HDZ

Research Data Centre (FDZ) of the German Federal Employment Agency (BA) at the Institute for Employment Research (IAB)

FDZ-Datenreport

Documentation of labour market data

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Sample of Integrated Labour Market Biographies (SIAB) 1975 – 2008

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Die FDZ-Datenreporte beschreiben die Daten des FDZ im Detail. Diese Reihe hat somit eine doppelte Funktion: zum einen stellen Nutzerinnen und Nutzer fest, ob die angebotenen Daten für das Forschungsvorhaben geeignet sind, zum anderen dienen sie zur Vorbereitung der Auswertungen.

FDZ-Datenreporte (FDZ data reports) describe FDZ data in detail. As a result, this series of reports has a dual function: on the one hand, those using the reports can ascertain whether the data provided is suitable for their research task; on the other hand, the data can be used to prepare evaluations.

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Abstract

This datareport describes the Sample of Integrated Labour Market Biographies (SIAB) 1975-2008.

Keywords: German administrative micro data, labour market data, data manual

We would like to thank our colleagues in the Research Data Centre (FDZ) who were involved in the working group on the Sample of Integrated Labour Market Biographies as well as the ITM division of the Institute for Employment Research for their cooperation and support.

Data availability

The dataset described in this document is available for use by professional researchers. Further information can be found on the website <u>http://fdz.iab.de</u>.

1 Introduction and outline

1.1 Introduction

The Sample of Integrated Labour Market Biographies (Stichprobe der integrierten Arbeitsmarktbiographien - SIAB) is a 2% sample of the population of the Integrated Employment Biographies (IEB) of the Institute for Employment Research (Institut für Arbeitsmarktund Berufsforschung - IAB). The IEB comprises all individuals who showed one of the following statuses at least once during the observation period:

- employment subject to social security (recorded from 1975 onwards)
- marginal part-time employment (recorded from 1999 onwards)
- receipt of benefits in accordance with Social Code Book III (recorded from 1975 onwards) or Social Code Book II (recorded from 2005 onwards)
- registered with the Federal Employment Agency (Bundesagentur f
 ür Arbeit BA) as a jobseeker (recorded from 2000 onwards)
- planned or actual participation in an employment or training measure (recorded from 2000 onwards)

These data, which come from different sources, are merged in the IEB and the statuses are depicted exact to the day.

Whilst the Employee History (Beschäftigten-Historik - BeH) is the origin of the information on employment subject to social security and marginal part-time employment, the receipt of benefits in accordance with Social Code Book III (SGB III) and Social Code Book II (SGB II) is recorded in the Benefit Recipient History (Leistungsempfänger-Historik - LeH) and the Unemployment Benefit II Recipient History (Leistungs-Historik-Grundsicherung - LHG and XLHG). The Jobseeker Histories (Arbeitsuchenden-Historiken - ASU and X-ASU) are the data source for the periods of job-search recorded by the BA, whilst participation and planned participation in employment and training measures is recorded in the Participationin-Measures History File (Maßnahme-Teilnahme-Historik - MTH).

With the exception of participation and planned participation in employment and training measures from the MTH, all of the data sources included in the IEB are also contained in the SIAB.

The SIAB replaces the IAB Employment Sample (IAB-Beschäftigtenstichprobe - IABS) and the Integrated Employment Biographies Sample (Stichprobe der Integrierten Erwerbsbiographien - IEBS). By merging the data sources of the IABS and the IEBS, it is now possible to provide a dataset that combines the advantages of the IABS (long observation period) with those of the IEBS (entire employment biographies). The SIAB is produced at the Research Data Centre (FDZ) of the Federal Employment Agency (BA) at the IAB. The SIAB covers the employment histories of 1,659,025 individuals, and their employment biographies are documented in a total of 40,501,525 lines of data.

This Datenreport describes the variables of the weakly anonymous version of the SIAB, which largely comprises the original data, i.e. data which have not undergone anonymisation processes. Only the direct identifiers, such as the social security number and the establishment number, have been replaced by artificial numbers. In order to protect the anonymity of the data subjects, some variables are classified as particularly sensitive and are only disclosed on submission of a special application (see Section 1.2).

The Datenreport on the SIAB is structured as follows. Besides the introduction, Chapter 1 contains information on data access as well as an outline of the data, the volume structure and a list of variables. A description of the individual data sources can be found in Chapter 2. Data preparation and data quality are discussed in Chapters 3 and 4, whilst the individual variables are described in Chapter 5.

1.2 Data use

The SIAB data in the weakly anonymous version may only be analysed in the context of a research visit at the FDZ and subsequent remote data access.

In order to be able to use the data, it is first necessary to submit an application to the Research Data Centre (FDZ). The Federal Ministry of Labour and Social Affairs (Bundesministerium für Arbeit und Soziales – BMAS) makes the decision regarding the approval of the research project. When approval has been granted, a data use agreement is concluded with the researcher's institution. Details on applying for the dataset and possibilities for data processing can be found on the FDZ homepage.

The SIAB data have a modular structure and are stored in several files. One module, which is henceforth called the Individual File, contains identifiers (artificial individual IDs and establishment numbers), the personal variables, the information on employment, benefit receipt and job-search activity, the variables regarding place of residence, and technical variables. A second module, the Establishment File, contains the establishment number, the year, and variables regarding the place of work and economic activities in aggregate form as well as other non-sensitive establishment information as of the reference date of 30 June.

Establishment variables and individual variables are therefore organised separately, which makes the structure of the data clear and saves storage space in the data management system. The Establishment File and the Individual File are linked via the establishment number and the year of the dataset. The variables which are marked with a "*" in the List of variables (see p. 13 ff.) are contained in the Establishment File. Please note that the variable which is

necessary for linking the two modules, "establishment number", is available in both the Individual File and the Establishment File.

Certain variables which make it possible to identify individuals or establishments are only disclosed in their original form if this is necessary for the analysis objective and is justified explicitly in the application for data access. In the SIAB the variables which are particularly sensitive from the viewpoint of data protection legislation are:

Individual File:

- nationality (nation)
- health problems (gesund_ein)
- severe disability status (schweb)
- place of residence: employment agency area (wo_aa)
- place of residence: district (Kreis) (wo_kreis)

Establishment File:

- place of work: employment agency area (ao_aa)
- place of work: district (Kreis) (ao_kreis)
- economic activity 93 sub-class of economic activity (five-digit code) (w93_5)
- economic activity 03 sub-class of economic activity (five-digit code) (w03_5)
- economic activity 08 sub-class of economic activity (five-digit code) (w08_5)

These variables are made available to the user in the relevant files. Following a justified application further establishment variables can be provided from the Establishment History Panel (Betriebs-Historik-Panel - BHP). Further information on the BHP can be found under http://fdz.iab.de/.

1.3 Differences between the SIAB and earlier versions

The SIAB replaces the IABS and the IEBS. In this section the main differences between the SIAB and these predecessor products are thus described.

	SIAB 1975 – 2008	IABS 2004	IEBS 2008
Survey design	2% of the individuals in the IEB	2% of the employ- ees in the BLH	Birthday sample drawn from the IEB, 8/365 ≈ 2.2%
Sources	Employment, benefit receipt, job-search	Employment, benefit receipt	Employment, benefit receipt, job-search, participation in meas- ures
Data basis	Data basis of the IEB	Data basis of the BLH	Data basis of the IEB

Age filter	Yes. Data records in which the age is un- der 13 or over 75 are not contained.	No age filter	Yes. Data records in which the age is under 13 or over 75 are not con- tained.
Annual notifications with person group 101 and remunera- tion == 0	Not contained	Contained	Not contained

Table 1: Differences between the SIAB and the IABS and IEBS

Whilst the data in the SIAB and the IEBS correspond as far as possible to the original data on which they are based, a number of correction steps were carried out for the IABS. In addition to basic corrections, further correction steps were carried out in the IABS in cases of multiple benefit receipt, temporal overlaps (1 day) of observations and overlaps between BeH and LeH observations as well as a correction associated with strikes.

Furthermore, a completion procedure was used for selected data records and gaps in the data.

The appendix to the Datenreport contains a detailed description of the various corrections mentioned.

1.4 Outline

Current data version	Sample of Integrated Labour Market Biographies (SIAB) 1975 - 2008
Type and volume of the data	Weakly anonymous, 2% random sample of individual accounts drawn from the Integrated Employment Biographies (IEB) of the IAB.
	drawn from the Integrated Employment Biographies (IEB) of the IAB. Employee History (Beschäftigten-Historik - BeH): Annual notifications and end-of-employment notifications submit- ted to the social security agencies for employees covered by social security and employees in marginal part-time employment. Benefit Recipient History (Leistungsempfänger-Historik - LeH): Information on benefit receipt in accordance with Social Code Book III (SGB III) for recipients of unemployment benefit, unem- ployment assistance and maintenance allowance. Unemployment Benefit II Recipient History drawn from A2LL (Leistungs-Historik-Grundsicherung aus A2LL - LHG): Data on individuals in receipt of basic social security benefits in accordance with Social Code Book II (SGB II) (co-operations of employment agencies and municipalities – ARGE, and seperated responsibilities responsible for the implementation of SGB II) Unemployment Benefit II Recipient History drawn from XSozial-BA-SGB II (XLHG): Data on individuals in receipt of basic social security benefits in accordance with SGB II (authorised municipalities and seperated responsibilities) Jobseeker History (Arbeitsuchenden-Historik - ASU): Information on job-search activity (applicant pool) Jobseeker History drawn from XSozial-BA-SGB II (XASU): Information on job-search activity reported via the transmission standard XSozial-BA-SGBII to the BA by authorised municipalities or seperated responsibilities. Sensitive variables: Nationality (nation) Health problems (gesund_ein)
	Severe disability status (schweb) Place of residence: employment agency (wo_aa) Place of residence: district (Kreis) (wo_kreis)
	Place of work: employment agency (ao_aa) Place of work: district (Kreis) (ao_kreis)
	Economic activity - sub-class of economic activity (five-digit code) (w93_5) Economic activity - sub-class of economic activity (five-digit code)
	(w03_5) Economic activity - sub-class of economic activity (five-digit code) (w08_5)

Variables with regional relevance	Place of work and place of residence, federal states, districts, re- gional directorates, employment agency areas. (Some of these variables are not available for all data sources and periods.)				
Date of territorial alloca- tion	BeH: 31.12.2008 LeH: 31.12.2008				
Type of territorial alloca- tion	BeH, LeH: corrected territorial allocation ASU, XASU, LHG, XLHG: original territorial allocation, no correc- tions				
Period covered	The period covered depends on the data source. BeH 01.01.1975 - 31.12.2008 (2006, 2007: 18-month file; 2008: 12-month file) LeH 01.01.1975 - 14.09.2009 ASU 01.01.2000 - 14.09.2009 LHG 01.01.2005 - 14.10.2009 XASU 01.01.2005 - 14.10.2009 XLHG 01.01.2005 - 14.10.2009				
Update frequency	Continuous				
Data unit	Employees covered by social security (including marginal part-time employees from 1999 onwards), benefit recipients, jobseekers				
Number of cases	1,659,024 individuals, 40,501,525 original observations, 32,419,594 non-overlapping observations				
Corrections - outline	The SIAB data are largely taken from the IEB without corrections. Only validation procedures are carried out, e.g. some variables are recoded.				
Special features - outline	E Like the data in the IEB, the data in the SIAB also undergo an epi- sode splitting procedure. For this, partly overlapping observations within an account are split in such a way that only non-overlapping or completely parallel periods are created.				
File organisation	The SIAB data are stored in two files. One contains individual-level information and the other establishment-related information.				
File format and size	STATA (individual file approx. 3.5 GB), SPSS and SAS available on request				
Data access	On-site use at the FDZ of the BA at the IAB and subsequent re- mote data access				
Degree of anonymisa- tion	Weakly anonymous				
Citation method	Sample of Integrated Labour Market Biographies (SIAB) 1975 - 2008, Nuremberg 2010				

1.5 List of variables

The overview of variables lists the variable names and the longer descriptions of the variables. It also shows which variables are available for which data sources:

Variable is available for the data source. Degree of completeness always > 0.85
Variable is available for the data source. Lower or varying degree of completeness, see description of variable and frequency count
Variable is not available for this data source. Degree of completeness always < 0.05

Example: the school-leaving qualification is only available for ASU and XASU observations; the observations of the other data sources contain "n" in this variable. Another characteristic of the SIAB is that some variables have different contents depending on the data source. For instance, for BeH observations the employment status variable contains the person group of the employment notification procedure, for LeH observations it contains the type of benefit, for LHG and XLHG observations it contains the SGB II status and for ASU and XASU observations the job-search status. These differences are not immediately obvious from the variable name for every variable.

