes apply: The code "-2" is assigned if there's no [n]th child found for this mother. The code "-1" applies if information about the [n]th child is found, but information about the birth year or the sex is missing or the child could not be identified by a personal identifier ("persnr") within the SOEP.

For a complete overview of contents and construction of variables refer to the document "BIOBIRTH – A Data Set on the Birth Biography of Female Respondents"

7.2 Population of BIOBRTHM

Like the female birth-biography, the population of BIOBRTHM consists of all respondents of the relevant sex (here, all *male* respondents) with at least one personal interview up to the current wave. However, two features differentiate the male from the female birth-biography data:

- First: only information about men with at least one completed questionnaire *in 2001 or later* is contained in the BIOBIRTHM file.
- Second: information from the birth-biography will only be added for *new* Panel members in 2000 and later, as only these persons fill in a new biography interview (usually one wave after the first participation in the SOEP which in our case means in 2001 or later). Most of the members who have completed a questionnaire before 2000 have also already completed the biographical modules that are only collected once for every person.

The module collecting information about (non-) fatherhood was introduced in 2001. Therefore, most men in subsample "F" (which started in 2000) have completed the birth-biography as most of the biographical questionnaires are usually completed one

wave after the starting wave. For all the other men within BIOBRTHM, the information about fatherhood is underestimated as only the context of the household can be taken into account when considering the number of children (see the documentation of the file BIOBIRTH, 6.3 for the reasons of this underestimation and further details). Furthermore, this underestimation is more severe for men who did not complete the biographical questionnaire than it is for women as children remain more often with the mother than with the father after the split of a relationship.

7.3 Construction of variables - Particularities

The construction of variables for the data-set BIOBIRTHM mostly resembles the generation of variables within the BIOBIRTH file. The major difference affects information from the data-set \$KIND from which the mother-child-pointer (\$KMUTTI) is used when generating the birth-biography of women to link the right child to a given mother. For men such a pointer is not available. Therefore, the focus of variable construction remains on utilizing information from \$PBRUTTO where the household context is taken into account. For details of BIOBRTHM variable construction based on \$PBRUTTO please refer to the documentation of the file BIOBIRTH as the construction remains – besides the mentioned differences – identical.

An overview over central information in the file BIOTWIN (Version 2009 / Wave Z)

BIOVALID Status of the birth biography

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	10 No Birthbio. - No Kids from Bio.	8089	46,8	46,8	46,8
	20 Youthbio - No Kids from Bio.	1635	9,5	9,5	56,2
	30 Birthbio - No Kids from Bio.	2601	15,0	15,0	71,3
	31 Birthbio - Kids according to Bio.	4969	28,7	28,7	100,0
	Complete	17294	100,0	100,0	

BIOYEAR Year of the survey of the birth biography

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	-2 Keine Geburtsbio	8089	46,8	46,8	46,8
	2000	118	,7	,7	47,5
	2001	4501	26,0	26,0	73,5
	2002	432	2,5	2,5	76,0
	2003	1370	7,9	7,9	83,9
	2004	412	2,4	2,4	86,3
	2005	338	2,0	2,0	88,2
	2006	262	1,5	1,5	89,8
	2007	1243	7,2	7,2	96,9
	2008	304	1,8	1,8	98,7
	2009	225	1,3	1,3	100,0
	Total	17294	100,0	100,0	

SUMKIDS Sum of kids in BIOBRTHM

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	,00	8408	48,6	48,6	48,6
	1,00	3079	17,8	17,8	66,4
	2,00	3887	22,5	22,5	88,9
	3,00	1370	7,9	7,9	96,8
	4,00	387	2,2	2,2	99,1
	5,00	103	,6	,6	99,7
	6,00	36	,2	,2	99,9
	7,00	10	,1	,1	99,9
	8,00	9	,1	,1	100,0
	9,00	2	,0	,0	100,0
	10,00	1	,0	,0	100,0
	11,00	1	,0	,0	100,0
	12,00	1	,0	,0	100,0
	Total	17294	100,0	100,0	

BIOKIDS Sum of kids derived from birth biography

	Frequency	Percent	Val. Percent	Cum. Percent
Valid -2	8089	46,8	46,8	46,8
0	4236	24,5	24,5	71,3
1	1488	8,6	8,6	79,9
2	2246	13,0	13,0	92,9
3	856	4,9	4,9	97,8
4	256	1,5	1,5	99,3
5	76	,4	,4	99,7
6	28	,2	,2	99,9
7	8	,0	,0	99,9
8	9	,1	,1	100,0
9	2	,0	,0	100,0
Total	17294	100,0	100,0	

NEWKIDS Sum of kids identified through \$PBRUTTO

	Frequency	Percent	Val. Percent	Cum. Percent
Valid 0	13124	75,9	75,9	75,9
1	1956	11,3	11,3	87,2
2	1617	9,4	9,4	96,5
3	460	2,7	2,7	99,2
4	106	,6	,6	99,8
5	22	,1	,1	99,9
6	5	,0	,0	100,0
7	2	,0	,0	100,0
10	1	,0	,0	100,0
11	1	,0	,0	100,0
Total	17294	100,0	100,0	

8 BIOTWIN – Information on TWINS in the SOEP

by Christian Schmitt

8.1 Population and contents of the data set BIOTWIN

The file BIOTWIN contains all twins that were ever identified within the SOEP. To be classified as a twin, a person has to:

- have exactly the same age as his or her sibling,
- have a relationship to the head of the household that indicates that he or her and a second persons are siblings and
- has to have the identical mother (as far as a pointer to the mother is available).

Furthermore, it is not only twins that are recorded in the BIOTWIN data set, but also triplets or quadruple siblings. The following variables are stored within the BIOTWIN data set:

- HHNR Invariable number of the original household.
- PERSNR Invariable personal identifier of the first sibling .
- PNRTWIN Invariable personal identifier of the second sibling, the twin.
- PNRTRIP Invariable personal identifier of the third sibling.
- PNRQUAD Invariable personal identifier of the fourth sibling.
- PNRMOTH Pointer to the personal identifier of the mother of the twin-group.
- BIOMONoz Monozygotic group? Information if the group is monozygotic.
- INF SOURC Source of information from which the status of being a twin is derived

The central variable PERSNR is assigned to the sibling with the lowest personal identifier in the twin group. The PNRTWIN and – in rare cases if available – PNRTRIP or PNRQUAD contain the personal identifier of second, and third or fourth sibling in the group. This means that every case in the data set consists of a *group* of twins (or triplets or quadruplets). The code “-2” is assigned to PNRTRIP and/or PNRQUAD if a third or fourth twin sibling doesn’t exist. PERSNR and PNRTWIN however should always contain valid codes.

The variable PNRMOTH provides the link to the mother of the group and is derived from the data sets \$KIND and/or BIOBIRTH.

8.2 The twin survey of 2006

In 2006, a questionnaire was distributed among all households with potential twin groups, identified up till then. The aim was to validate that none of these twins had been identified by mistake. The variables INFOTWIN and BIOMONZO contain new information which was derived from this survey.

The result of the survey could widely validate the selection of the twin population, contained in the BIOTWIN data set of the SOEP. More than 80% of households with twins could be contacted and were interviewed in the twin survey. Among these only 3 groups of twins turned out to be identified erroneously (those false positives were removed from the BIOTWIN data set). Thus the algorithms of identifying twins within the SOEP could prove to be widely reliable. Additional information that was collected with the twin survey contributed to identifying a number of mothers of twins, for whom the mother-child-link was missing previously. Furthermore the twin survey provided additional information on monozygotic respectively dizygotic twins. The variable BIOMONZO was extended, in order to reflect this additional information (see below for more details).

8.3 Construction of variables in the data set BIOTWIN

The variable BIOMONZO14 indicates if the group is monozygotic. If the information could be validated in the twin-survey in 2006 the code is set to 1 for monozygotic twins and 2 for dizygotic twins. If the information on being mono- or dizygotic twins could not be validated in the twin survey, which was carried out in 2006, the code is set to 0 if the sex of all the siblings is identical, and this group thus might be monozygotic. Please pay attention to the fact that the labels and values of the variable BIOMONZO from wave W onwards are not consistent with values and labels from previous waves.

The variable INFOTWIN is introduced with wave W and provides information on the source from which the status of being a member of a twin group is derived from and whether this information could be validated in the twin-survey in 2006.

¹⁴ This variable existed before wave W but was restructured to reflect the additional information which became available with the 2006 twin questionnaire.

INFOTWIN can take the following characteristics:

- 1 Generated from identical number of household and month of birth – not validated by the twin survey from 2006
- 2 Possible Twin or Triplet – Information not revisable in twin survey 2006
- 3 Possible Twin or Triplet – Answer refused in twin survey 2006
- 4 Twin or Triplet – Information validated by twin survey 2006
- 5 Twin or Triplet – New since 2007
(congruent years & months of birth)
- 6 Twin or Triplet – New since 2007
(congruent years / missing info on months of birth)

The selection of twins within the SOEP, which compiles the data set BIOTWIN, is based on either the month of birth, or an identical year of birth. Priority is given to congruent months of birth, as a woman might – in rare cases – give birth at two different times in a year. Hence the month of birth plays a central role in identifying potential twin-groups. According to that logic people with a) valid month of birth information or b) identical month of birth, or c) with an identical year of birth *and* missing data on the month of birth among both siblings are classified as twins.

In a second step, the relationship of these potential twins to the head of household is scanned (\$STELL). If the relationship of both persons assures that they are siblings, then they are assumed to be twins.

In a third step the pointer to the mother is checked for both siblings with focus on the files \$KIND / BIOBIRTH. If this maternal link is identical for both siblings, it is transferred into the variable PNRMOTH.

An overview over central information in the file BIOTWIN (Version 2009 / Wave X)
(For an up-to-date version of these infos refer to <http://panel.gsoep.de/soepinfo>)

Table 1 Sibling groups in the BIOTWIN

group size		valid mother pointers
twins	246	229
triple	5	5
quadruple	-	-

BIOMONOZ Monozygotic or dizygotic siblings?

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	0 Possible Monozygotic	108	43,0	43,0	43,0
	1 Definite Monozygotic	23	9,2	9,2	52,2
	2 Definite dizygotic	120	47,8	47,8	100,0
	Complete	147	100,0	100,0	

INFOTWIN Status twin - Source of information?

		Frequency	Percent	Val. Percent	Cum. Percent
Valid	1 Generated from identical household and month of birth – not validated	7	2,8	2,8	2,8
	2 Possible Twin or Triplet – Information in survey 2006 not revisable	36	14,3	14,3	17,1
	3 Possible Twin or Triplet – In survey 2006 answer refused	1	,4	,4	17,5
	4 Twin or Triplet – Information in survey 2006 validated	97	38,6	38,6	56,2
	5 Twin or Triplet – New since 2007 (month & year)	10	4,0	4,0	60,2
	6 Twin or Triplet – New since 2007 (year & missing month)	100	39,8	39,8	100,0
	Complete	147	100,0	100,0	

9 BIOIMMIG: Generated and Status Variables from SOEP for Foreigners and Migrants (Version 2011)

by Jan Goebel and Anke Böckenhoff

9.1 Content

The variables contained in BIOIMMIG deal with questions related to foreigners in (and migrants to) Germany. Specifically, questions concerning desire to return to the home country, the presence of relatives in the home country, reasons for coming to Germany, and conditions upon initial arrival in Germany. A complete list of variables is shown in the table with German and English labels.

9.2 Status Variables and Carrying Forth of Information

The data available in this file are longitudinal, that is to say, the same variable name refers to different time periods, differentiated by the variable ERHEBJ. The data is stacked for each person, such that the unit of observation is a person-year. Thus for every person, there are as many observations as interviews given by this person. Much of the information was asked only once, and „carried“ forth in the following years. Frequencies can be found in SOEPINFO.

The sample in the dataset is defined by taking all available information and deleting all those persons who:

are born in Germany *and*

have German nationality *and*

have no valid BIOIMMIG information in any wave that they were observed.

As the data consists of person-year observations, if a person is excluded from the sample, then for all years. However if a person once belonged to the sample, then he is always included (say, even after receiving German citizenship).

List of Variables

Variable	German	English
PERSNR	Personennummer	Person Number
HHNR	Ursprüngliche HH-Nummer	Original HH Number
HHNRAKT	Aktuelle HH-Nummer für ERHEBJ	Current HH Number for ERHEBJ
ERHEBJ	Jahr/Erhebungsjahr	Current Year / Year Answered
BIIMGRP	BI: Status bei Einwanderung in Dt.	BI: Immigration Group
BIRESPER	BI: Status Aufenthaltserlaubnis	BI: Residence Status
BICAMP	BI: Aufnahmelager: J/N	BI: Refugee Residence Y/N
BICAMPW	BI: Aufnahmelager: Wochen	BI: Refugee Residence: Weeks
BICAMPM	BI: Aufnahmelager: Monate	BI: Refugee Residence: Months
BIWFAM	BI: Eingereist als Familienangehöriger	BI: Already had Family in Country
BIFAMC	BI: Vor Einreise Kontakte mit Pers.	BI: Contacts with Family in Germany
BIFAMCL	BI: Zuzug in Wohnort der Bekannten	BI: Moved to Same City/Town as Family
BIRBETR	BI: Gründe Zuzug D: Besser	BI: Reason Migrate: Better
BIRMONEY	BI: Gründe Zuzug D: Geld	BI: Reason Migrate: Money
BIRFREE	BI: Gründe Zuzug D: Freiheit	BI: Reason Migrate: Freedom
BIRFAM	BI: Gründe Zuzug D: Familie	BI: Reason Migrate: Family
BIRPOOR	BI: Gründe Zuzug D: Armut	BI: Reason Migrate: Poor
BIRWAR	BI: Gründe Zuzug D: Krieg	BI: Reason Migrate: War
BIRJUST	BI: Gründe Zuzug D: Einfach So	BI: Reason Migrate: Just So
BIROTHR	BI: Gründe Zuzug D: Sonstiges	BI: Reason Migrate: Other
BIEXPR	BI: Vorstellungen von Dt.	BI: Expectations in Germany
BIEXPLV	BI: Eigene Wohnung finden	BI: Expectations: Find Apt
BIEXPRAC	BI: Von Arbeitskollegen akzeptiert	BI: Expectations: Accepted by Coworker
BIEXPRAN	BI: Von Nachbarn akzeptiert	BI: Expectations: Accepted by Neighbor
BIRELH	BI: In Heimatland Familienmitglieder	BI: Family Abroad
BIRELHP	BI: In Heimat: Eltern	BI: Family Abroad: Parents
BIRELHGP	BI: In Heimat: Großeltern	BI: Family Abroad: Grandparents
BIRELHC	BI: In Heimat: Kinder	BI: Family Abroad: Children
BIRELHBS	BI: In Heimat: Bruder, Schwester	BI: Family Abroad: Brother/Sister
BIRELHDR	BI: In Heimat: Entferntere Verwandte	BI: Family Abroad: Distant Relatives
BIRELHSP	BI: In Heimat: Ehepartner, Verlobte(r)	BI: Family Abroad: Spouse
BIRELHFR	BI: In Heimat: Bekannte/Freunde	BI: Family Abroad: Friends
BIRELHMI	BI: Personen gern nach Dt. holen?	BI: Persons abroad bring to Germany
BIRELHS2	BI: Ehepartner in Deutschland	BI: Spouse in Germany
BIRELHC2	BI: Kinder unter 18 J. nicht in D	BI: Underage Children not in Germany
BIGOBACK	BI: Rückkehr Heimat (ab 1994)	BI: Go back home ?
BISTAY	BI: Wunsch in D zu bleiben	BI: Desire to Stay in Germany
BISTAYY	BI: Dauer des geplanten Aufenthalts	BI: Years Desired to Stay in Germany
BISCGER	BI: In Dt. Schule besucht?	BI: Attended School in Germany
BISCGRAD	BI: In welche Klasse in dt. Schule	BI: Which Grade School
BISCGERC	BI: Besuch spezieller Vorbereitung	BI: Attended Special Foreigner Prep Class
BISCGC	BI: Auch dt. Schüler in Schulklasse	BI: Also German Pupils in Class
BISCGCF	BI: Wie viel Mitschüler Ausländer	BI: How many Pupils foreign
BISCGCFN	BI: Eine oder mehrere Nationalität	BI: Mix of Nationalities in Class

9.3 Updating of Time-Dependent Information

The variables found in BIOIMMIG are created first using information from the SOEP biography files, the so-called BIOLELA, \$LELA (starting with wave M) files. Additionally, starting in 2000 (wave Q), \$JUGEND is collected of 16 and 17 year-olds, containing similar information to \$LELA. In any given year, a person can have only information from \$JUGEND or \$LELA, but not both. If valid information is found in the \$LELA or \$JUGEND files for the given response year, then it is taken. Yearly valid update information is taken from the foreigner specific files APAUSL through \$PAUSL and the foreigner specific questions in MP, NP, OP and onwards. Starting with wave M, the foreigner specific variables are found in the regular \$P files, as the questionnaire is identical for natives and foreigners. Sometimes there is competing information in the biography and regular yearly person questionnaires. The most recent valid information is taken to be correct. First the \$LELA or \$JUGEND info is used and then updated with valid/non-missing information from the person questionnaire.

9.4 Using this File

The BIOIMMIG file can be used in cross-section or in panel. The usual matching variables are included.: PERSNR (Person Number), HHNR (Original HH Number), HHNRAKT (Current HH Number for survey year given in ERHEBJ), ERHEBJ (Year). The data is sorted by HHNR, HHNRAKT, PERSNR, ERHEBJ such that there are typically many person-year observations for every person. In that sense, the data are ready to be used/matched to a longitudinal dataset. However, simply by selecting on the appropriate year in ERHEBJ, the file can be used cross-sectionally as well.

The data structure looks like the following (using fictitious data in this example):

PERSNR	HHNR	HHNRAKT	ERHBEBJ	BIIMGRP	BIRESPER
101	19	19	1995	-2	-2
101	19	19	1996	2	1
101	19	19	1997	2	1
101	19	19	1998	2	1
102	19	19	1995	3	2
102	19	19	1996	3	2
102	19	19	1997	3	2

9.4.1 Using BIOIMMIG as a Cross-Section

An example of how to use BIOIMMIG in a cross-section would be as follows:

- (A) Open BIOIMMIG, keeping only those observations in BIOIMMIG for a particular year.

```
in Stata: use bioimmig if erhebj==1984
```

- (B) Rename all the desired variables with wave-specific information.

```
in Stata:      rename bicamp camp1984
              rename bicampw campw1984
```

- (C) Save the ID's and the renamed variables in a temporary file

```
in Stata:      sort hhnr persnr
              save /tmp/bioim1984, replace
```

- (D) Merge the temporary file to your main dataset

```
in Stata:      merge hhnr persnr using /tmp/bioim1984, nokeep
              drop _merge
```

- (E) Repeat starting at step (A) for all years of interest, i.e. `erhebj==1985`

9.5 Documentation of the Variables

Below, each variable is listed and its variable and value labels are displayed in both English and German. A list of the main source variables used in the generation is provided for reference purposes. Further, there is also information as to what question the variables correspond to in the Wave 13 -M-1996 Biography Questionnaire.

Problems:

If you encounter problems using this file, first-aid is available from the original STATA source code used to create this file, delivered with the regular SOEP data distribution.

BIIMGRP BI: Status bei Einwanderung in Dt.
BI: Immigration Group

BIO Question: Q5

Comment: The possible groups change in 2000, such that "[1] East German" and "[5] Non EU" are no longer identified starting 2000. However, as information can be carried forth from previous years, there may be valid [1] and [3] values starting 2000, but only if the information was collected before 2000.

German: ***Zu welcher der folgenden Zuwanderergruppen gehörten Sie, als Sie nach Deutschland kamen ?***

"[1] Ostdeutsche (LT 2000) "
 "[2] Aussiedler "
 "[3] Deutscher, Ausland lebt "
 "[4] EG-Mitglied "
 "[5] Nicht EG (LT 2000)"
 "[6] Asylbewerber "
 "[7] Sonstige "

English: ***Which immigrant group did you belong to, when you came to Germany ?***

"[1] East German (LT 2000)"
 "[2] Ethnic German living in East Europe "
 "[3] German living abroad "
 "[4] EU Member "
 "[5] Non EU (LT 2000)"
 "[6] Asylum Seeker "
 "[7] Other "

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P070Z
1995 L	BIOLELA	P070Z
1996 M	MLELA	MB070Z
1997 N	NLELA	NB070Z
1998 O	OLELA	OB070Z
1999 P	PLELA	PB070Z
2000 Q	QLELA	QB070Z
2001 R	RLELA	RB070Z
2002 S	SLELA	SB05
2003 T	TLELA	TB05
2004 U	ULELA	UB05
2005 V	VLELA	VB05
2006 W	WLELA	WB05
2007 X	XLELA	XB05
2008 Y	YLELA	YB05
2009 Z	ZLELA	ZB05
2010 BA	BALELA	BAB05
2000 Q	QJUGEND	QJ57
2001 R	RJUGEND	RJ59
2002 S	SJUGEND	SJ59
2003 T	TJUGEND	TJ59
2004 U	UJUGEND	UJ59
2005 V	VJUGEND	VJ59
2006 W	WJUGEND	WJ64
2007 X	XJUGEND	XJ64
2008 Y	YJUGEND	YJ64
2009 Z	ZJUGEND	ZJ64
2010 BA	BAJUGEND	BAJ64

BIRESPER BI: Status Aufenthaltserlaubnis
BI: Residence Status

BIO Question: Q6

Comment: The possible groups change in 2000 in QLELA and QJUGEND, such that "[3] German Citizen" is included in the original question. German citizens for the purpose of this question have been recoded to -2 (does not apply). German citizenship is however recorded in NATION\$\$ in \$PGEN as usual.

German: *Haben Sie heute eine unbefristete Aufenthaltserlaubnis bzw. Aufenthaltsberechtigung oder haben Sie eine befristete Aufenthaltserlaubnis?*
"[1] Unbefristet "
"[2] Befristet "

English: *Do you right now have a permanent or temporary residence permit ?*
"[1] Permanent "
"[2] Limited "

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P080Z
1995 L	BIOLELA	P080Z
1996 M	MLELA	MB080Z
1997 N	NLELA	NB080Z
1998 O	OLELA	OB080Z
1999 P	PLELA	PB080Z
2000 Q	QLELA	QB080Z
2001 R	RLELA	RB080Z
2002 S	SLELA	SB06
2003 T	TLELA	TB06
2004 U	ULELA	UB06
2005 V	VLELA	VB06
2006 W	WLELA	WB06
2007 X	XLELA	XB06
2008 Y	YLELA	YB06
2009 Z	ZLELA	ZB06
2010 BA	BALELA	BAB06
2000 Q	QJUGEND	QJ58
2001 R	RJUGEND	RJ60
2002 S	SJUGEND	SJ60
2003 T	TJUGEND	TJ60
2004 U	UJUGEND	UJ60
2005 V	VJUGEND	VJ60
2006 W	WJUGEND	WJ69
2007 X	XJUGEND	XJ69
2008 Y	YJUGEND	YJ69
2009 Z	ZJUGEND	ZJ69
2010 BA	BAJUGEND	BAJ69

BICAMP BI: Aufnahmelager: J/N
BI: Refugee Residence Y/N

BIO Question: Q7a

German: *Haben Sie nach Ihrer Einreise zunächst in einem Aufnahmelager oder Übergangswohnheim gelebt ?*
"[1] Ja "
"[2] Nein "

English: *After you arrived in Germany, did you live in temporary refugee/immigrant housing or residence ?*
"[1] Yes "
"[2] No "

See also: BICAMP, BICAMPW, BICAMPM

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P090Z
1995 L	BIOLELA	P090Z
1996 M	MLELA	MB090Z
1997 N	NLELA	NB090Z
1998 O	OLELA	OB090Z
1999 P	PLELA	PB090Z
2000 Q	QLELA	QB090Z
2001 R	RLELA	RB090Z
2002 S	SLELA	SB0701
2003 T	TLELA	TB0701
2004 U	ULELA	UB0701
2005 V	VLELA	VB0701
2006 W	WLELA	WB0701
2007 X	XLELA	XB0701
2008 Y	YLELA	YB0701
2009 Z	ZLELA	ZB0701
2010 BA	BALELA	BAB0701
2000 Q	QJUGEND	QJ5901
2001 Q	RJUGEND	RJ6101
2002 S	SJUGEND	SJ6101
2003 T	TJUGEND	TJ6101
2004 U	UJUGEND	UJ6101
2005 V	VJUGEND	VJ6101
2006 W	WJUGEND	n/a
2007 X	XJUGEND	n/a
2008 Y	YJUGEND	n/a
2009 Z	ZJUGEND	n/a
2010 BA	BAJUGEND	n/a

BICAMPW BI: Aufnahmelager: Wochen
BI: Refugee Residence: Weeks

BIO Question: Q7b

German: *Aufnahmelager: Wenn Ja, für wie lange (Wochen) ?*

English: *Immigrant Residence: If so, then for how long (weeks)?*

See also: BICAMP, BICAMPW, BICAMPM

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P091Z
1995 L	BIOLELA	P091Z
1996 M	MLELA	MB091Z
1997 N	NLELA	NB091Z
1998 O	OLELA	OB091Z
1999 P	PLELA	PB091Z
2000 Q	QLELA	QB091Z
2001 R	RLELA	RB091Z
2002 S	SLELA	SB0702
2003 T	TLELA	TB0702
2004 U	ULELA	UB0702
2005 V	VLELA	VB0702
2006 W	WLELA	WB0702
2007 X	XLELA	XB0702
2008 Y	YLELA	YB0702
2009 Z	ZLELA	ZB0702
2010 BA	BALELA	BAB0702
2000 Q	QJUGEND	QJ5902
2001 R	RJUGEND	RJ6102
2002 S	SJUGEND	SJ6102
2003 T	TJUGEND	TJ6102
2004 U	UJUGEND	UJ6102
2005 V	VJUGEND	VJ6102
2006 W	WJUGEND	n/a
2007 X	XJUGEND	n/a
2008 Y	YJUGEND	n/a
2009 Z	ZJUGEND	n/a
2010 BA	BAJUGEND	n/a

BICAMPM BI: Aufnahmelager: Monate
BI: Refugee Residence: Months

BIO Question: Q7c

German: *Aufnahmelager: Wenn Ja, für wie lange (Monate) ?*

English: *Immigrant Residence: If so, then for how long (months)?*

See also: BICAMP, BICAMPW, BICAMPM

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P092Z
1995 L	BIOLELA	P092Z
1996 M	MLELA	MB092Z
1997 N	NLELA	NB092Z
1998 O	OLELA	OB092Z
1999 P	PLELA	PB092Z
2000 Q	QLELA	QB092Z
2001 R	RLELA	RB092Z
2002 S	SLELA	SB0703
2003 T	TLELA	TB0703
2004 U	ULELA	UB0703
2005 V	VLELA	VB0703
2006 W	WLELA	WB0703
2007 X	XLELA	XB0703
2008 Y	YLELA	YB0703
2009 Z	ZLELA	ZB0703
2010 BA	BALELA	BAB0703
2000 Q	QJUGEND	QJ5903
2001 R	RJUGEND	RJ6103
2002 S	SJUGEND	SJ6103
2003 T	TJUGEND	TJ6103
2004 U	UJUGEND	UJ6103
2005 V	VJUGEND	VJ6103
2006 W	WJUGEND	n/a
2007 X	XJUGEND	n/a
2008 Y	YJUGEND	n/a
2009 Z	ZJUGEND	n/a
2010 BA	BAJUGEND	n/a

BIWFAM BI: Eingereist als Familienangehöriger
BI: Already had Family in Country

BIO Question: Q8

German: *Als Sie einreisten, kamen Sie da als Familienangehöriger einer bereits in Deutschland lebenden Familie bzw. Person ?*
"[1] Ja "
"[2] Nein "

English: *When you immigrated to Germany, was (at least one) a member of your family already living in Germany ?*
"[1] Yes "
"[2] No "

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P100Z
1995 L	BIOLELA	P100Z
1996 M	MLELA	MB100Z
1997 N	NLELA	NB100Z
1998 O	OLELA	OB100Z
1999 P	PLELA	PB100Z
2000 Q	QLELA	QB100Z
2001 R	RLELA	RB100Z
2002 S	SLELA	SB08
2003 T	TLELA	TB08
2004 U	ULELA	UB08
2005 V	VLELA	VB08
2006 W	WLELA	WB08
2007 X	XLELA	XB08
2008 Y	YLELA	YB08
2009 Z	ZLELA	ZB08
2010 BA	BALELA	BAB08
2000 Q	QJUGEND	QJ60
2001 R	RJUGEND	RJ62
2002 S	SJUGEND	SJ62
2003 T	TJUGEND	TJ62
2004 U	UJUGEND	UJ62
2005 V	VJUGEND	VJ62
2006 W	WJUGEND	n/a
2007 X	XJUGEND	n/a
2008 Y	YJUGEND	n/a
2009 Z	ZJUGEND	n/a
2010 BA	BAJUGEND	n/a

BIFAMC BI: Vor Einreise Kontakte mit Pers.
BI: Contacts with Family in Germany

BIO Question: Q9

German: *Hatten Sie vor der Einreise überhaupt Kontakte zu Verwandten oder Bekannte in Deutschland, an die Sie sich wenden konnten ?*

"[1] Ja "

"[2] Nein "

English: *Before immigrating to Germany, did you have any contact with relatives or friends, who could possibly help you ?*

"[1] Yes "

"[2] No "

See also: BIFAMC, BIFAMCL

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P110Z
1995 L	BIOLELA	P110Z
1996 M	MLELA	MB110Z
1997 N	NLELA	NB110Z
1998 O	OLELA	OB110Z
1999 P	PLELA	PB110Z
2000 Q	QLELA	QB110Z
2001 R	RLELA	RB110Z
2002 S	SLELA	SB09
2003 T	TLELA	TB09
2004 U	ULELA	UB09
2005 V	VLELA	VB09
2006 W	WLELA	WB09
2007 X	XLELA	XB09
2008 Y	YLELA	YB09
2009 Z	ZLELA	ZB09
2010 BA	BALELA	BAB09
2000 Q	QJUGEND	QJ61
2001 R	RJUGEND	RJ63
2002 S	SJUGEND	SJ63
2003 T	TJUGEND	TJ63
2004 U	UJUGEND	UJ63
2005 V	VJUGEND	VJ63
2006 W	WJUGEND	n/a
2007 X	XJUGEND	n/a
2008 Y	YJUGEND	n/a
2009 Z	ZJUGEND	n/a
2010 BA	BAJUGEND	n/a

BIFAMCL BI: Zuzug in Wohnort der Bekannten
BI: Moved to Same City/Town as Family

BIO Question: Q10

German: *Sind Sie in den Ort in Deutschland gezogen, wo diese Verwandten bzw. Bekannten lebten ?*

"[1] Ja "

"[2] Nein "

English: *Did you move to the same town/city in Germany where these relatives or friends lived ?*

"[1] Yes "

"[2] No "

See also: BIFAMC, BIFAMCL

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P120Z
1995 L	BIOLELA	P120Z
1996 M	MLELA	MB120Z
1997 N	NLELA	NB120Z
1998 O	OLELA	OB120Z
1999 P	PLELA	PB120Z
2000 Q	QLELA	QB120Z
2001 R	RLELA	RB120Z
2002 S	SLELA	SB10
2003 T	TLELA	TB10
2004 U	ULELA	UB10
2005 V	VLELA	VB10
2006 W	WLELA	WB10
2007 X	XLELA	XB10
2008 Y	YLELA	YB10
2009 Z	ZLELA	ZB10
2010 BA	BALELA	BAB10
2000 Q	QJUGEND	QJ62
2001 R	RJUGEND	RJ64
2002 S	SJUGEND	SJ64
2003 T	TJUGEND	TJ64
2004 U	UJUGEND	UJ64
2005 V	VJUGEND	VJ64
2006 W	WJUGEND	n/a
2007 X	XJUGEND	n/a
2008 Y	YJUGEND	n/a
2009 Z	ZJUGEND	n/a
2010 BA	BAJUGEND	n/a

BIRBETR BI: Gruende Zuzug D: Besser
BI: Reason Migrate: Better

BIO Question: Q11a

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Es gibt ja unterschiedliche Gründe, nach Deutschland zu ziehen. Welche der folgenden Gründe spielten bei Ihnen eine Rolle ? -- Ich wollte ein besseres Leben haben: Besser wohnen, mehr kaufen können usw.*
"[1] Besseres Leben "

English: *There are many reasons to migrate to Germany. Did the following reason play a role ? -- I wanted a better life. Live better, to be able to buy more etc..*
"[1] Better Life "

See also: BIRBETR, BIRMONEY, BIRFREE, BIRFAM, BIRPOOR, BIRWAR, BIRJUST, BIROTHR

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P151Z
1995 L	BIOLELA	P151Z
1996 M	MLELA	MB151Z
1997 N	NLELA	NB151Z
1998 O	OLELA	OB151Z
1999 P	PLELA	PB151Z
2000 Q	QLELA	QB151Z
2001 R	RLELA	RB151Z
2002 S	SLELA	SB1401
2003 T	TLELA	TB1401
2004 U	ULELA	UB1401
2005 V	VLELA	VB1401
2006 W	WELA	WB1401
2007 X	XELA	XB1401
2008 Y	YELA	YB1401
2009 Z	ZELA	ZB1401
2010 BA	BAELA	BAB1401
2000 --	\$JUGEND	n/a

BIRMONEY BI: Gruende Zuzug D: Geld
BI: Reason Migrate: Money

BIO Question: Q11b

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Es gibt ja unterschiedliche Gründe, nach Deutschland zu ziehen. Welche der folgenden Gründe spielten bei Ihnen eine Rolle ? --Ich wollte arbeiten und Geld verdienen in Deutschland, um meine Familie zu unterstützen und Geld sparen.*
"[1] Geld verdienen "

English: *There are many reasons to migrate to Germany. Did the following reason play a role ? -- I wanted to work and earn money to support my family and save money.*
"[1] Earn money "

See also: BIRBETR, BIRMONEY, BIRFREE, BIRFAM, BIRPOOR, BIRWAR, BIRJUST, BIROTHR

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P152Z
1995 L	BIOLELA	P152Z
1996 M	MLELA	MB152Z
1997 N	NLELA	NB152Z
1998 O	OLELA	OB152Z
1999 P	PLELA	PB152Z
2000 Q	QLELA	QB152Z
2001 R	RLELA	RB152Z
2002 S	SLELA	SB140Z
2003 T	TLELA	TB140Z
2004 U	ULELA	UB140Z
2005 V	VLELA	VB140Z
2006 W	WLELA	WB140Z
2007 X	XLELA	XB140Z
2008 Y	YLELA	YB140Z
2009 Z	ZLELA	ZB140Z
2010 BA	BALELA	BAB140Z
2000 --	\$JUGEND	n/a

BIRFREE BI: Gruende Zuzug D: Freiheit
BI: Reason Migrate: Freedom

BIO Question: Q11C

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Es gibt ja unterschiedliche Gründe, nach Deutschland zu ziehen. Welche der folgenden Gründe spielten bei Ihnen eine Rolle ? -- Ich wollte in der Freiheit leben.*
"[1] In Freiheit leben "

English: *There are many reasons to migrate to Germany. Did the following reason play a role ? -- I wanted to live in freedom.*
"[1] Live in freedom "

See also: BIRBETR, BIRMONEY, BIRFREE, BIRFAM, BIRPOOR, BIRWAR, BIRJUST, BIROTHR

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P153Z
1995 L	BIOLELA	P153Z
1996 M	MLELA	MB153Z
1997 N	NLELA	NB153Z
1998 O	OLELA	OB153Z
1999 P	PLELA	PB153Z
2000 Q	QLELA	QB153Z
2001 R	RLELA	RB153Z
2002 S	SLELA	SB1403
2003 T	TLELA	TB1403
2004 U	ULELA	UB1403
2005 V	VLELA	VB1403
2006 W	WLELA	WB1403
2007 X	XLELA	XB1403
2008 Y	YLELA	YB1403
2009 Z	ZLELA	ZB1403
2010 BA	BALELA	BAB1403
2000 --	\$JUGEND	n/a

BIRFAM BI: Gruende Zuzug D: Familie
BI: Reason Migrate: Family

BIO Question: Q11d

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Es gibt ja unterschiedliche Gründe, nach Deutschland zu ziehen. Welche der folgenden Gründe spielten bei Ihnen eine Rolle ? -- Ich wollte mit meiner Familie zusammenleben (Ehepartner, Eltern, Kinder).*
"[1] Mit Familie zusammen "

English: *There are many reasons to migrate to Germany. Did the following reason play a role ? -- I wanted to be together with my family (spouse, parents, children).*
"[1] Live together with family "

See also: BIRBETR, BIRMONEY, BIRFREE, BIRFAM, BIRPOOR, BIRWAR, BIRJUST, BIROTHR

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P154Z
1995 L	BIOLELA	P154Z
1996 M	MLELA	MB154Z
1997 N	NLELA	NB154Z
1998 O	OLELA	OB154Z
1999 P	PLELA	PB154Z
2000 Q	QLELA	QB154Z
2001 R	RLELA	RB154Z
2002 S	SLELA	SB1404
2003 T	TLELA	TB1404
2004 U	ULELA	UB1404
2005 V	VLELA	VB1404
2006 W	WLELA	WB1404
2007 X	XLELA	XB1404
2008 Y	YLELA	YB1404
2009 Z	ZLELA	ZB1404
2010 BA	BALELA	BAB1404
2000 --	\$JUGEND	n/a

BIRPOOR BI: Gruende Zuzug D: Armut
BI: Reason Migrate: Poor

BIO Question: Q11e

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Es gibt ja unterschiedliche Gründe, nach Deutschland zu ziehen. Welche der folgenden Gründe spielten bei Ihnen eine Rolle ? -- In meinem Heimatland herrschte Not und Armut.*
"[1] Not/Armut in Heimat "

English: *There are many reasons to migrate to Germany. Did the following reason play a role ? -- In my native country there was poverty and hunger.*
"[1] Poverty/Hunger at home "

See also: BIRBETR, BIRMONEY, BIRFREE, BIRFAM, BIRPOOR, BIRWAR, BIRJUST, BIROTHR

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P155Z
1995 L	BIOLELA	P155Z
1996 M	MLELA	MB155Z
1997 N	NLELA	NB155Z
1998 O	OLELA	OB155Z
1999 P	PLELA	PB155Z
2000 Q	QLELA	QB155Z
2001 R	RLELA	RB155Z
2002 S	SLELA	SB1405
2003 T	TLELA	TB1405
2004 U	ULELA	UB1405
2005 V	VLELA	VB1405
2006 W	WLELA	WB1405
2007 X	XLELA	XB1405
2008 Y	YLELA	YB1405
2009 Z	ZLELA	ZB1405
2010 BA	BALELA	BAB1405
2000 --	\$JUGEND	n/a

BIRWAR BI: Gruende Zuzug D: Krieg
BI: Reason Migrate: War

BIO Question: Q11f

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Es gibt ja unterschiedliche Gründe, nach Deutschland zu ziehen. Welche der folgenden Gründe spielten bei Ihnen eine Rolle ? -- In meinem Heimatland konnte ich nicht in Sicherheit leben (Verfolgung, Krieg)*
"[1] Krieg in Heimat "

English: *There are many reasons to migrate to Germany. Did the following reason play a role ? -- In my native country I could not live safely (Oppression, War).*
"[1] War/Oppression at home "

See also: BIRBETR, BIRMONEY, BIRFREE, BIRFAM, BIRPOOR, BIRWAR, BIRJUST, BIROTHR

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P156Z
1995 L	BIOLELA	P156Z
1996 M	MLELA	MB156Z
1997 N	NLELA	NB156Z
1998 O	OLELA	OB156Z
1999 P	PLELA	PB156Z
2000 Q	QLELA	QB156Z
2001 R	RLELA	RB156Z
2002 S	SLELA	SB1406
2003 T	TLELA	TB1406
2004 U	ULELA	UB1406
2005 V	VLELA	VB1406
2006 W	WLELA	WB1406
2007 X	XLELA	XB1406
2008 Y	YLELA	YB1406
2009 Z	ZLELA	ZB1406
2010 BA	BALELA	BAB1406
2000 --	\$JUGEND	n/a

BIRJUST BI: Gruende Zuzug D: Einfach So
BI: Reason Migrate: Just So

BIO Question: Q11g

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Es gibt ja unterschiedliche Gründe, nach Deutschland zu ziehen. Welche der folgenden Gründe spielten bei Ihnen eine Rolle ? -- Ich wollte einfach in Deutschland leben.*
"[1] Einfach in D leben "

English: *There are many reasons to migrate to Germany. Did the following reason play a role ? -- I just wanted to live in Germany.*
"[1] Just wanted to live in Germany "

See also: BIRBETR, BIRMONEY, BIRFREE, BIRFAM, BIRPOOR, BIRWAR, BIRJUST, BIROTHR

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P157Z
1995 L	BIOLELA	P157Z
1996 M	MLELA	MB157Z
1997 N	NLELA	NB157Z
1998 O	OLELA	OB157Z
1999 P	PLELA	PB157Z
2000 Q	QLELA	QB157Z
2001 R	RLELA	RB157Z
2002 S	SLELA	SB1407
2003 T	TLELA	TB1407
2004 U	ULELA	UB1407
2005 V	VLELA	VB1407
2006 W	WLELA	WB1407
2007 X	XLELA	XB1407
2008 Y	YLELA	YB1407
2009 Z	ZLELA	ZB1407
2010 BA	BALELA	BAB1407
2000 --	\$JUGEND	n/a

BIROTHR BI: Gruende Zuzug D: Sonstiges
BI: Reason Migrate: Other

BIO Question: Q11h

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Es gibt ja unterschiedliche Gründe, nach Deutschland zu ziehen. Welche der folgenden Gründe spielten bei Ihnen eine Rolle ? -- Sonstige Gründe.*
"[1] Sonstige Gruende "

English: *There are many reasons to migrate to Germany. Did the following reason play a role ? -- Other reasons.*
"[1] Other reasons "

See also: BIRBETR, BIRMONEY, BIRFREE, BIRFAM, BIRPOOR, BIRWAR, BIRJUST, BIROTHR

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P158Z
1995 L	BIOLELA	P158Z
1996 M	MLELA	MB158Z
1997 N	NLELA	NB158Z
1998 O	OLELA	OB158Z
1999 P	PLELA	PB158Z
2000 Q	QLELA	QB158Z
2001 R	RLELA	RB158Z
2002 S	SLELA	SB1408
2003 T	TLELA	TB1408
2004 U	ULELA	UB1408
2005 V	VLELA	VB1408
2006 W	WLELA	WB1408
2007 X	XLELA	XB1408
2008 Y	YLELA	YB1408
2009 Z	ZLELA	ZB1408
2010 BA	BALELA	BAB1408
2000 --	\$JUGEND	n/a

BIEXPR BI: Vorstellungen von D realisiert
BI: Expectations in Germany

BIO Question: Q12

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Haben sich Ihre Vorstellungen, mit denen Sie nach Deutschland gekommen sind, im grossen und ganzen erfüllt?*

"[1] Ja "

"[2] Nur teilweise "

"[3] Nein, gar nicht "

English: *Have your original expectations of Germany been fulfilled ?*

"[1] Yes"

"[2] Only partially "

"[3] No, not at all "

See also: BIEXPR, BIEXPRLV, BIEXPRAC, BIEXPRAN

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P160Z
1995 L	BIOLELA	P160Z
1996 M	MLELA	MB160Z
1997 N	NLELA	NB160Z
1998 O	OLELA	OB160Z
1999 P	PLELA	PB160Z
2000 Q	QLELA	QB160Z
2001 R	RLELA	RB160Z
2002 S	SLELA	SB15
2003 T	TLELA	TB15
2004 U	ULELA	UB1501
2005 V	VLELA	VB1501
2006 W	WLELA	WB1501
2007 X	XLELA	XB1501
2008 Y	YLELA	YB1501
2009 Z	ZLELA	ZB1501
2010 BA	BALELA	BAB1501
2000 --	\$JUGEND	n/a

BIEXPRLV BI: Eigene Wohnung finden
BI: Expectations: Find Apt

BIO Question: Q13a

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Auf welchen Gebieten war es leichter oder schwerer, als sie vorher gedacht hatten ? -- Eine eigene Wohnung zu finden.*

"[1] Schwerer "

"[2] Wie erwartet "

"[3] Leichter "

"[4] TNZ "

English: *In which areas was it harder or easier than you expected ? -- to find your own apartment/housing.*

"[1] Harder"

"[2] Just as expected "

"[3] Easier "

"[4] Not applicable "

See also: BIEXPR, BIEXPRLV, BIEXPRAC, BIEXPRAN

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P171Z
1995 L	BIOLELA	P171Z
1996 M	MLELA	MB171Z
1997 N	NLELA	NB171Z
1998 O	OLELA	OB171Z
1999 P	PLELA	PB171Z
2000 Q	QLELA	QB171Z
2001 R	RLELA	RB171Z
2002 S	SLELA	SB1601
2003 T	TLELA	TB1601
2004 U	ULELA	UB1502
2005 V	VLELA	VB1502
2006 W	WLELA	WB1502
2007 X	XLELA	XB1502
2008 Y	YLELA	YB1502
2009 Z	ZLELA	ZB1502
2010 BA	BALELA	BAB1502
2000 --	\$JUGEND	n/a

BIEXPRAC BI: Von Arbeitskollegen akzeptiert
BI: Expectations: Accepted by Coworker

BIO Question: Q13b

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Auf welchen Gebieten war es leichter oder schwerer, als sie vorher gedacht hatten ? -- Von den Arbeitskollegen akzeptiert zu werden.*

"[1] Schwerer "

"[2] Wie erwartet "

"[3] Leichter "

"[4] TNZ "

English: *In which areas was it harder or easier than you expected ? -- to be accepted by your colleagues at work.*

"[1] Harder"

"[2] Just as expected "

"[3] Easier "

"[4] Not applicable "

See also: BIEXPR, BIEXPRLV, BIEXPRAC, BIEXPRAN

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P172Z
1995 L	BIOLELA	P172Z
1996 M	MLELA	MB172Z
1997 N	NLELA	NB172Z
1998 O	OLELA	OB172Z
1999 P	PLELA	PB172Z
2000 Q	QLELA	QB172Z
2001 R	RLELA	RB172Z
2002 S	SLELA	SB1602
2003 T	TLELA	TB1602
2004 U	ULELA	UB1503
2005 V	VLELA	VB1503
2006 W	WLELA	WB1503
2007 X	XLELA	XB1503
2008 Y	YLELA	YB1503
2009 Z	ZLELA	ZB1503
2010 BA	BALELA	BAB1503
2000 --	\$JUGEND	n/a

BIEXPRAN BI: Von Nachbarn akzeptiert
BI: Expectations: Accepted by Neighbor

BIO Question: Q13c

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Auf welchen Gebieten war es leichter oder schwerer, als sie vorher gedacht hatten ? -- Von den Nachbarn akzeptiert zu werden.*

"[1] Schwerer "

"[2] Wie erwartet "

"[3] Leichter "

"[4] TNZ "

English: *In which areas was it harder or easier than you expected ? -- To be accepted by your neighbors.*

"[1] Harder"

"[2] Just as expected "

"[3] Easier "

"[4] Not applicable "

See also: BIEXPR, BIEXPRLV, BIEXPRAC, BIEXPRAN

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P173Z
1995 L	BIOLELA	P173Z
1996 M	MLELA	MB173Z
1997 N	NLELA	NB173Z
1998 O	OLELA	OB173Z
1999 P	PLELA	PB173Z
2000 Q	QLELA	QB173Z
2001 R	RLELA	RB173Z
2002 S	SLELA	SB1603
2003 T	TLELA	TB1603
2004 U	ULELA	UB1504
2005 V	VLELA	VB1504
2006 W	WLELA	WB1504
2007 X	XLELA	XB1504
2008 Y	YLELA	YB1504
2009 Z	ZLELA	ZB1504
2010 BA	BALELA	BAB1504
2000 --	\$JUGEND	n/a

BIRELH BI: Familienmitglieder im Heimatland oder außerhalb Deutschlands
BI: Family in the home country or abroad

BIO Question: Q14

Comment: From 2001 onwards the variable is only identified by the parents in \$LELA and missing for \$JUGEND. A distinction between abroad and home country is not consistently possible over time.

German: *Haben Sie in dem Land, aus dem Sie kommen bzw. aus dem Ihre Familie kommt, noch Familienangehörige oder andere Ihnen nahstehende Menschen ?*

"[1] Ja "

"[2] Nein "

English: *Do you have family members or close friends in the home country you (or your family) come from ?*

"[1] Yes "

"[2] No "

See also: BIRELH, BIRELHP, BIRELHGP, BIRELHC, BIRELHBS, BIRELHDR, BIRELHSP, BIRELHFR, BIRELHMI

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P18Z
1995 L	BIOLELA	P18Z
1996 M	MLELA	MB18Z
1997 N	NLELA	NB18Z
1998 O	OLELA	OB18Z
1999 P	PLELA	PB18Z
2000 Q	QLELA	QB18Z
2001 R	RLELA	RB0703V RB0705M
2002 S	SLELA	SB2101 SB2102
2003 T	TLELA	TB2101 TB2102
2004 U	ULELA	UB2101 UB2102
2005 V	VLELA	VB2101 VB2102
2006 W	WLELA	WB2101 WB2102
2007 X	XLELA	XB2101 XB2102
2008 Y	YLELA	YB2101 YB2102
2009 Z	ZLELA	ZB2101 ZB2102
2010 BA	BALELA	BAB2101 BAB2102
2000 Q	QJUGEND	QJ66
2001 --	\$JUGEND	n/a

BIRELHP BI: Im Ausland: Eltern
BI: Family Abroad: Parents

BIO Question: Q15a

Comment: This variable is used to identify any relatives starting 2001 for \$LELA and missing for all \$JUGEND starting 2001.

German: *Personen in der Heimat: Was für Personen sind das? Eltern?*
"[1] Eltern "

English: *Persons in Native Country: Who are they? Parents?*
"[1] Parents "

See also: BIRELH, BIRELHP, BIRELHGP, BIRELHC, BIRELHBS, BIRELHDR, BIRELHSP, BIRELHFR, BIRELHMI, BIRELHS2, BIRELHC2, BIRELHSP, BIRELHC, BIRELHP

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P191Z
1995 L	BIOLELA	P191Z
1996 M	MLELA	MB191Z
1997 N	NLELA	NB191Z
1998 O	OLELA	OB191Z
1999 P	PLELA	PB191Z
2000 Q	QLELA	QB191Z
2001 R	RLELA	RB0703V RB0705M
2002 S	SLELA	SB2101 SB2102
2003 T	TLELA	TB2101 TB2102
2004 U	ULELA	UB2101 UB2102
2005 V	VLELA	VB2101 VB2102
2006 W	WLELA	WB2101 WB2102
2007 X	XLELA	XB2101 XB2102
2008 Y	YLELA	YB2101 YB2102
2009 Z	ZLELA	ZB2101 ZB2102
2010 BA	BALELA	BAB2101 BAB2102
2000 Q	QJUGEND	QJ6701
2001 --	\$JUGEND	n/a

BIRELHGP BI: In Heimat: Großeltern
BI: Family Abroad: Grandparents

BIO Question: Q15b

Comment: This variable is not defined for new entrants starting 2001 (R).

German: *Personen in der Heimat: Was für Personen sind das ?*
Großeltern ?
"[1] Großeltern "

English: *Persons in Native Country: Who are they ? Grandparents ?*
"[1] Grandparents "

See also: BIRELH, BIRELHP, BIRELHGP, BIRELHC, BIRELHBS, BIRELHDR, BIRELHSP, BIRELHFR, BIRELHMI

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P192Z
1995 L	BIOLELA	P192Z
1996 M	MLELA	MB192Z
1997 N	NLELA	NB192Z
1998 O	OLELA	OB192Z
1999 P	PLELA	PB192Z
2000 Q	QLELA	QB192Z
2001 --	\$LELA	n/a
2000 Q	QJUGEND	QJ6702
2001 --	\$JUGEND	n/a

BIRELHC	BI: In Heimat: Kinder BI: Family Abroad: Children
BIO Question:	Q15c
Comment:	This variable is not defined for new entrants starting 2001 (R).
German:	<i>Personen in der Heimat: Was für Personen sind das ? Kinder ?</i> "[1] Kinder "
English:	<i>Persons in Native Country: Who are they ? Children ?</i> "[1] Children "
See also:	BIRELH, BIRELHP, BIRELHGP, BIRELHC, BIRELHBS, BIRELHDR, BIRELHSP, BIRELHFR, BIRELHMI, BIRELHS2, BIRELHC2, BIRELHSP, BIRELHC, BIRELHP

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P193Z
1995 L	BIOLELA	P193Z
1996 M	MLELA	MB193Z
1997 N	NLELA	NB193Z
1998 O	OLELA	OB193Z
1999 P	PLELA	PB193Z
2000 Q	QLELA	QB193Z
2001 --	\$LELA	n/a
2000 Q	QJUGEND	QJ6703
2001 --	\$JUGEND	n/a

BIRELHBS BI: In Heimat: Bruder, Schwester
BI: Family Abroad: Brother/Sister

BIO Question: Q15d

Comment: This variable is not defined for new entrants starting 2001 (R).

German: *Personen in der Heimat: Was für Personen sind das ?*
Bruder/Schwester ?
"[1] Bruder/Schwester "

English: *Persons in Native Country: Who are they ? Brother/Sister ?*
"[1] Brother/Sister "

See also: BIRELH, BIRELHP, BIRELHGP, BIRELHC, BIRELHBS, BIRELHDR, BIRELHSP, BIRELHFR, BIRELHMI

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P194Z
1995 L	BIOLELA	P194Z
1996 M	MLELA	MB194Z
1997 N	NLELA	NB194Z
1998 O	OLELA	OB194Z
1999 P	PLELA	PB194Z
2000 Q	QLELA	QB194Z
2001 --	\$LELA	n/a
2000 Q	QJUGEND	QJ6704
2001 --	\$JUGEND	n/a

BIRELHDR BI: In Heimat: Entferntere Verwandte
BI: Family Abroad: Distant Relatives

BIO Question: Q15e

Comment: This variable is not defined for new entrants starting 2001 (R).

German: *Personen in der Heimat: Was für Personen sind das ?
Entferntere Verwandte ?*
"[1] Entferntere Verwandte "

English: *Persons in Native Country: Who are they ? Distant Relatives ?*
"[1] Distant Relatives "

See also: BIRELH, BIRELHP, BIRELHGP, BIRELHC, BIRELHBS, BIRELHDR, BIRELHSP,
BIRELHFR, BIRELHMI

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P195Z
1995 L	BIOLELA	P195Z
1996 M	MLELA	MB195Z
1997 N	NLELA	NB195Z
1998 O	OLELA	OB195Z
1999 P	PLELA	PB195Z
2000 Q	QLELA	QB195Z
2001 --	\$LELA	n/a
2000 Q	QJUGEND	QJ6705
2001 --	\$JUGEND	n/a

BIRELHSP BI: In Heimat: Ehepartner, Verlobte(r)
BI: Family Abroad: Spouse

BIO Question: Q15f

Comment: This variable is not defined for new entrants starting 2001 (R).

German: *Personen in der Heimat:*
Was für Personen sind das ? Ehepartner / Verlobte(r)?
"[1] Ehepartner/Verlobte(r) "

English: *Persons in Native Country: Who are they ? Spouse / Fiance(e)?*
"[1] Spouse/Fiance(e) "

See also: **BIRELH, BIRELHP, BIRELHGP, BIRELHC, BIRELHBS, BIRELHDR, BIRELHSP, BIRELHFR, BIRELHMI, BIRELHS2, BIRELHC2, BIRELHSP, BIRELHC, BIRELHP**

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P196Z
1995 L	BIOLELA	P196Z
1996 M	MLELA	MB196Z
1997 N	NLELA	NB196Z
1998 O	OLELA	OB196Z
1999 P	PLELA	PB196Z
2000 Q	QLELA	QB196Z
2001 --	\$LELA	n/a
2000 Q	QJUGEND	QJ6706
2001 --	\$JUGEND	n/a

BIRELHFR BI: In Heimat: Persoenliche Bekannte
BI: Family Abroad: Friends

BIO Question: Q15g

Comment: This variable is not defined for new entrants starting 2001 (R).

German: *Personen in der Heimat: Was für Personen sind das ? Bekannte, Freunde ?*
"[1] Persönliche Bekannte "

English: *Persons in Native Country: Who are they ? Friends ?*
"[1] Friends "

See also: BIRELH, BIRELHP, BIRELHGP, BIRELHC, BIRELHBS, BIRELHDR, BIRELHSP, BIRELHFR, BIRELHMI

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P197Z
1995 L	BIOLELA	P197Z
1996 M	MLELA	MB197Z
1997 N	NLELA	NB197Z
1998 O	OLELA	OB197Z
1999 P	PLELA	PB197Z
2000 Q	QLELA	QB197Z
2001 --	\$LELA	n/a
2000 Q	QJUGEND	QJ6707
2001 --	\$JUGEND	n/a

BIRELHMI BI: Personen gern nach Dt. holen?
BI: Persons abroad bring to Germany

BIO Question: Q16

Comment: This variable is not defined for new entrants starting 2001 (R).