List of variables	Mod ule	Pag e	BeH	LeH	LHG	XLH G	ASU	XAS U
Identifiers		31						
Artificial individual ID (persnr)		31						
Artificial establishment number (betnr)	*	31						
Period of validity		32						
Original start date of observation (be- gorig)		32						
Original end date of observation (en- dorig)		32						
Start date of split episode (begepi)		32						
End date of split episode (endepi)		33						
Personal information		33						
Gender (frau)		33						
Year of birth (gebjahr)		33						
Nationality (nation)		34						
Nationality, aggregated (nation_gr)		34						
Marital status (famst)		34						
Number of children (kind)		35						
School education and vocational train- ing (bild)		35						
School-leaving qualification (schbild)		36						
Skills level (quali)		37						
Severe disability status (schweb)		37						

List of variables	Mod ule	Pag e	BeH	LeH	LHG	XLH G	ASU	XAS U
Health problems (gesund_ein)		37						
Information on employment, benefit receipt and job-search		38						
Reason for notification/ reason for end of benefit receipt/ reason for discon- tinuation of unemployment benefit II/ reason for deregistration (grund)		38						
Daily wage, daily benefit rate (tentgelt)		40						
Transition zone (gleitz)		41						
Occupation – activity performed (beruf)		41						
Occupational status and working hours (stib)		42						
Employment status (erwstat)		43						
Employment status prior to job-search (estatvor)		44						
Type of benefit (lart)		44						
BA client group (kundengr)		44						
Type of termination of last job (art_kuend)		45						
Willingness to seek work throughout Germany (mobil)		45						
Desired working hours of the job sought (arbzeit)		45						
Duration of remaining entitlement to unemployment benefit (restanspruch)		46						
Type of institution (traeger)		46						
Establishment variables		46						
Economic activity 73 – group of eco- nomic activity 73 (3-digit code) (w73_3)	*	46						
Economic activity 93 – sub-class of economic activity 93 (5-digit code) (w93_5)	*	47						
Economic activity 93 – group of eco- nomic activity 93 (3-digit code) (w93_3)	*	47						
Economic activity 03 – sub-class of economic activity 03 (5-digit code) (w03_5)	*	48						
Economic activity 03 – group of eco- nomic activity 03 (3-digit code) (w03_3)	*	48						

List of variables	Mod ule	Pag e	BeH	LeH	LHG	XLH G	ASU	XAS U
Economic activity 08 – sub-class of economic activity 08 (5-digit code) (w08_5)	*	49						
Economic activity 08 – group of eco- nomic activity 08 (3-digit code) (w08_3)	*	49						
First appearance of establishment (grd_jahr)	*	50						
Last appearance of establishment (lzt_jahr)	*	50						
Total number of employees (az_ges)	*	50						
Number of full-time employees (az_ges_vz)	*	51						
Number of employees in marginal part- time employment (az_gf)	*	51						
Average daily wage in establishment (te_med)	*	51						
Location data		51						
Place of residence: district (Kreis) (wo_kreis)		51						
Place of residence: employment agency (wo_aa)		51						
Place of residence: regional directorate (wo_rd)		53						
Place of residence: federal state (Bundesland) (wo_bula)		54						
Place of work: district (Kreis) (ao_kreis)	*	54						
Place of work: employment agency (ao_aa)	*	54						
Place of work: regional directorate (ao_rd)	*	55						
Place of work: federal state (Bunde- sland) (ao_bula)	*	55						
Generated technical variables		55						
Source of the observation (quelle)		55						
Observation counter per person (spell)		56						
Observation counter per episode (level2)		56						
Observation counter per episode and source (level1)		56						
Year (jahr)		57						

1.6 Volume structure

No. of cases in the SIAB	before splitting	after splitting				
BeH	24,336,041	27,056,515				
LeH	3,613,235	5,036,568				
LHG	621,623	1,562,609				
XLHG	124,361	235,737				
ASU	3,630,967	6,388,559				
XASU	93,367	221,537				
Total number of observations	32,419,594	40,501,525				
Individuals		1,659,024				
Table 2: Volume structure						

Table 2: Volume structure

2 Data sources

The SIAB was drawn from the Integrated Employment Biographies of the IAB as a 2% sample. The IEB in turn unite data from five different data sources, each of which may contain information from different administrative procedures.

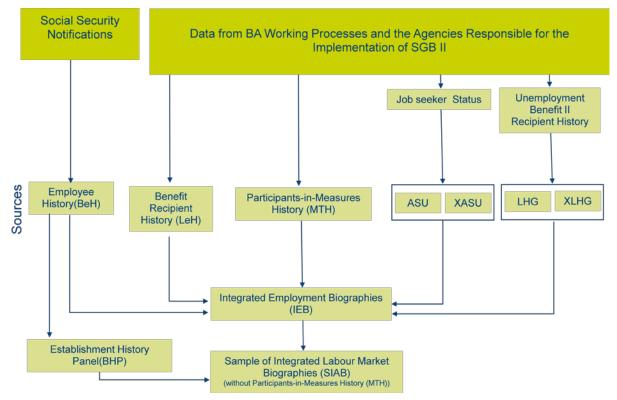


Figure 1: Data sources of the IEB

Observations from all of the data sources shown, with the exception of participation (or planned participation) in employment and training measures (MTH), are incorporated into the SIAB from the IEB.

2.1 Employee History (BeH)

The source of data regarding employment is the Employment History (Beschäftigten-Historik - BeH) of the IAB. The data basis is the integrated notification procedure for health, pension and unemployment insurance, which came into effect as of 1 January 1973 (and was extended to cover eastern Germany as of 1 January 1991) and is known by the abbreviation DEÜV (previously DEVO/DÜVO) (for further details see: Bender et al. 1996, p. 4 ff.; Wermter/Cramer 1988). Under this procedure employers are required to submit notifications to the responsible social security agencies concerning all of their employees covered by social security. The BeH covers all white- and blue-collar workers as well as apprentices as long as they are not exempt from social security contributions. This means that civil servants, the self-employed and regular students (see Cramer 1985) are in principle not recorded in the BeH. Since the notification procedure was changed on 1 January 1999, employees in marginal part-time employment and unpaid family workers have also been recorded (not contained in the data until 1 April 1999).

Every year in which an individual is in an employment relationship is depicted by at least one notification. The data are recorded by the health insurance companies, collected in a continuous file by the Federal Employment Agency (BA) and subsequently integrated into the History File of the IAB. The current observation period of the BeH extends from 1 January 1975 to 31 December 2009.

Some of the variables in the SIAB Establishment File are taken from the Establishment History Panel (Betriebs-Historik-Panel - BHP), which is also based on the BeH. The SIAB Establishment File includes the following variables:

- Place of work: district (Kreis) (ao_kreis)
- Place of work: federal state (Bundesland) (ao_bula)
- Economic activity 73 (w73_3)
- Economic activity 93 (w93_3 and w93_5)
- Economic activity 03 (w03_3 and w03_5)
- Economic activity 08 (w08_3 and w08_5)
- Total number of employees (az_ges)
- Number of full-time employees (az_ges_vz)
- Number of marginal part-time employees (az_gf)
- Average daily wage in establishment (te_med)
- Year when establishment was founded (grd_jahr)
- Last appearance of the establishment (ltz_jahr)

Two things have to be taken into account when linking individual data with establishment data:

- The variables in the Establishment File are aggregated on 30 June of a year. Unlike the data on individuals, the establishment variables are therefore not spell data but are only valid on 30 June precisely each year¹.
- 2. Secondly, the BHP is created directly from the BeH, whereas the SIAB Individual File is generated from the IEB (see Figure: Data sources of the IEB), which does not incorporate all BeH observations.

The Establishment File is linked with the Individual File via the program-specific commands of the software packages used for preparing and analysing the data. In Stata, for instance, the two files can be linked using the "merge" command in connection with the relevant paths (see Section 5.7.5).

Not all of the variables in the BHP are contained in the SIAB as a standard. Following a justified application, individual further variables from the BHP can be merged by the FDZ. Further information about the BHP can be found in the corresponding FDZ-Datenreport under <u>http://fdz.iab.de</u>

2.2 Benefit Recipient History (LeH)

The Benefit Recipient History (Leistungsempfänger-Historik - LeH) of the IAB covers periods during which individuals receive earnings-replacement benefits from the Federal Employment Agency. The benefits comprise unemployment benefit, unemployment assistance and maintenance allowance, in other words not benefits under the sphere of Social Code Book II (e.g. unemployment benefit II). The entitlement to benefits depends on legal requirements being fulfilled, e.g. not being classed as "in need" in the case of unemployment assistance, non-completion of the qualifying period for unemployment benefit or periods of unemployment during which the requirements were not met. Therefore, periods of unemployment without benefit receipt according to Social Code Book III are not reported in the Benefit Recipient History. The observation period of the Benefit Recipient History extends from 1 January 1975 to 31 December 2008.

¹ An extreme example: there is an employment notification from 1.1.2006 until 30.5.2006; the establishment goes bankrupt in June 2006. There is then no information about this establishment in the BHP for 2006.

2.3 Unemployment Benefit II Recipient History (LHG/XLHG)

Whereas the LeH contains the benefits in the sphere of Social Code Book III, the Unemployment Benefit II Recipient History (Leistungs-Historik-Grundsicherung - LHG) consists of observations depicting receipt of benefits in accordance with Social Code Book II (SGB II). Benefit receipt in the context of the Unemployment Benefit II Recipient History covers both basic social security benefits (e.g. unemployment benefit II) and supplements to unemployment benefit or additional benefits. Unlike the benefits in the sphere of Social Code Book III, the BA is no longer necessarily the sole institution responsible for administering the benefits. The data therefore distinguish between the three possible types of institution responsible for implementing SGB II:

- Co-operations of employment agencies and municipalities (Arbeitsgemeinschaften - ARGE) in which the BA and the municipality deal with tasks jointly
- In the case of separated responsibilites (getrennte Trägerschaft) the tasks continue to be divided between the BA and the municipality²
- In the case of authorised municipalities (zugelassener kommunaler Träger, optierende Kommune, Optionskommune), which are municipalities that have opted to be the sole agency administering benefits under SGB II, the municipality takes on the tasks in the field of SGB II independently

The Unemployment Benefit II Recipient History covers two sources that differ in the way in which the data are transmitted: the data of the "Unemployment Benefit II Recipient History drawn from A2LL" (LHG) come from the BA administrative procedure A2LL, whilst the "Unemployment Benefit II Recipient History drawn from XLHG-BA-SGB II" (XLHG) records data which was reported in accordance with the transmission standard X-Sozial-BA-SBG II.

As a rule A2LL is used in all ARGE co-operations, whilst the standard X-Sozial-BA-SBG II is used by the authorised municipalities. Both of the procedures are used by municipalities with seperated responsibilities.