German: *Personen in der Heimat: Gibt es darunter Personen, die auch nach Deutschland kommen wollen bzw. die Sie gerne nachholen möchten ?*

"[1] Ja "

"[2] Nein "

English: *Persons in Native Country: Among those mentioned above, do some want to come to Germany, or would you like them to come to Germany ?*

"[1] Yes "

"[2] No "

See also: BIRELH, BIRELHP, BIRELHGP, BIRELHC, BIRELHBS, BIRELHDR, BIRELHSP, BIRELHFR, BIRELHMI

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P200Z
1995 L	BIOLELA	P200Z
1996 M	MLELA	MB200Z
1997 N	NLELA	NB200Z
1998 O	OLELA	OB200Z
1999 P	PLELA	PB200Z
2000 Q	QLELA	QB200Z
2001 --	\$LELA	n/a
2000 Q	QJUGEND	QJ68
2001 --	\$JUGEND	n/a

BIRELHS2 BI: Ehepartner in Deutschland
BI: Spouse in Germany

BIO Question: Q15f

Comment: This variable is not defined for new entrants starting 1996 (M) and missing for all \$JUGEND.

German: *Lebt Ihr Ehepartner in Deutschland ?*
"[1] D hier im HH "
"[2] D nicht im HH "
"[3] Nicht in D "

English: *Does your spouse live in Germany ?*
"[1] Yes, here in the HH "
"[2] Yes, but NOT with me in HH "
"[3] Not in Germany "

See also: BIRELHS2, BIRELHC2, BIRELHSP, BIRELHC, BIRELHP

Year	File	Variable
1984 A	AP AUSL	AP58A02
1985 B	BPAUSL	n/a
1986 C	CP AUSL	CP90A01
1987 D	DPAUSL	DP92A01
1988 E	EPAUSL	EP85A01
1989 F	FPAUSL	FP102A01
1990 G	GPAUSL	GP102A01
1991 H	HP AUSL	HP102A01
1992 I	IPAUSL	IP102A01
1993 J	JPAUSL	JP102A01
1994 K	KPAUSL	KP102A01
1995 L	LPAUSL	LP110A01
1996 --	\$P	n/a
1984 --	BIOLELA	n/a
2000 --	\$JUGEND	n/a

BIRELHC2 BI: Kinder unter 18 J. nicht in Deutschland
BI: Underage Children not in Germany

BIO Question: Q15c

German: *Haben Sie Kinder unter 18 Jahren, die nicht in Deutschland leben ?*

"[1] Ja "

"[2] Nein "

English: *Do you have children under 18, who do not live in Germany ?*

"[1] Yes "

"[2] No "

See also: BIRELHS2, BIRELHC2, BIRELHSP, BIRELHC, BIRELHP

Year	File	Variable
1984 A	APAUSL	AP66A01
1985 B	BPAUSL	BP95A01
1986 C	CPAUSL	CP86A01
1987 D	DPAUSL	DP88A01
1988 E	EPAUSL	n/a
1989 F	FPAUSL	FP98A01
1990 G	GPAUSL	n/a
1991 H	HPAUSL	HP98A01
1992 I	IPAUSL	n/a
1993 J	JPAUSL	JP98A01
1994 K	KPAUSL	n/a
1995 L	LPAUSL	LP106A01
1996 M	MP	MP7406
1997 N	NP	NP111A04
1998 O	OP	n/a
1999 P	PP	PP12904
2000 --	\$PAUSL	n/a
1984- A-	BIOLELA	n/a
2000 --	\$JUGEND	n/a

BIGOBACK BI: Rueckkehr Heimat (ab 1994)
BI: Go back home ?

BIO Question: Q17

Comment: The question BIGOBACK (using BIOLELA) asks whether one intends to **return** home to the native country whereas BISTAY (using \$PAUSL) asks whether one intends to **stay** in Germany. The wording and the answer possibilities are different in both questions. Further, there is no particular reason to believe that the two variables even are consistent. Starting 2001, this is not defined for new entrants.

German: *Planen Sie selbst, in Ihr Herkunftsland wieder zurückzukehren ?*

"[1] Ja, ganz sicher "
"[2] Ja, wahrscheinlich "
"[3] Eher unwahrscheinlich "
"[4] Nein, sicher nicht "

English: *Are you planning to go back to live in your native country?*

"[1] Yes, certainly "
"[2] Yes, probably "
"[3] Probably not "
"[4] No, Certainly not "

See also: BIGOBACK, BISTAY, BISTAYY

Year	File	Variable
1984-93 A-J	BIOLELA	n/a
1994 K	BIOLELA	P230Z
1995 L	BIOLELA	P230Z
1996 M	MLELA	MB230Z
1997 N	NLELA	NB230Z
1998 O	OLELA	OB230Z
1999 P	PLELA	PB230Z
2000 Q	QLELA	QB230Z
2001 --	\$LELA	n/a
2000 Q	QJUGEND	QJ69
2001 --	\$JUGEND	n/a

BISTAY BI: Wunsch in D zu bleiben
BI: Desire to Stay in Germany

BIO Question: Q17

Comment: The question BIGOBACK (using BIOLELA) asks whether one intends to **return** home to the native country whereas BISTAY (using \$PAUSL) asks whether one intends to **stay** in Germany. The wording and the answer possibilities are different in both questions. Further, there is no particular reason to believe that the two variables even are consistent. This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: **Wie lange wollen Sie in Deutschland bleiben ?**
"[1] Kehre innerhalb eines Jahres zurück"
"[2] Einige Jahre und zwar ..."
"[3] Für immer in D bleiben "

English: **How long would you like to stay in Germany ?**
"[1] Go back within 12 months "
"[2] Several years, specifically ..."
"[3] Always stay in Germany "

See also: BIGOBACK, BISTAY, BISTAYY

Year	File	Variable
1984 A	APAUSL	AP67A01
1985 B	BPAUSL	BP96A01
1986 C	CPAUSL	CP87A01
1987 D	DPAUSL	DP89A01
1988 E	EPAUSL	EP77A01
1989 F	FPAUSL	FP99A01
1990 G	GPAUSL	GP96A01
1991 H	HPAUSL	HP99A01
1992 I	IPAUSL	IP99A01
1993 J	JPAUSL	JP99A01
1994 K	KPAUSL	KP96A01
1995 L	LPAUSL	LP107A01
1996 M	MP	MP101A01 MP100A
1997 N	NP	NP109A01 NP108A
1998 O	OP	OP11401 OP113
1999 P	PP	PP12601 PP125
2000 Q	QP	QP13401 QP133
2001 R	RP	RP12701 RP126
2002 S	SP	SP12601 SP125
2003 T	TP	TP13301 TP132
2004 U	UP	UP13501 UP134
2005 V	VP	VP14601 VP145
2006 W	WP	WP13601 WP135
2007 X	XP	XP14601 XP145
2008 Y	YP	YP14501 YP144
2009 Z	ZP	ZP14401 ZP143
2010 BA	BAP	BAP14601 BAP145
2000 --	\$JUGEND	n/a

BISTAYY BI: Dauer des geplanten Aufenthalts
BI: Years Desired to Stay in Germany

BIO Question: Q17

Comment: This variable is not defined for youths answering the \$JUGEND biography questionnaire.

German: *Wie lange wollen Sie in Deutschland bleiben ? Einige Jahre und zwar...*

English: *How long would you like to stay in Germany ? Several years, specifically ...*

See also: BIGOBACK, BISTAY, BISTAYY

Year	File	Variable
1984 A	APAUSL	AP67A02
1985 B	BPAUSL	BP96A02
1986 C	CPAUSL	CP87A02
1987 D	DPAUSL	DP89A02
1988 E	EPAUSL	EP77A02
1989 F	FPAUSL	FP99A02
1990 G	GPAUSL	GP96A02
1991 H	HPAUSL	HP99A02
1992 I	IPAUSL	IP99A02
1993 J	JPAUSL	JP99A02
1994 K	KPAUSL	KP96A02
1995 L	LPAUSL	LP107A02
1996 M	MP	MP101A02
1997 N	NP	NP109A02
1998 O	OP	OP11402
1999 P	PP	PP12602
2000 Q	QP	QP13402
2001 R	RP	RP12702
2002 S	SP	SP12602
2003 T	TP	TP13302
2004 U	UP	UP13502
2005 V	VP	VP14602
2006 W	WP	WP13602
2007 X	XP	XP14602
2008 Y	YP	YP14502
2009 Z	ZP	ZP14402
2010 BA	BAP	BAP14602
2000 --	\$JUGEND	n/a

BISCGER BI: In Dt. Schule besucht?
BI: Attended School in Germany

BIO Question: Q18

Comment: This question asks only if one has **ever** attended a (primary/secondary) school in Germany, but does **not** ask whether one received a certificate/diploma, such as the generated variable \$PSBIL in the file \$PGEN.

German: *Haben Sie in Deutschland eine Schule besucht?*
"[1] Ja"
"[2] Nein"

English: *Did you attend school in Germany?*
"[1] Yes"
"[2] No"

See also: BISCGER, BISCGRAD, BISCGERC, BISCGC, BISCGCF, BISCGCFN

Year	File	Variable
1984 A	APAUSL	AP06A01
1985 B	BPAUSL	BP100A01
1986 C	CPAUSL	CP100B01
1987 D	DPAUSL	DP97A01
1988 E	EPAUSL	EP90A01
1989 F	FPAUSL	FP107A
1990 G	GPAUSL	GP107A
1991 H	HPAUSL	HP107A
1992 I	IPAUSL	IP107A
1993 J	JPAUSL	JP107A
1984-93 A-J	BIOLELA	B46A
1994 K	BIOLELA	P280Z
1995 L	BIOLELA	P280Z
1996 M	MLELA	MB280Z
1997 N	NLELA	NB280Z
1998 O	OLELA	OB280Z
1999 P	PLELA	PB280Z
2000 Q	QLELA	QB280Z
2001 R	RLELA	RB280Z
2002 S	SLELA	SB11
2003 T	TLELA	TB11
2004 U	ULELA	UB11
2005 V	VLELA	VB11
2006 W	WLELA	WB11
2007 X	XLELA	XB11
2008 Y	YLELA	YB11
2009 Z	ZLELA	ZB11
2010 BA	BALELA	BAB11
2000 Q	QJUGEND	QJ63
2001 R	RJUGEND	RJ65
2002 S	SJUGEND	SJ65
2003 T	TJUGEND	TJ65
2004 U	UJUGEND	UJ65
2005 V	VJUGEND	VJ65
2006 --	\$JUGEND	n/a

BISCGRAD BI: In welche Klasse in dt. Schule
BI: Which Grade School

BIO Question: Q19

Comment: The question here is **not** on the highest schooling achieved , but rather what was the grade or class when one **first** came to Germany.

German: *In welche Klasse sind Sie in Deutschland in die Schule gekommen ?*

English: *Which class/grade did you attend when you came to Germany?*

See also: BISCGER, BISCGRAD, BISCGERC, BISCGC, BISCGCF, BISCGCFN

Year	File	Variable
1984 A	APAU SL	n/a
1985 B	BPAU SL	n/a
1986 C	CPAU SL	n/a
1987 D	DPAU SL	n/a
1988 E	EPAU SL	n/a
1989 F	FPAU SL	FP108A
1990 G	GPAU SL	GP108A
1991 H	HPAU SL	HP108A
1992 I	IPAU SL	IP108A
1993 J	JPAU SL	JP108A
1984-93 A-J	BIOLELA	B47A
1994 K	BIOLELA	P290Z
1995 L	BIOLELA	P290Z
1996 M	MLELA	MB290Z
1997 N	NLELA	NB290Z
1998 O	OLELA	OB290Z
1999 P	PLELA	PB290Z
2000 Q	QLELA	QB290Z
2001 R	RLELA	RB290Z
2002 S	SLELA	SB12
2003 T	TLELA	TB12
2004 U	ULELA	UB12
2005 V	VLELA	VB12
2006 W	WLELA	WB12
2007 X	XLELA	XB12
2008 Y	YLELA	YB12
2009 Z	ZLELA	ZB12
2010 BA	BALELA	BAB12
2000 Q	QJUGEND	QJ64
2001 R	RJUGEND	RJ6601
2002 S	SJUGEND	SJ6601
2003 T	TJUGEND	TJ6601
2004 U	UJUGEND	UJ6601
2005 V	VJUGEND	VJ6601
2006 --	\$JUGEND	n/a

BISCGERC BI: Besuch spezieller Vorbereitung
BI: Attended Special Foreigner Prep Class

BIO Question: Q20

German: *Haben Sie vorher eine spezielle Vorbereitungs-klasse für Ausländer in Deutschland besucht?*

"[1] Ja"

"[2] Nein"

English: *Did you attend a special preparation class for foreigners in Germany?*

"[1] Yes"

"[2] No"

See also: BISCGER, BISCGRAD, BISCGERC, BISCGC, BISCGCF, BISCGCFN

Year	File	Variable
1984 A	APAUSL	n/a
1985 B	BPAUSL	n/a
1986 C	CPAUSL	n/a
1987 D	DPAUSL	n/a
1988 E	EPAUSL	n/a
1989 F	FPAUSL	FP109A
1990 G	GPAUSL	GP109A
1991 H	HPAUSL	HP109A
1992 I	IPAUSL	IP109A
1993 J	JPAUSL	JP109A
1984-93 A-J	BIOLELA	B48A
1994 K	BIOLELA	P300Z
1995 L	BIOLELA	P300Z
1996 M	MLELA	MB48A
1997 N	NLELA	NB48A
1998 O	OLELA	OB48A
1999 P	PLELA	PB48A
2000 Q	QLELA	QB48A
2001 R	RLELA	RB48A
2002 S	SLELA	SB13
2003 T	TLELA	TB13
2004 U	ULELA	UB13
2005 V	VLELA	VB13
2006 W	WLELA	WB13
2007 X	XLELA	XB13
2008 Y	YLELA	YB13
2009 Z	ZLELA	ZB13
2010 BA	BALELA	BAB13
2000 Q	QJUGEND	QJ65
2001 R	RJUGEND	RJ6602
2002 S	SJUGEND	SJ6602
2003 T	TJUGEND	TJ6602
2004 U	UJUGEND	UJ6602
2005 V	VJUGEND	VJ6602
2006--	\$JUGEND	n/a

BISCGC	BI: Auch dt. Schueler in Schulklasse BI: Also German Pupils in Class
BIO Question:	Q21a
Comment:	This variable is not defined for new entrants starting 2000 (Q) and \$JUGEND.
German:	<i>Gab es in der Schulklasse, die Sie zuletzt in Deutschland besucht haben, auch deutsche Schüler?</i> "[1] Ja" "[2] Nein"
English:	<i>Were there also German children present in the class you last attended?</i> "[1] Yes" "[2] No"
See also:	BISCGER, BISCGRAD, BISCGERC, BISCGC, BISCGCF, BISCGCFN

Year	File	Variable
1984 A	APAUSL	n/a
1985 B	BPAUSL	n/a
1986 C	CPAUSL	n/a
1987 D	DPAUSL	n/a
1988 E	EPAUSL	n/a
1989 F	FPAUSL	FP110A01
1990 G	GPAUSL	GP110A01
1991 H	HPAUSL	HP110A01
1992 I	IPAUSL	IP110A01
1993 J	JPAUSL	JP110A01
1984-93 A-J	BIOLELA	B49A
1994 K	BIOLELA	B49A
1995 L	BIOLELA	B49A
1996 M	MLELA	MB49A
1997 N	NLELA	NB49A
1998 O	OLELA	OB49A
1999 P	PLELA	PB49A
2000 --	\$LELA	n/a
2000 --	\$JUGEND	n/a

BISCGCF BI: Wieviel Mitschueler Auslaender
BI: How many Pupils foreign

BIO Question: Q21b

German: *Wie viele Ihrer Mitschueler waren Auslaender?*

"[1] Die meisten"
"[2] Etwa 1/2"
"[3] Etwa 1/4"
"[4] Weniger als 1/4"
"[5] Ausser mir niemand"

English: *How many of your fellow students were foreigners ?*

"[1] Most of them"
"[2] Around 1/2"
"[3] Around 1/4"
"[4] Less than 1/4"
"[5] I was only one"

See also: BISCGER, BISCGRAD, BISCGERC, BISCGC, BISCGCF, BISCGCFN

Year	File	Variable
1984-88 A-E	\$PAUSL	n/a
1989 F	FPAUSL	FP110A02
1990 G	GPAUSL	GP110A02
1991 H	HPAUSL	HP110A02
1992 I	IPAUSL	IP110A02
1993 J	JPAUSL	JP110A02
1984-93 A-J	BIOLELA	B50A
1994 K	BIOLELA	B50A
1995 L	BIOLELA	B50A
1996 M	MLELA	MB50A
1997 N	NLELA	NB50A
1998 O	OLELA	OB50A
1999 P	PLELA	PB50A
2000 Q	QLELA	QB50A
2001 R	RLELA	RB50A
2002 S	SLELA	SB43
2003 T	TLELA	TB43
2004 U	ULELA	UB43
2005 V	VLELA	VB43
2006 W	WLELA	WB43
2007 X	XLELA	XB43
2008 Y	YLELA	YB43
2009 Z	ZLELA	ZB43
2010 BA	BALELA	BAB43
2000 Q	QJUGEND	n/a
2001 R	RJUGEND	RJ43
2002 S	SJUGEND	SJ43
2003 T	TJUGEND	TJ43
2004 U	UJUGEND	UJ43
2005 V	VJUGEND	VJ43
2006 W	WJUGEND	WJ45
2007 X	XJUGEND	XJ45
2008 Y	YJUGEND	YJ45
2009 Z	ZJUGEND	ZJ45
2010 BA	BAJUGEND	BAJ45

BISCGCFN BI: Eine oder mehrere Nationalitaet
BI: Mix of Nationalities in Class

BIO Question: Q21c

Comment: This variable is not defined for new entrants starting 2000 (Q) and \$JUGEND.

German: *Gab es in dieser Klasse nur Schüler Ihrer Nationalität oder waren verschieden Nationalitäten gemischt?*

"[1] Nur meine Nationalitaet "

"[2] Gemischt "

English: *Were there only children of your nationality, or were the nationalites mixed?*

"[1] Only my nationality"

"[2] Mixed "

See also: **BISCGER, BISCGRAD, BISCGERC, BISCGC, BISCGCF, BISCGCFN**

Year	File	Variable
1984 A	AP AUSL	n/a
1985 B	BPAUSL	n/a
1986 C	CPAUSL	n/a
1987 D	DPAUSL	n/a
1988 E	EPAUSL	n/a
1989 F	FPAUSL	FP110A03
1990 G	GPAUSL	GP110A03
1991 H	HPAUSL	HP110A03
1992 I	IPAUSL	IP110A03
1993 J	JPAUSL	JP110A03
1984-93 A-J	BIOLELA	B51A
1994 K	BIOLELA	B51A
1995 L	BIOLELA	B51A
1996 M	MLELA	MB51A
1997 N	NLELA	NB51A
1998 O	OLELA	OB51A
1999 P	PLELA	PB51A
2000 --	\$LELA	n/a
2000 --	\$JUGEND	n/a

10 BIOPAREN: Biography Information for the Parents of SOEP Respondents

by Daniel Schnitzlein, Anne Fromm, Sebastian Frischholz and Jürgen Schupp
(Replaces earlier versions by Verena Tobsch, Matthias Pollmann-Schult,
Charlotte Büchner, Katharina Mahne and Stefanie Lenuweit)

10.1 Content of the data file BIOPAREN

The goal of the data file BIOPAREN is to make the biography entries on the parents and on the social origin of the respondent available. In particular, this is information on the year of birth and death, the religious orientation, the education and career training of the parents, as well as the father's job and the regional mobility of the surveyed individual since childhood. This information is collected using the Biography Questionnaire, which every person receives who is accepted into SOEP. Since 2000, there has been an independent questionnaire in SOEP for the group of survey participants who are 16-17 years old and are being interviewed for the first time; with respect to the place of origin, this questionnaire is identical to the Biography Questionnaire (see chapter BIOYOUTH).

The information gained on the parents from the Biography and the Youth Questionnaires are referred to in the following as proxy entries. The proxy entries of the children¹⁵ for education, year of death and religious affiliations of the parents are indicated by attributes of the parents at the time of the survey. Information on the time of the survey is found in the variable BIOYEAR. Entries on the professional position and occupation of the father should, based on the way the questions in the Biography Questionnaire are formulated, reflect the situation when the respondent was 16 years old. Since 2000, we have also collected data on the mothers of respondents. The religious affiliation of the parents was first included in 1996 within the framework of the survey of biographical data for "new participants" in SOEP. In 2001, information on the nationality of the parents and the professional position as well as occupation of the mother at the age of 15 was added. In view of these extensions, no proxy-information exists for those persons surveyed who had filled out the Biography before the additions were made. Entries on the residency of the parents were asked in 1991, 1996, 2001 and 2006 in the Individual Questionnaire. The current version includes updated variables on the current place of residence of both the father and the mother (MAOTRAKT, VAORTAKT). Furthermore, the variables LIVING1 to LIVING8 indicate where the first 15 years of life were spent. The data file BIOPAREN contains only those persons with at

¹⁵ In the following the respondents are marked as children if they have completed the Biography / Youth Questionnaire and in doing so have provided information on their parents.

least one realized personal interview with biography information, as well as persons who, up to now, have exclusively filled out the Biography or Youth Questionnaire. Furthermore, the data file is supplemented every year with the newly surveyed persons. In order to make BIOPAREN more user friendly several variables were added to the data-set. The variables BIO, MALTER and VALTER were included in 2009. For the current data release we generated the variables MORIGIN and VORIGIN.

10.2 Inclusion of the Biography

In the third wave (1986) intergenerational aspects of the persons surveyed were included for the first time by means of a special group of questions in the Individual Questionnaire. This deals with statements made about the education or professional training of the parents, the parents' residency, and their year of birth and death. For Sample B, only the education, residency, year of birth and death of the parents were asked. In 1988 the complete collection of biography questions (history of labor force participation, marriage and family biography, career start, and social origin) were included in the Individual Questionnaire for individuals surveyed for the first time. At the same time, a follow-up survey was given to those participants who had not yet received all or part of this collection of questions. This survey was continued in this form each of the following years until 1991, when the separate Biography Questionnaire was introduced. Since 1994, the biography was collected using the Personal History Questionnaire ('Lebenslauf-Fragebogen'), a slightly modified version of the Biography Questionnaire.

The Biography was included in Sample C in the third survey wave, that is, in 1992. The biographies of the persons in Samples D1 and D2 were collected during the first survey in 1994 and 1995. In 1999 the biography was collected for Sample E. In 2001 the follow-up survey was completed for Sample F and was followed by Sample G (High-Income) in 2003. The retrospective data of the sample H was collected in 2007. In 2009 the new subsample I with valid interview data on about 2,500 adults was introduced. As a standard procedure, these new respondents do not fill in the biography questionnaire in order to reduce response burden in wave. This data have been integrated in 2010.

A more precise representation of the development of the instruments used to collect the Personal History, including the social origin, can be found in the introduction to this documentation.

10.3 Generating using BIOPAREN

The information available in BIOPAREN can be obtained in two different ways. On the one hand, BIOPAREN includes the children's proxy entries on the parents, and on the

other hand, it contains the direct entries from the parents. Every respondent is asked for information on the regional mobility of the children, as well as on the religious affiliation of the parents. However, information on the year of birth, as well as the education and occupational training of the parents, additional to the professional position and occupation of the father are not collected due to the filter command in the questionnaire when the parents (or the father) live in the same household as the child at the time of the survey. In this case, the direct entries of the parents are used. The parents can be identified by the household number and a certain combination of the \$STELL-Variable (relationship to head of household) between the child and parent (see below).

Variables in BIOPAREN

Population Basis: Surveyed persons taken from PPFAD for whom at least one interview had been completed up to 2010 as well as six additional persons who had only completed the Biography Questionnaire.

Event Number: 47.478

Waves: A-BA

Subsamples: A, B, C, D1, D2, E, F, G, H, I

Year of data collection	total event number	Samples								
		A	B	C	D	E	F	G	H	I
1984	1.682	1.079	603	0	0	0	0	0	0	0
1985	11.087	8.369	2.718	0	0	0	0	0	0	0
1986	501	355	146	0	0	0	0	0	0	0
1987	464	310	154	0	0	0	0	0	0	0
1988	380	245	135	0	0	0	0	0	0	0
1989	384	246	138	0	0	0	0	0	0	0
1990	4.811	221	139	4.451	0	0	0	0	0	0
1991	506	219	118	169	0	0	0	0	0	0
1992	497	202	142	153	0	0	0	0	0	0
1993	471	201	134	136	0	0	0	0	0	0
1994	930	213	97	148	4.72	0	0	0	0	0
1995	1.067	217	76	135	639	0	0	0	0	0
1996	483	214	88	144	37	0	0	0	0	0
1997	487	194	98	144	51	0	0	0	0	0
1998	419	192	65	127	35	0	0	0	0	0
1999	2.047	206	62	130	35	1.614	0	0	0	0
2000	455	168	60	146	35	46	0	0	0	0
2001	9.433	156	46	116	33	46	9.036	0	0	0
2002	836	150	38	117	42	50	439	0	0	0
2003	2.677	155	53	125	33	56	258	1.997	0	0
2004	807	145	50	134	26	26	281	145	0	0
2005	663	136	50	94	24	36	248	75	0	0
2006	529	115	30	92	16	36	170	70	0	0
2007	2.577	148	43	89	29	41	202	47	1.978	0
2008	594	122	35	48	11	24	162	44	148	0
2009	439	103	28	47	19	22	134	32	54	0
2010	2.252	97	21	41	8	17	108	35	34	1.819
total	47.478	14178	5.367	6.786	1.545	2.014	11038	2.445	2.214	1.819

Variables:

→ HHNR	Number of the original household
→ PERSNR	Personal number of the respondent (all persons)
→ VNR	Personal number of the father of the respondent
→ MNR	Personal number of the mother of the respondent
→ VGEBJ	Year of birth of the father
→ MGEBJ	Year of birth of the mother
→ VTODJ	Year of death of the father
→ MTODJ	Year of death of the mother
→ VAORT91	Residency of the father 1991 (Survey focus: family)
→ MAORT91	Residency of the mother 1991 (Survey focus: family)
→ VAORT96	Residency of the father 1996 (Survey focus: family)
→ MAORT96	Residency of the mother 1996 (Survey focus: family)
→ VAORT01	Residency of the father 2001 (Survey focus: family)
→ MAORT01	Residency of the mother 2001 (Survey focus: family)
→ VAORT06	Residency of the father 2006 (Survey focus: family)
→ MAORT06	Residency of the mother 2006 (Survey focus: family)
→ VSBIL	Education of the father
→ MSBIL	Education of the mother
→ VBBIL	Vocational training of the father
→ MBBIL	Vocational training of the mother
→ VSINFO	Origin of the information on father's education
→ MSINFO	Origin of the information on mother's education
→ VBINFO	Origin of the information on father's vocational training
→ MBINFO	Origin of the information on mother's vocational training
→ VRELI	Religious affiliation of the father
→ MRELI	Religious affiliation of the mother
→ VNAT	Nationality of the father
→ MNAT	Nationality of the mother
→ VBSTELL	Professional position of the father (when the respondent was 15 years old)
→ VBSINFO	Origin of the information on the professional position of the father
→ MBSTELL	Professional position of the mother (when the respondent was 15 years old)
→ MBSINFO	Origin of the information on the professional position of the mother
→ VISCO88	Professional occupation of the father (when the respondent was 15 years old)
→ MISCO88	Professional occupation of the mother (when the respondent was 15 years old)
→ VISEI	Prestige score of father – concept of Ganzeboom
→ MISEI	Prestige score of mother – concept of Ganzeboom
→ VMPS	Prestige score of father – Magnitude scale – Wegener
→ MMPS	Prestige score of mother – Magnitude scale – Wegener
→ VSIOPS	Prestige score of father – Treiman standard score
→ MSIOPS	Prestige score of mother – Treiman standard score

→ VEGP	Prestige score of father – Erikson – Goldthorpe class category
→ MEPG	Prestige score of mother – Erikson – Goldthorpe class category
→ VBKLAS	Occupational coding scheme father according German statistical office
→ MBKLAS	Occupational coding scheme mother according German statistical office
→ ORTKINDH	Place of childhood
→ ORTKIND1	Still lives in place of childhood?
→ ORTKIND2	Year moved out of parents' household (<i>since 2000 no longer collected</i>)
→ ORTKIND3	Still lives in parents' household (<i>since 2000 no longer collected</i>)
→ LIVING1	No. of years living with both parents
→ LIVING2	No. of years living alone with mother
→ LIVING3	No. of years living with mother and new partner of mother
→ LIVING4	No. of years living alone with father
→ LIVING5	No. of years living alone with father and new partner of father
→ LIVING6	No. of years living with other relatives
→ LIVING7	No. of years living with foster parents
→ LIVING8	No. of years living in youth center
→ VSTREIT	Conflict with father
→ MSTREIT	Conflict with mother
→ VAORTAKT	Father's place of residence
→ MAORTAKT	Mother's place of residence
→ BIOYEAR	Year of the Biography Survey
→ BIO	Origin of the information (Biography or Youth Questionnaire)
→ ALTER	Age of the respondents
→ VALTER	Age of the respondent's father
→ MALTER	Age of the respondent's mother
→ MORIGIN	Country of origin of the respondent's mother
→ VORIGIN	Country of origin of the respondent's father

A description of the characteristics of these variables can be viewed under SOEPinfo on the SOEP Website (<http://www.panel.gsoep.de/soepinfo2010/>). For all variables on the father's or mother's occupation, their professional position, their prestige score and industry codes, see the detailed documentation on value labels in the documentation of PGEN.