A special feature compared with the LHG is that the amount of benefit received is not determined at the level of the individual but at the level of the benefit community (Bedarfsgemeinschaft³). It is not possible, however, to link individuals with benefit receipt under SGB II at the

² The municipality pays the costs for housing and heating (§ 22 SGB II) and additional one-off benefit payments to cover extra costs (§ 23 (3) SGB II) and the additional benefits to support integration in accordance with §16 (2) clause 2 No. 1 - 4 SGB II. The BA on the other hand covers the costs for regular benefits, social insurance contributions and integration benefits (SGB III and SGB II) and specific benefits excluding the additional benefits to support integration cited above.

³ A so-called 'Bedarfsgemeinschaft', or 'benefit community', includes all individuals in a household who receive benefits jointly (i.e. as a joint payment). In the majority of cases the 'benefit community' and the household will be the same, which in particular applies in the case of (married or unmarried) couples and parents with children under the age of 25. However, under specific circumstances the 'benefit community' might not include all household members, or a household in which everybody re-

level of benefit communities in this dataset. The LHG and the XLHG in principle contain all registered individuals who are entitled to receive benefits in accordance with § 7 SGB II, in other words needy individuals who are capable of work and, if applicable, also the members of their benefit community. However, only periods during which a person is capable of work or is under the age of 64 are incorporated.

Each dataset depicts non-overlapping periods of entitlement to benefit of a person in a certain benefit community. However, the observations are split

- on relevant birthdays (14, 15, 18, 25 and 65) of the members of a benefit community,
- if there are changes in the composition of a benefit community (e.g. by members joining or leaving the benefit community),
- if there are changes in the variables of the benefit community client and
- at the beginning and end of a sanction period for observations from 1 April 2006 onwards.

With regard to sanctions it must be taken into account that although the beginning and the end of a sanction period lead to the observations being split, it is not possible to determine from the data either the duration or the type of the sanction or the time when the sanction was imposed or when it began. The reason for this is the lack of a corresponding variable or value that indicates the start, the type or the duration of a sanction.

The data source LHG are available from the time when Unemployment Benefit II was introduced on 1 January 2005 until 14 October 2009. On the other hand, the data source XLHG is available as of 1 November 2009 until 14 October 2009.

2.4 Jobseeker History (ASU/XASU)

Data about jobseekers are stored in the Jobseeker History (Arbeitsuchenden-Historik – ASU). The ASU data source contains information on jobseekers who are registered with employment agencies and from 2005 onwards also includes seperated responsibilities responsible for the implementation of SGB II. The XASU data source on the other hand contains the data of jobseekers in receipt of Unemployment Benefit II (ALG-II) from authorised municipalities from 2005 onwards. These data are reported in accordance with the X-Sozial-BA-SBG II standard.

ceives benefit payments might be made up of more than one 'benefit community'. An example of the former is if a grown-up child lives with his/her parents and earns just enough to make his/her own living but has insufficient means to support his/her mother and father – in this case the 'benefit community' will only include the parents. An example of the latter is a three- (or more) generation house-hold: since a 'benefit community' may only consist of two generations, this type of household will be made up of two such 'benefit communities', one consisting of the grandparent(s) and one of the parent(s) and child(ren). (Trappmann et al. 2007)

3 Data preparation and sampling procedure

3.1 Corrections and validation procedures

Before the data from the data sources named in Chapter 2 are merged to form the IEB they undergo several correction steps, which are briefly described in the following sections.

All of the correction and validation procedures described below refer to the raw data from the individual data sources or to the aggregate file of the IEB, which constitutes the population for the SIAB data. The SIAB data do not undergo any further corrections and thus (virtually) correspond to the original data of the IEB. A few variables are simply recoded and for reasons of anonymity some of the data are aggregated.

3.1.1 Employee History (BeH)

- Minor corrections were made to dates.
- From 1999 onwards only the person groups 101, 102, 103, 105, 106, 112, 118, 119, 120, 140, 141, 142, 143, 149, 201, 203 and 205 are supplied, as well as the two groups 109 and 209, which indicate people in marginal part-time employment. Groups that are not included from 1999 onwards include people in short-term employment, i.e. person groups 110, 202 and 210.
- Until 1998 observations with no details on the person group are contained in addition to the groups listed above.
- Registrations of employment subject to social security are filtered out as the information about new employment relationships is also available in the annual notifications.
- Cancellations are taken into account and the corresponding observations are deleted. Revision notifications are incorporated.
- Duplicates are removed according to the following criteria: social security number, establishment number, start and end dates, reason for notification, earnings and date created.
- Observations with earnings amounting to zero or with no details on earnings and the value 101 for the person group variable and the value 50 for the reason for notification (annual notification) are not incorporated into the IEB.
- Social security numbers are updated to the status as of 30.06.2008; cancelled social security numbers are deleted.
- Gender and date of birth are taken from the social security number.
- The territorial allocations for place of work and place of residence are updated to the status as of 31.12.2008.

3.1.2 Benefit Recipient History (LeH)

- For the IEB, only observations from the LeH for the period from 1.1.1975 (end date) until the latest available data are taken.
- It must be taken into account that in cases of ongoing receipt the end date corresponds to the end of the period for which the benefit is allowed and not the end of the benefit receipt period. Observations with no end date or an invalid end date are excluded from further processing, since in these cases it cannot be assumed that a benefit payment was made at all.
- Observations without a valid start date are excluded.
- Observations whose end date precedes the start date are excluded.
- If the end date for unemployment assistance precedes the start date by one day, then the end date is deferred by one year.
- Overlapping LeH observations are corrected for the IEB in accordance with the following rules:
 - All overlaps in which both of the observations involve the same type of benefit and the same amount of benefit are corrected as follows:
 - If one observation is completely embedded within the period of another one, the shorter observation is deleted. If the two observations are of the same length, one (randomly selected) observation is deleted.
 - In cases where observations partially overlap, the end date of the observation that began first is corrected.
 - Overlaps of observations involving different types of benefit and/or different amounts of benefit paid are only corrected if the overlap concerns just one day and the original duration of both observations exceeds one day. In these cases the end date of the observation that began first is put back by one day.
- The territorial allocations of LeH data records are corrected to the status as of 31.12.2008.

3.1.3 Unemployment Benefit II Recipient History (LHG/XLHG)

 Only observations of people who are capable of work and people under the age of 64 are read in.

3.1.4 Jobseeker History (ASU/XASU)

- The data from the ASU that are used cover the period from 01/2000 to 09/2009. The registered periods of job-search activity of the individuals are regarded as complete.
- The ASU data basis only distinguishes between observations with the status "unemployed" and "jobseeker". In the IEB, however, a distinction is made between "unemployed", "incapacitated for work" and "jobseeker". The employment status "incapacitated for work" is assigned to IEB observations when in the ASU data basis
 - a preceding observation with the status "unemployed" exists which joins the next observation without a gap and has "incapacitated for work" as the reason for exit and
 - a subsequent observation with the status "unemployed" exists which also follows without a gap and
 - the observation itself does not have the status "unemployed" but "jobseeker".
- Unlike the ASU, the XASU does not take into account periods of incapacity for work as there is no information about illnesses available in the XASU data.
- Observations whose end date precedes the start date are filtered out.
- The territorial allocations are not corrected.

3.1.5 Corrections of the aggregate file

After the raw data have been corrected and combined to form the population of the IEB, the aggregate file of the IEB is corrected across all of the sources. For this the following correction steps are carried out:

- Observations in which the age is under 13 or over 75 are deleted.
- Observations whose end date precedes the start date are deleted.
- Accounts in which the gender or date of birth change are corrected in accordance with priority rules.

3.2 Episode splitting

The SIAB data are available with "split" episodes. If observations overlap within an account these observations are replaced by artificial observations with new dates so that completely parallel periods and non-overlapping periods are created. This increases the number of observations.

persnr	begorig	endorig	level
4711	01.01.98	31.12.98	-
4711	01.10.98	30.06.99	-
4711	01.01.99	31.12.99	-
		Splitting of	isode Splitting f the time interva erlapping" interv
	,		
persnr	begepi	endepi	level
persnr 4711	begepi 01.01.98	endepi 30.09.98	level 0
4711			
4711 4711	01.01.98	30.09.98	0
	01.01.98 01.10.98	30.09.98 31.12.98	0
4711 4711 4711	01.01.98 01.10.98 01.10.99	30.09.98 31.12.98 31.12.98	0 0 1
4711 4711 4711 4711	01.01.98 01.10.98 01.10.99 01.01.99	30.09.98 31.12.98 31.12.98 30.06.99	0 0 1

Figure 2: Episode splitting

Episode splitting results in observations being doubled and the period of validity being changed. The original date variables for the beginning and the end of the original observation (begorig and endorig) are retained, the variables 'start date of the split episode' and 'end date of the split episode' (begepi and endepi) mark the beginning and the end of the split episodes. It is possible to establish whether observations have been split by comparing the original period (begorig and endorig) with the episode period (begepi and endepi).

To restore the original data without the split episodes or to delete the episodes that were created artificially by means of episode splitting it is necessary to select all observations for which the start of the original observation is the same as the start of the split episode (begepi == begorig).

3.3 Sampling procedure

The SIAB is a 2% sample of the individuals for whom there is an entry in the IEB. Accordingly, case numbers of the population can be estimated on the basis of the sample with a weighting factor of 50. This applies in principle for the person groups of all of the data sources; however, the differing degrees of completeness of the data sources have to be taken into account. The job-applicant pool (ASU and XASU), for instance, has only been fully recorded since 2000 and was only partially recorded previously. It is therefore not possible to draw conclusions regarding the population of jobseekers from the ASU and XASU observations prior to 2000. The sampling procedure for the SIAB observations is therefore comparable to that of the IEBS.⁴ However, with regard to the IABS there are two differences in the sampling procedure. First, the IABS is an employment sample, i.e. the individuals were drawn from the people in employment and LeH observations were simply added to the sample. There are thus no individuals with only LeH observations in the IABS, whereas the SIAB does contain individuals for whom there are only non-BeH observations. This makes the SIAB representative of the person groups of all of the data sources, not only of people in employment. Second, unlike the IABS, the SIAB is not drawn as a stratified sample distinguishing between eastern and western Germany and between German/non-German. Owing to the large numbers of cases, however, these four groups are contained in the data with approximately the same selection probabilities even without explicit stratification.

3.4 Missing values

In the SIAB missing val	ues are coded as follows:
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Term	Value	Description
No (valid) details avail- able	.z	Values of a variable which are not systematically missing, i.e. the variable is available in principle for the data source, but no details are available for the value considered or no allocation is possible.
Systematically not avail- able	.n	A variable is not available in principle for a data source (dark grey cells in the overview of variables in Section 1.5) or is not available for a certain period.

4 Data quality and problems

4.1 Employee History (BeH)

- Due to the introduction of the employment notification procedure in the federal states of eastern Germany, the notifications for BeH observations for eastern Germany can only be assumed to be sufficiently complete from 1993 onwards. The increase in the number of BeH observations from 1999 onwards is due to the introduction of the obligation to submit employment notifications for people in marginal part-time employment from 1 April 1999 onwards.
- Within the employment notification procedure a certain time lag is unavoidable. Although changes in employment relationships have to be reported immediately and existing employment relationships have to be confirmed annually by April of the following year, some notifications actually arrive years later. The History File of the IAB is not updated continuously, however, but at certain intervals. This is done using files of employment notifications for one particular year which were submitted 36, 18, 12 or

⁴ The sample for the IEBS is drawn using a random selection of eight birthdays (see Oberschachtsiek et al. 2009)

6 months after the end of the reporting year (e.g. the 18-month file for 2007 can be created in July 2009 at the earliest). Notifications submitted more than three years late are not taken into account at the IAB, which means that a 36-month file shows a 100 % degree of completeness by definition.