10.3.1 Steps for Generating from BIOPAREN

The information contained in BIOPAREN on the parents comes on the one hand from the children's proxy entries in the Biography Questionnaire or the Youth Questionnaire, and on the other hand, from the direct entries of the parents in the Individual Questionnaire. The children's proxy entries always have a higher priority than the direct entries of the parents. The direct entries are only used when the child, due to the filter command, skips the questions regarding the year of birth, the education and professional training of the parents, as well as the professional position and occupation of the father. According to the filter command, this information is not collected when the parents, or the father, lives in the same household as the child at the time of the survey. The resulting missing entries ("missings") are replaced with the direct entries of the parents. In order to use the parents' individual information, the personal ID (PERSNR) of the parents must be identified.

1. Variables with complete entries in the Biography Questionnaire

The following variables can be generated for all persons from the information collected in the Biography Questionnaire or the Youth Questionnaire: VTODJ, MTODJ, VRELI, MRELI, MNAT, VNAT, ORTKINDH, ORTKIND1, VSTREIT, MSTREIT

2. Variables with incomplete entries in the Biography Questionnaire or Youth Questionnaire

Due to the filter command, the children's proxy entries are only available for the following variables when the parents or one parent and the child do not live in the same household at the time of the survey: VGEBJ, MGEBJ, VSBIL, MSBIL, VBBIL, MBBIL. The children's proxy entries on professional position and occupation of the father (VBSTELL as well as VISCO88 and all prestige scores) are only available when the father and the child do not live in the same household at the time of the survey and if the father lived in Germany when the child was 16 years old. Since 2000, the same applies to the entries of the mother.

3. Generating the parents' personal number (MNR and VNR)

The variables listed in category 2. above can be generated for those respondents whose parents/father live in the same household only through the direct entries of the parents/father. To do this, the parents must be identified.

The personal ID of the parents (VNR and MNR) is generated in three steps. The steps are in the following order:

1. The parents of the respondent are identified by the relationship to the head of the household (\$STELL in \$BRUTTO). Here the first (oldest) entry has priority. Ideally, the children's parents are identified at the time of the first survey of the child, i.e., when the child is 16 years old. Furthermore, sometimes the social parents and not the biological parents are identified. This is because the concept of social parents comprise foster-parents and the biological parents.

2. The parents of the respondent are identified via the mother's ID (in file \$KMUTTI) as well as the mother's partner ID (\$KMUP) in \$KIND. By using these variables the "oldest" parents are identified. Ideally, these are the parents at the time the child is 16 years old (one year before the first survey).

3. The mother-PERSNR of the respondent can be identified in BIOBIRTH.

Steps 1. and 2. are aimed at identifying the parents that live in the household when the child is 16 years old, whereas through BIOBIRTH the biological mother can be identified. The personal number found using BIOBIRTH is compared to the identification steps described under (3.1) and (3.2), and any new personal numbers are incorporated.

4. Reasons for missing entries

The current version of the data set includes 108 interviewees who do not have a mother or father indicator, despite the parents having been identified. The reason for this is as follows:

In the generation file biogener2.sps, the information on the parents' years of birth from the Personal History Questionnaire is compared with that information given directly by the parents, provided that they have been identified. This leads to inconsistencies. At the moment there are 103 children who no longer live in the parental home and therefore provide proxy details on their parents. These proxy details always stand out in BIOPAREN and it was therefore decided to leave out the parent indicators for those children for whom the details on their parents' years of birth deviate by more than two years from those contained in PPFAD. However, all other variables for these parents are available.

PERSNR	VNR	MNR
22304	22306	
22305	22306	
66703	33603	
101504	101505	
164505	921504	
176504	918303	
209104	209105	
300703	176505	
309604	1056904	
309605	1082204	
318406	318408	
328303	1082204	
375103	1063506	
611204	611206	
611205	611206	
650706	650707	
651405	1192505	
660906	660902	
712103	712104	
734703	328305	
758604	758605	
781905	781906	
796703	796705	
797203	797204	
804203	804205	
826707	502304	
893903	893904	
914103	1060503	
1078103		1008502
1090207	1090203	
1140703	1002602	
1188803	280405	
1204904	916102	
1204905	916102	
2022702	2022703	
2028203	2306404	
2124805	2124802	
2134305	1168705	
2180804	2180807	
2203502	2203504	
2502803		2502801
2510103		2510105
2527603	2527601	
2563502	2563504	
2582603	2582604	

PERSNR	VNR	MNR
2756403	2756401	
2756404	2756401	
2800405	2800402	
2814102	2814103	
2840805	2840806	
2858104	2858102	
2991102	2991105	
2992203	2992201	
3042804	3042802	
3083903	3083902	
3189903	3189901	
3440503	3440504	
5002104	5002105	
5010204	5010205	
5022809	5022801	
5030307	5030301	
5030309	5030301	
5198703	5198705	
5401203	5401205	
5401204	5401205	
5409003		5409004
5506204	5506206	
5603803	5210602	
5604303	5053701	
7006203	7006204	
7234504	1126205	
8008603	8008602	
8008604	8008602	
8039403		8039402
8041703	8041702	
8108004	8108001	
8114403	8114401	
8137603	8137602	
8137604	8137602	
8158203	8158201	
8159103	8159101	
8159104		8159102
8212004	8212009	
8212005	8212009	
8214903		8214901
8215703	8215701	
8223403	8223401	
8225805	8225802	
8226403	8226401	
8233403	8233401	
8233404	8233401	
8245603	8245602	

PERSNR	VNR	MNR
8245604	8245602	
8245605	8245602	
8248603	8248602	
8509103		8509102
8629503		8629501
8648003		8648002
8682803	8682802	
8744903	8744901	
8879203	8879202	
8879204	8879202	
8988803	8988802	

4. Completing missing entries

Missing entries in the variables listed in (2), as well as missing entries on the year of birth and death of the parents, are completed with the corresponding direct entries of the parents in PPFAD as well as in \$PGEN. In generating the variables for education and professional training of the parents, as well as the professional position and occupation of the father, the corresponding, most recent information for the 16-year-olds surveyed for the first time is incorporated.

5. Updating BIOPAREN

Some variables of the persons already contained in BIOPAREN will be updated with new survey information, insofar as no valid values exist in BIOPAREN. These are: VSBIL, MSBIL, VBBIL, MBBIL, VSINFO, MSINFO, VBINFO, MBINFO. The variables VTODJ and MTODJ are updated as long as the father or the mother is part of the SOEP sample. Since 2003 we additionally use the annual proxy information of respondents about reported life events of the last year.

10.3.2 Identification of the Parents

Identification of the relationship to the head of household

The identification of the parents described above occurs first of all through the variable \$STELL (relationship to head of household). The combinations of the characteristics of the \$STELL-variable listed below describe the possible parent-child relationships for a parent and a child.

Characteristics of the variable \$STELL “relationship of the person to the head of the household”:

Code Label

0	HH
1	Marital partner of the HH
2	partner of the HH
3	Daughter/son (also adopted/stepchild) of the HH
4	Foster child of the HH
5	Daughter/son-in-law of the HH
6	Father/mother of the HH
7	Father/mother-in-law of the HH
8	Brother/sister, brother/sister-in-law of the HH
9	Grandchild of the HH
10	Other relationship to the HH
11	Not related to the HH
12	Daughter/son of the partner of the HH

Possible Parent-Child Relationships

Relationship of the child to the HH	Relationship of the parent to the HH	Person is ...
3	0	Child of HH
3	1 / 2	Child of marital/ partner of HH
4	0	Foster child of HH
4	1 / 2	Foster child of marital/ partner of HH
12	2	Child of partner of HH
9	3 / 4	Child of child/foster child of HH
0	6	Child is HH, lives with parents in same household
1 / 2	7	Marital partner/partner of HH (child of in laws of HH)
9	5	Grandchild of HH (child of son/daughter-in-law of HH)

Identification by means of the Mother ID / Partner of the Mother ID from \$KIND

The population of the file \$KIND includes all children under the age of 16. The file contains the personal number of the mother (\$KMUTTI), as well as the personal number of the partner of the mother (\$KMUP). Through both variables the latest mother, as well as the latest partner of the mother are identified, ideally, at the time when the child is 16 years old and thus one year before the first survey of the child.

Identifying the Mother (the Parents) using BIOBIRTH

In a further step the biological mother is identified through the mother-child relationship in the file BIOBIRTH. In the event that still no personal number for the mother exists, the number from BIOBIRTH is used. Since 2001, an extra BIOBIRTH data-set exists for fathers (BIOBRTHM), which provides a new way of identifying fathers of SOEP-respondents. While it cannot be stated definitively that these pointers link to biological or social fathers, experience shows that the number of cases identified through the parent-child relationship in BIOBIRTH is low. In the current update, all parents were identified using \$STELL and \$KIND.

10.4 Updating

Accepting new survey participants occurs with the help of the collation of the data from the corresponding biographical entries and the individual entries by identifying the parents in SOEP. This updating depends on the process described for generating the “parent-specific” data.

For parents who are already contained in the data file BIOPAREN and are identified with a personal number, an update of the year of death occurs every year if they have passed away during the term of the SOEP.

10.5 Correction and adaption in the current version

In the current wave some major data retrievals concerning the variables MNR, VNR, MRELI; VRELI, MNAT, VNAT, MTODJ, VTODJ were made.

Correction of Missing Entries for the Parents' Personal Numbers (MNR, VNR):

In wave BA a correction concerning the STELL-variables was made. Since 2006 (wave W) the identifier for the foster-parents from the Youth 'Questionnaire was not correctly used at the generating process of the parents personal numbers. This led to missing entries for the personal numbers of the fathers (VNR) and mothers (MNR).

Correction of the Information on the Parents' Religion and Nationality (MRELI, VRELI, MNAT, VNAT):

Furthermore, there was an update on the information of the parents' religion and nationality. According to this Documentation (see Chapter 10.3.1) the variables VRELI, MRELI, VNAT and MNAT are questioned to every participant. The filter in the Youth Questionnaire differs from that. So these questions are only asked to youngsters who are not living in the household of their parents. In order to provide as much information as possible we gather data from the Person Questionnaires.

The reconstruction of the information on the parents' religion is restricted to the survey years 1997, 2003 and 2007 as they are the only years where information of a respondent's religious affiliation is available. In all survey years the question was formulated differently but the information is made as consistent as possible.

In the case of the reconstruction of the parents' nationality we used data from the \$PGEN-files. As the data is collected annually it is possible to reconstruct the nationality from 2001 onwards.

Correction of the Information on the Parents' Year of Death (MTODJ, VTODJ):

As noted in step 5 of the generating process of BIOPAREN (see 10.3.1) annual proxy information of the respondents reported life events of the last year are additionally used since 2003. This was not the case for the variables VTODJ and MTODJ until the

wave 2009. Therefore the information on the parents' year of death was made more accurate.

The variables are generated as usual using the information from the Youth Questionnaire or the Biography Questionnaire and the parents' direct-entries from PPFAD. As a next step the annual proxy information on a parent's death from the \$P-files are used. Furthermore we use information of the month of death of a parent from the year before. That means we have information on the death of a father or a mother for the years 2002 onwards. With this data a wrong marking as "no death in 2002" / "death in 2003" can be corrected if there is data from 2003 indicating that one parent died e.g. in October 2002. The lower case numbers for the current wave can be explained by the fact that due to the date of the interview only part of the annual information is available. With data from the following wave this information gap will be filled up.

10.6 New Variables in BIOPAREN as of data release (2006, up to wave U): VAORTAKT/MAORTAKT and VAORTUP/MAORTUP

The variables VAORTAKT and MAORTAKT contain the latest available information about the parents' residence and on whether or not they are deceased, respectively. These variables were generated using the information from VAORT91, VAORT96, VAORT01, VAORT06 (accordingly: MAORT91, MAORT96, MAORT01, MAORT06) and data concerning the year of death of those whose parents are identified by a personal identification number.

For persons without identified parents who answered the biography questionnaire up to the year 2006, the most recent available information from the Person Questionnaire in 1991, 1996, 2001 or 2006 was assumed.

For those persons whose parents are identified in the SOEP, the information on the year of death in PPFAD was used for updating. If the year of death lies chronologically after the latest available information, VAORTAKT and MAORTAKT were put on "deceased".

In gathering the information from different data sets, inconsistencies occurred. On the one hand, some parents had been reported as deceased in the early waves, while information about their residence at a later date was available. In this case, the information about the parents' residence was not accepted.

The variables VAORTUP and MAORTUP give the year of updating.

10.7 New Variables in BIOPAREN as of data release (2008):

BIO, ALTER, VALTER and MALTER:

Since 2008 four new variables were added to BIOPAREN: BIO, ALTER, VALTER and MALTER.

The variable BIO is generated for all cases from 2001 onwards. This variable is considered as an indicator to document whether the information in the BIOPAREN data set is gained from \$LELA or \$JUGEND (Biography Questionnaire or the Youth Questionnaire).

The variable ALTER gives the age of the respondent at the moment of the interview. VALTER gives the age of the respondents' father when the respondent answered the Biography Questionnaire or the Youth Questionnaire. The same was applied for the mothers with the variable MALTER. In order to generate the variables the information for the parents who are identified in the SOEP was gained with data from PPFAD. The proxy entries from BIOPAREN were used when there weren't any information of the respondents parents available. If the year of death lies chronologically before the latest available information, MALTER and VALTER were put on "deceased".

10.8 New Variables in BIOPAREN as of data release (2010):

MORIGIN, VORIGIN

The new data release includes two more variables: MORIGIN and VORIGIN. These variables give information about the country of origin of the respondents mother (MORIGIN) and father (VORIGIN). This information is collected in the Youth Questionnaires since 2007. Another source of information can be found in PPFAD by the direct-entries of the parents in the variable CORIGIN. These two kinds of information, proxy- and direct-entries, are used to generate MORIGIN and VORIGIN. In a first step we use the proxy-information for all the parents whose children made an entry in the Youth Questionnaire. For all the parents where there are no proxy-information available, we then try to use the direct-entries of the parents from the PPFAD-variable CORIGIN.

11 BIOSOC: Retrospective Data on Youth and Socialization

by Henning Lohmann, Marco Giesselmann *and* Sven Witzke

(Replaces earlier versions by Jürgen Schupp and Michael Frühling / Bettina Isengard and Thorsten Schneider)

The standard supplementary Biography Questionnaire was expanded in 2000, and again in 2001 to include some specific questions on youth and early adulthood. Some of these questions are derived from the independent Youth Questionnaire (for detailed information on this questionnaire, see chapter 13). The expanded questionnaire asks respondents of all ages to describe aspects of their life at the age of 15, including their relationship with parents, grades in school, the federal state where they last attained educational qualifications, detailed information on vocational qualifications, as well as intentions to complete further education or vocational training (the latter questions were relevant mainly to younger respondents). Questions concerning military and alternative services are also included in this data set.

As these questions are a part of the standard Biography Questionnaire, they are only asked once. Some of these questions can, however, be followed up by the regular data collected in the Individual Questionnaire. For example, if someone was too young to have completed his military service when the Biography Questionnaire was conducted, the user can look at the data set ARTKALEN in later years, where labour force participation is recorded on a monthly basis. Here one can find out if somebody was doing military service at the time or not.

The data set BIOSOC contains information on 17,719 persons, of whom 8,819 stem from the year 2001. The reason for this is that the Biography Questionnaire was directed to sample F, as this was its second survey year. Consequently, the majority of the persons in this data set belong to sample F (54%) or the samples which were included in more recent years (sample G, H and I).

Table 1: Survey Year in BIOSOC

survey year	frequency	percent
2000	246	1.39
2001	8,819	49.77
2002	552	3.12
2003	2,328	13.14
2004	450	2.54
2005	299	1.69
2006	223	1.26
2007	2,232	12.60
2008	336	1.90
2009	196	1.11
2010	2,038	11.50
Total	17,719	100

Status: up to wave BA (2010)

Table 2: Samples in BIOSOC

sample	frequency	percent
A: Germans (west)	768	4.33
B: Foreigners (west)	225	1.27
C: Germans (east)	546	3.08
D: Immigrants 1984-1993	111	0.63
E: Supplement 1998	236	1.33
F : Innovation 2000	9,641	54.41
G : High-Income 2002	2,201	12.42
H: Supplement 2006	2,121	11.97
I: Incentivation 2009	1,870	10.55

Status: up to wave BA (2010)

11.1 Structure of the Data Set BIOSOC

Respondents are given the Biography Questionnaire only once in a lifetime. Some of the information stored in the new data set BIOSOC is invariant (such as the relationship to parents at the age of 15) or is not surveyed to such an extent in the regular questionnaire (such as last school grades). Consequently there is only one record for each person and updates are not intended for this data set. The variable ERHEBJ makes it possible to quickly identify the year of the survey. Using the variable BSGEBJAH, which contains the year of birth, the user can determine the respondent's age. If the respondent is of a certain age, one can assume that some of the variables are constant. This applies to variables such as last school grades or military service.

In Table 3 (at the end of the chapter) all variables of the data set BIOSOC are listed. The first column contains the name of the variable, the second a brief specification of its content. The third column contains the number of the question as it appears in the Biography Questionnaire of wave Q (2000). Here, a minus sign means that the variable is not available in a given year and a question number in parenthesis indicates limited comparability. The fourth column contains the number of question in waves R to BA (2001-2010). As one can see, all listed questions were asked in the year 2001. In the last column the corresponding variable in the BIOAGE17 dataset is given, if available.

11.2 Special Features of Some Questions and Variables

The interviewees were asked if they did sports in their youth. If they answered in the affirmative, they were asked to include the sport they participated in most. This information was re-coded to a numeric variable and categorised. Some categories could easily be coded, such as soccer, whereas for others this was not possible. For users interested in specific research questions on sports in youth, the original plain text answers can be provided upon request.

Individuals were asked: "When was the last year you attended school?" (Question 37). If they were still attending school, they had the opportunity to report that they were students. Unfortunately in the years 2001 to 2003, individuals who reported being students or who did not provide any answer to this question skipped over numerous questions due to the questionnaire design. Consequently, for these individuals there is no information on the number of foreign classmates¹⁶, on the school degree aspired to, or planned vocational qualifications. Their record also lacks information on past

¹⁶ Most persons with no valid information on foreign classmates are not students but individuals who finished school abroad. This is because the question only targets those in German schools.

vocational qualifications. However, this should prove less problematic since most of the students were enrolled in regular school programs throughout the entire time.

Table 3: Description of the data set BIOSOC

Variable Name	Content of the Variable	Number of Question in Biography Questionnaire 2000 ¹⁷	Number of Question in Biography Questionnaire 2001-2010	Comparable Variable in BIOAGE17 ²
Entries for Surveyed Person				
HHNR	Original household identifier (invariant)			HHNR
HHNRAKT	Actual household identifier			HHNRAKT
PERSNR	Personal identifier			PERSNR
BEFRPER	Respondent identifier			BEFRPER
ERHEBJ	Survey year			ERHEBJ
BSGEBJAH	Year of birth			BYGEBJAH
School				
BSELKUEM	Parents took care about efforts at school	-	29	BYELKUEM
BSNTDEUT	Last grade in German	-	30	BYNTDEUT
BSNTMATH	Last grade in maths	-	30	BYNTMATH
BSNTFMD1	Last grade in 1. foreign language	-	30	BYNTFMD1
BSPTDEUT	Total points ¹⁸ in German (last class)	-	30 ¹⁹	BYPTDEUT
BSPTMATH	Total points in maths (last class)	-	30 ⁴	BYPTMATH
BSPTFMD1	Total points in 1. foreign language (last class)	-	30 ⁴	BYPTFMD1
BSGSDEUT	Level of German at comprehensive school ²⁰ (last class)	-	30 ⁴	BYGSDEUT
BSGSMATH	Level of maths at comprehensive school (last class)	-	30 ⁴	BYGSMATH
BSGSFMD1	Level of 1. foreign language at comprehensive school (last class)	-	30 ⁴	BYGSFMD1
BSLKDEUT	Complementary / main subject ²¹ in German (last class)	-	30 ⁴	BYLKDEUT
BSLKMATH	Complementary / main subject in maths (last class)	-	30 ⁴	BYLKMATH
BSLKFMD1	Complementary / main subject in 1. foreign language (last class)	-	30 ⁴	BYLKFMD1
Relationships to Parents, Sport and Activities during Youth				
	Frequency of fights when respondent was 15. years old with:			
BSSTRVA	Father	-	31	BYSTRVA
BSSTRMU	Mother	-	31	BYSTRMU

¹⁷ If no corresponding question/variable exists, it is assigned a minus sign; numbers/names in parentheses mean that there is no identical question/variable but a similar one.

¹⁸ To make the data set more user-friendly, the information given on points are transformed into grades and stored in the corresponding variable. The link between points and grades is as follows: 0 points: grade of 6; 1 to 3 points: grade of 5; 4 to 6 points: grade of 4; 7 to 9 points: grade of 3; 10 to 12 points: grade of 2; 13 to 15 points: grade of 1.

¹⁹ Only in survey year 2001 (wave R)

²⁰ The subjects German, math and the first foreign language are split up into different levels during the secondary school level I of comprehensive schools. Level A is the highest one.

²¹ From the 11th or 12th grade on students can choose their main subjects. At this stage, they can reduce German, maths and foreign languages from major to minor subjects.

Variable Name	Content of the Variable	Number of Question in Biography Questionnaire 2000 ²²	Number of Question in Biography Questionnaire 2001-2010 ²⁴	Comparable Variable in BIOAGE17 ²
BSSPRTR	Participated in sports during youth	-	32 ²³ ;33 ²⁴	BYSPRTTR
BSSPRTAR	Favourite sport during youth	-	33 ⁸ ;34 ⁹	BYSPRTAR
BSSPRTWE	Participated in competitions during youth	-	34 ⁸ ;35 ⁹	BYSPRTWE
BSMUSSP	Played music or sang during youth	-	35 ⁸ ;32 ⁹	BYMUSSP
School Attendance				
BSSCHBES	Still at school	(34)	37	BYSCHBES
BSSCHEND	Year left school	-	37	BYSCHEND
BSSCHWO	Country of last school attendance	(34)	38	-
BSSCHLA	Federal State of last school attendance	-	41	-
BSKLAUSL	Number of foreign classmates	(37)	43	BYKLAUSL
BSSCHZUK	Strive for further school certificate	35	44	BYSCHZUK
BSSCHZAR	Type of further school certificate	36	45	BYSCHZAR
Attained and Planed Vocational Qualification				
BSBADABG	Vocational / university degree acquired in Germany	38	46	(BYBAABGE)
Type of vocational / university degree attained in Germany:				
BSBADLEH	Apprenticeship ("Lehre")	39	47	(BYBALEH)
BSBADBFS	Full-time vocational school / School for public health ("Berufsfachschule / Schule des Gesundheitswesens")	39	47	(BYBABFS)
BSBADFSC	Technical school, school for master of a trade ("Fachschule, Meister-, Technikerschule")	39	47	-
BSBADBEA	Training for civil servants (officer) ("Beamtenausbildung")	39	47	-
BSBADFHA	Advanced technical college ("Fachhochschule") or approved vocational academy ("anerkannte Berufsakademie")	39	47	-
BSBADUNI	University degree	39	47	-
BSBADSON	Other vocational qualification	39	47	(BYBABGJ, BYBABEGL, BYBAPRAK)
BSBADEND	Year of attaining vocational / university degree in Germany	-	48	
BSBADEND	Year of attaining vocational / university degree in Germany	-	48	
BSBAAABG	Vocational / university degree acquired abroad	40	49	-

²² If no corresponding question/variable exists, it is assigned a minus sign; numbers/names in parentheses mean that there is no identical question/variable but a similar one.

²³ Survey years 2001 and 2002 (waves R, S)

²⁴ Survey years 2003 to 2009 (waves T, U, V, W, X, Y, Z)

Variable Name	Content of the Variable	Number of Question in Biography Questionnaire 2000 ²⁵	Number of Question in Biography Questionnaire 2001-2010	Comparable Variable in BIOAGE17 ²
Type of vocational / university degree attained abroad:				
BSBAAFAN	Short-term training in a company	41	50	-
BSBAAFBA	Apprenticeship in a company	41	50	-
BSBAASCH	Vocational or professional school	41	50	-
BSBAAUNI	University degree	41	50	-
BSBAASON	Other vocational qualification	41	50	-
BSBAAEND	Year of attaining vocational / university degree abroad	-	51	-
BSBAAZEU	Certificate for abroad attained qualification	42	52	-
BSBAAZEA	Recognition of abroad attained certificate	42	52	-
BSZAJA	Vocational / university degree is aspired	43	53	BYZAJA
Type of aspired vocational / university degree:				
BSZALEH	Apprenticeship ("Lehre")	44	54	BYZALEH
BSZABFS	Full-time vocational school/ School for public health ("Berufsfachschule / Schule des Gesundheitswesens")	44	54	BYZABFS
BSZAFSC	Technical school, school for master of a trade ("Fachschule, Meister-, Technikerschule")	44	54	BYZAFSC
BSZABEA	Training for civil servants (officer) ("Beamtenausbildung")	44	54	BYZABEA
BSZABAK	Approved vocational academy ("anerkannte Berufsakademie")	44	54	BYZABAK
BSZAFH	Advanced technical college ("Fachhochschule")	44	54	BYZAFH
BSZAUNI	University degree	44	54	BYZAUNI
Military and Voluntary Service				
BSDIGEL	Military or alternative service done (<i>only men</i>)	58	71 ²⁶ ;74 ²⁷	-
BSDIART	Type of service (<i>only men</i>)	58	71 ¹¹ ;74 ¹²	-
BSDIGRU ²⁸	Reason for not serving (<i>only men</i>)	58	71 ¹¹ ;74 ¹²	-
BSFSJ	Voluntary social service ("Freiwilliges Soziales Jahr")	-	72 ¹¹ ;73 ¹²	-
Specification of Interview Situation				
BSINTA	Type of interview			BYINTA
BSDAUER1	Duration of personal interview			BYDAUER1
BSDAUER2	Duration of interview filled out independently			BYDAUER2
BSTAGIN	Day of the interview			BYTAGIN
BSMONIN	Month of the interview			BYMONIN
BSINTNR	Identifier of the interviewer			BYINTNR

²⁵ If no corresponding question/variable exists, it is assigned a minus sign; numbers/names in parentheses mean that there is no identical question/variable but a similar one.

²⁶ survey years 2001 (wave R)

²⁷ survey years 2002 to 2009 (waves S, T, U, V, W, X, Y, Z)

²⁸ Since 2007 there are two new values. The former value 2 (unfit / replacement reserve) is now splitted into 11 (unfit) and 12 (replacement reserve).

12 BIORESID: Variables On Occupancy and Second Residence

by Henning Lohmann and Sven Witzke

(Replaces earlier versions by Jürgen Schupp and Michael Fröhling / Thorsten Schneider)

In 1994 questions with a focus on occupancy were introduced to the Biographical Questionnaire asking for the duration of residence in the current dwelling and any second residence. Questions on the second residence were also asked before 1994, but those were collected in the (blue version of the) Individual Questionnaire and therefore the corresponding variables are part of the \$P files. The information surveyed in the Biographical Questionnaire is stored in the new file BIORESID.

The variables of BIORESID are based on following questions:

Question I

When did you move into this home?

Year

Question II

*Do you have another home in which you yourself reside or spend your vacation?*²⁹

(o) No (1) Yes => continue with question

Is this second home in western Germany (including West Berlin), in eastern Germany (including East Berlin) or abroad?

Western Germany

Eastern Germany

Abroad³⁰

Which home is your main residence?

This one

The other one

I use both about the same

From which residence do you usually go to work?

From this one

From the other one

Not applicable

²⁹ In the years 1994 and 1995 the question was "Do you have another home, in Germany, in which you yourself reside in?"

³⁰ The new category "abroad" was added in 1996.

12.1 Sources of Variables

The information for the years 1994 and 1995 stem from the file BIOLELA. Information for later years are taken from the wave-specific data sets \$LELA.

In principle, SOEP respondents answer the Biography Questionnaire only once, so every person has only one record with wave-specific information in BIORESID. For fieldwork-related reasons, very few people have answered the Biography Questionnaire twice. For these, the first interview is taken as relevant for BIORESID. Further cases are dropped if their information stems from an interview completed before 1994.

12.2 Population of Interest

The BIORESID dataset as of wave 2010 contains information on 23,072 individuals, stemming from samples A-I. The data set is supplemented every year by new respondents filling in the supplementary Biography Questionnaire.

Table 1: Survey Year in BIORESID

Survey year	n	%	% (cum.)
1994	933	4.04	4.04
1995	1,075	4.66	8.70
1996	471	2.04	10.74
1997	480	2.08	12.83
1998	415	1.80	14.62
1999	2,039	8.84	23.46
2000	243	1.05	24.51
2001	8,816	38.21	62.73
2002	508	2.20	64.93
2003	2,319	10.05	74.98
2004	449	1.95	76.92
2005	299	1.30	78.22
2006	223	0.97	79.19
2007	2,232	9.67	88.86
2008	336	1.46	90.32
2009	196	0.85	91.17
2010	2,038	8.83	100.00
Total	23,072	100	

Status: up to wave BA (2010)

Table 2: Samples in BIORESID

Sample	n	%	% (cum.)
A Germans (West)	1,969	8.53	8.53
B Foreigners (West)	700	3.03	11.57
C Germans (East)	1,342	5.82	17.38
D Immigrants 1984-1990	1,378	5.97	23.36
E Supplement 1998	185	8.02	31.38
F Innovation 2000	9,641	41.79	73.16
G High Income 2002	2,201	9.54	82.70
H Supplement 2006	2,121	9.19	91.89
I Incentivation 2009	187	8.11	100.00

Status: up to wave BA (2010)

The information in BIORESID is treated as time-invariant. Although, in principle, it is possible to update the information on occupancy for some individuals on the basis of more recent information, we abstain from doing so for selectivity reasons.

12.3 Variable List of the Data Set BIORESID

Table 3: Description of the Data Set BIORESID

Variable Name	Content of the Variable
Entries for Surveyed Person	
HHNR	Original household number (invariant)
HHNRAKT	Current wave HH number (wave of biography interview)
PERSNR	Never changing person ID
ERHEBJ	Survey year
Occupancy	
BRMOVEIN	Year person moved in current dwelling
Second Residence	
BRSECHOM	Having a second residence
BRSECREG	Region of second residence
BRSECUSE	Use of second residence
BRSECWOR	Second residence at place of work
Specification of Interview Situation	
BRINTA	Type of interview
BRINTNR	Identifier of the interviewer

13 BIOAGE17: The Youth Questionnaire³¹

by Henning Lohmann, Marco Giesselmann *and* Sven Witzke

(Replaces earlier versions by Jürgen Schupp and Michael Fröhling / Thorsten Schneider and Bettina Isengard)

A special group of first time respondents are young persons living in a panel household, who reach the surveying age of 17 years. From this specific group of panel entrants, we are able to obtain some more detailed information on youth and socialisation than from other new sample members. At the same time, certain life-course dimensions (as the partnership- or employment biography) have not yet developed in 17 year-olds. With regard to these specifics, the standard biography questionnaire is not appropriate to this group. Thus, we use an independent questionnaire for this special group of first time respondents: the Youth Questionnaire. This instrument is used since the year 2000 and can be understood as an alternative version of the Biography Questionnaire, collecting more comprehensive information on relationships with parents, leisure-time activities, and past achievements in school, as well as on personality characteristics. In addition, there are numerous prospective questions about educational plans and plans for further training, as well as questions about expectations for future career and family.

A number of statements regarding specific circumstances—including the expectations for the future mentioned above—are directly related to the time at which the questionnaire was completed. However, they provide a multifaceted background for long-term analyses since these young people will continue to be interviewed in subsequent years like other SOEP respondents. The Youth Questionnaire also contains retrospective questions, for example, at what age the teenager started his or her first job or first music lessons, what recommendations he or she received regarding choice of secondary school level, and which grades he or she repeated.

13.1 Genesis and Target Population of the Youth Questionnaire

The Youth Questionnaire is aimed at youths who have reached the surveying age of 17 years³² and are therefore being interviewed for the first time. This questionnaire takes the place of the supplementary Biography Questionnaire, since the latter does not apply to the young people's family or career situations. As a rule, information on social

³¹ In earlier SOEP-data releases BIOAGE17 was called BIOYOUTH.

³² More precisely, this refers to youths who live in an already existing panel household and are or will turn 17 years old in the year of the survey. They are therefore 16 or 17 years old at the time of the interview.

origin can be obtained from the parents' Individual Questionnaire, in case the youth lives together with the respective parent. If the teenager does not live with either parent, the Youth Questionnaire collects information on the missing parent(s). Young people who immigrated to Germany are also given the standard questions on immigration from the supplementary Biography Questionnaire. This guarantees that all important information collected in the Biography Questionnaire is also available on these young people.

A preliminary version of the Youth Questionnaire was tested in 2000 in samples A-E on individuals born in 1983. An expanded and revised questionnaire entered the field one year later, in 2001, for all samples (A-F). In samples A-E, young people born in 1984 were surveyed, and in sample F, those born in the years 1982 to 1984. With the expansion of the number of birth cohorts, entries for the birth year 1983 are also collected for sample F (data previously existed only for samples A-E), which also creates a clear increase in the number of entries. In the following years, also the youths from additional samples have been interviewed. For an overview of the target population in each survey year, see Table 1. In total, we have gathered interview data from 3,679 analysable observations up to the present.

Table 1: Target Population for the Youth Questionnaire by year, sample and age

survey year / sample	A-E	F	G	H	I	frequency	percent
2000	17 years					232	6.31
2001	17 years	17-19 years				618	16.80
2002	17 years	17 years				352	9.57
2003	17 years	17 years	17 years			365	9.92
2004	17 years	17 years	17 years			373	10.14
2005	17 years	17 years	17 years			368	10.00
2006	17 years	17 years	17 years			307	8.34
2007	17 years	17 years	17 years	17 years		346	9.40
2008	17 years	17 years	17 years	17 years		261	7.09
2009	17 years	17 years	17 years	17 years		243	6.61
2010	17 years	17 years	17 years	17 years	17 years	214	5.82

Status: up to wave BA (2010)

In 2006, a new questionnaire on cognitive potential was introduced. Like the Youth Questionnaire, this instrument is aimed at youths who have reached the surveying age of 17 years. In order to keep the Interview at an acceptable length, the standard

Individual Questionnaire is now left out for respondents of the Youth Questionnaire. The 2006 data on cognitive potentials was provided for secondary analysis in 2009 (dataset COGDJ).

13.2 Contents and Structure of the Data Set BIOAGE17

From a technical perspective, four different types of questions are asked in the Youth Questionnaire:

A) Questions used to complete certain biographical files (BIOIMMIG, BIOPAREN). These questions are identical to questions in the standard Biography Interview. This applies to the topic blocks 'Origin' (questions 60 to 71) and 'Childhood and Parents' House' (questions 72-85). The corresponding variables are *not* included in BIOAGE17, but combined with biographical information from non-youth new entrants in the files BIOIMMIG and BIOPAREN.

B) Questions that are similar to items in the standard Biography Interview, but go further into detail. This applies to the topic blocks 'Relationships' (questions 12-14), 'Free time and Sport' (questions 15-25) and 'Education and Career plans' (questions 26-55). These variables are stored in BIOAGE17. Corresponding Variables obtained from other new sample members (with a standard Biography Interview) are included in the dataset BIOSOC. Depending on the complexity and scope of the analysis, the user might want to combine corresponding data from BIOAGE17 and BIOSOC in order to access all panel members.

C) Questions that specifically relate to young persons and therefore have no equivalent in the standard Biography Interview. This applies to the topic blocks 'Residence' (questions 1-3), 'Jobs and Money' (questions 4-11), 'Future' (question 59) and 'Attitudes and Opinions' (questions 86-87). These Variables are stored in BIOAGE17 and have no equivalent for other panel entrants in BIOSOC.

D) Since 2006, selected time-variant questions from the unanswered regular individual questionnaire (which is not handed out to first time panel respondents from existing panel households, see 13.1) are added to the Youth Questionnaire. This refers to the questions 56 to 58, 89, 90 and the topic block 'personality' (questions 91 to 99). This data is *not* included in BIOAGE17³³, but stored in an additional dataset \$PAGE17.

The design of the dataset BIOAGE17 is patterned after the 2001 Youth Questionnaire, which is the standard version for subsequent years. As in the biographical data survey, every youth answers the Youth Questionnaire only once. The data is therefore

³³ The first ten items in question 90 are still stored in BIOAGE17, for details see 13.3.

presented in column form, just as it would be in a cross-sectional record. The variable ERHEBJ makes it possible to quickly identify the year of the survey. The entries to the questions that were only asked in 2000 and not in 2001 are not included in BIOAGE17. The complete dataset from 2000 is provided free of charge upon request. However, all entries from 2000 that are also included in 2001 are contained in BIOAGE17!³⁴ With the integration of questions from the Individual Questionnaire in 2006, some changes have occurred in the Youth Questionnaire, especially in the numbering of the questions.

Table 2 (at the end of this chapter) lists all of the variables for the dataset BIOAGE17. The first column contains the name of each variable, the second a brief specification of its content, and the third the number of the question as it appears in the Youth Questionnaire distributed in 2000, wave Q. The fourth column lists the corresponding questions in the Youth Questionnaires 2001 to 2005. Since the Youth Questionnaire was not altered further in the following years, the questionnaire numbers reported are identical³⁵ and therefore function as a reference for the variables in the dataset BIOAGE17. In the last column, the question number from 2006 to 2009 youth questionnaires is noted. The variables containing the identification of the person surveyed and the interview situation have no corresponding number because they do not originate from the regular section of the Youth Questionnaire.

13.3 Special Features of Some Questions and Variables

The question regarding the support received by these young people from their parents (question 14) is based on the Supportive Parenting Scale of Simons et al. (1992)³⁶, which was transformed for Germany by Schwarz and Walper (1997)³⁷. The instrument used to compile career orientation (question 54) was taken from Kracke (1996)³⁸.

Before 2006, problems arose with the question concerning school attendance (question 25 from 2001 to 2005) because of discrepancies between the information from the Youth Questionnaire and the information on the variable “type of general school attended” from the Individual Questionnaire. Since 2006, 17-year-olds no longer receive the Individual Questionnaire, so the question about school type has been

³⁴ In the event that a question was asked in 2001 but not in 2000, the variable will have the value -3 for the persons who were surveyed in 2000.

³⁵ In 2004 and 2005, only one question was added. It concerns the number of brothers and sisters. However, the consecutive numbering of the relevant questions remains unchanged.

³⁶ Simons, R.L., F.O. Lorenz, R.D. Conger and C.-I. Wu (1992): Support from spouse as mediator and moderator of the disruptive influence of economic strain on parenting. in: *Child Development* 63: 1282-1301.

³⁷ Schwarz, B. and S. Walper (1997): *Erziehung aus Sicht von Eltern und Kindern. Erste Erfahrungen mit den Instrumenten der 1. Erhebung. Berichte aus der Arbeitsgruppe “Familienentwicklung nach der Trennung” #19/97.* Ludwig-Maximilians-Universität München.

³⁸ Kracke, B. (1996): *Fragebogen zur Berufsorientierung bei Realschülern.* University of Mannheim, unpublished manuscript.

integrated into the question on school attendance. For the previous years, the variable was generated using information from the Individual Questionnaire and questions 25 and 45³⁹ from the Youth Questionnaire.

If the question on school attendance in the Youth Questionnaire is answered with 'yes' when at the same time information from the regular Individual Questionnaire indicates that the youth does not attend the general school system, or vice versa, a recoding is undertaken. In this case the variable BYSCHBES is changed to the value -3 (-3: Entry deleted after intensive examination). Another problem arises if a person states in the Youth Questionnaire that she attends school but does not specify school type in the Individual Questionnaire. In this case the variable BYSCHBES is given the value -1 (-1: no answer).

In question 51, young people are asked whether they know what career they would like to start. If they give a positive answer ('yes, with some certainty', 'yes, with a lot of certainty'), then they are asked to specify the occupation in plain text. This plain-text entry is coded according to the classification of occupations of the Federal Statistical Office, Germany, (Statistisches Bundesamt), version 1992, and according to the ISCO 1988. In addition, the values for Ganzeboom's International Socio-Economic Index of Occupational Status (ISEI), for Treiman's Standard International Occupational Prestige Scale (SIOPS) for Erikson's and Goldthorpe's Class Category (EGP)⁴⁰ as well as Wegener's Magnitude Prestige Scale (MPS)⁴¹ are also given.

Since 2005 some respondents have a value of -3 in variables BYMUSART, BYMUSMW and BYSPRTMW. This means that they gave more than one answer to the question although only one answer was possible. Because of this, it was not possible to assign a single valid answer.

By extending the questions about personality, we meanwhile ask the questions regarding attitudes about life and the future on a seven-point scale instead of the four-point scale we started with in the earlier version of this battery. From 2006, the variables BYESVERL to BYESENGA are stored with the values 1 (no acceptance) to 7 (total acceptance) and with the values 11 (total acceptance) to 14 (no acceptance) for respondents of previous years. Thus, the normative decision on how to integrate these two scales is up to the user.

³⁹ For 2000 questions 24 and 45.

⁴⁰ For ISCO 88, SIOPS, ISEI and EGP see Ganzeboom, H.B.G. and D.J. Treiman (1996): Internationally Comparable Measures of Occupational Status for the 1988 International Standard Classification of Occupations. in: *Social Science Research* 25, 201-239.

⁴¹ Frietsch, R. and H. Wirth (2001): Die Übertragung der Magnitude-Prestigeskala von Wegener auf die Klassifizierung der Berufe. in: *ZUMA-Nachrichten*, 48, 139-163.

Table 2: Description of the data set BIOAGE17

Variable Name	Content of the Variable	Number of Question in Youth Questionnaire 2000 ⁴²	Number of Question in Youth Questionnaire 2001-2005	Number of Question in Youth Questionnaire 2006 - 2010
Entries for surveyed person				
HHNR	Original household identifier (invariant)			
HHNRAKT	Actual household identifier			
PERSNR	Personal identifier			
BEFRPER	Respondent identifier			
ERHEBJ	Survey year			
BYGEBJAH	Year of birth			
BYMNR	identifier of mother (taken from BIOPAREN; social, not necessarily biological relationship)			
BYVNR	identifier of father (taken from BIOPAREN; social, not necessarily biological relationship)			
Residence				
BYWOELT	Residing in parents' household (HH)	01	01	01
BYWOZIM	Own room	02	02	02
BYWOWEI	Additional apartment outside of parents' HH	04	03	03
Jobs and Money				
BYVDEIG	Own income	09	04	04
BYVDART	Type of income	10	05	05
BYJBFRUE	Worked before (on holiday or while in school)	13	06	06
BYJBALT	Age by first job (on holiday or while in school)	14	07	07
BYJBGRUN	Reason for working	-	08	08
BYTGELD	Allowance	15	09	09
BYTGELDW	Amount of allowance per week	16	10	10
BYTGELDM	Amount of allowance per month	16	10	10
BYSPAR	Saving money	17	11	11
BYSPARM	Amount saved every month	17	11	11
BYSPARUN	Sporadic saving	17	11	11
Relationships				
Importance of various persons:				
BYWIVA	Father	-	12	12
BYWIMU	Mother	-	12	12
BYWIBS	Brother, Sister	-	12	12
BYWIVW	Other related persons	-	12	12
BYWIFFR	Serious boy/girlfriend	-	12	12
BYWIBFR	Best friend	-	12	12
BYWILEHR	Teacher	-	12	12
BYWICLQ	Clique	-	12	12
BYWISON	Other person	-	12	12
Frequency of fights with:				
BYSTRVA	Father	-	13	13
BYSTRMU	Mother	-	13	13
BYSTRBS	Brother, Sister	-	13	13
BYSTRFFR	Serious boy/girlfriend	-	13	13
BYSTRBFR	Best friend	-	13	13

⁴² If no corresponding question/variable exists, it is assigned a minus sign; numbers/names in parentheses mean that there is no identical question/variable but a corresponding one.

Variable Name	Content of the Variable	Number of Question in Youth Questionnaire 2000 ⁴²	Number of Question in Youth Questionnaire 2001-2005	Number of Question in Youth Questionnaire 2006 - 2010
BYBZ01MU	Talk with mother about personal experiences	-	14	14
BYBZ01VA	Talk with father about personal experiences	-	14	14
BYBZ02MU	Mother addresses problems	-	14	14
BYBZ02VA	Father addresses problems	-	14	14
BYBZ03MU	Mother asks opinion before a decision is made	-	14	14
BYBZ03VA	Father asks opinion before a decision is made	-	14	14
BYBZ04MU	Mother shows approval	-	14	14
BYBZ04VA	Father shows approval	-	14	14
BYBZ05MU	Solve problems together with mother	-	14	14
BYBZ05VA	Solve problems together with father	-	14	14
BYBZ06MU	Mother shows trust	-	14	14
BYBZ06VA	Father shows trust	-	14	14
BYBZ07MU	Mother asks opinion on family issues	-	14	14
BYBZ07VA	Father asks opinion on family issues	-	14	14
BYBZ08MU	Mother justifies decision	-	14	14
BYBZ08VA	Father justifies decision	-	14	14
BYBZ09MU	Mother shows love	-	14	14
BYBZ09VA	Father shows love	-	14	14
Free time and Sport				
	Frequency of free time activities:			
BYFZFERN	TV, Video	-	15	15
BYFZPC	Computer games	-	15	15
BYFZMUSH	Listen to music	-	15	15
BYFZMUSS	Play music	-	15	15
BYFZSPRT	Do sports	-	15	15
BYFZTANZ	Dance, Theatre	-	15	15
BYFZTECH	Technical work, Programming	-	15	15
BYFZLESE	Read	-	15	15
BYFZEHRE	Volunteer activities	-	15	15
BYFZABH	Do nothing, hang around, day dream	-	15	15
BYFZMFFR	Spend time with boy/girlfriend	-	15	15
BYFZMBFR	Spend time with best friend	-	15	15
BYFZMCLQ	Spend time with clique	-	15	15
BYFZINT	Internet/chatting	-	-	15
BYFZJUGZ	visiting youth center	-	-	15
BYFZRELI	go to church/religious activities	-	-	15
BYMUSSP	Actively make music	-	16	16
BYMUSART	Style of music made	-	17	17
BYMUSMW	Play music with whom	-	17a	18
BYMUSALT	Age starting playing music	-	18	19
BYMUSUNT	Paid music lessons	-	19	20
BYSPTTR	Participate in sports	20	20	21
BYSPTAR	Favourite sport	21	21	22
BYSPTAL	Age started favourite sport	23	22	23
BYSPTMW	Where and with whom favourite sport	23	23	24
BYSPTWE	Participation in competitions	23	24	25

Variable Name	Content of the Variable	Number of Question in Youth Questionnaire 2000 ⁴³	Number of Question in Youth Questionnaire 2001-2005	Number of Question in Youth Questionnaire 2006 – 2009
Education and Career Plans				
BYSCHBES ⁴⁴	School attendance	24 / PF: 09	25 / PF ⁴⁵	26
BYSCHEND	Last year of school	25	26a	27
BYSCHABS	Type of school certificate	26	26b	28
BYSCHZUK	Strive for further school certificate	27	27	29
BYSCHZAR	Type of further school certificate	28	28	30
BYFMD1 ⁴⁶	1. foreign language	32	29	31
BYFMD2	2. foreign language	32	29	31
BYSCHAUS	School attendance in foreign country	29	30	32
BYSCHPRI	Attendance in a private school	-	31	33
	Activities in school:			
BYENKSPR	Class representative	34	32	34
BYENSSPR	School representative	34	32	34
BYENSZTG	School newspaper	34	32	34
BYENTHEA	Theatre, Dance group	34	32	34
BYENCHOR	Choir, Music	34	32	34
BYENSPRT	Sport group	34	32	34
BYENSONS	Other groups	34	32	34
BYENNEIN	No activities	34	32	34
BYZFINS	Satisfaction with effort at school (overall)	31	33	35
BYZFDEUT	Satisfaction with effort in German	31	33	35
BYZFMATH	Satisfaction with effort in math	31	33	35
BYZFFMD1	Satisfaction with effort in 1. foreign language	31	33	35
BYEMPFEH	Recommendation after elementary school	-	34	36
BYNTDEUT	Last grade ⁴⁷ in German	33	35	37
BYNTMATH	Last grade in math	33	35	37
BYNTFMD1	Last grade in 1. foreign language	33	35	37
BYPTDEUT	Total points ⁴⁸ in German	33	35	37
BYPTMATH	Total points in math	33	35	37
BYPTFMD1	Total points in 1. foreign language	33	35	37
BYGSDEUT	Level of German at comprehensive school ⁴⁹	33	35	37

⁴³ If no corresponding question/variable exists, it is assigned a minus sign; numbers/names in parentheses mean that there is no identical question/variable but a corresponding one.

⁴⁴ As mentioned in 13.3, for the years 2000 to 2005 the variable BYSCHBES is generated in consideration of information stemming from the personal questionnaire.

⁴⁵ The relevant question from the personal questionnaire differs from year to year: for 2001 question 11, for 2002 question 14, for 2003 question 33, for 2004 question 08, and for 2005 question 09.

⁴⁶ Additional category since 2006: value 7 "Spanish".

⁴⁷ Students normally receive grades ranging from 1 to 6, whereby 1 is the best and 6 the worst. This system of assigning grades is used up to the 11th or 12th grade (level II of upper secondary or comprehensive school) depending on the federal state. After that, a new grading system is used. To make the data set more user-friendly, the information given for school grades and the information on points transformed into grades is stored in this variable. Note: No corrections have been made when a person has reported both grades and point scores and when the two types of information do not correctly correspond.

⁴⁸ From the 11th or 12th grade on, pupils are awarded points in upper secondary or comprehensive school ranging from 0 to 15, whereby 15 points are the best, 0 points the worst. The link between points and grades is as follows: 0 points: 6; grade of 1 to 3 points: grade of 5; 4 to 6 points: grade of 4; 7 to 9 points: grade of 3; 10 to 12 points: grade of 2; 13 to 15 points: grade of 1.

⁴⁹ The subjects German, math and the first foreign language are split up into different levels during the secondary school level I in comprehensive schools. Level A is the highest. The number of levels differ between the federal states.

Variable Name	Content of the Variable	Number of Question in Youth Questionnaire 2000 ⁴³	Number of Question in Youth Questionnaire 2001-2005	Number of Question in Youth Questionnaire 2006 – 2009
BYGSMATH	Level of math at comprehensive school	33	35	37
BYLKDEUT	Complementary / main subject ⁵⁰ in German	33	35	37
BYLKMATH	Complementary / main subject in math	33	35	37
BYLKFMD1	Complementary / main subject in 1. foreign language	33	35	37
BYKLWDJA	Class repeated	35	36	38
BYKLWD1	Class level 1. repeated	36	37	39
BYKLWD2	Class level 2. repeated	36	37	39
BYNACHHI	Paid tutor lessons	37	38	40
BYELKUEM	Parents care about efforts at school	39	39	41
BYELHAUS	Parents help with homework	40	40	42
BYELDIFF	Problems with parents because of effort at school	41	41	43
BYELABEN	Parents attend parents' evening	42	42	44
BYELSPRE	Parents go to parents' day	42	42	44
BYELLEHR	Parents go to see a teacher	42	42	44
BYELVERT	Active as parent representative	42	42	44
BYELNIDA	Parents do not participate in any of these activities	42	42	44
BYKLAUSL	Number of foreign classmates	(43)	43	45
BYBAABGE	Vocational education, Internship, training	44	44	46
BYBABGJ	Vocational introductory year ("Berufsgrundschul- / Berufsvorbereitungsjahr")	45	45	47
BYBABEGL	Vocational integration training ("Berufl. Eingliederungslehrgaenge")	45	45	47
BYBALEH	Vocational education, apprenticeship ("Berufsausbildung, Lehre")	45	45	47
BYBABFS	Full-time vocational school/ School for public health ("Berufsfachschule / Schule des Gesundheitswesens")	45	45	47
BYBAPRAK	Internship ("Praktikum, Voluntary")	45	45	47
BYZAJA	Vocational / university degree is aspired	46	46	48
BYZALEH	Type of aspired vocational / university degree: Apprenticeship ("Lehre")	47	47	49
BYZABFS	Full-time vocational school/ School for public health ("Berufsfachschule / Schule des Gesundheitswesens")	47	47	49
BYZAFSC	Technical school, school for master of a trade ("Fachschule, Meister-, Technikerschule")	47	47	49
BYZABEA	Training for civil servants (officer) ("Beamtenausbildung")	47	47	49
BYZABAK	Approved vocational academy ("anerkannte Berufsakademie")	47	47	49
BYZAFH	Advanced technical college ("Fachhochschule")	47	47	49
BYZAUNI	University	47	47	49

⁵⁰ From the 11th or 12th grade on, pupils can choose their main subjects. At this stage, German, math and foreign languages can be downgraded from major to minor subjects.

Variable Name	Content of the Variable	Number of Question in Youth Questionnaire 2000 ⁴³	Number of Question in Youth Questionnaire 2001-2005	Number of Question in Youth Questionnaire 2006 – 2009
BYSLBALT	Desired age for financial independence	48	48	50
BYBWUNJA	Occupation is aspired	49	49	51
BYKLAS	Occupation categories, encoded: Classification of career according to the Federal Statistical Office, Germany, (Statistisches Bundesamt), version 1992	50	50	52
BYISCO88	International Standard Classification of Occupation 1988 (ISCO88)	50	50	52
BYEGP	Erikson and Goldthorpe's Class Category (EGP)	50	50	52
BYISEI	International Socio-Economic Index of Occupational Status after Ganzeboom (ISEI)	50	50	52
BYSIOPS	Treiman's Standard International Occupational Prestige Scale (SIOPS)	50	50	52
BYMPS	Magnitude Prestige Scale after Wegener (MPS)	50	50	52
BYZBINF	Information level of planned career	-	51	53
BYZBELT	Influence of the parents on career choice	-	52	54
BYZBLAS	No specific career in mind	-	52	54
BYZBBES	Intensive thoughts about various careers	-	52	54
BYZBRAU	Still looking for a career	-	52	54
	Important aspects for the career choice:			
BYWBSICH	Secure job	51	53	55
BYWBEINK	High income	51	53	55
BYWBAUF	Promotion opportunities	51	53	55
BYWBANE	Established profession	51	53	55
BYWBFREI	Enough free time	51	53	55
BYWBINT	Interesting activities	51	53	55
BYWBSELB	Working independently	51	53	55
BYWBKONT	Contact with persons	51	53	55
BYWBGSL	Relevant to society	51	53	55
BYWBGSD	Healthy conditions at work	51	53	55
BYWBFAM	Flexibility for family	51	53	55
BYWBHELP	Help others	51	53	55
	Future			
	Probability of future career related and private events:			
BYWAAUSP	To be accepted for a desired apprenticeship / place at university	52	54	59
BYWAERFA	To complete training/ university successfully	52	54	59
BYWAARBP	Job in desired career	52	54	59
BYWABERF	Job-related success	52	54	59
BYWAARBL	Longer unemployment	52	54	59
BYWAZURU	From family related reasons held back in career	52	54	59
BYWASELB	Self-employed	52	54	59
BYWAAUSL	Work in foreign country	52	54	59
BYWAHEIR	To marry	52	54	59
BYWAPART	Live together with partner (not married)	52	54	59
BYWAKID1	Have one child	52	54	59

Attitudes and Opinions

Variable Name	Content of the Variable	Number of Question in Youth Questionnaire 2000 ⁴³	Number of Question in Youth Questionnaire 2001-2005	Number of Question in Youth Questionnaire 2006 – 2009
BYGLKIND	Happiness: with/without children	-	80	87
	Success in FRG from			
BYEFFLEI	Studiousness	86	81	88
BYEFAUSN	Exploitation of others	86	81	88
BYEFINT	Intelligence	86	81	88
BYEFFAM	Family's origin	86	81	88
BYEFFACH	Technical know-how	86	81	88
BYEFGELD	Money	86	81	88
BYEFSABS	School education	86	81	88
BYEFHART	Being inconsiderate and hard	86	81	88
BYEFBEZ	Networking	86	81	88
BYEFPOLI	Political activities	86	81	88
BYEFMANN	Sex/ 'being a man'	86	81	88
BYEFINI	Being dynamic and taking initiative	86	81	88
BYESVERL	What happens in life, depends on me	-	(82)	90
BYESERRE	Did not reach, what I deserve	-	(82)	90
BYESGLUE	What you achieve, is a matter of luck	-	(82)	90
BYESAND	Others decide about my life	-	(82)	90
BYESHART	You have to work hard for success	-	(82)	90
BYESZWEI	By difficulties, doubt about own abilities	-	(82)	90
BYESSOZU	Chances are determined by social circumstances	-	(82)	90
YESFAEH	Abilities are more important than efforts	-	(82)	90
YESKNTR	Little control over events in my life	-	(82)	90
YESENGA	Change of social circumstances through social/political activities	-	(82)	90
Specification of Interview Situation				
BYINTA	Type of interview			
BYDAUER1	Duration of personal interview			
BYDAUER2	Duration of interview filled out independently			
BYANW	Presence of other persons			
BYTAGIN	Day of the interview			
BYMONIN	Month of the interview			
BYINTNR	Identifier of the interviewer			

14 BIOAGE01: Generated Variables from the 'Mother and Child Questionnaire'

by David Richter, Anne Fromm, Sebastian Frischholz, Christian Schmitt and Jürgen Schupp

(Replaces an earlier version by Katharina Mahne and Stefanie Lenuweit)

Since 2003, questions regarding the birth of a child have been integrated in the SOEP with the help of the "mother and child questionnaire". The questionnaire is aimed at all women who, in the current survey year or the year before, gave birth to their own child, as well as at women whose non-biological child was born in the time period mentioned above. This means that at the time of the survey these children are either newborn or they have a maximum age of one and a half years. The oldest birth cohort with such an age-specific instrument is born in 2002.