- In the version of the IEB on which the SIAB data are based the degree of completeness of the BeH observations last stood at 100 % in 2005. 18-month files were used for 2006 and 2007, and the observations for 2008 come from a 12-month file. It can therefore be assumed that the BeH observations for 2006, 2007 and in particular for 2008 are slightly under-reported in the SIAB. However, this should not reduce the ability to analyse the data at individual level. The missing notifications occur more frequently in a few establishments, however. This means that in individual cases the establishment data, e.g. establishment size, are grossly incorrect and will change considerably in subsequent versions of the SIAB.
- In 1984 a change was made in the employment notification procedure. From that time onwards one-off payments of gross earned income were reported as part of the annual earnings subject to social security contributions, which leads to an increase in the average daily wage. In particular the proportion of wages and salaries above the upper earnings limit increases considerably from that year onwards⁵.
- In 1975 a smaller number of cases than expected emerges for individual birth cohorts. 1975 is therefore a problematic year for analyses⁶.
- Owing to the introduction of the new employment notification procedure in 1999 only the person groups 101, 102, 103, 105, 106, 112, 118, 119, 120, 140, 141, 142, 143, 201, 203 and 205 are supplied, as well as the two groups 109 and 209, which indicate people in marginal part-time employment. Groups that are not supplied include people in short-term employment, i.e. person groups 110, 202 and 210. Exception: prior to 1999 observations with no (valid) details on the person group are also recorded, which is of importance in particular for 1991 because a great many employees were registered in this way in eastern Germany.
- In a few cases the BeH observations may be in the incorrect order within an episode.
 It may occur that a BeH observation with the value "z" for the variable "employment status" is shown in a lower position although this observation shows the highest remuneration.

 $^{^{5}}$ See Bender et al. 1996.

⁶ See Bender et al. 1996.

4.2 Benefit Recipient History (LeH)

- In principle it must be taken into account that in cases of ongoing receipt the end date corresponds to the end of the period for which the benefit is allowed and not the end of the benefit receipt period. LeH observations which go beyond 14.09.2009 thus depict the period for which the benefit is allowed and are available in the SIAB data, though this concerns only a very small proportion (less than 1%).
- A very small proportion of the LeH observations begin before 1975. This can be explained by the fact that the IEB contains all LeH observations that end in 1975 or later. For the states of eastern Germany the LeH observations are not fully recorded until 1992.
- The benefit receipt data used to be saved on magnetic tapes. Owing to a fault in the magnetic tapes the benefit receipt data up to and including 1980 are only partially contained. Thus in the SIAB data, too, it can be assumed that information on benefit receipt in that period is not available in full. This is to be taken into account when conducting analyses.

4.3 Unemployment Benefit II Recipient History (LHG/XLHG)

- With regard to the completeness of case numbers or benefit histories from the LHG and XLHG data sources, there are substantial gaps in the years 2005 and 2006 in the IEB. From 2007 onwards there are only occasional gaps for individual institutions. It can be assumed that these gaps continue in the SIAB data. We therefore strongly advise against analysing the data from the LHG and XLHG for 2005 and 2006. Corresponding analyses should begin no earlier than 2007. In addition, the quality of the notifications depends to a large extent on the institution submitting them, which must be taken into account in particular when conducting regional analyses. When conducting evaluations in narrowly defined cross-sections, care must therefore be taken to select the institutions appropriately.
- In the SIAB data the degree of completeness of the variable "reason for discontinuation of unemployment benefit II" ("grund", see 5.4.1) is comparatively low. However, it must be taken into consideration here that the "reason for discontinuation of unemployment benefit II" is a purely person-related variable. Thus if an observation of an individual in receipt of Unemployment Benefit II is split due to a change in the structure of his/her benefit community, the variable "reason for discontinuation of unemployment benefit II" shows the value "missing" (.z).
- Although the beginning and the end of a benefit sanction lead to the observations being split, it is not possible to determine from the data either the duration or the type of the sanction or the time when the sanction was imposed or when it began.

- Furthermore, for both of the data sources LHG and X-LHG it can be observed that there is an above-average number of 15-year-olds and fewer 16- and 17-year-olds with references to a lack of capacity to work. 15-, 16- and 17-year-old individuals in need who are supported by the authorised municipalities may therefore be more poorly represented in the IEB, as "individuals not capable of work" are not included in the IEB.
- Changes in the type of institution or in district territories generally appear in the data somewhat later. One exception to this is the first six months of 2005, as the planned formation of co-operations of employment agencies and municipalities (ARGE) already appears in the data here. The change in the type of institution in legal terms did not occur until somewhat later, however.

4.4 Jobseeker History (ASU/XASU)

4.4.1 ASU

- The registered periods of job-search activity from the ending year 2000 for the individual persons are regarded as complete.
- Older observations are only contained for jobseekers who could be identified in the BA systems from 2000 or before. Observations with start dates before 1990 or end dates after 2008 are, however, likely to be mainly input errors.
- Owing to problems that occurred during data preparation in the BA and IAB procedures, it is not possible to allocate ASU observations clearly to one of the types of institution responsible for the sphere of SGB III (BA) or SGB II (co-operation, authorised municipality, seperated responsibilities). The variable "institution responsible for SGB II" can therefore not be analysed statistically for any of the ASU observations and was thus set to "missing" (.z) for all ASU observations.
- From mid-2005 until mid-2006 the coArb procedure, from which the jobseeker and applicant pool data originate, was superseded by the VerBIS procedure at the Federal Employment Agency. In July 2005 the coArb operative system was first replaced by VerBIS in the employment agency in Wiesbaden as a pilot project. From December 2005 onwards it was then gradually replaced by VerBIS in several stages in all employment agencies. The information for many of the variables recorded was gathered with different levels of differentiation and different qualitative weighting in the two systems. It is therefore very difficult to integrate these variables into the IEB, which is only possible using a special procedure (mapping). Unfortunately a full conversion of the affected variables from coArb to VerBIS cannot be achieved by means of mapping, so for some variables there is an unusually large number of the values "no details available", "other" or "missing". Moreover, striking differences may occur in fre-

quency counts, depending on whether the original source of the data was coArb or VerBIS. The values of the following SIAB variables which are available for the ASU data source are affected by the conversion to VerBIS:

- Type of institution
- Severe disability status
- Nationality
- School education and vocational training
- Occupational classification
- The territorial allocations are not updated.

4.4.2 XASU

- In contrast to the job-search notifications from the co-operations of employment agencies and municipalities (ARGE) and the seperated responsibilities, systematic cases of under-recording have emerged for the 69 authorised municipalities since 01.01.2005. In principle, the XASU observations can only be assumed to be complete in the IEB and thus also in the SIAB data from June 2006 onwards.
- As there is no central allocation of unique identification numbers, inconsistencies or implausible job-search histories are possible in the IEB and therefore also in the SIAB data.
- A variety of variables sometimes have only a very low degree of completeness for the XASU. Variables in the SIAB which are affected by this include "school-leaving qualification", "severe disability status", "nationality", "reason for notification", "employment status prior to job-search" and the data on the place of residence. The degree of completeness of these variables improves over time. The variable "occupational classification" is not available in the XASU for almost the entire period available. In general it is to be taken into account that the degrees of completeness sometimes vary depending on the institution supplying the data.
- It remains unclear whether the institutions as intended only report periods in which they themselves are responsible for the jobseekers or whether preceding periods of support from the BA in accordance with Social Code Book III are reported as continuous episodes if the job-search status does not change.
- For a number of institutions the proportion of registered recipients of unemployment benefit II who are also registered jobseekers is implausibly large at times or continuously in the IEB. One possible reason for this could be an incorrect determination of the status "not unemployed but seeking work" by these institutions.

 The institution-related and period-related plausibility of the XASU data should be examined by the user before use, taking the research question into account.

5 Description of variables

Frequency counts and overviews of the individual values and labels of the variables can be found in separate files under http://fdz.iab.de.

5.1 Identifiers

5.1.1 Artificial individual ID (persnr)

Variable label	artificial individual ID
Variable name	persnr
Category	identifiers
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	The artificial individual ID indicates which observations belong to the same person. Artificial means that it is not possible to infer any of the person's characteristics or any original identifiers from this individual ID.
	As there is no uniform individual indicator across the BA, the allocation of (BA) data from different data sources (e.g. employment and bene- fits) to individuals is not always clear. The formation of the individual identifier which spans all data sources is based on a heuristic devel- oped by the BA.

5.1.2 Artificial establishment number (betnr)

Variable label	artificial establishment number
Variable name	betnr
Category	identifiers
Origin	ВеН
Data type	numerical
Hierarchy	none
Detailed description	The artificial establishment number indicates which observations be- long to the same establishment. It is based on the establishment num- ber allocated by the BA, which was replaced by an artificial number. Further information on the allocation of establishment numbers by the BA can be found in Bender et al. 1996: p. 15 f. and pp. 27-30. This variable is also contained in the Establishment File with a different variable label. In the Establishment File the variable label is: btr-id bhp 7508

The establishment number is missing in 9,080 (0.042%) BeH observa- tions in the SIAB. 6,522 (79%) of these observations are notifications for the person group "205" (earnings notifications for casual workers). As establishment variables (place of work, economic activity, estab- lishment size etc.) are merged via the original establishment number,
the establishment information is missing in these observations.

5.2 Period of validity

5.2.1 Original start date of observation (begorig)

Variable label	original start date of observation
Variable name	begorig
Category	period of validity
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	date
Hierarchy	none
Detailed description	The original start date of the observation corresponds to the original start date of the notification. This can differ from the start date of the episodes (begepi) (see p. 24). Because of the rules of the notification procedure, in BeH observations
	the starting and ending year are always identical (obligation of the em- ployer to submit annual employment notifications).

5.2.2 Original end date of observation (endorig)

Variable label	original end date of observation
Variable name	endorig
Category	period of validity
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	date
Hierarchy	none
Detailed description	The original end date of the observation corresponds to the original end date of the notification. This can differ from the end date of the relevant line of data, the so-called end date of the split episode. The reason for this is the so-called episode splitting procedure, see p. 24. Because of the rules of the notification procedure, in BeH observations the starting and ending year are always identical (obligation of the em- ployer to submit annual employment notifications).

5.2.3 Start date of split episode (begepi)

Variable label	start date of split episode
Variable name	begepi
Category	generated period of validity
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	date
Hierarchy	none

	Start date of the split episode. The term "episode" means the period of
Detailed description	an observation. This period can differ from the period of the original
	notification (see p. 24).

5.2.4 End date of split episode (endepi)

Variable label	end date of split episode
Variable name	endepi
Category	generated period of validity
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	date
Hierarchy	none
Detailed description	End date of the split episode. The term "episode" means the period of an observation. This period can differ from the period of the original notification (see p. 24).

5.3 Personal information

5.3.1 Gender (frau)

Variable label	gender
Variable name	frau
Category	personal variable
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	Gender dummy (0 - man, 1 - women). The gender information is constant per account.
Notes on quality	In the original data it may happen that the gender changes. This is corrected during the data preparation process. Details from data sources regarding benefit payment (LeH, (X)LHG) are given highest priority here.

5.3.2 Year of birth (gebjahr)

Variable label	year of birth
Variable name	gebjahr
Category	personal variables
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	The year of birth is constant per account.
Notes on quality	In the original data it may happen that the year of birth changes be- tween the data sources. This is corrected during the data preparation process. The information from the social security number is given highest priority here.

5.3.3 Nationality (nation)

Variable label	nationality
Variable name	nation
Category	personal variables
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	This variable contains the nation code used by the Federal Statistical Office (Statistisches Bundesamt). See 5.3.4.
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available in non-aggregated form on application and only in well-founded cases.

5.3.4 Nationality, aggregated (nation_gr)

Variable label	nationality, aggregated
Variable name	nation_gr
Category	personal variables
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	This variable combines the nation codes used by the Federal Statistical Office into groups.