The questionnaire is comprised of 20 questions which cover 4 subjects:

- pregnancy
- body measurements and health of the child
- change in living circumstances due to the birth of the child
- circumstances surrounding the care of the child

This additional questionnaire will be used for newborn cohorts on an annual basis.

Number of Respondents of Mother & Child Questionnaire

	<i>Year of data collection</i>								
<i>Year of birth</i>	2003	2004	2005	2006	2007	2008	2009	2010	Total
2002	274	2							276
2003	44	204							248
2004		41	198						239
2005			48	195					243
2006				39	153				192
2007					52	140			192
2008						45	151		196
2009							45	138	181
2010								47	47
Total	318	247	246	234	205	185	196	182	1814

The data set currently consists of 1814 children, of which there are 27 pairs of twins and 292 pairs of siblings. This means that information from the mother-child questionnaire has been collected for 1400 mothers.

Number of Twins and Siblings

<i>mothers with</i>	1 child	2 children	3 children	4 children	5 children	total
children	1037	319	38	5	1	1400
pairs of twins	0	27	5	0	0	32
pairs of siblings	0	292	33	5	1	277
total number of children	1037	638	114	20	5	1814

At the moment (2010) there are 158 children for whom information is gained from all of Mother & Child Questionnaires (BIOAGE01, BIOAGE03, BIOAGE06 and BIOAGE08). Therefore the following table gives a detailed overview of the participation in the age-specific instruments.

Realized cumulated information of age-specific instruments BIOAGE01, BIOAGE03, BIOAGE06, BIOAGE08

<i>age cohorts</i>					
	1 x	2 x	3 x	4x	<i>total</i>
2002	67 (26 ^a , 5 ^b , 10 ^c , 26 ^d)	75 (48 ^e , 3 ^f , 22 ^g , 1 ^h , 1 ^j)	47 (33 ^k , 4 ^l , 5 ^m , 5 ⁿ)	158	347
2003	62 (29 ^a , 4 ^b , 29 ^c)	56 (44 ^e , 6 ^f , 6 ^h)	169 ^k		287
2004	75 (33 ^a , 13 ^b , 29 ^c)	68 (42 ^e , 22 ^f , 4 ^h)	159 ^k		302
2005	91 (45 ^a , 46 ^b)	200 ^e			291
2006	60 (33 ^a , 27 ^b)	158 ^e			218
2007	76 (39 ^a , 37 ^b)	153 ^e			229
2008	196 ^a				196
2009	181 ^a				181
2010	47 ^a				47
total	855	710	375	158	2098

^a = only BIOAGE 01; ^b = only BIOAGE03; ^c = only BIOAGE06; ^d = only BIOAGE08

^e = BIOAGE01 and BIOAGE03; ^f = BIOAGE03 and BIOAGE06; ^g = BIOAGE06 and BIOAGE08

^h = BIOAGE01 and BIOAGE06; ⁱ = BIOAGE03 and BIOAGE08; ^j = BIOAGE01 and BIOAGE08

^k = BIOAGE01 and BIOAGE03 and BIOAGE06; ^l = BIOAGE01 and BIOAGE06 and BIOAGE08

^m = BIOAGE03 and BIOAGE06 and BIOAGE08; ⁿ = BIOAGE01 and BIOAGE03 and BIOAGE08.

14.1 Contents and aims of the BIOAGE01 data file

The aim of the BIOAGE01 data file is to observe the future generation of the SOEP, preferably from birth onwards. The data set is in the order of the never-changing person ID of the child, so that information from the BIOAGE01 data set can be directly linked to the child files (\$KIND). From a mother's point of view, the data set presents a detailed source of information on pregnancy and the changes in life experienced by women who have recently become mothers.

The basis for BIOAGE01 therefore consists of all individuals who are named as children in the "Mother and Child Questionnaire" (PERSNR). With the help of the mother's never-changing person ID, information on the mothers can also be directly linked to the individual information on the mothers.

In the case of multiple children, the mother fills out a respective number of questionnaires, so that siblings can be identified by the identical never-changing person ID of the mother (PERSNRM), month of birth and year of birth.

The variables in BIOAGE01 correspond to their structure in the user-friendly original variables from the mother and child questionnaire. Information is provided on the time and place of birth, as well as the child's height and weight at birth. The variable BCKALTER gives the age of the child at the time of the survey in months. With regards to the children, there is information on any disorders in their development, as well as the health of the child in its first 3 months. BIOAGE01 also includes information on whether or not the pregnancy was planned, if the child is the first and if it is a biological child. For mothers with a non-biological child, the questions are presented in an identical fashion, however questions on pregnancy are left out. Finally, there are questions on the mother's evaluation of the child's behaviour at the time of the interview. The variables BCVERAE1 to 8 refer to the mother's assessment of the new circumstances of life. BIOAGE01 also contains information on the mother's current personal situation, i.e. whether there is a partner present, as well as to what extent the child is cared for by people other than the main care provider.

14.2 Variables in BIOAGE01

Number of cases: 1814 Wave: T-BA Sub-samples: A, B, C, D1, D2, E, F, G, H, I

Variable Name	Content of the Variable
HHNRAKT	Current wave household number
PERSNRM	Never-changing person ID of the mother
PERSNR	Never-changing person ID of the child
ERHEBJ	Survey year
BCKGEBMO	Child's month of birth
BCKGEBJA	Child's year of birth
BCKALTER	Age (in months) of the child at the time of the survey
BCKSEX	Child's gender
BCENTBIN	Place where birth took place
BCSSW	Pregnancy week of birth
BCKGEW	Weight of child at birth in grams
BCKGROE	Height of child in cm
BCKKOPF	Head circumference of the child in cm
BCKLETZU	Last medical examination
BCKSTOER	Child has confirmed disorders
BCKARZT	Medical help - number of times in the first 3 months
BCKKRHAU	Length of hospital stay in the first 3 months in days
BCKIZAHL	Newborn is 1st, 2nd, 3rd, etc. child
BCKLEIBL	Biological child
BCSSPLAN	Pregnancy planned/unplanned
BCVATER	Father lives in household
BCUNTPA	Supported by partner
BCHAUPTB	Mother is main provider of care
BCBEFIN1	Physical condition in the final third of the pregnancy
BCBEFIN2	Physical condition in the first 3 months after birth
BCBEFIN3	Mental state in the final third of the pregnancy
BCBEFIN4	Mental state in the first 3 months after birth
BCVERAE1	Circumstances in life have greatly changed
BCVERAE2	Child provides happiness and joy
BCVERAE3	Often close to running out of strength
BCVERAE4	Very satisfied with the role of mother
BCVERAE5	Often unable to cope with tasks/responsibilities
BCVERAE6	Have made new contacts through the child
BCVERAE7	Suffering from being limited to the role of mother
BCVERAE8	Important to provide the child with much affection
BCBETRE1	Cared for by partner (in h/week)
BCBETRE2	Cared for by grandparents (in h/week)
BCBETRE3	Cared for by grandparents by older siblings (in h/week)
BCBETRE4	Cared for by other relatives (in h/week)
BCBETRE5	Cared for by childminder (in h/week)
BCBETRE6	Cared for in crèche/day nursery (in h/week)
BCBETRE7	Cared for by others (in h/week)
BCBETRE8	No use of temporary care
BCKGESU1	Concerns about the child's health
BCKGESU2	Child is generally happy and satisfied
BCKGESU3	Child is easily irritated and often cries

VARIABLE NAME	Content of the Variable
BCKGESU4	Child is hard to console
BCKGESU5	Child is curious and active
BCPREGY	Pregnant when answering the personal questionnaire in survey year X
BCPREGMO	Month of pregnancy when answering the personal questionnaire
BCPREBEG	month of the pregnancy (i.e. time of conception)
BCPREEND	Last month of pregnancy (i.e. month of birth)
BCPREGY	Mother: pregnant at individual interview
BCPREGMO	Mother: month of pregnancy at individual interview
BCPREBEG	Spell beginning month of pregnancy
BCPREEND	Spell end of pregnancy, birth
BCKAISER	Delivery by caesarean section
BCSTILL	Breast-feeding baby
BCSTILLM	Breast-feeding time in months
BCKSTOE1	Symptoms of disorders
BCKGESU6	Child more reserved

Starting with wave W (survey year 2006), the mother-child data-set (BIOAGE01) contains additional information on the duration of pregnancy. This includes the following variables:

- BCPREGY – Pregnant when answering the personal questionnaire in survey year X.
- BCPREGMO – Month of pregnancy when answering the personal questionnaire
- BCPREBEG – Starting month of the pregnancy (i.e. time of conception)
- BCPREEND – Last month of pregnancy (i.e. month of birth).

The generation of these variables is based on the exact month of birth (BCKGEBMO, BCKGEBJA respectively), the point in time, when a person answers the personal questionnaire (this applies to BCPREGY and BCPREGMO only) and the duration of childbearing in weeks (BCSSW). Accordingly, information is available only for women who completed the mother child-questionnaire and for whom the duration of the pregnancy is known. The time of observation starts in survey year 2002. Please pay attention to the fact that the month of conception may vary by one month, as the exact *day* of birth remains unknown.

The variable BCPREGY provides the information, if a woman was pregnant when answering the personal questionnaire. If there was a coincidence of the mentioned kind, the survey year of coinciding interview time and pregnancy is recorded. BCPREGMO contains the month of the pregnancy, when answering the personal questionnaire. Again the exact month of pregnancy may vary by one month as the exact day of birth is unknown. Hence the month of pregnancy as displayed in BCPREGMO remains a close approximation. Please pay attention to the fact that the future mothers do not need to be aware of their pregnancy in the early stages of

childbearing. Additionally attention should be paid to the fact that there is no information available on any women who were pregnant at time of the interview if the pregnancy did not end in childbirth.

The variables BCPREPEG and BCPREEND contain the spells of the pregnancy duration where BCPREPEG displays the beginning of the childbearing (i.e. the month of conception) and BCPREEND displays the end of childbearing (i.e. the month of birth). The values start with 1 for January 1983 (e.g., month 276 displays December 2005). With that design, the pregnancy spells can be linked directly to additional (month-based) spell information in the SOEP. Such information is for example available in the data-set BIOMARSM.

15 BIOAGE03: Generated Variables from the supplementary questionnaire

“Your child between the ages of two and three”

by David Richter, Anne Fromm, Sebastian Frischholz, and Jürgen Schupp

(Replaces an earlier version by Katharina Mahne and Stefanie Lenuweit)

This questionnaire was used for the first time in 2005 after completion of pretesting in the year 2004. The questionnaire is given to mothers with a child between the ages of two and three at the time of the survey. The year of the child’s birth is the determining factor here: thus, in the 2005 survey, all children born in the year 2002 were included. The questionnaire seeks indicators for the child’s individual course of development and the mother’s specific experiences with her child. It also extends the indicators collected since 2003 through the Mother & Child questionnaire further; for the children in these cohorts—the majority of whom were born in the year 2002—the new supplementary questionnaire acts as a continuation of the information already collected on individual development characteristics. To provide an incentive to participate, after completing the questionnaire, mothers are given beside their individual lottery ticket an additional lottery ticket issued in the child’s name to the *Aktion Mensch* lottery. *Aktion Mensch* provides funding to over 300 social projects targeting developmentally disabled people as well as children and young adults.

The questionnaire consists of 13 questions in the following main thematic areas:

- Body measurements and health
- Recreational activities
- Child’s abilities
- Childcare situation
- Parental experiences with the child

In the future, the questionnaire will be sent only once per year to the cohort of mothers of two to three-year-old children. Ideally, they will already have answered the questionnaire “Mother & Child”.

The data set currently consists of 1338 children including 16 pairs of twins and 191 pairs of siblings. Thus, 1128 mothers responded to the questionnaire.

Number of Respondents of Mother & Child Questionnaire

	<i>Year of data collection</i>						
<i>Year of birth</i>	2005	2006	2007	2008	2009	2010	total
2002	257						257
2003		222					222
2004			237				237
2005				246			246
2006					186		186
2007						190	190
Total	257	222	237	246	186	190	1338

Number of Twins and Siblings

<i>mothers with</i>	1 child	2 children	3 children	total
children	921	191	16	1128
pairs of twins	0	13	6	16
pairs of siblings	0	178	13	191
total number of children	921	369	48	1338

In the exceptional case that the mothers can't fill out the questionnaire, the father responds. His person-ID is PERSNRM just as the ones of the mothers. The current BIOAGE03 file includes 6 fathers.

Person-ID of child PERSNR	Person-ID of parent PERSNRM
1139503	80204
1159104	1159102
3014505	3014501
3190908	3190901
8743404	8743401
8782904	8782901

At the moment (2010) there are 158 children for whom information is gained from all of Mother & Child Questionnaires (BIOAGE01, BIOAGE03, BIOAGE06 and BIOAGE08. A detailed overview of the participation in the age-specific instruments can be found in the documentation of BIOAGE01.

15.1 Content and goal of the BIOAGE03 dataset

The BIOAGE03 dataset makes up one part of our observation of the young people comprising the new SOEP generation before they reach respondent age themselves, a process we aim to make as comprehensive and gap-free as possible. We sort the data according to the fixed original household number HHNR as well as the unchanged person ID number of the child (PERSNR) so that information from BIOAGE03 can be directly linked to the annual child data (\$KIND) or to PPFAD or PHRF.

The BIOAGE03 dataset is based on all those individuals who are referred to as children in the questionnaire. If a mother has more than one child of this age, she fills out the corresponding number of questionnaires—one per child. It can be determined whether the child has siblings through the identical person ID number of the mother (PERSNRM). The mother's permanent person ID number can also be used to establish links to data from the individual and household files.

The variables in BIOAGE03 correspond to the answers to the questionnaire “Your child between the ages of two and three”. The information provides both the month and year of birth and also the current height and weight of the child. The generated variable BKALTER provides the current age of the child at the point in time of the survey and in that particular year. The data set contains not only information on childhood illnesses, hospital stays, and doctor visits, but also information on the child's behavior and level of development from the mother's point of view. Very detailed data is collected on the child's abilities: linguistic capacities, everyday skills, motor abilities, and social relationships (according to the Vineland Adaptive Behavior Scale). There are also detailed questions regarding the childcare situation. In addition to questions

about recreational activities during the last 14 days and the child's TV-watching habits, we ask whether household members usually speak German or another language with the child at home.

15.2 Variables in BIOAGE03

Number of observations: 1338

Wave: BA

Samples: A, B, C, D, E, F, G, H, I

Variable Name	Content of the Variable
HHNRAKT	Current Wave HH Number
PERSNR	Permanent Person ID Child
PERSNRM	Permanent Person ID Mother
ERHEBJ	Survey Year
BKGEBMO	Child, Month of Birth
BKGEBJA	Child, Year of Birth
BKALTER	Age of Child (in Months) at Time of Survey
BKGEW	Child, Weight in kg
BKGROE	Child, Height in cm
BKSTOER	Child Has Confirmed Disorder
BKARZT	Child, Medical Care: No. Of Times last 3 months (not asked in 2007)
BKKRHAU	Child, Length of Hospital Stays Last 12 Months In Days
BKBETRE1	Cared for by Spouse/Partner: (Hrs/Wk)
BKBETRE2	Cared for by Childs Father (If Not Resident of Same Household) (Hrs/Wk)
BKBETRE3	Cared for by Grandparents: (Hrs/Wk)
BKBETRE4	Cared for by Older Siblings: Hrs Per Wk
BKBETRE5	Cared for by Other Relatives: Hrs Per Wk
BKBETRE6	Cared for in Family Day Care (Hrs/Wk)
BKBETRE7	Cared for by a Nanny or Other In-Home Daycare Provider (Hrs/Wk)
BKBETRE8	Cared for at a Daycare Center (Hrs/Wk)
BKBETRE9	Cared for by Others (Hrs/Wk)
BKBETRE0	Cared for Solely by Respondent
BKGESU1	Child Usually Happy, Content
BKGESU2	Child Irritable / Cries Frequently
BKGESU3	Child Difficult to Console when Crying
BKGESU4	Child Curious, Active
BKGESU5	Child Communicative and Talkative
BKGESU6	Child Shows Empathy when Others Are Sad
BKGESU7	Worried About Childs Health
BKAKT1	Singing Children's Songs to/with Child – No. of Times during last 14 days
BKAKT2	Taking Walks Outdoors, No. of Times during last 14 days
BKAKT3	Painting or Doing Arts and Crafts - No. of Times during last 14 days
BKAKT4	Reading or Telling Stories - No. of Times during last 14 days
BKAKT5	Looking at Picture Books -No. of Times during last 14 days
BKAKT6	Going to Playground - No. of Times during last 14 days
BKAKT7	Visiting Other Families with Children - No. of Times during last 14 days
BKAKT8	Going Shopping with Child - No. of Times during last 14 days
BKAKT9	Watching Television or Videos with Child - No. of Times during last 14 days

Variable Name	Content of the Variable
BKTV	Child Allowed to Watch Television or Videos Alone
BKEIG1	Child Tends to Be Shy / Outgoing
BKEIG2	Child Tends to Be Focused / Easily Distracted
BKEIG3	Child Tends to Be Obstinate / Obedient
BKEIG4	Child Tends to Be Quick to Learn New Things / to Need More Time
BKSPR1	Child Understands Brief Instructions
BKSPR2	Child Forms Sentences with at Least Two Words
BKSPR3	Child Speaks in Full Sentences (at Least Four Words)
BKSPR4	Child Listens Attentively to a Story for at Least Five Minutes
BKSPR5	Child Can Relate Simple Messages
BKALLT1	Child Eats with Spoon without Making a Mess
BKALLT2	Child Blows Nose without Assistance
BKALLT3	Child Uses Toilet to Do Number Two
BKALLT4	Child Puts On Pants and Underpants Frontwards
BKALLT5	Child Brushes Teeth without Assistance
BKBEW1	Child Walks Forwards Down the Stairs
BKBEW2	Child Uses Door Handle to Open Doors
BKBEW3	Child Climbs Jungle Gyms and Other High Playground Equipment
BKBEW4	Child Uses Scissors to Cut Paper
BKBEW5	Child Paints / Draws Recognizable Forms on Paper
BKSOZ1	Child Calls Familiar People by Name
BKSOZ2	Child Plays Games with Other Children
BKSOZ3	Child Participates in Role-Playing Games
BKSOZ4	Child Shows Particular Liking for Certain Playmates or Friends
BKSOZ5	Child Calls His/Her Own Feelings by Name, e.g., Sad, Happy, scared
BKDEUT	Language Spoken with Child
BKSEX	Childs Gender
BKSTOE1	Asthma
BKSTOE2	Chronic Bronchitis
BKSTOE3	Spastic / Acute Bronchitis
BKSTOE4	Pseudocroup / Croup Syndrome
BKSTOE5	Middle-Ear Inflammation
BKSTOE6	Hayfever
BKSTOE7	Neurodermatitis
BKSTOE8	Vision Impairment
BKSTOE9	Hearing Impairment
BKSTOE10	Nutritional Disorders
BKSTOE11	Motor Impairment
BKSTOE12	Other Impairments or Disorders
BKSTILL	Breast-feeding baby
BKSTILLM	Breast-feeding time in months

16 BIOAGE06: Generated Variables from the supplementary questionnaire

“Your child between the ages of five and six”

By David Richter, Anne Fromm, Sebastian Frischholz, and Jürgen Schupp

In 2008 the questionnaire “Your child between the ages of five and six” was used for the first time. This questionnaire was given to mothers with a child between the ages of five and six at the time of the survey. The questionnaire seeks indicators for the child’s individual course of development and the mother’s specific experiences with her child. It also extends the indicators collected since 2003 through the Mother & Child questionnaire further; for the children in these cohorts the new supplementary questionnaire acts as a continuation of the information already collected on individual development characteristics. Thus the questions are consistent with those of BIOAGE03 but were adapted to the situation of a five or six year old child.

The questionnaire consists of 12 questions in the following main thematic areas:

- Body measurements and health
- Recreational activities
- Child’s abilities
- Childcare situation
- Parental experiences with the child

The data set currently consists of 661 children including 6 pairs of twins and 31 pairs of siblings. Thus, 661 mothers responded to the questionnaire.

Number of Respondents of Mother & Child Questionnaire

<i>Year of birth</i>	<i>Year of data collection</i>			total
	2002	2003	2004	
2008	237	0	0	237
2009	0	210	0	210
2010	0	0	214	214
Total	237	210	214	661

Number of Twins and Siblings

<i>mothers with</i>	1 child	2 children	total
children	587	37	624
pairs of twins	0	6	6
pairs of siblings	0	31	31
total number of children	587	74	661

In the exceptional case that the mothers can't fill out the questionnaire the father responds. His person-ID is PERSNRM as the ones of the mothers. The current BIOAGE06 file includes 6 fathers.

Person-ID of child PERSNR	Person-ID of parent PERSNRM
1159103	1159102
2766805	2766801
2976003	2976001
3014505	3014501
3190907	3190901
7225405	7225401

At the moment (2010) there are 158 children for whom information is gained from all of Mother & Child Questionnaires (BIOAGE01, BIOAGE03, BIOAGE06 and BIOAGE08). A detailed overview of the participation in the age-specific instruments can be found in the documentation of BIOAGE01.

16.1 Content and goal of the BIOAGE06 dataset

The BIOAGE06 dataset makes up one part of our observation of the young people comprising the new SOEP generation before they reach respondent age themselves, a process we aim to make as comprehensive and gap-free as possible. We sort the data according to the fixed original household number HHNR as well as the unchanged person ID number of the child (PERSNR) so that information from BIOAGE06 can be directly linked to the annual child data (\$KIND) or to PPFAD or PHRF.

The BIOAGE06 dataset is based on all those individuals who are referred to as children in the questionnaire. If a mother has more than one child of this age, she fills out the corresponding number of questionnaires—one per child. It can be determined whether the child has siblings through the identical person ID number of the mother (PERSNRM). The mother's permanent person ID number can also be used to establish links to data from the individual and household files.

The variables in BIOAGE06 correspond to the answers to the questionnaire “Your child between the ages of five and six”. The information provides both the month and year of birth and also the current height and weight of the child. The generated variable BCPALTER provides the current age of the child at the point in time of the survey and in that particular year. The data set contains not only information on childhood illnesses, hospital stays, and doctor visits, but also information on the child's behavior and level of development from the mother's point of view. Very detailed data is collected on the child's abilities: linguistic capacities, everyday skills, motor abilities, and social relationships. There are also detailed questions regarding the childcare situation. In addition to questions about recreational activities during the last 14 days and the child's TV-watching habits, we ask whether household members usually speak German or another language with the child at home.

16.2 Variables in BIOAGE06

Number of observations: 661

Wave: BA

Samples: A, B, C, D, E, F, G, H, I

Variable Name	Content of the Variable
HHNRAKT	Current Wave HH Number
PERSNR	Permanent Person ID Child
PERSNRM	Permanent Person ID Mother
SVYEAR	Survey Year
BCPGEBMO	Child's Month of Birth
BCPGEBJA	Child's Year of Birth
BCPALTER	Age of Child (in Months) at Time of Survey
BCPGEW	Child's Weight in kg
BCPGROE	Child's height in cm
BCPSEX	Child's gender
BCPSTOE0	Child has limitations compared to other children
BCPKRHAU	Length of child's hospital stays in last 12 months in days
BCPARZT	Number of child's doctor visits in last three months
BCPVER01	Child is considerate
BCPVER02	Child is restless, hyperactive, can't sit still
BCPVER03	Child shares with other children
BCPVER04	Child often has fits of anger, quick-tempered
BCPVER05	Child is a loner, usually plays alone
BCPVER06	Child is helpful when others are hurt, sick, sad
BCPVER07	Child is fidgety
BCPVER08	Child argues with or bullies others
BCPVER09	Child is often unhappy, cries easily
BCPVER10	Child is popular with peers
BCPVER11	Child is easily distracted, lacks concentration
BCPVER12	Child is nervous or clingy in new situations
BCPVER13	Child gets teased or bullied by peers
BCPVER14	Child frequently offers to help others
BCPVER15	Child gets along with adults better than with other children
BCPVER16	Child has a lot of fears, gets scared easily
BCPVER17	Child completes tasks, can concentrate for an extended period
BCPSTOE1	Respiratory disorder
BCPSTOE2	Middle-ear inflammation
BCPSTOE3	Neurodermatitis
BCPSTOE4	Defective vision
BCPSTOE5	Nutritional disorders
BCPSTOE6	Motor impairment
BCPSTOE7	Other impairments or disorders
BCPAKT01	Frequency of trips to playground in the last 14 days
BCPAKT02	Frequency of walks outdoors in the last 14 days
BCPAKT03	Frequency of visits to other families with children in the last 14 days
BCPAKT04	Frequency of trips shopping with child in the last 14 days

Variable Name	Content of the Variable
BCPAKT05	Frequency of times singing children's songs in the last 14 days
BCPAKT06	Frequency of painting or doing arts and crafts in the last 14 days
BCPAKT07	Frequency of playing cards or dice in the last 14 days
BCPAKT08	Frequency of watching TV or videos with child in the last 14 days
BCPAKT09	Frequency of computer/online gaming in the last 14 days
BCPAKT10	Frequency of trips to children's theater, circus, museum, etc. in the last 14 days
BCPAKT11	Frequency of reading or story-telling in German in the last 14 days
BCPAKT12	Frequency of reading or story-telling in another language in the last 14 days
BCPTV	Child is allowed to watch TV or videos alone
BCPBETR1	Cared for by spouse/partner: (Hrs/Wk)
BCPBETR2	Cared for by child's father (if not resident of same household) (Hrs/Wk)
BCPBETR3	Cared for by grandparents: (Hrs/Wk)
BCPBETR4	Cared for by older siblings: Hrs Per Wk
BCPBETR5	Cared for by other relatives: (Hrs/Wk)
BCPBETR6	Cared for in family day care (Hrs/Wk)
BCPBETR7	Cared for by a nanny or other in-home daycare provider (Hrs/Wk)
BCPBETR8	Cared for at a daycare center (Hrs/Wk)
BCPBETR9	Cared for by others (Hrs/Wk)
BCPBETR0	Cared for solely by respondent
BCPEIG01	Child tends to be communicative / quiet
BCPEIG02	Child Tends to Be messy / neat
BCPEIG03	Child tends to be sweet-tempered / easily excited
BCPEIG04	Child tends to be disinterested / curious
BCPEIG05	Child tends to be self-confident / tends to lack confidence
BCPEIG06	Child tends to be withdrawn / outgoing
BCPEIG07	Child tends to be focused / easily distracted
BCPEIG08	Child tends to be obstinate / obedient
BCPEIG09	Child tends to learn quickly / to need more time
BCPEIG10	Child tends to be anxious / fearless

17 BIOAGE08A and BIOAGE08B: Generated Variables from the 'Parents Questionnaire'

by David Richter, Anne Fromm, Sebastian Frischholz, and Jürgen Schupp

In 2010 the questionnaire "Your child between the age of seven and eight" was used for the first time. This questionnaire was given to mothers and fathers with a child between the ages of seven and eight at the time of the survey. The file was split into two on the basis of the parent's sex and the household type the respondent is living in. BIOAGE08A includes only mothers and some fathers, where there was no information of the mothers available. BIOAGE08B includes only fathers. The questionnaire seeks indicators for the parental experiences with the child and the education goals of the parents. The questionnaire is comprised of 11 questions which cover 5 subjects:

- Expectations about schooling success of the children
- Educational goals of the parents
- Educational behaviour of the parents
- Self-conception of the role of parents
- Childcare situation

BIOAGE08A includes all mothers who filled out the questionnaire and some fathers where there was no information of the mothers available. BIOAGE08A thus comprises 217 respondents, 210 mothers and 7 fathers. One of the fathers is a single father, the other six are partnered.

Respondent's household type and relationship to head of household, BIOAGE08A

Relationship to head of hh			Household type				total
			single	couple	Multi-generation	other	
Head of household	sex	male	1	5	0		6
		female	26	86	1		113
	total		27	91	1		119
Spouse of head of hh	sex	male		1		0	1
		female		93		1	94
	total			94		1	95
Life partner of head of hh	sex	female	1	5			6
	total		1	5			6
total			28	190	1	1	217

BIOAGE08A currently consist of 221 children including 3 pairs of siblings and one pair of twins.

Number of Twins and Siblings, BIOAGE08A

<i>parents with</i>	1 child	2 children	<i>total</i>
child	213	4	217
siblings	0	3	3
twins	0	1	1
total	213	8	221

BIOAGE08B includes 149 fathers. All of them are partnered.

Respondent's household type and relationship to head of household, BIOAGE08B

<i>Relationship to head of household</i>	<i>total</i>
Head of household	91
Spouse of head of hh	49
Life partner of head of hh	9
total	149

BIOAGE08B currently consist of 152 children, including 2 pairs of siblings and one pair of twins.

<i>fathers with</i>	1 child	2 children	<i>total</i>
child	146	3	149
siblings	0	2	2
twins	0	1	1
total	146	6	152

At the moment (2010) there are 158 children for whom information is gained from all of the Mother & Child Questionnaires (BIOAGE01, BIOAGE03, BIOAGE06 and BIOAGE08). A detailed overview of the participation in the age-specific instruments can be found in the documentation of BIOAGE01.

17.1 Contents and aims of the BIOAGE08 data file

The BIOAGE08 dataset makes up one part of our observation of the young people comprising the new SOEP generation before they reach respondent age themselves, a process we aim to make as comprehensive and gap-free as possible. We sort the data according to the fixed original household number HHNR as well as the unchanged person ID number of the child (PERSNR) so that information from BIOAGE08A and BIOAGE08B can be directly linked with each other or to the annual child data (\$KIND) or to PPFAD or PHRF.

The BIOAGE08 dataset is based on all those individuals who are referred to as children in the questionnaire. If a mother or father has more than one child of this age, she/he fills out the corresponding number of questionnaires—one per child. It can be determined whether the child has siblings through the identical person ID number of the mother/father (PERSNRE). The mother's/father's permanent person ID number can also be used to establish links to data from the individual and household files.

The variables in BIOAGE08A and BIOAGE08B correspond to the answers to the questionnaire "Your child between the ages of seven and eight". The information

provides month and year of birth, child's and parent's gender and the question whether the parents are biological parents. The generated variable EBAALTER (in BIOAGE08A) and EBBALTER (in BIOAGE08B) provides the current age of the child at the point in time of the survey and in that particular year. The school information includes not only the ideal graduation but also the probable graduation that the child will reach from the parent's point of view. Very detailed data is collected on the education goals, education behavior and the self-conception of the parents role. There are also detailed questions regarding the childcare situation.

The names of the variables in BIOAGE08A and BIOAGE08B differ from each other. In BIOAGE08A names start with "EBA..." and in BIOAGE08B names start with "EBB..."

17.2 Variables in BIOAGE08A

Number of cases: 221 Wave: BA Sub-samples: A, B, C, D1, D2, E, F, G, H, I

Variable Name	Content of the Variable
HHNR	Household number
HHNRAKT	Current Wave household number
PERSNR	Never changing person-ID of the child
PERSNRE	Never changing person-ID of the parent
SEX_E	Parent's gender
SEX_C	Child's gender
SVYYEAR	Survey year
EBAGEBJA	Child's year of birth
EBAGEBMO	Child's month of birth
EBAALTER	Child's age
EBABIOEL	Biological parents
EBASCHMO	First month of school enrolment
EBASCHJA	First year of school enrolment
EBAKSCH	Child hasn't been enrolled in school yet
EBAIDHAU	Ideal graduation of child: Second General School
EBAIDREA	Ideal graduation of child: Intermediate Secondary School
EBAIDGYM	Ideal graduation of child: Grammar Secondary Class, A-level
EBAWAHAU	Probable graduation of child: Secondary General School
EBAWAREA	Probable graduation of child: Intermediate Secondary School
EBAWAGYM	Probable graduation of child: Grammar Secondary Class, A-level
EBAEZI1	Education goal: be a good pupil
EBAEZI2	Education goal: get along with other kids
EBAEZI3	Education goal: interested child
EBAEZI4	Education goal: act like normal girl/boy
EBAEZI5	Education goal: be honest
EBAEZI6	Education goal: have good manners
EBAEZI7	Education goal: have good self-control
EBAEZI8	Education goal: be responsible

Variable Name	Content of the Variable
EBAEZI9	Education goal: treat others with respect
EBAEZI10	Education goal: obey the parents
EBAEZI11	Education goal: have good ability to judge
EBAEZI12	Education goal: be clean and neat
EBAEZI13	Education goal: strive to achieve aims
EBAEZI14	Education goal: fit in well in groups
EBAEZI15	Education goal: learn to fight obstacles
EBAEZI16	Education goal: be satisfied with itself
EBAEZI17	Education goal: learn to avoid risks
EBAEZI18	Education goal: be lovable
EBAMET1	Education behavior: show love
EBAMET2	Education behavior: criticize
EBAMET3	Education behavior: ask what it has experienced
EBAMET4	Education behavior: punishment
EBAMET5	Education behavior: threaten penalty, but don't penalize
EBAMET6	Education behavior: knowing where child is
EBAMET7	Education behavior: rather strict to child
EBAMET8	Education behavior: comfort when child feels sad
EBAMET9	Education behavior: shouting when child makes mistakes
EBAMET10	Education behavior: a disobedient child is ungrateful
EBAMET11	Education behavior: don't talk to child for a while
EBAMET12	Education behavior: intimate not to act against
EBAMET13	Education behavior: compliment my child
EBAMET14	Education behavior: show love
EBAMET15	Education behavior: try to affect circle of friends
EBAMET16	Education behavior: cut penalty short or cancel it
EBAMET17	Education behavior: disappointed about bad behavior
EBAMET18	Education behavior: hard to be consequent in upbringing
EBARO1	Be parents: Sacrifice own wishes
EBARO2	Be parents: a disobedient child wants to anger
EBARO3	Be parents: child is purpose in life
EBARO4	Be parents: captured in parental responsibility
EBARO5	Be parents: problems in upbringing I blame on child
EBARO6	Be parents: together with child is the best
EBARO7	Be parents: would bear everything for child
EBARO8	Be parents: child misconducts with intent
EBARO9	Be parents: drop everything to support child
EBARO10	Be parents: look forward to see child
EBAHBETR	Respondent is main provider of care
EBAHBE1	Cared for by Spouse/Partner (hours/week)
EBAHBE2	Cared for by Childs father/mother (hours/week)
EBAHBE3	Cared for by grandparents (hours/week)
EBAHBE4	Cared for by older siblings (hours/week)
EBAHBE5	Cared for by other relatives (hours/week)
EBAHBE6	Cared for by nanny or other (hours/week)
EBAHBE7	Cared for by others (hours/week)
EBAHBE8	Cared for by school (hours/week)
EBAHBE9	Cared for by after-school care club (hours/week)
EBAHBE10	Cared for by social institution, center (hours/week)
EBAHBE11	Cared for solely by respondent

17.3 Variables in BIOAGE08B

Number of cases: 152 Wave: BA Sub-samples: A,. B, C, D1, D2, E, F, G, H, I

Variable Name	Content of the Variable
HHNR	Household number
HHNRAKT	Current Wave household number
PERSNR	Never changing person-ID of the child
PERSNRE	Never changing person-ID of the parent
SEX_E	Parent's gender
SEX_C	Child's gender
SVYYEAR	Survey year
EBBGEBJA	Child's year of birth
EBBGEBMO	Child's month of birth
EBBALTER	Child's age
EBBBIOEL	Biological parents
EBBSCHMO	First month of school enrolment
EBBSCHJA	First year of school enrolment
EBBKSCH	Child hasn't been enrolled in school yet
EBBIDHAU	Ideal graduation of child: Second General School
EBBIDREA	Ideal graduation of child: Intermediate Secondary School
EBBIDGYM	Ideal graduation of child: Grammar Secondary Class, A-level
EBBWAHAU	Probable graduation of child: Secondary General School
EBBWAREA	Probable graduation of child: Intermediate Secondary School
EBBWAGYM	Probable graduation of child: Grammar Secondary Class, A-level
EBBEZI1	Education goal: be a good pupil
EBBEZI2	Education goal: get along with other kids
EBBEZI3	Education goal: interested child
EBBEZI4	Education goal: act like normal girl/boy
EBBEZI5	Education goal: be honest
EBBEZI6	Education goal: have good manners
EBBEZI7	Education goal: have good self-control
EBBEZI8	Education goal: be responsible
EBBEZI9	Education goal: treat others with respect
EBBEZI10	Education goal: obey the parents
EBBEZI11	Education goal: have good ability to judge
EBBEZI12	Education goal: be clean and neat
EBBEZI13	Education goal: strive to achieve aims
EBBEZI14	Education goal: fit in well in groups
EBBEZI15	Education goal: learn to fight obstacles
EBBEZI16	Education goal: be satisfied with itself
EBBEZI17	Education goal: learn to avoid risks
EBBEZI18	Education goal: be lovable
EBBMET1	Education behavior: show love
EBBMET2	Education behavior: criticize
EBBMET3	Education behavior: ask what it has experienced
EBBMET4	Education behavior: punishment
EBBMET5	Education behavior: threaten penalty, but don't penalize
EBBMET6	Education behavior: knowing where child is
EBBMET7	Education behavior: rather strict to child

Variable Name	Content of the Variable
EBBMET8	Education behavior: comfort when child feels sad
EBBMET9	Education behavior: shouting when child makes mistakes
EBBMET10	Education behavior: a disobedient child is ungrateful
EBBMET11	Education behavior: don't talk to child for a while
EBBMET12	Education behavior: intimate not to act against
EBBMET13	Education behavior: compliment my child
EBBMET14	Education behavior: show love
EBBMET15	Education behavior: try to affect circle of friends
EBBMET16	Education behavior: cut penalty short or cancel it
EBBMET17	Education behavior: disappointed about bad behavior
EBBMET18	Education behavior: hard to be consequent in upbringing
EBBRO1	Be parents: Sacrifice own wishes
EBBRO2	Be parents: a disobedient child wants to anger
EBBRO3	Be parents: child is purpose in life
EBBRO4	Be parents: captured in parental responsibility
EBBRO5	Be parents: problems in upbringing I blame on child
EBBRO6	Be parents: together with child is the best
EBBRO7	Be parents: would bear everything for child
EBBRO8	Be parents: child misconducts with intent
EBBRO9	Be parents: drop everything to support child
EBBRO10	Be parents: look forward to see child
EBBHBETR	Respondent is main provider of care
EBBHBE1	Cared for by Spouse/Partner (hours/week)
EBBHBE2	Cared for by Childs father/mother (hours/week)
EBBHBE3	Cared for by grandparents (hours/week)
EBBHBE4	Cared for by older siblings (hours/week)
EBBHBE5	Cared for by other relatives (hours/week)
EBBHBE6	Cared for by nanny or other (hours/week)
EBBHBE7	Cared for by others (hours/week)
EBBHBE8	Cared for by school (hours/week)
EBBHBE9	Cared for by after-school care club (hours/week)
EBBHBE10	Cared for by social institution, center (hours/week)
EBBHBE11	Cared for solely by respondent

18 BIOEDU (beta version): Data on educational participation and transitions

by Henning Lohmann and Sven Witzke

The Socio-Economic Panel Study (SOEP) contains a broad range of variables which cover early child education and care, educational participation, educational degrees and other related topics. However, the respective questions are included in different questionnaires (e.g. personal questionnaire, household questionnaire, youth questionnaire) and the variables are not always in a format which is suited for longitudinal analyses. For instance, transitions such as school enrolment or entry into tertiary education are not documented in a single variable but can only be reconstructed by comparing the status in a wave t with the status in a wave $t+1$ (e.g., a transition into tertiary education took place if a person was not in university in wave t but is in university in wave $t+1$).⁵¹ Generating such variables is time-consuming and prone to errors. It is the aim of the BIOEDU dataset to provide ready-made variables on educational transitions and related topics in order to support analyses in a longitudinal perspective.

The BIOEDU dataset is primarily based on prospectively collected information. Therefore, it contains most information for those persons who have been part of the survey population at the time when they have attended school or other educational institutions. In total the dataset contains information on 57,250 persons. This is the part of the SOEP sample for whom we have observed an educational transition and/or an educational degree. For the larger part of this group we have observed an educational degree only ($n=41,272$). These are persons who have not been a part of the sample at the time when they participated in education or experienced educational transitions. The smaller part of the sample is more interesting for longitudinal analyse of educational participation. These are persons who lived in a survey household at the time of educational participation.⁵² Depending on the age of the individual the dataset contains variables on:

⁵¹ But since 2010 a direct question on school enrollment is included in the newly introduced parental questionnaire for 7/8 years old children.

⁵² Accordingly the first group is much older than the second group. At the time of the first observation in the sample the first group is on average 45 years old while the second group has an average age below 9 years.

- early child education and care (ECEC)
- entry into primary school
- transition to secondary school
- first exit from secondary school
- secondary school attendance after first exit from school
- first entry into and exit from vocational training
- vocational training participation after first
- first entry into and exit from tertiary education
- tertiary education participation after first exit
- highest ever obtained educational degrees and last observed educational participation

The SOEP as a general household panel study is not specifically directed at the analysis of educational life courses. Nevertheless, right from the beginning of the panel in 1984 the survey instruments contained questions on the educational attainment of the respondents (aged 17 and older) and children younger than 17 years living in survey households. After more than 25 years of survey duration these data provide a precious source for the reconstruction of educational life courses. In the following we describe how we use these data to reconstruct educational transitions starting before school enrolment and up to post-secondary education.

The reconstruction of transitions is primarily based on yearly information on educational participation (i.e. entry and exit reconstructed from changes in participation). For later transitions there is some more information as explicit questions on the end of general school, vocational training and tertiary education are part of the questionnaires (changes during the year prior to the survey, only for persons aged 17+ years, exception: already obtained degrees before age 17 in youth questionnaire). In the following we describe in detail how each of the variables is constructed.

One remark on the variable naming conventions: The variable names always begin with “be” which stands for “biography education” (in analogy to other biography datasets). The third and forth letter denote the type of transition or similar. For instance, to stands for variables on the first and t1 for the last year in child care. Variables on starting school contain a t2 and so on (up to t8= exit from tertiary education). Variables containing and x as the third letter contain information on the

last observed year in education or on the highest educational degrees ever obtained (x4, x6, x8).

Using this dataset you should keep in mind that most of the information covered by the dataset is not directly asked in the SOEP questionnaires but has been derived from the combination of several variables. In the process of reconstruction assumptions have been made which we tried to describe as detailed as possible in the previous sections. The more these assumptions are based on additional knowledge, e.g. provided by strict institutional regulations, the better for the reconstruction of the transitions.

The dataset covers transitions starting in early childhood up to tertiary education. For a part of the sample only one of these transitions or episodes is observed, for others the whole sequence from elementary education until the exit from tertiary education. The variable *beinfo* provides an overview on the frequencies of these different patterns. In total the dataset contains information on 57,250 persons. This is the part of the SOEP sample for whom we have observed an educational transition and/or an educational degree. For 389 cases we have full information (pattern 81111111).

We have provided a number of variables where we documented the process of data generation and the sources where the data stem from (*betXinfo*, variables with suffixes *_s* or *_g*). You could use these variables as indicators of the degree of uncertainty in the process of the reconstruction of educational transitions. The less the variables could be reconstructed just using the basic algorithm (e.g., *bet2info*<>"oooo|o|oooo"), the higher is the degree of uncertainty. The same applies to long durations between an observed exit and the observation of a matching educational degree (e.g., a high value in *bet6cert_g*). It is certainly advisable to check if certain deviations in the process of data generation "explain" substantial results. E.g., if children living in households who were interviewed in August (this information is provided in *betXinfo*) have a much higher propensity of starting school late (*bet2agemo*), this might just be a data artefact because it is difficult to decide if the information the household provided referred to the school year which just started in August or to the school year which just ended at the time of the interview. In general, you should expect that there are no such systematic measurement errors in the reconstructed variables. But if you want to have a closer look on potential biases you could use the respective variables which document the data generation process. This documentation describes a beta version of

the dataset (v27_o.2). If you have comments or encounter while using the dataset, please let us know.

More detailed information is provided in:

Lohmann, Henning / Witzke, Sven (2011): BIOEDU (beta version): Biographical data on educational participation and transitions in the German Socio-Economic Panel Study (SOEP), DIW Data Documentation No 58, Berlin.

19 LIFESPELL: Information on the Pre- and Post-Survey History of SOEP-Respondents

by Hannes Neiss and Martin Kroh

Prospective panel surveys typically face the problem that no information is available on units of analysis after respondents have left the survey. The SOEP team therefore regularly conduct drop-out studies to identify the whereabouts of attritors. These studies draw on official register data and allow us to determine whether a person is still alive, is deceased, or has moved abroad since the last SOEP interview. The information is combined in a spell file LIFESPELL. This dataset reports all available information on the pre- and the post-survey history of all persons who have ever been a member of a SOEP household. The LIFESPELL file lends itself particularly to mortality research, migration research, and non-response research. It extends the period under investigation from the last SOEP interview to the last drop-out study and thus reduces the problem of selective observational probabilities of units of analysis. For users less familiar with spell files, we also provide a STATA code for converting a spell file into a long format file (persnr x year) at the end of this chapter.

The file includes spells for every person ever living in a SOEP household. Each spell indicates one of the following states:

- Living abroad
- Living in Germany
- Living in Germany + part of a SOEP HH⁵³
- Deceased
- No information about status

The information comprised by the LIFESPELL file includes the following:

- Year of birth
- Migration background
- Year of immigration *

⁵³ This code does not distinguish between active and inactive respondents, such as children and temporary non-respondents. As long as interviewers can contact the household (even though an interview might not take place), we have information on the vital status of respondents. Therefore, all HH members are coded as being in the SOEP until the HH finally drops out of the SOEP and is no longer followed up by the interviewer.

- Year of entry into SOEP
- Year of exit out of SOEP
- Year of emigration*
- Year of death

The year of birth, migration background, and year of immigration are self-reported (retrospective) information from personal interviews (e.g., P-files). The year of entry and exit are taken from gross information reported by the interviewer (e.g., PBRUTTO-files). The year of emigration and the year of death can either come from related persons in the household (e.g., DECEASED-files), the interviewer (e.g., PBRUTTO-files), or, finally, from drop-out studies.

The following drop-out studies have been conducted in the past:

- a) **1992 drop-out study** The study provides information about the dates of death or emigration, or one can infer that a person was still living in Germany until 1992.
- b) **2001 drop-out study** The study provides information about the dates of death or emigration, or one can infer that a person was still living in Germany until 2001. Additionally, the study allows us to analyze regional mobility within Germany. It includes HH drop-outs from 1985-1998.
- c) **2006 drop-out study** The study is not a register study. Attritors were contacted by mail and responded by mail. It allows us to include the year of death for those whose letters returned by post with the mark “deceased” or whose letters were answered by relatives or friends. Those who answered themselves can also be assumed to still have been living in Germany in 2006. No information is available for cases where there was no response. No information about emigration is given. The study includes drop-outs from 2001-2004.

* indicates that the fact is only necessary for subgroups of the population

d) 2008 drop-out study The latest of the studies provides information about the year of death and those still living in Germany in 2008. Emigration is captured insufficiently. It includes drop-outs from 1985-2006.

Year of study	1992	2001	2006	2008
<i>Population at risk</i>				
Attritors between...	1984-1990	1984-1998	2001-2004	1985-2006
Overall	1,089	8,082	4,982	5,838
Identified	1,044	7,106	962	5,591
<i>Information available</i>				
Death	+	+	(+)	+
Emigration	+	+	(+)	(+)
Mobility within Germany		+		

LIFESPELL contains the following variables. Comments are added to clarify certain assumptions made when coding the variables.

SPELLNR

Var Label: SPELLNR **"Number of spell"**

Var format: SPELLNR (I2)

Comment: This variable indicates the spell number.

SPELLTYP

Var Label: SPELLTYP **"Type of spell"**

Value Label: SPELLTYP (1)"Living in Germany"

(2)"SOEP"

(3)"Living abroad"

(4)"Deceased"

(5)"Gap"

Comment: The variable gives information about the current residence and status of the person. "Living in Germany" means that the person lives in Germany, but is not yet or no longer part of a SOEP HH. Persons who are part of a SOEP HH are given the "SOEP" code on this variable. Note that the code refers to the person being part of the gross sample, which also includes children and covers periods of temporary drop-outs as well as the final year when respondents refuse to participate. If a spell is coded "Abroad," this means a person has not yet immigrated to Germany or has already emigrated. "Deceased" indicates the spell with the year of death and finally "Gap" means that for the time marked by the spell no information about the person's status can be determined.

BEGIN

Var label: BEGIN **"Year in which spell begins"**

END

Var label: BEGIN **"Year in which spell ends"**

Comment: Two consecutive spells may overlap for one year in individual cases. This happens, for instance, when refusal to respond coincides with emigration in the same year.

CENSORING

Var label: CENSORING **"Censoring: How and why"**

Value Label: CENSORING

- (10) "left censored"
- (11) "left censored: gap"
- (20) "right censored"
- (21) "right censored: gap"
- (22) "rc: no information after SOEP"
- (23) "rc: no information after 1992 study"

- (24) "rc: no information after study 2001"
- (25) "rc: no information after study 2006"
- (26) "rc: no information after study 2008"
- (27) "rc: end of survey"
- (40) "spell does not exist"
- (50) "not censored"
- (60) "right+left censored: gap"

Comment: The variable "censoring" gives information for each spell if all necessary information is available or if the spell is (left or right) censored, and why. If some information is missing, it is indicated by "Gap." There are several instances when one or several facts are missing. For example, not every person reports a valid year of birth or year of immigration. In addition, sometimes we are able to report that a person is deceased but not the year of death. In these cases, a spell called "Gap" is inserted between the last information which is certain (e.g., exit from SOEP) and the latest point in time by which the change in status must have happened. (For example, death must have occurred before the study was conducted, so the year of the study is the year of death; between the last SOEP participated in and the year of the study is the gap spell for which no information is certain except that the respondent's death must have happened during this period.)

INFO

Var label: INFO **"Origin of information of spell"**

Value label:

- (1) "SOEP survey"
- (2) "SOEP fieldwork"
- (3) "1992 study"
- (4) "2001 study"
- (5) "2006 study"
- (6) "2008 study"
- (7) "no info"

Comment: The variable indicates the information source for a spell. This can be a retrospective self-report (SOEP survey), fieldwork information provided by the interviewer (SOEP fieldwork), or a register-based drop-out study (1992, 2001, 2006, and 2008 studies).

STUDY\$\$\$\$

Var label: STUDY\$\$\$\$ **"Study \$\$\$\$"**

Value label:

- (1) "not in study"
- (3) "found in study"
- (4) "not found in study"

Comment: The variable indicates if a person was part of the drop-out study in \$\$\$\$\$. A further distinction is made whether or not the person could be identified in register data.

FLAG

Var label: FLAG **"Spell information deviates from other SOEP information"**

Comment: In case of conflicting information between the drop-out studies and SOEP-based information, we give higher priority to the information from the drop-out studies. If two or more studies provide different information, that from the latest study is used. In just a few cases (110), the data set includes spells that contain information deviating from other SOEP data ("flag"). This happens, for instance, if register information says persons emigrated one year prior to refusal to take part in the SOEP. In this case, both spells end/begin in the same year with the register information being corrected by one year. A change in the original register information is coded 1 on the flag variable.