5.3.5 Marital status (famst)

	· · · · · · · · · · · · · · · · · · ·
Variable label	marital status
Variable name	famst
Category	personal variables
Origin	LeH, ASU
Data type	numerical
Hierarchy	none
Detailed description	 This variable describes the marital status. Marital status includes categories of living in a joint household with children or a partner. However, it is not possible to distinguish clearly whether a married person / person living in a joint household is bringing up children, a married person / person living in a joint household / person living alone has any children at all, a lone parent / person living in a joint household / person living alone is married In the LeH data source the variable covers only two values, whereas the ASU data source distinguishes between four values. No comparison of the information from the two data sources was made.

Variable label	number of children
Variable name	kind
Category	personal variables
Origin	LeH, ASU
Data type	numerical
Hierarchy	none
Detailed description	 This variable has a different meaning depending on the data source. It indicates the children aged under 16 living in the household at the time when the benefit application was made. 1) LeH The LeH only distinguishes between whether the number of children is zero or at least one. The following values are therefore available: 0 no children 100 at least one child 2) ASU Here the value of the variable corresponds to the number of children. The variable is not updated when there are changes in the type of benefit or the approval of benefits, but only when a new case of benefit receipt occurs after a period of employment.

5.3.6 Number of children (kind)

5.3.7 School education and vocational training (bild)

Variable label	school education and vocational training
Variable name	bild
Category	personal variables
Origin	BeH, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	It must be taken onto account that this variable has a different meaning depending on the data source: 1) BeH For BeH observations the variable contains the school education / vo- cational training reported by the employers in the employment notifica- tion procedure. The indicator 'school education and vocational training' is a combined variable which is used to gather information on both the employee's school education and his/her vocational qualifications (the highest qualification gained in each case). Here the school qualifica- tions are to be established first and then the vocational qualifications. Only in the case of the values 5 (degree from a university of applied sciences) and 6 (university degree) are no other vocational qualifica- tions determined (see BA 2005, p. IX.). The following values exist: 1 Primary school/lower secondary school/intermediate school leav- ing certificate or equivalent school education, without a voca-

	tion of even life of the section
	tional qualification
	2 Primary school/lower secondary school/intermediate school leav- ing certificate or equivalent school education with a vocational qualification
	3 With upper secondary school leaving certificate (Abitur), without a vocational qualification
	4 With upper secondary school leaving certificate (Abitur) and a vo- cational qualification
	5 Degree from a university of applied sciences (Fachhochschule)6 University degree
	It cannot be inferred from the data whether the individual completed school education or not, both cases can occur in the values "1" and "2".
	2) ASU/XASU
	ASU and XASU observations contain the completed vocational training at the beginning of the job-search activity. The following values exist:
	21 no completed vocational training22 in-firm training
	23 external training
	24 full-time vocational school (Berufsfachschule)
	25 technical college (Fachschule)
	26 university of applied sciences (Fachhochschule)27 university
	"Changes in the vocational training status frequently occur at the same time as a change of establishment. This is because the notification data are compiled anew in the new firm. If, for example, an employee has gained a higher qualification via a part-time further training course while still working then this change of status is probably not recorded until s/he joins a new firm. It can generally be assumed that when a person is employed in a firm for a longer period, the personal data that they reported when they joined the firm is simply continued." (Meinken/Koch 2004, p. 63).
	A method for correcting missing values or temporal inconsistencies in the education and training data in the predecessor sample, the IABS, can be found in Fitzenberger et al. (2006) and in Drews (2006). Only the BeH data source is used for this, however, as this was the only data source with information on education and training in the IABS.
Notes on quality	"For certain sub-groups there is a large proportion of missing data be- cause this variable is not of importance as regards social security (this affects people in marginal part-time employment, for example)." (Meinken/Koch 2004, p. 63).

5.3.8 School-leaving qualification (schbild)

Variable label	school-leaving qualification
Variable name	schbild

Category	personal variables
Origin	ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	This variable contains the school-leaving qualification held by the indi- vidual at the beginning of the period of unemployment or job-search.
Notes on quality	Although the degree of completeness in the XASU increases continuously over the years, it remains comparatively low (partially under 50%).

5.3.9 Skills level (quali)

Variable label	skills level
Variable name	quali
Category	personal variables
Origin	ASU
Data type	numerical
Hierarchy	none
Detailed description	This variable takes into account not only vocational training but also occupational experience. In the case of equivalent competence as a result of educational background, performance or experience, a skills level can also be entered when the applicant does not hold a corre- sponding qualification.

5.3.10 Severe disability status (schweb)

Variable label	severe disability status
Variable name	schweb
Category	personal variables
Origin	ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	A severe disability status is recognised from a level of disability of over 50 %. Equal status to severely disabled is granted on application in accordance with §2 of the Severely Disabled Persons Act (Schwerbehindertengesetz – SchwbG) when the level of disability is between 30 % and 50 %. The variable refers to the start date of the period of unemployment or the job-search status.
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available in non-aggregated form on application and only in well-founded cases.
Note on quality	The degree of completeness of this variable is poor in the XASU in 2005 and 2006.

5.3.11 Health problems (gesund_ein)

|--|

Variable name	gesund_ein
Category	personal variables
Origin	ASU
Data type	numerical
Hierarchy	none
Detailed description	This variable provides information about whether health problems ex- ist.
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available in non-aggregated form on application and only in well-founded cases.
Notes on quality	This variable is affected by the changeover to the VerBIS procedure (see Section 4.4.1). The data quality of the variable can be described as good.

5.4 Information on employment, benefit receipt and job-search

5.4.1 Reason for notification/ reason for end of benefit receipt/ reason for discontinuation of unemployment benefit II/ reason for deregistration (grund)

Variable label	reason for notification/ reason for end of benefit receipt/ reason for discontinuation of unemployment benefit II/ reason for deregistration
Variable name	grund
Category	information on employment, benefit receipt and job-search
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	none

	1) BeH
	In BeH observations the 'reason for notification' variable indicates the reason why the employer submitted the employment notification in question to the social security agencies. However, not all of the possible reasons for submitting a notification that may occur in the context of the notification procedure are available in the IEB or the SIAB. For instance, the IEB only includes notifications that have information on earnings (i.e. annual, employment interruption and end of employment notifications), whilst initial registrations are not contained as they contain no information on earnings. However, this does not involve a loss of information as the details from a registration are transmitted again with the following annual, employment interruption or end of employment notification. In the SIAB the reasons for submitting employment notifications are
	encoded according to the regulations of the notification procedure which has been in effect since 01.01.1999 (in accordance with DEÜV). 2) LeH
Detailed description	In LeH observations the variable indicates the reason for the end of receipt of unemployment benefit, unemployment assistance or mainte- nance allowance. In contrast, neither the LeH nor the SIAB contains information about the reasons for the start of benefit receipt, as the information for the LeH comes from the notifications submitted by the employment agencies to the health insurance institutions regarding finished periods of benefit receipt
	 3) LHG/XLHG The LHG and XLHG datasets contain the 'reason for discontinuation of Unemployment Benefit II' and indicates the reason why current benefits have been discontinued. The 'reason for discontinuation of Unemployment Benefit II' variable refers to the individual, not to the benefit community. The variable is valid exactly at the end of the observation. If the value of the variable changes, the data record is split. It must be taken into account that the 'reason for discontinuation of Unemployment Benefit II' is a person-related variable. If the Unemployment Benefit II receipt of a different member of the benefit community is discontinued, all observations of the members of the benefit community are split on this date, but the reason for discontinuation of Unemployment Benefit II is only available for the individual whose benefit is discontinued. 4) ASU/XASU In the case of ASU records the variable contains the deregistration or
	exit reason. It must be taken into account here that the number of values of the variable was reduced from 26.04.2003 onwards. The old values were recoded to the new values as far as this was possible.
	Proportion of valid values (degree of completeness) for the reason for notification in the data sources LHG, XLHG, ASU and XASU: 2005 2006 2007 2008 2009
Note on quality	LHG 0.168 0.109 0.169 0.135 0.057
	XLHG 0.015 0.065 0.093 0.108 0.133
	ASU 0.786 0.926 0.943 0.889 0.555
	XASU 0.247 0.509 0.491 0.445 0.267

Variable label	daily wage, daily benefit rate
Variable name	tentgelt
Category	information on employment, benefit receipt and job-search
Origin	BeH, LeH
Data type	numerical
Hierarchy	none
Detailed description	1) BeH In BeH observations this variable shows the employee's gross daily wage. It was calculated from the fixed-period wages reported by the employer and the duration of the unsplit original notification period in calendar days. The daily wage is shown in Euros for the entire period. Until 1998 employers in principle only reported the earnings which were subject to social security contributions. Earnings below the marginal part-time income threshold were not reported. Earnings exceeding the upper earnings limit for statutory pension insurance were only reported up to this limit. It must be taken into account here that there are two upper earnings limit of the pension insurance for wage and salary earners and that of the miners' pension insurance for wage and salary earners and that of the miners' pension insurance, which is generally higher. Since the inclusion of marginal part-time employees in the employment notification procedure as of 01.04.1999, earnings below the marginal part-time income threshold have also been recorded; the upper earnings limit still applies as the upper ceiling. In some cases, however, the reported earnings nonetheless exceed the upper earnings limit. Generally this can probably be attributed to the payment of annual bonuses which the employer can add to the regular earnings notifications could also be due to incorrect details in the entification period or the annount of wages paid, though this is likely to be seldom the case given the relevance of this information for social security contributions. The marginal part-time income threshold and the upper earnings limit for statutory pension insurance differ from year to year as well as between eastern and western Germany (the decisive factor is the location of the establishment). An overview of these limits and thresholds can be found under http://fdz.iab.de. A daily wage reported as 0 Euros can be put down to "employment interruption notifications". During these periods the employment relationship continues to exist i

5.4.2 Daily wage, daily benefit rate (tentgelt)

2) LeH
For LeH observations the variable shows the daily benefit rate, con- verted into Euros in each case. It must be taken into account that for observations with an original start date prior to 01.01.1998 the daily benefit rate applies to working days, while for observations with an original start date from 01.01.1998 onwards it applies to calendar days.
Since 01.01.2005, a daily benefit rate reported as 0 Euros can be put down to benefit suspension periods or interruptions of benefit pay- ments. If a reason for deregistration / reason of end of benefit / reason for notification is reported for an observation with a daily benefit rate equal to 0, then it is a notification of interruption of benefit payments. In the case of observations that reflect a period of benefit suspension, the entitlement is the same as before the start of the benefit suspension period.

5.4.3 Transition zone (gleitz)

Variable label	transition zone
Variable name	gleitz
Category	information on employment, benefit receipt and job-search
Origin	ВеН
Data type	numerical
Hierarchy	none
Detailed description	This variable is only available from 2003 onwards and only for BeH observations. It indicates whether the employment notification relates to employment in the low-wage sector, within the so-called transition zone. Jobs in the transition zone have a gross monthly wage of \in 400.01 to \in 800.00 (so-called midi-jobs) for which the employee only has to pay a reduced overall social security contribution. As employees with earnings in the transition zone can voluntarily pay the "regular" social security contribution, not all employees with corresponding earnings are automatically classed as being in the transition zone. The corresponding legislation has been in force since 01.04.2003.