The following two tables illustrate the data structure for two individuals in the SOEP. Both individuals were born abroad, moved to Germany, became part of the SOEP sample, refused to participate after several waves, and finally deceased. While in the first case, full information is available (no censoring), in the second case the exact year of immigration and

the exact year of death are missing and therefore “gaps” had to be added (left and right censoring).

persnr	spellnr	spelltype	begin	end	censoring	info
7016603	1	Living abroad	1903	1989	not censored	SOEP survey
7016603	2	Living in Germany	1990	1993	not censored	SOEP survey
7016603	3	SOEP	1994	1999	not censored	SOEP fieldwork
7016603	4	Living in Germany	2000	2003	not censored	2008 study
7016603	5	Deceased	2004	2004	not censored	2008 study

persnr	spellnr	spelltype	begin	end	censoring	info
2808901	1	Living abroad	1927	1927	rc: no year of immigration	SOEP survey
2808901	2	Gap	1928	1998	right+left censored (gap)	SOEP survey
2808901	3	Living in Germany	1999	1999	lc: no year of immigration	SOEP survey
2808901	4	SOEP	2000	2001	not censored	SOEP fieldwork
2808901	5	Living in Germany	2002	2002	rc: no exact year of death	2008 study
2808901	6	Gap	2003	2007	right+left censored (gap)	No info
2808901	7	Deceased	2008	2008	lc: no exact year of death	2008 study

Users less familiar with analyzing spell data can easily convert the file into a long-format file (person x year). This is an example of STATA coding:

```
use lifespell.dta, clear
gen spellduration=(end-begin)+1
expand spellduration
bysort persnr spellnr: gen n=_n
gen year = begin+n-1
move year spellnr
keep persnr year spellnr spelltyp tensor info study1992 study2001 study2006 study2008 flag
compress
save lifelong.dta, replace
```

Index

- \$FAMSTD 64, 67
 \$JUGEND 23, 25, 99, 110, 111, 112, 113, 114, 115, 116,
 117, 118, 119, 120, 121, 122, 123, 124,
 125, 126, 127, 128, 129, 130, 131, 132,
 133, 134, 135, 136, 137, 138, 139, 141,
 157
 \$KIND 7, 11, 13, 14, 15, 76, 77, 81, 83, 84, 89, 90, 94,
 149, 154, 180, 186, 191, 196
 \$KMUP 149, 154
 \$KMUTTI 7, 81, 83, 84, 90, 149, 154
 \$LELA 7, 13, 14, 15, 23, 25, 30, 41, 70, 78, 99, 122, 123,
 124, 125, 126, 127, 128, 129, 130, 133,
 139, 141, 157, 165
 \$P 5, 10, 11, 14, 19, 22, 46, 47, 48, 52, 53, 59, 70, 99,
 131, 156, 164
 \$PAGE17 14, 16
 \$PAGE17 5, 23, 169
 \$PAUSL 22, 70, 72, 99, 132, 133, 134, 140
 \$PBRUTTO 11, 14, 22, 25, 28, 77, 80, 81, 83, 87, 89, 90,
 92
 \$PGEN 10, 19, 29, 53, 54, 64, 67, 103, 136, 153, 155
 \$PLUECKE 32, 70, 72
 \$SAMPREG 30
 \$STELL 80, 81, 82, 84, 95, 144, 149, 153, 154
 AGEATMV 43, 55
 AGEFJOB 42, 43, 45, 46, 47, 48, 49, 51, 61
 AGEINFO 43, 45, 47, 48, 61, 62, 63
 AGEINFO=10 48
 AGEINFO=11 48
 AGEINFO=7 48
 AK07A 20
 ALTER 147, 157
 ARTKALEN 32, 35, 38, 40, 158
 ARTKALEN. 35
 BAJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109,
 140
 BALELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 111,
 112, 113, 114, 115, 116, 117, 118, 119,
 120, 121, 122, 123, 136, 137, 138, 140
 BAP 25, 61, 134, 135
 BCBEFIN1 181
 BCBEFIN2 181
 BCBEFIN3 181
 BCBEFIN4 181
 BCBETRE1 181
 BCBETRE2 181
 BCBETRE3 181
 BCBETRE4 181
 BCBETRE5 181
 BCBETRE6 181
 BCBETRE7 181
 BCBETRE8 181
 BCENTBIN 181
 BCHAUPTB 181
 BCKAISER 182
 BCKALTER 181
 BCKALTER 180
 BCKARZT 181
 BCKGEBJA 181
 BCKGEBMO 181, 182
 BCKGESU1 181
 BCKGESU2 181
 BCKGESU3 181
 BCKGESU4 182
 BCKGESU5 182
 BCKGESU6 182
 BCKGEW 181
 BCKGROE 181
 BCKIZAHL 181
 BCKKOPF 181
 BCKKRHAU 181
 BCKLEIBL 181
 BCKLETZU 181
 BCKSEX 181
 BCKSTOE1 182
 BCKSTOER 181
 BCPAKT01 192
 BCPAKT02 192
 BCPAKT03 192
 BCPAKT04 192
 BCPAKT05 193
 BCPAKT06 193
 BCPAKT07 193
 BCPAKT08 193
 BCPAKT09 193
 BCPAKT10 193
 BCPAKT11 193
 BCPAKT12 193
 BCPALTER 191, 192
 BCPARZT 192
 BCPBETRO 193
 BCPBETR1 193
 BCPBETR2 193
 BCPBETR3 193
 BCPBETR4 193
 BCPBETR5 193
 BCPBETR6 193
 BCPBETR7 193
 BCPBETR8 193
 BCPBETR9 193
 BCPEIG01 193
 BCPEIG02 193
 BCPEIG03 193
 BCPEIG04 193
 BCPEIG05 193
 BCPEIG06 193
 BCPEIG07 193
 BCPEIG08 193
 BCPEIG09 193
 BCPEIG10 193
 BCPGEBJA 192
 BCPGEBMO 192
 BCPGEW 192
 BCPGROE 192
 BCPKRHAU 192
 BCPREBEG 182
 BCPREEND 182
 BCPREGMO 182
 BCPREGY 182
 BCPSEX 192
 BCPSTOE0 192
 BCPSTOE1 192

Index

BCPSTOE2	192	BIFAMC	98, 108, 109
BCPSTOE3	192	BIFAMCL	98, 108, 109
BCPSTOE4	192	BIGOBAC	98, 133
BCPSTOE5	192	BIGOBAC	133, 134, 135
BCPSTOE6	192	BIIMGRP	98, 99, 101
BCPSTOE7	192	BIIMGRP	20
BCPVER01	192	BIO	143, 147
BCPVER02	192	BIOAGE	77, 78, 79, 88
BCPVER03	192	BIOAGE01	2, 12, 13, 14, 178, 179, 180, 181, 182, 186, 190, 196
BCPVER04	192	BIOAGE03	2, 12, 179, 184, 185, 186, 187, 189, 190, 196
BCPVER05	192	BIOAGE06	12, 179, 180, 186, 189, 190, 191, 192, 196
BCPVER06	192	BIOAGE08	179, 186, 190, 196
BCPVER07	192	BIOAGE08A	12, 194, 195, 196, 197
BCPVER08	192	BIOAGE08B	12, 194, 195, 196, 197, 199
BCPVER09	192	BIOAGE17	2, 12, 160, 167, 169, 170, 172
BCPVER10	192	BIOBIRTH	11, 76, 78, 79, 82, 83, 84, 86, 88, 89, 90, 94, 95, 149, 154
BCPVER11	192	BIOBIRTHM	89, 90
BCPVER12	192	BIOBRTHM	11, 88, 89, 90, 91, 154
BCPVER13	192	BIOEDU	12, 201, 204
BCPVER14	192	BIOIMMIG	9, 20, 70, 72, 97, 99, 100, 169
BCPVER15	192	BIOJOB	11, 41, 42, 46, 47, 52, 61
BCPVER16	192	BIOKIDS	77, 80, 86, 88, 89, 92
BCPVER17	192	BIOLELA	7, 22, 25, 41, 59, 61, 78, 99, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 136, 137, 138, 139, 140, 141, 165
BCSSPLAN	181	BIOMARSM	64, 65, 66, 67, 69, 72, 75
BCSSW	181	BIOMARSY	11, 64, 67, 68, 69, 75
BCSTILL	182	BIOMONoz	93, 94, 96
BCSTILLM	182	BIOPAREN	9, 10, 20, 142, 143, 144, 148, 149, 153, 155, 156, 157, 169, 172
BCUNTPA	181	BIORESID	11, 30, 164, 165, 166
BCVATER	181	BIOsoc	10, 11, 30, 158, 159, 160, 161, 169
BCVERAE1	181	BIOTWIN	90, 93, 94, 95
BCVERAE1	180	BIOVALID	76, 78, 79, 84, 88, 90
BCVERAE2	181	BIOYEAR	42, 77, 85, 88, 91, 142, 147
BCVERAE3	181	BIOYOUTH	142, 167
BCVERAE4	181	BIRBETR	98, 110, 111, 112, 113, 114, 115, 116, 117
BCVERAE5	181	BIRELH	98, 122
BCVERAE6	181	BIRELH	122, 123, 124, 125, 126, 127, 128, 129, 130
BCVERAE7	181	BIRELHBS	98, 126
BCVERAE8	181	BIRELHBS	122, 123, 124, 125, 126, 127, 128, 129, 130
BEGIN	32, 64, 65, 66, 67, 68, 69, 74, 208	BIRELHC	98, 125
BEGINB1-ENDYK4	38, 39	BIRELHC	122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132
BEGINBIO	40	BIRELHC2	98, 132
BEGINK1-4	40	BIRELHC2	123, 125, 128, 131, 132
BEGINKAL	40	BIRELHDR	98, 127
BEGINY	32, 68, 69	BIRELHDR	122, 123, 124, 125, 126, 127, 128, 129, 130
BEGINYB	40	BIRELHFR	98, 129
BEGINYB1	38, 40	BIRELHFR	122, 123, 124, 125, 126, 127, 128, 129, 130
BEGINYK	40	BIRELHGP	98, 124
BEGINYK1	38, 40	BIRELHGP	122, 123, 124, 125, 126, 127, 128, 129, 130
BEGINYK2	38	BIRELHMI	98, 130
beinfo	203	BIRELHMI	122, 123, 124, 125, 126, 127, 128, 129, 130
bet2agemo	203	BIRELHP	98, 123
bet2info	203	BIRELHP	122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132
bet6cert_g	203	BIRELHS2	98, 131
betXinfo	203	BIRELHS2	123, 125, 128, 131, 132
BICAMP	98, 104, 105, 106	BIRELHSP	98, 128
BICAMPM	98, 106		
BICAMPW	98, 104, 105, 106		
BIEXPR	98, 118		
BIEXPR	118, 119, 120		
BIEXPRAC	98, 120		
BIEXPRAC	118, 119, 120, 121		
BIEXPRAN	98, 121		
BIEXPRAN	118, 119, 120, 121		
BIEXPRLV	98, 119		
BIEXPRLV	118, 119, 120, 121		

BIRELHSP 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132	BKGEBMO 187
BIRESPER 98, 99, 103	BKGESU1 187
BIRFAM 98, 110, 111, 112, 113, 114, 115, 116, 117	BKGESU2 187
BIRFREE 98, 110, 111, 112, 113, 114, 115, 116, 117	BKGESU3 187
BIRJUST 98, 110, 111, 112, 113, 114, 115, 116, 117	BKGESU4 187
BIRMONEY 98, 110, 111, 112, 113, 114, 115, 116, 117	BKGESU5 187
BIROTHR 98, 117	BKGESU6 187
BIROTHR 110, 111, 112, 113, 114, 115, 116, 117	BKGESU7 187
BIRPOOR 98, 110, 111, 112, 113, 114, 115, 116, 117	BKGEW 187
BIRWAR 98, 110, 111, 112, 113, 114, 115, 116, 117	BKGROE 187
BISCGC 98, 139	BKKRHAU 187
BISCGC 136, 137, 138, 139, 140, 141	BKSEX 188
BISCGCF 98, 140	BKSOZ1 188
BISCGCF 136, 137, 138, 139, 140, 141	BKSOZ2 188
BISCGCFN 98, 141	BKSOZ3 188
BISCGCFN 136, 137, 138, 139, 140, 141	BKSOZ4 188
BISCGER 98, 136	BKSOZ5 188
BISCGER 136, 137, 138, 139, 140, 141	BKSPR1 188
BISCGERC 98, 138	BKSPR2 188
BISCGERC 136, 137, 138, 139, 140, 141	BKSPR3 188
BISCGRAD 98, 137	BKSPR4 188
BISCGRAD 136, 137, 138, 139, 140, 141	BKSPR5 188
BISTAY 98, 134	BKSTILL 188
BISTAY 133, 134, 135	BKSTILLM 188
BISTAYY 98, 135	BKSTOE1 188
BISTAYY 133, 134, 135	BKSTOE10 188
BIWFAM 98, 107	BKSTOE11 188
BKAKT1 187	BKSTOE12 188
BKAKT2 187	BKSTOE2 188
BKAKT3 187	BKSTOE3 188
BKAKT4 187	BKSTOE4 188
BKAKT5 187	BKSTOE5 188
BKAKT6 187	BKSTOE6 188
BKAKT7 187	BKSTOE7 188
BKAKT8 187	BKSTOE8 188
BKAKT9 187	BKSTOE9 188
BKALLT1 188	BKSTOER 187
BKALLT2 188	BKTV 188
BKALLT3 188	BRMOVEIN 30, 166
BKALLT4 188	BSBAAABG 162
BKALLT5 188	BSBAAEND 163
BKALTER 186, 187	BSBAAFAN 163
BKARZT 187	BSBAAFBA 163
BKBETRE0 187	BSBAASCH 163
BKBETRE1 187	BSBAASON 163
BKBETRE2 187	BSBAAUNI 163
BKBETRE3 187	BSBAAZEA 163
BKBETRE4 187	BSBAAZEU 163
BKBETRE5 187	BSBADABG 162
BKBETRE6 187	BSBADBEA 162
BKBETRE7 187	BSBADBFS 162
BKBETRE8 187	BSBADEND 162
BKBETRE9 187	BSBADFHA 162
BKBEW1 188	BSBADFSC 162
BKBEW2 188	BSBADLEH 162
BKBEW3 188	BSBADSON 162
BKBEW4 188	BSBADUNI 162
BKBEW5 188	BSDAUER1 163
BKDEUT 188	BSDAUER2 163
BKEIG1 188	BSDIART 163
BKEIG2 188	BSDIGEL 163
BKEIG3 188	BSDIGRU 163
BKEIG4 188	BSFSJ 163
BKGEBJA 187	BSGSDEUT 161
	BSGSFMD1 161

Index

BSGSMATH 161	BYEFGELD 177
BSINTA 163	BYEFHART 177
BSINTNR 163	BYEFINI 177
BSKLAUSL 162	BYEFINT 177
BSLKDEUT 161	BYEFMANN 177
BSLKFMDD1 161	BYEFPOLI 177
BSLKMATH 161	BYEFSABS 177
BSMONIN 163	BYEGP 176
BSMUSSP 162	BYELABEN 175
BSNTDEUT 161	BYELDIFF 175
BSNTFMDD1 161	BYELHAUS 175
BSNTMATH 161	BYELKUEM 161, 175
BSPTDEUT 161	BYELLEHR 175
BSPTFMDD1 161	BYELSPRE 175
BSPTMATH 161	BYELVERT 175
BSSCHBES 162	BYEMPFEH 174
BSSCHEND 30, 162	BYENCHOR 174
BSSCHLA 162	BYENKSPR 174
BSSCHWO 30, 162	BYENNEIN 174
BSSCHZAR 162	BYENSONS 174
BSSCHZUK 162	BYENSPRT 174
BSSPRTAR 162	BYENSSPR 174
BSSPRTRR 162	BYENSZTG 174
BSSPRTWE 162	BYENTHEA 174
BSSTRMU 161	BYESAND 177
BSSTRVA 161	BYESENGA 171, 177
BSTAGIN 163	BYESERRE 177
BSZABAK 163	BYESFAEH 177
BSZABEA 163	BYESGLUE 177
BSZABFS 163	BYESHART 177
BSZAFH 163	BYESKNTR 177
BSZAFSC 163	BYESSOZU 177
BSZAJA 163	BYESVERL 171, 177
BSZALEH 163	BYESZWEI 177
BSZAUNI 163	BYFMD1 174
BYBAABGE 162, 175	BYFMD2 174
BYBABEGL 162, 175	BYFZABH 173
BYBABFS 162, 175	BYFZEHR 173
BYBABGJ 162, 175	BYFZFERN 173
BYBALEH 162, 175	BYFZINT 173
BYBWUNJA 176	BYFZJUGZ 173
BYBZ01MU 173	BYFZLESE 173
BYBZ01VA 173	BYFZMBFR 173
BYBZ02MU 173	BYFZMCLQ 173
BYBZ02VA 173	BYFZMFFR 173
BYBZ03MU 173	BYFZMUSH 173
BYBZ03VA 173	BYFZMUSS 173
BYBZ04MU 173	BYFZPC 173
BYBZ04VA 173	BYFZRELI 173
BYBZ05MU 173	BYFZSPRT 173
BYBZ05VA 173	BYFZTANZ 173
BYBZ06MU 173	BYFZTECH 173
BYBZ06VA 173	BYGEBJAH 161, 172
BYBZ07MU 173	BYGLKIND 177
BYBZ07VA 173	BYGSDEUT 161, 174
BYBZ08MU 173	BYGSFMDD1 161
BYBZ08VA 173	BYGSMATH 161, 175
BYBZ09MU 173	BYINTA 163, 177
BYDAUER1 163, 177	BYINTNR 163, 177
BYDAUER2 163, 177	BYISCO88 176
BYEFAUSN 177	BYISEI 176
BYEFBEZ 177	BYJBALT 172
BYEFFACH 177	BYJBFRUE 172
BYEFFAM 177	BYJBGRUN 172
BYEFFLEI 177	BYKLAS 176

Index

BYKLAUSL	162, 175	BYWBFREI	176
BYKLWD1	175	BYWBGSL	176
BYKLWD2	175	BYWBGSD	176
BYKLWDJA	175	BYWBHELF	176
BYLKDEUT	161, 175	BYWBINT	176
BYLKFMID1	161, 175	BYWBKONT	176
BYLKMATH	161, 175	BYWBSELB	176
BYMNR	172	BYWBSICH	176
BYMONIN	163, 177	BYWIBFR	172
BYMPS	176	BYWIBS	172
BYMUSALT	173	BYWICLQ	172
BYMUSART	171, 173	BYWIFFR	172
BYMUSMW	171, 173	BYWILEHR	172
BYMUSSP	162, 173	BYWIMU	172
BYMUSUNT	173	BYWISON	172
BYNACHHI	175	BYWIVA	172
BYNTDEUT	161, 174	BYWIVW	172
BYNTFMD1	161, 174	BYWOELT	172
BYNTMATH	161, 174	BYWOWEI	172
BYPTDEUT	161, 174	BYWOZIM	172
BYPTFMD1	161, 174	BYZABAK	163, 175
BYPTMATH	161, 174	BYZABEA	163, 175
BYSCHABS	174	BYZABFS	163, 175
BYSCHAUS	174	BYZAFH	163, 175
BYSCHBES	162, 171, 174	BYZAFSC	163, 175
BYSCHEND	162, 174	BYZAJA	163, 175
BYSCHPRI	174	BYZALEH	163, 175
BYSCHZAR	162, 174	BYZAUNI	163, 175
BYSCHZUK	162, 174	BYZBBES	176
BYSIOPS	176	BYZBELT	176
BYSLBALT	176	BYZBINF	176
BYSPAR	172	BYZBLAS	176
BYSPARM	172	BYZBRAU	176
BYSPARUN	172	BYZFDEUT	174
BYSPRTAR	162, 173	BYZFFMD1	174
BYSPRTMW	171, 173	BYZFINS	174
BYSPRTTR	162, 173	BYZFMATH	174
BYSPRTWE	162, 173	CENSOR	65, 66, 68, 69
BYSTRBFR	172	CENSORING	208
BYSTRBS	172	CIVILSFJ	43, 48, 54, 62
BYSTRFFR	172	CIVILSLJ	44, 56, 62
BYSTRMU	161, 172	CORIGIN	13, 21, 22, 25, 26, 27, 28, 29, 157
BYSTRVA	161, 172	CURREMPL	43, 55, 62
BYTAGIN	163, 177	EBAALTER	197
BYTGELD	172	EBABIOEL	197
BYTGELDM	172	EBAEZI1	197
BYTGELDW	172	EBAEZI10	198
BYVDART	172	EBAEZI11	198
BYVDEIG	172	EBAEZI12	198
BYVNR	172	EBAEZI13	198
BYWAARBL	176	EBAEZI14	198
BYWAARBP	176	EBAEZI15	198
BYWAAUSL	176	EBAEZI16	198
BYWAAUSP	176	EBAEZI17	198
BYWABERF	176	EBAEZI18	198
BYWAERFA	176	EBAEZI2	197
BYWAHEIR	176	EBAEZI3	197
BYWAKID1	176	EBAEZI4	197
BYWAPART	176	EBAEZI5	197
BYWASELB	176	EBAEZI6	197
BYWAZURU	176	EBAEZI7	197
BYWBANE	176	EBAEZI8	197
BYWBAUF	176	EBAEZI9	198
BYWBEINK	176	EBAGEBJA	197
BYWBFAM	176	EBAGEBMO	197

Index

EBAHBE1	198	EBBEZI6	199
EBAHBE10	198	EBBEZI7	199
EBAHBE11	198	EBBEZI8	199
EBAHBE2	198	EBBEZI9	199
EBAHBE3	198	EBBGEBJA	199
EBAHBE4	198	EBBGEBMO	199
EBAHBE5	198	EBBHBE1	200
EBAHBE6	198	EBBHBE10	200
EBAHBE7	198	EBBHBE11	200
EBAHBE8	198	EBBHBE2	200
EBAHBE9	198	EBBHBE3	200
EBAHBETR	198	EBBHBE4	200
EBAIDGYM	197	EBBHBE5	200
EBAIDHAU	197	EBBHBE6	200
EBAIDREA	197	EBBHBE7	200
EBAKSCH	197	EBBHBE8	200
EBAMET1	198	EBHBETR	200
EBAMET10	198	EBBIDGYM	199
EBAMET11	198	EBBIDHAU	199
EBAMET12	198	EBBIDREA	199
EBAMET13	198	EBBKSCH	199
EBAMET14	198	EBBMET1	199
EBAMET15	198	EBBMET10	200
EBAMET16	198	EBBMET11	200
EBAMET17	198	EBBMET12	200
EBAMET18	198	EBBMET13	200
EBAMET2	198	EBBMET14	200
EBAMET3	198	EBBMET15	200
EBAMET4	198	EBBMET16	200
EBAMET5	198	EBBMET17	200
EBAMET6	198	EBBMET18	200
EBAMET7	198	EBBMET2	199
EBAMET8	198	EBBMET3	199
EBAMET9	198	EBBMET4	199
EBARO1	198	EBBMET5	199
EBARO10	198	EBBMET6	199
EBARO2	198	EBBMET7	199
EBARO3	198	EBBMET8	200
EBARO4	198	EBBMET9	200
EBARO5	198	EBBRO1	200
EBARO6	198	EBBRO10	200
EBARO7	198	EBBRO2	200
EBARO8	198	EBBRO3	200
EBARO9	198	EBBRO4	200
EBASCHJA	197	EBBRO5	200
EBASCHMO	197	EBBRO6	200
EBAWAGYM	197	EBBRO7	200
EBAWAHAU	197	EBBRO8	200
EBAWAREA	197	EBBRO9	200
EBBALTER	199	EBBSCHJ	199
EBBBIOEL	199	EBBSCHMO	199
EBBEZI1	199	EBBWAGYM	199
EBBEZI10	199	EBBWAHAU	199
EBBEZI11	199	EBBWAREA	199
EBBEZI12	199	EGP	43, 53, 171, 176
EBBEZI13	199	EK03A	20
EBBEZI14	199	END	32, 64, 65, 66, 68, 69, 74, 208
EBBEZI15	199	ENDBIO	40
EBBEZI16	199	ENDK1-4	40
EBBEZI17	199	ENDKAL	40
EBBEZI18	199	ENDY	32, 68, 69
EBBEZI2	199	ENDYB	40
EBBEZI3	199	ENDYB1	38, 40
EBBEZI4	199	ENDYK	40
EBBEZI5	199	ENDYK1	38, 40

Index

ENDYK2 38
 ERHEBJ 37, 38, 39, 40, 97, 98, 99, 160, 161, 166, 170, 172, 187
 FEHLCODE 40
 FJBLUE 43, 48, 51, 61
 FJCIVS 43, 48, 51, 53, 61, 62
 FJSEFSIZ 43, 48, 52, 61
 FJSELF 43, 48, 51, 52, 61
 FJWHITE 43, 48, 51, 52, 61
 FLAG 210
 FULLTIME 43, 49, 62, 63
 GEBJAHR 13, 31
 GEBMONAT 13, 15
 GEBMOVAL 13, 14, 16
 GERMBORN 13, 19, 21, 22, 25, 26, 27, 28, 29
 HHNR 26, 42, 76, 88, 99, 146, 161, 166, 172, 186, 191, 196, 197, 199
 IMMIYEAR 13, 21, 22, 25, 26, 27, 28, 31
 INFO 209
 INFOTWIN 94, 95, 96
 INFSOURC 93
 INTEDUC1 43, 60, 62
 INTEDUC2 60
 INTEDUC3 60
 INTEDUC4 43, 60, 62
 ISCO88 43, 53, 176
 ISEI 43, 53, 171, 176
 KALYEAR 36, 38, 39, 40
 KIDGEB[n] 77, 89
 KIDMON[n] 77, 89
 KIDPNR[n] 77, 82, 89
 KIDSEX[n] 77, 89
 LELA 8, 41, 42, 45, 47, 49, 52, 55, 78, 99
 LIFESPELL 205, 207
 LIVING1 142, 147
 LIVING2 147
 LIVING3 147
 LIVING4 147
 LIVING5 147
 LIVING6 147
 LIVING7 147
 LIVING8 142, 147
 LJBLUE 44, 58, 62
 LJCIVS 44, 58, 60, 62, 63
 LJSEFSIZ 44, 59, 62
 LJSELF 44, 58, 59, 62
 LJWHITE 44, 58, 59, 62
 LOC1989 13, 30, 31
 LPHERKFT 24, 26, 29
 MALTER 143, 147, 157
 MAORT01 146
 MAORT06 146, 156
 MAORT91 146, 156
 MAORT96 146
 MAORTAKT 147, 156
 MAORTUP 156
 MAOTRAKT 142
 MBBIL 146, 148, 153
 MBINFO 146, 153
 MBKLAS 147
 MBSINFO 146
 MBSTELL 146
 MEFG 147
 MGEBJ 146
 MIGBACK 19, 20, 21
 MIGINFO 13, 19, 20, 21
 MISCO88 146
 MISEI 146
 MLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 133, 136, 137, 138, 139, 140, 141
 MMPS 146
 MNAT 20, 146, 148, 155
 MNR 146, 148, 150, 151, 152, 155
 MORIGIN 143, 147, 157
 MPS 43, 53, 171, 176
 MRELI 146, 148, 155
 MSBIL 146, 148, 153
 MSINFO 146, 153
 MSIOPS 146
 MSTREIT 147, 148
 MTODJ 146, 148, 153, 155
 NACEFJ 43, 54
 NACEIJ 44, 56
 NATION\$\$ 7, 19, 103
 NEWKIDS 77, 87, 88, 89, 92
 NLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 133, 136, 137, 138, 139, 140, 141
 NOJOB 43, 45, 46, 49
 OCCFJOB 43, 48, 49, 50, 51, 61
 OCCJOB 44, 57, 58, 62
 OCCMOVE 43, 54
 OLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 133, 136, 137, 138, 139, 140, 141
 ORTKIND1 147, 148
 ORTKIND2 147
 ORTKIND3 147
 ORTKINDH 147, 148
 PBIOSPE 10, 32, 34, 35, 36, 37, 38, 39, 42, 45, 46, 47, 48, 49, 51, 61
 PBR_EXIT 16, 17, 18
 PBR_HHCH 16
 PERSNR 42, 64, 65, 67, 68, 76, 88, 93, 99, 146, 148, 149, 150, 151, 152, 161, 166, 172, 180, 185, 186, 187, 190, 191, 192, 196, 197, 199
 PERSNRE 196, 197, 199
 PERSNRM 181, 185, 186, 187, 190, 191, 192
 PERSNRM 180
 PHRF 186, 196
 PLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 133, 136, 137, 138, 139, 140, 141
 PNMOTH 93, 94, 95
 PNRQUAD 93
 PNRTRIP 93
 PNRTWIN 93
 PPFAD 9, 13, 15, 19, 21, 22, 25, 30, 31, 61, 144, 149, 153, 156, 157, 186, 191, 196
 PSAMPLE 30

QJUGEND 25, 61, 102, 103, 104, 105, 106, 107, 108, 109, 122, 123, 124, 125, 126, 127, 128, 129, 130, 133, 136, 137, 138, 140	VAORT96 146, 156
QLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 133, 136, 137, 138, 140	VAORTAKT 142, 147, 156
QP 24, 61, 134, 135	VAORTUP 156
REMARK 65, 66, 68, 69, 75	VBBIL 146, 148, 153
REQEDUC 43, 48, 53, 62	VBINFO 146, 153
RJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109, 136, 137, 138, 140	VBKLAS 147
RLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 136, 137, 138, 140	VBSINFO 146
RP 24, 61, 134, 135	VBSTELL 146, 148
SCOPELI 43, 55, 62	VEGP 147
SEX_C 197, 199	VGEBJ 146
SEX_E 197, 199	VISCO88 146, 148
SIOPS 43, 53, 171, 176	VISEI 146
SJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109, 136, 137, 138, 140	VJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109, 136, 137, 138, 140
SLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 136, 137, 138, 140	VLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 136, 137, 138, 140
SP 13, 14, 15, 16, 24, 47, 61, 134, 135	VMPS 146
SPELLINF 38, 39, 40	VNAT 20, 146, 148, 155
SPELLINF=4 38	VNR 146, 148, 150, 151, 152, 155
SPELLNR 32, 64, 65, 68, 207	VORIGIN 143, 147, 157
SPELLTYP 32, 35, 38, 39, 64, 65, 67, 68, 74, 207	VP 25, 61, 134, 135
STBA 43, 53	VRELI 146, 148, 155
STILLFJ 43, 49	VSIL 146, 148, 153
STUDY\$\$\$\$ 210	VSINFO 146, 153
SUMKIDS 77, 86, 88, 91	VSIOPS 146
SVYYEAR 192, 197, 199	VSTREIT 147, 148
TJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109, 136, 137, 138, 140	VTODJ 146, 148, 153, 155
TLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 136, 137, 138, 140	WJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109, 140
TODINFO 13, 18	WLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 136, 137, 138, 140
TODJAHR 13, 16, 17	WP 25, 61, 134, 135
TP 25, 30, 61, 134, 135	XJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109, 140
UJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109, 136, 137, 138, 140	XLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 136, 137, 138, 140
ULELA 30, 61, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 136, 137, 138, 140	XP 25, 61, 134, 135
UP 25, 48, 61, 134, 135	YEARLAST 43, 55, 62
VALTER 143, 147, 157	YJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109, 140
VAORT01 146, 156	YLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 136, 137, 138, 140
VAORT06 146, 156	YOUTH 42, 46, 48
VAORT91 146, 156	YP 25, 61, 134, 135
	YPBRUTTO 16, 17, 18
	ZENSOR 32, 39
	ZJUGEND 61, 102, 103, 104, 105, 106, 107, 108, 109, 140
	ZLELA 61, 102, 103, 104, 105, 106, 107, 108, 109, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 136, 137, 138, 140
	ZP 25, 61, 134, 135