5.4.4 Occupation – activity performed (beruf)

Variable label	occupation – activity performed
Variable name	beruf
Category	employment/ benefit receipt
Origin	BeH, ASU, XASU
Data type	numerical
Hierarchy	none

	1) BeH
Detailed description	The occupational title of the job performed by the employee during the notification period is a component of the 'employment details' submitted by the employer.
	For this the employer encodes the employee's job in accordance with the "Classification of Occupations. Systematic and Alphabetical Direc- tory of Job Titles" (published by the Federal Employment Agency, Nur- emberg, 1988), which contains approx. 25,000 job titles. The occupa- tional classification consists of a 3-digit code and comprises about 330 values.
	If more than one job title with different classification codes apply for one employee, the employer is required to select the job title that best defines the main activity performed (see BA 2005, p. V).
	,
	For ASU and XASU observations this variable contains the last voca- tional qualification gained. The variable refers to the status at the be- ginning of the job-search observation.
	2) ASU/XASU For ASU and XASU observations this variable contains the last voc tional qualification gained. The variable refers to the status at the b

Variable label	occupational status and working hours
Variable name	stib
Category	information on employment, benefit receipt and job-search
Origin	ВеН
Data type	numerical
Hierarchy	none
	The employee's occupational status during the notification period is reported by the employer in the "employment details".
Detailed description	The variable "occupational status" first distinguishes between full-time and part-time employees; the decisive factor here is the ratio between the contracted hours and the usual working hours in the establishment. The variable only actually provides details about the occupational status for full-time employees, whilst for part-time employees it only records whether their working hours exceed a certain limit or not. This limit was 20 hours of work per week until 1978, between 1979 and 1987 it was 15 hours per week and since 1988 it has been 18 hours per week. The distinction between blue-collar employees in full-time employment (1,2) and white-collar employees centres solely on the type of pension- insurance institution (Federal Social Insurance Office for Salaried Em- ployees – BfA – for white-collar workers, and Land Social Insurance Office – LVA – for blue-collar workers). The category "employees in vocational training" (value 0) covers not only trainees/apprentices, placement workers and interns but also semi-skilled trainees, students at colleges for health occupations and participants in subsidized further vocational training, retraining and induction training. If more than one code is possible for an employee, the employer is required to classify the job according to the activity which is performed most. If this cannot be ascertained clearly, the code of the higher oc- cupational status is to be entered (see BA (2005): p. VI).

5.4.5 Occupational status and working hours (stib)

Variable label	employment status
Variable name	erwstat
Category	personal variables
Origin	BeH, LeH, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	This variable assumes different values with different meanings for each data source. 1) BeH For BeH observations the variable contains the person group of the employment notification, which was introduced along with the new notification procedure as of 01.01.1999. It indicates contribution- or benefit-related particularities of the employment relationship which concern at least one social security agency, differentiated according to the institutions submitting the notifications. Employees covered by social security whose employment relationship does not show any particularities are given the code 101. If more than one code applies then the smallest is to be indicated. Employees in marginal part-time employment can be distinguished in the SIAB as the person groups 109 and 209. The person group variable has only been a component of the social security notifications since the introduction of the new notification procedure on 01.01.1999. The person group can be contained in notifications that refer to the years prior to 1999 but were not received until 1999 or later. For notifications which were received before 1999 an attempt is made to allocate the notifications to the person groups on the basis of certain rules and with the aid of the variables 'school education and vocational training', 'occupational status and working hours' and 'occupation' as well as other information. In many cases, however, appropriate allocations are not possible. The obligation to submit employment notifications the grouped benefit type is reported, i.e. it states whether unemployment benefit, unemployment assistance or maintenance. 3) ASU The ASU contains the job-search status. Recipients of unemployment benefits (Unemployment Benefit 1 or II) over the age of 58 who receive benefits under the relaxed conditions according to §428 of Social Code Book III and individuals aged over 58 who are not benefit recipients and are not willing to be placed in employment in the sense of § 252 para. 8 Social Code Book VI are recorded as individuals s

5.4.6 Employment status (erwstat)

4) XASU
In the XASU to date only episodes with the status
 "not unemployed, but seeking work"
 "seeking work and simultaneously unemployed"
are reported or calculated.

5.4.7 Employment status prior to job-search (estatvor)

Variable label	employment status prior to job-search
Variable name	estatvor
Category	information on employment, benefit receipt and job-search
Origin	ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	For ASU and XASU observations this variable shows the employment status prior to the job-search activity. From 12/2002 onwards the val- ues of the variable were reduced substantially. The values of older observations were recoded to the currently valid values, which are thus valid for the entire period. As the variable is created before the episode splitting procedure, the details apply to the unsplit original observation and the first of the split episodes.
	The proportion of valid values (degree of completeness) is very small for XASU observations:
Note on quality	2005 2006 2007 2008 2009
	XASU 0.014 0.057 0.158 0.232 0.410

5.4.8 Type of benefit (lart)

Variable label	type of benefit
Variable name	lart
Category	information on employment, benefit receipt and job-search
Origin	LeH
Data type	numerical
Hierarchy	none
Detailed description	Type of earnings replacement benefit paid by the BA. (In the "employ- ment status" variable this variable is combined for the LeH data source.

5.4.9 BA client group (kundengr)

Variable label	BA client group
Variable name	kundengr
Category	information on employment, benefit receipt and job-search
Origin	ASU

Data type	numerical
Hierarchy	none
Detailed description	This variable contains the classification of the BA clients into different types, such as market client, client to be activated, client to be sup- ported and counselling client. This differentiation takes into account the need for action with regard to the individual's potential obstacles to integration.

5.4.10 Type of termination of last job (art_kuend)

Variable label	type of termination of last job
Variable name	art_kuend
Category	information on employment, benefit receipt and job-search
Origin	ASU
Data type	numerical
Hierarchy	none
Detailed description	This variable describes how the last employment or training relation- ship was terminated before a new period of job-search. It can therefore be used to identify job-to-job placements.

Variable label	willingness to seek work throughout Germany
Variable name	mobil
Category	information on employment, benefit receipt and job-search
Origin	ASU
Data type	numerical
Hierarchy	none
Detailed description	This variable describes a person's potential regional mobility. When registering job-search the jobseeker has to indicate whether s/he is seeking work anywhere in Germany or whether s/he is re- stricted to certain regions. If only selected regions are indicated, the individual is then asked whether other regions could nevertheless be considered. If this is the case, a person is regarded as "regionally mo- bile", and otherwise they are not. If a person indicates that they are seeking work across Germany s/he is automatically regarded as "mo- bile".

5.4.11 Willingness to seek work throughout Germany (mobil)

5.4.12 Desired working hours of the job sought (arbzeit)

Variable label	desired working hours of the job sought
Variable name	arbzeit
Category	information on employment, benefit receipt and job-search
Origin	ASU
Data type	numerical
Hierarchy	none

Detailed description	During the placement procedure jobseekers indicate how many work-
	ing hours the job they are seeking should have.

Variable label	duration of remaining entitlement to unemployment benefit
Variable name	restanspruch
Category	information on employment, benefit receipt and job-search
Origin	LeH
Data type	numerical
Hierarchy	none
Detailed description	Remaining entitlement is the entitlement that remains after the end of the current period of benefit receipt. Remaining entitlement continues for 7 years. If the end date of the benefit receipt is before 01.01.1998, the remaining entitlement is reported in working days, after this date it is reported in calendar days. This entitlement counts up to a maximum of the longest possible duration for the individual's respective age.

5.4.14 Type of institution (traeger)

Variable label	type of institution
Variable name	traeger
Category	information on employment, benefit receipt and job-search
Origin	LHG, XLHG, XASU
Data type	numerical
Hierarchy	none
Detailed description	This variable shows the three possible types of institution responsible for the sphere of Social Code Book II (co-operations of employment agencies and municipalities (ARGE), authorised municipalities, seper- ated responsibilities) and the type of institution for the sphere of Social Code Book III (Federal Employment Agency). Co-operations of employment agencies and municipalities (ARGE) are formed by the Federal Employment Agency and municipalities dealing with tasks jointly. In the case of authorised municipalities the relevant municipality takes on the tasks in the field of SGB II independently. In the case of seperated responsibilities the tasks continue to be divided between the BA and the municipality. It must be taken into account that the district territories covered by the institutions are not clear and thus may not necessarily correspond to the boundaries of the districts. XASU observations contain the type of institution that holds the re- cords of the Applicant Pool Data. The information is merged from the Applicant Pool Data at the start of the unsplit observation.

5.5 Establishment variables

5.5.1 Economic activity 73 – group of economic activity 73 (3-digit code) (w73_3)

Variable label	w73
Variable name	w73_3

Category	establishment variables
Origin	ВеН
Data type	numerical
Hierarchy section division group (3-digit code) of economic activity	
Detailed description	This variable indicates the economic activity as a 3-digit code in accor- dance with the WS73 classification. The economic activity W73 is available from 1975 up to and including 2002. WS73 stands for the "Classification of Economic Activities for the Sta- tistics of the Federal Employment Services, edition 1973" ("Klassifika- tion der Wirtschaftszweige für die Statistik der Bundesanstalt für Arbeit, Ausgabe 1973"). Using a 3-digit code the classification distinguishes between 269 classes of economic activity, whereby the first digit of the code defines the division of economic activity, of a total of 10, and the first two digits together define the particular group of economic activity, of a total of 95. Each establishment may only be assigned one code. If an establish- ment is active in different economic sectors, the main economic activity must be determined.

Variable label	w93, sub-class (5-digit code)
Variable name	w93_5
Category	establishment variables
Origin	ВеН
Data type	numerical
Hierarchy	section division group (3-digit code) class sub-class (5 digit code) of economic activity
Detailed description	This variable indicates the economic activity as a 5-digit code in accor- dance with the WZ93 classification. WZ93 stands for the "Classification of Economic Activities for the Statistics of the Federal Employment Services, edition 1993" ("Klassifikation der Wirtschaftszweige für die Statistik der Bundesanstalt für Arbeit, Ausgabe 1993"). The economic activity in accordance with the 1993 classification is included from 1999 until 2003. Each establishment may only be assigned one code. If an establish- ment is active in different economic sectors, the main economic activity must be determined.
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available in non-aggregated form on application and only in well-founded cases. Otherwise the economic activity is only shown as the 3-digit code.

5.5.2	Economic activit	y 93 – sub-class of	economic activity	y 93	(5-digit code	e) (w93_5	j)
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5.5.3 Economic activity 93 – group of economic activity 93 (3-digit code) (w93_3)

Variable label	w93, group (3-digit code)
Variable name	w93_3
Category	establishment variables
Origin	ВеН

Data type	numerical
Hierarchy	section division group (3-digit code) of economic activity
Detailed description	This variable indicates the economic activity as a 3-digit code in accor- dance with the WZ93 classification. WZ93 stands for the "Classification of Economic Activities for the Statistics of the Federal Employment Services, edition 1993" ("Klassifikation der Wirtschaftszweige für die Statistik der Bundesanstalt für Arbeit, Ausgabe 1993"). The economic activity in accordance with the 1993 classification is included from 1999 until 2003. Each establishment may only be assigned one code. If an establish- ment is active in different economic sectors, the main economic activity must be determined.

5.5.4 Economic activity 03 – sub-class of economic activity 03 (5-digit code) (w03_5)	5.5.4	Economic activity	03 - sub-class o	f economic activit	y 03 (5-d	igit code) (w03_5)	
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Variable label	w03, sub-class (5-digit code)
Variable name	w03_5
Category	establishment variables
Origin	ВеН
Data type	numerical
Hierarchy	section division group (3-digit code) class sub-class (5 digit code) of economic activity
Detailed description	This variable indicates the economic activity as a 5-digit code in accor- dance with the WZ03 classification. WZ03 stands for the "Classification of Economic Activities, Edition 2003" ("Klassifikation der Wirtschaftsz- weige Ausgabe 2003") of the Federal Statistical Office (eds.). The economic activity in accordance with the 2003 classification has only been available since 2003. Each establishment may only be assigned one code. If an establish- ment is active in different economic sectors, the main economic activity must be determined.
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available in non-aggregated form on application and only in well-founded cases. Otherwise the economic activity is only shown as the 3-digit code.

5.5.5 Economic activity 03 – group of economic activity 03 (3-digit code) (w03_3)

Variable label	w03, group (3-digit code)
Variable name	w03_3
Category	establishment variables
Origin	BeH
Data type	numerical
Hierarchy	section division group (3-digit code) of economic activity

	This variable indicates the economic activity as a 3-digit code in accor- dance with the WZ03 classification. WZ03 stands for the "Classification of Economic Activities, Edition 2003" ("Klassifikation der Wirtschaftsz- weige Ausgabe 2003") of the Federal Statistical Office (eds.).
Detailed description	The economic activity in accordance with the 2003 classification has only been available since 2003.
	Each establishment may only be assigned one code. If an establish- ment is active in different economic sectors, the main economic activity must be determined.

5.5.6	Economic activity 08 – sub-class of economic activity 08 (5-digit code) (w08_5)

Variable label	w08, sub-class (5-digit code)
Variable name	w08_5
Category	establishment variables
Origin	ВеН
Data type	numerical
Hierarchy	section division group (3-digit code) class sub-class (5 digit code) of economic activity
Detailed description	This variable indicates the economic activity as a 5-digit code in ac- cordance with the WZ08 classification. WZ08 stands for the "Classifi- cation of Economic Activities, Edition 2008" ("Klassifikation der Wirtschaftszweige Ausgabe 2008") of the Federal Statistical Office (eds.). The economic activity in accordance with the 2008 classification has only been available since 2008. Each establishment may only be assigned one code. If an establish- ment is active in different economic sectors, the main economic activ- ity must be determined.
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available in non-aggregated form on application and only in well-founded cases. Otherwise the economic activity is only shown as the 3-digit code.

5.5.7 Economic activity 08 – group of economic activity 08 (3-digit code) (w08_3)

Variable label	w08, group (3-digit code)
Variable name	w08_3
Category	establishment variables
Origin	BeH
Data type	numerical
Hierarchy	section division group (3-digit code) of economic activity

Detailed description	This variable indicates the economic activity as a 3-digit code in ac- cordance with the WZ08 classification. WZ08 stands for the "Classifi- cation of Economic Activities, Edition 2008" ("Klassifikation der Wirtschaftszweige Ausgabe 2008") of the Federal Statistical Office (eds.). The economic activity in accordance with the 2008 classification has only been available since 2008.
	Each establishment may only be assigned one code. If an establishment is active in different economic sectors, the main economic activ- ity must be determined.

5.5.8	First appearance of establishment	(ard	iahr)	
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Variable label	first appearance of est.
Variable name	grd_jahr
Category	establishment variables
Origin	ВеН
Hierarchy	none
Detailed description	This variable indicates the first appearance of the establishment num- ber in the dataset. If an establishment number is only detected for the first time after 1975 this variable could indicate the date when the respective establishment was founded. However, it could also be an establishment that has been in existence for a longer time but has been allocated a new establish- ment number following a change of owner or a change in the legal form of the establishment. The employment offices do not follow a standard procedure in these cases, however. The employment offices also sometimes allocate new establishment numbers when parts of a firm are outsourced.

5.5.9 Last appearance of establishment (lzt_jahr)

Variable label	last appearance of est.
Variable name	lzt_jahr
Category	establishment variables
Origin	ВеН
Hierarchy	none
	This variable indicates the last appearance of the establishment num- ber in the dataset. See also Bender et. al. 1996 regarding the allocation of establishment numbers.
Detailed description	If the existence of an establishment number in the BHP already ends before 2008, it could indicate the closure of the establishment. How- ever, other possible reasons for this are an "arbitrary change of the establishment number following a change of owner or a change in the legal form of the establishment", the "outsourcing of parts of the firm under a new establishment number" or other administrative changes (see Bender et. al. 1996.).

5.5.10 Total number of employees (az_ges)

Variable label	total number of employees
Variable name	az_ges
Category	generated establishment variables

Origin	ВеН
Detailed description	This variable contains the total number of an establishment's employ- ees reported to the social security agencies as of 30 June of a year. Since the introduction of the new notification regulations in 1999 peo- ple in marginal part-time employment have also been recorded. Part- time employees and dormant employment relationships (daily wage of zero) are also included.

Variable label	number of full-time employees
Variable name	az_ges_vz
Category	generated establishment variables
Origin	ВеН
Hierarchy	none
Detailed description	This variable contains the number of an establishment's full-time em- ployees. People in marginal part-time employment and dormant em- ployment relationships (daily wage of zero) are not included here.

Variable label	no. of emp's in marginal part-time employment	
Variable name	az_gf	
Category	generated establishment variables	
Origin	BeH	
Hierarchy	none	
Detailed description	The number of employees in marginal part-time employment is gener- ated using the person group code – values 109 and 209. This variable has only been contained in the dataset since 1999 as it has only been included in the social security notification procedure since that year.	

5.5.13 Average daily wage in establishment (te_med)

Variable label	median wage of all full-time employees	
Variable name	te_med	
Category	generated establishment variables	
Origin	ВеН	
Data type	numerical	
Hierarchy	none	
Detailed description	This variable indicates the median daily wage of the employees cov- ered by social security (excluding part-time employees, marginal part- time employees, employees with wages equal to zero) of the respec- tive establishment as of 30.06. The average daily wage is always re- ported in Euros.	

5.6 Location data

5.6.1 Place of residence: district (Kreis) (wo_kreis)

Variable label place of resid	dence: district (Kreis)
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Variable name	wo_kreis
Category	location data
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	federal state district
Detailed description	In BeH and LeH observations the place of residence at district level is only available for the years from 1999 onwards. The variable indicates the district (urban district or rural district) in which the social security contributor lives. The first two digits of the 5-digit district code (Kreisschlüssel) show the code for the federal state (Bundesland), po- sitions 1-3 indicate the regional authority (Regierungsbezirk), and posi- tions 1-5 show the district authority (Kreis). Federal states without a regional authority have a 0 in the third position. In order to guarantee consistent regional allocations across the entire observation period, the information on the district was recoded to the territorial allocation of 31.12.2008 in the BeH and the LeH, i.e. in all calendar years a place of residence is assigned to a district in accor- dance with the boundaries that the district had on 31.12.2008. As the district boundaries have changed over time, cases would occur in which the district code changes without the individual concerned hav- ing relocated, if the territorial allocations of the districts were not up- dated. For data sources other than the BeH and the LeH the territorial allocations were not updated. For LHG observations the variable is only available from January 2005, for XLHG observations from November 2005 onwards.
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available to guest researchers in non- aggregated form on application and only in well-founded cases.

5.6.2 Place of residence: employment agency (wo_aa)

Variable label	place of residence: employment agency	
Variable name	wo_aa	
Category	location data	
Origin	BeH, LeH, LHG, XLHG, ASU, XASU	
Data type	numerical	
Hierarchy	regional directorate employment agency	
Detailed description	This variable contains the employment agency of the BA client's place of residence. For the LHG and XLHG data sources the place of resi- dence is valid for the period of the observation. A change of place of residence (already at the level of local employment office (Geschäftsstelle) or local authority district (Gemeinde)) causes the observation to be split. In the case of the ASU and the XASU the vari- able contains the place of residence at the start of the period of unem- ployment or the jobseeker status. The variable is available for the BeH and the LeH from 1999 onwards, for the LHG, the XLHG and the XASU from 2005 onwards. For ASU observations the variable is al- ready available before 1999.	

	· ·
	 1) BeH, LeH In BeH observations the employment agency area of the place of residence is only shown from 1999 onwards. In order to guarantee consistent regional allocations across the entire observation period, the information on the employment agency was recoded to the territorial allocation of 31.12.2008 for the BeH and LeH observations, i.e. in all calendar years a place of residence is assigned to an employment agency area in accordance with the boundaries that the employment agency area had on 31.12.2008. As the boundaries of the employment agency areas have changed over time, cases would occur in which a person's employment agency area changes without he/she having relocated, if the territorial allocations were not updated. Berlin constitutes a problematic case with regard to updating territorial allocations, however: the boundaries of Berlin's employment agency areas have been changed repeatedly over the years, which could not be fully corrected even by recoding the territorial allocations. It must also be taken into account that until about 1989 there was no allocation to different employment agencies in Berlin, instead in most cases the code AA 901 (= Berlin regional directorate) was entered for Berlin. 2) LHG, XLHG, ASU, XASU
	For these data sources the territorial allocations were not corrected.
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available in non-aggregated form on application and only in well-founded cases. Otherwise only the area of the regional directorate in which the social security contributor's place of residence is located is shown.

5.6.3	Place of residence	: regional	directorate (wo	_rd)
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Variable label	place of residence: regional directorate	
Variable name	wo_rd	
Category	location data	
Origin	BeH, LeH, LHG, XLHG, ASU, XASU	
Data type	numerical	
Hierarchy	regional directorate employment agency	
Detailed description	This variable contains the regional directorate of the BA client's place of residence. For the LHG and XLHG data sources the place of resi- dence is valid for the period of the observation. A change of place of residence (already at the level of local employment office (Geschäftsstelle) or local authority district (Gemeinde)) causes the observation to be split. In the case of the ASU and the XASU the vari- able contains the place of residence at the start of the period of unem- ployment or the jobseeker status. The variable is available for the BeH and the LeH from 1999 onwards, for the LHG, the XLHG and the XASU from 2005 onwards. For ASU observations the variable is al- ready available before 1999. 1) BeH For the BeH and LeH data sources the territorial allocations were cor- rected. 2) LHG, XLHG, ASU, XASU For these data sources the territorial allocations were not corrected.	

Variable label	place of residence: federal state (Bundesland)
Variable name	wo_bula
Category	location data
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	federal state district
	This variable is an aggregation of the variable "district" to the 16 Ger- man federal states.
Detailed description	In BeH observations the federal state of the place of residence is only available for the years from 1999 onwards. Further information on the district of the place of residence can be found under Place of residence: district (Kreis) (wo_kreis).

5.6.4 Place of residence: federal state (Bundesland) (wo_bula)

5.6.5 Place of work: district (Kreis) (ao_kreis)

Variable label	place of work: district (Kreis)	
Variable name	ao_kreis	
Category	location data	
Origin	ВеН	
Data type	numerical	
Hierarchy	federal state district	
Detailed description	The variable indicates the district (urban district or rural district) in which the employee's establishment is located. The first two digits of the 5-digit district code (Kreisschlüssel) show the code for the federal state (Bundesland), positions 1-3 indicate the regional authority (Regierungsbezirk), and positions 1-5 show the district authority (Kreis). Federal states without a regional authority have a 0 in the third position. In order to guarantee consistent regional allocations across the entire observation period, the information on the district was recoded to the territorial allocation of 31.12.2008, i.e. in all calendar years a place of work is assigned to a district in accordance with the boundaries that the district had on 31.12.2008. As the district boundaries have changed over time, cases would occur in which the district code of the location of the establishment would change without the establishment concerned having relocated, if the territorial allocations were not up-dated.	
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available in non-aggregated form on application and only in well-founded cases.	

5.6.6 Place of work: employment agency (ao_aa)

Variable label	place of work: employment agency
Variable name	ao_aa
Category	location data
Origin	BeH, ASU

Data type	numerical	
Hierarchy	regional directorate employment agency	
Detailed description	This variable contains the employment agency of the place of work. In contrast to the variable "place of residence: employment agency", the variable is available for BeH observations from 1975 onwards and for ASU observations from 2000 onwards. The territorial allocations of the variable are corrected to the status of 31.12.2008 only for the BeH data source.	
Notes	Owing to its particular sensitivity with regard to data protection legisla- tion, this variable is only made available in non-aggregated form on application and only in well-founded cases. Otherwise only the area of the regional directorate in which the social security contributor's place of residence is located is shown. The territorial allocations of the variable are corrected to the status of 31.12.2008 only for the BeH data source.	

5.6.7 Place of work: regional directorate (ao_rd)

Variable label	place of work: regional directorate
Variable name	ao_rd
Category	location data
Origin	BeH, ASU
Data type	numerical
Hierarchy	regional directorate employment agency
Detailed description	The variable indicates the regional directorate of the BA client's place of work. In contrast to the variable "place of residence: regional direc- torate", the variable is available for BeH observations from 1975 on- wards and for ASU observations from 2000 onwards. The territorial allocations of the variable are corrected to the status of 31.12.2008 only for the BeH data source.

5.6.8 Place of work: federal state (Bundesland) (ao_bula)

Variable label	place of work: federal state (Bundesland)
Variable name	ao_bula
Category	location data
Origin	BeH
Data type	numerical
Hierarchy	federal state district
Detailed description	This variable is an aggregation of the variable "district" to the 16 Ger- man federal states.

5.7 Generated technical variables

5.7.1 Source of the observation (quelle)

Variable label	source of the observation
Variable name	quelle
Category	generated technical variables

Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	The variable indicates the data source.

5.7.2 Observation counter per person (spell)

Variable label	observation counter per person
Variable name	spell
Category	generated technical variables
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	The observation counter per person counts a person's observations, beginning with 1. The variable is generated during the episode splitting procedure and refers to the split observations. Using the variable "ob- servation counter per person" it is easy to restore the original sorting order. The observations are sorted first by the start date of the split episode and then by the data source.

5.7.3 Observation counter per episode (level2)

Variable label	observation counter per episode	
Variable name	level2	
Category	generated technical variables	
Origin	BeH, LeH , LHG, XLHG, ASU, XASU	
Data type	numerical	
Hierarchy	none	
Detailed description	A counter that counts parallel observations. The variable is generated during the episode splitting procedure and refers to the split observations. This level counter indicates whether observations overlap temporally within one account. This is the case, for example, when a person has more than one employment relationship at one time or when benefit receipt and marginal part-time employment coincide. The "level2" variable numbers the observations of such an episode, starting with 0. Within the episode the observations are first sorted by data source (BeH, LeH, LHG, ASU, XLHG, XASU). Within the BeH data source non-marginal observations come before marginal ones, then the observations are sorted by daily wages, starting with the highest wage. Within the LeH data source the observations are sorted by type of benefit; within the other data sources the sorting process is random.	

5.7.4 Observation counter per episode and source (level1)

Variable label	observation counter per episode and source
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Variable name	level1
Category	generated technical variables
Origin	BeH, LeH, LHG, XLHG, ASU, XASU
Data type	numerical
Hierarchy	none
Detailed description	With the aid of this level variable (simultaneous) observations per episode and source are counted. The variable is generated during the episode splitting procedure and refers to the split observations. This level counter indicates whether observations overlap temporally within one account. Level1 differentiates in a different way to Level2, as it counts parallel observations additionally according to the data source from which the observations come. In each case the "level1" variable thus assumes the value 0 for the first observation available per episode and data source. Further parallel observations for the same episode and source are then counted upwards from there. Within the BeH data source non-marginal observations come before mar- ginal ones, then the observations are sorted by daily wages, starting with the highest wage. Within the LeH data source the observations are sorted by type of benefit; within the other data sources the sorting process is random. (For each data source, const = 0.)

5.7.5 Year (jahr)

Variable label	year (30 June)
Variable name	jahr
Category	generated technical variables
Origin	ВеН
Data type	numerical
Hierarchy	none
Detailed description	This variable is only included in the Establishment File. It indicates the year of validity of the establishment data as of the reference date of 30 June. This variable can be used together with the establishment number to link the Individual File and the Establishment File. Code for Stata 10: use siab_7508_v1.dta gen jahr = year(begepi) sort betnr jahr merge betnr jahr using siab_7508_v1_btr_basis.dta, uniqusing sort

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7 Appendix

7.1 Correction procedures in the IABS

Section 1.3 already went into differences between the SIAB, the IABS and the IEBS. This section shows which correction procedures that were conducted for the IABS are no longer carried out for the SIAB. The number of observations affected in the IABS 2004 gives some idea of the significance of the individual steps.

Corrections in the IABS	No. of observa- tions affected in the IABS 2004
Observations deleted if end date before 1975	0 observations
Observations deleted if start date after 2004	7,923 observations
Observations deleted if reason for notification == 35 (industrial ac- tion)	18 observations
Observations deleted if observations from eastern Germany before 1992	182,347 observa- tions
Observations deleted if reason for notification 33 and remuneration $== 0$	46,915 observations
Observations deleted if reason for notification missing (LeH only)	1,260 observations
Conversion of start date to 01.01.1975 if start date is before 1975	63 observations
Conversion of end date to 31.12.2004 if end date is after 2004	169 observations
Conversion of daily wage to zero if the daily wage is smaller than 0.5	

Correction in the case of receipt of multiple benefits	No. of observa- tions affected in the IABS 2004
If one observation is completely embedded within another longer one, the longer observation is retained and the shorter one is de- leted.	20,934 observations
If two observations are equally long, the one with the highest priority is retained:	10 observations
If both observations have the same level of priority, the one with the highest benefit rate is retained.	3,278 observations
In cases where observations partially overlap, the observation that began first is shortened.	6,980 observations

Correction of overlaps of one day	No. of observations affected in the IABS 2004
 All cases which overlap by exactly one day are corrected. The following procedure is used for the correction: First observation has earnings greater than zero: First observation is retained in full, all other observations in the episode are shortened by one day. 	69,259 observations of which: employees covered by social security: 19,946 observations
- First observation has earnings equal to zero: If there are only BeH observations in the episode with earn- ings equal to zero than the first observation is retained. Subsequent observations are shortened by one day. If there are also observations regarding marginal part-time em- ployment or LeH observations in the episode, then the first of these observations is retained in full. All other observa- tions are corrected.	marginal part-time employees: 874 observations benefit receipt: 48,439 observations
The correction is not applied in the case of observations with an original duration of one day.	

Corrections of overlaps of BeH and LeH observations	No. of observa- tions affected in the IABS 2004
Here it applies that the BeH observation generally has priority over the LeH observation.	deleted observa- tions:
	536,754 observa-
BeH observations with earnings equal to zero and BeH observa- tions which are completely embedded in the period of an LeH ob- servation are exceptions. In these cases only the BeH observation is deleted or corrected.	tions
	over 80 % of which were LeH observa- tions.
Episodes in which only BeH observations of marginal part-time employment and LeH observations overlap are not corrected.	
If an observation is deleted, however, all other cases of the same episode and the same source, in other words also observations of marginal part-time employment, are also deleted.	

Strike correction	No. of individuals affected in the IABS 2004
Due to a lockout during the strike involving establishments in the automotive industry in Baden-Württemberg and Hesse in June/July 1984 there are employment interruptions. A strike correction is therefore conducted for the individuals concerned. All observations that fall in the gap are deleted.	1,830 individuals

Completion procedure	No. of observa- tions affected in the IABS 2004
In the IABS, information is added to fill gaps if the following condi- tions are fulfilled:	Total number of ac- counts:
 a gap between two observations is greater than seven days the observation preceding the gap or the last observation in a person's account: 	1,293,819 observa- tions
 describes employment covered by social security (not marginal part-time employment), shows a valid entry for the variable blh_ao_kreis and the reason for submitting the notification indicates employment (not a degregistration) the observation after the gap is a BeH observation 	Number of accounts with at least one addition: 397,214 observa- tions
 Ine observation after the gap is a ben observation no information is added to annual employment notifications at the end of an account. The length of the amended period depends on whether the period falls in the old or the new employment notification procedure. If the gap is smaller than the maximum period that can be amended, the period is amended completely. For all amended observations the earnings, the daily wage and the reason for submitting the notification are set to 0, start and 	Total accounts with additions (total btyp = 2,4,5,6): 725,967 observa- tions
end dates of the split episode are set in accordance with the peri- ods to be filled. The remaining variables are taken over from the observation preceding the gap.	

7.2 Frequency tables

Frequency tables and overviews of the individual values and labels of the variables can be found in separate files under http://fdz.iab.de.

8 List of abbreviations

AA	Agentur für Arbeit/ Arbeitsamt	employment agency / employment of- fice
ALG	Arbeitslosengeld	unemployment benefit
ARGE	Arbeitsgemeinschaft	co-operation of employment agencies and municipalities
ASU	Arbeitsuchende-Historik	Jobseeker History
BA	Bundesagentur für Arbeit	Federal Employment Agency
BeH	Beschäftigten-Historik	Employee History
BfA	Bundesversicherungsanstalt für Ang- estellte	Federal Social Insurance Office for Salaried Employees
BHP	Betriebs-Historik-Panel	Establishment History Panel
BMAS	Bundesministerium für Arbeit und So- ziales	Federal Ministry of Labour and Social Affairs
lu (d	Computerunterstützte Arbeitsvermitt- lung	computer-aided job placement (procedure for the administration of jol
	(operatives Verfahren zur Verwaltung der Vermittlung (Altverfahren))	placements – old procedure)
DEÜV	Verordnung über die Erfassung und Übermittlung von Daten für die Träger der Sozialversicherung – Datenerfassungs- und – übermittlungsverordnung	Data Collection and Transmission Regulation - regulation on the collec- tion and transmission of data for the social security agencies
DEVO	Zweite VO über die Erfassung von Da- ten für die Träger der Sozialversiche- rung und für die BA – Datenerfassungs-Verordnung –	Data Collection Regulation - second regulation on the collection of data for the social security agencies and for the Federal Employment Agency
DÜVO	Zweite VO über die Datenübermittlung auf maschinell verwertbaren Datenträ- gern im Bereich der Sozialversiche- rung und der BA – Datenübermittlungs- Verordnung –	Data Transmission Regulation - second regulation on the transfer of data on machine-readable data media in the field of social security and the BA
FDZ	Forschungsdatenzentrum	Research Data Centre
IAB	Institut für Arbeitsmarkt- und Berufsfor- schung	Institute for Employment Research
IABS	IAB-Beschäftigtenstichprobe	IAB Employment Samples
IEB	Integrierte Erwerbsbiographien	Integrated Employment Biographies
IEBS	Stichprobe der Integrierten Erwerbs- biographien	Integrated Employment Biographies Sample
LeH	Leistungsempfänger-Historik	Benefit Recipient History
LHG	Leistungs-Historik Grundsicherung	Unemployment Benefit II Recipient History
LVA	Landesversicherungsanstalt	Land Social Insurance Office
MTH	Maßnahmeteilnehmer-Historik	Participants-in-Measures History File

Gesetz zur Sicherung der Eingliede-	law to guarantee the integration of per-
rung Schwerbehinderter in Arbeit, Be-	sons with severe disabilities into em-
ruf und Gesellschaft –	ployment and society – Severely Dis-
Schwerbehindertengesetz-	abled Persons Act
Sozialgesetzbuch	German Social Code
Stichprobe der Integrierten Ar-	Sample of Integrated Labour Market
beitsmarktbiographien	Biographies
Vermittlungs- und Beratungsinforma- tionssystems	Information System for Placement and Counselling
Arbeitsuchenden-Historik aus XSozial-	Jobseeker History from XSozial-BA-
BA-SGB II	SGB II
Leistungsempfänger-Historik Grundsi-	Unemployment Benefit II Recipient
cherung aus XSozial-BA-SGB II	History from XSozial-BA-SGB II
	rung Schwerbehinderter in Arbeit, Be- ruf und Gesellschaft – Schwerbehindertengesetz- Sozialgesetzbuch Stichprobe der Integrierten Ar- beitsmarktbiographien Vermittlungs- und Beratungsinforma- tionssystems Arbeitsuchenden-Historik aus XSozial- BA-SGB II Leistungsempfänger-Historik Grundsi-

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