Sample of Integrated Labour Market Biographies – Regional File 1975-2014
(SIAB-R 7514)

Andreas Ganzer,
Alexandra Schmucker,
Philipp vom Berge,
Anja Wurdack
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Andreas Ganzer, Alexandra Schmucker, Philipp vom Berge, Anja Wurdack
(Institute for Employment Research, IAB)

Documentation:  Version 1 (SIAB_Regional_7514_EN_v1_dok1)
Data:  Version 1 (SIAB Regional 7514 v1)

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 offered is suitable for their research task; on the other, the data can be used to prepare evaluations.
Contents

1 INTRODUCTION AND OUTLINE .................................................................................................................................. 7
  1.1 Introduction ...................................................................................................................................................... 7
  1.2 Data use .......................................................................................................................................................... 8
  1.3 Changes as compared to SIAB Regional 7510 ................................................................................................. 8
    1.3.1 Corrected territorial allocation .................................................................................................................... 8
    1.3.2 Introduction of the occupation code 2010 .................................................................................................... 8
    1.3.3 Set of variables ........................................................................................................................................ 9
    1.3.4 Anonymisation ....................................................................................................................................... 10
  1.4 Outline .......................................................................................................................................................... 10
  1.5 List of variables .............................................................................................................................................. 12
  1.6 Volume Structure ........................................................................................................................................... 14

2 DATA SOURCES .................................................................................................................................................... 14
  2.1 Employee History (BeH) ................................................................................................................................ 15
  2.2 Benefit Recipient History (LeH) ..................................................................................................................... 16
  2.3 Unemployment Benefit II Recipient History (LHG) ......................................................................................... 16
  2.4 Jobseeker History (ASU / XASU) ................................................................................................................. 17

3 DATA PREPARATION AND SAMPLING PROCEDURE ......................................................................................... 18
  3.1 Corrections and validation procedures ........................................................................................................... 18
    3.1.1 Employee History (BeH) ........................................................................................................................... 18
    3.1.2 Benefit Recipient History (LeH) ................................................................................................................ 19
    3.1.3 Unemployment Benefit II Recipient History (LHG) ................................................................................. 19
    3.1.4 Jobseeker History (ASU / XASU) ........................................................................................................... 20
    3.1.5 SGB II anonymisation .............................................................................................................................. 21
  3.2 Episode splitting ............................................................................................................................................ 21
  3.3 Sampling procedure ....................................................................................................................................... 22
  3.4 Anonymisation of the SIAB-R 7514 ............................................................................................................... 22
    3.4.1 Merging sources and deletion of sources .................................................................................................... 23
    3.4.2 Periods of validity of the sources ................................................................................................................ 23
    3.4.3 Censoring of data on age .......................................................................................................................... 26
    3.4.4 Aggregation and deletion of variables ........................................................................................................ 26
    3.4.5 Consequences of the anonymisation ......................................................................................................... 28
  3.5 Missing values .............................................................................................................................................. 28

4 DATA QUALITY AND PROBLEMS ................................................................................................................... 29
4.1 Entire IEB ................................................................................................................................. 29
4.2 Employee History (BeH) ............................................................................................................ 30
4.3 Benefit Recipient History (LeH) .................................................................................................. 32
4.4 Unemployment Benefit II Recipient History (LHG) .................................................................... 32
4.5 Jobseeker History (ASU/XASU) .................................................................................................. 34
  4.5.1 ASU ........................................................................................................................................ 34
  4.5.2 XASU ..................................................................................................................................... 34

5 DESCRIPTION OF VARIABLES.................................................................................................. 35

5.1 Identifiers .................................................................................................................................... 35
  5.1.1 Individual ID (persnr) ............................................................................................................ 35
  5.1.2 Establishment counter (bnn) .................................................................................................. 36

5.2 Generated technical variables .................................................................................................... 36
  5.2.1 Observation counter per person (spell) .................................................................................. 36
  5.2.2 Source of spell (quelle_gr) .................................................................................................... 36

5.3 Period of validity .......................................................................................................................... 37
  5.3.1 Original start date of observation (begorig) .......................................................................... 37
  5.3.2 Original end date of observation (endorig) .......................................................................... 37
  5.3.3 Start date of split episode (begepi) ....................................................................................... 38
  5.3.4 End date of split episode (endepi) ....................................................................................... 38

5.4 Personal information ..................................................................................................................... 38
  5.4.1 Gender (frau) ....................................................................................................................... 38
  5.4.2 Year of birth (gebjahr) ......................................................................................................... 39
  5.4.3 Nationality (deutsch) ........................................................................................................... 39
  5.4.4 Vocational training (ausbildung) ......................................................................................... 39
  5.4.5 School leaving qualification (schule) ................................................................................... 41

5.5 Information on employment, benefit receipt and job search ...................................................... 42
  5.5.1 Daily wage, daily benefit rate (tentgelt_gr) ............................................................................ 42
  5.5.2 Occupation – current/most recent (KldB 1988) (beruf_gr) .................................................... 43
  5.5.3 Occupational group – current/most recent (KldB 2010) (beruf2010_gr) ................................. 44
  5.5.4 Level of requirement – current/most recent (KldB 2010) (niveau) ....................................... 45
  5.5.5 Part-time (teilzeit) ............................................................................................................... 46
  5.5.6 Employment status (erwstat_gr) ......................................................................................... 46
  5.5.7 Transition zone (gleitz) ....................................................................................................... 48
  5.5.8 Temporary agency work (leih) ............................................................................................ 48
  5.5.9 Fixed-term contract (befrist) ............................................................................................... 48
  5.5.10 Reason of cancellation/notice/termination (grund_gr) ......................................................... 49
  5.5.11 Employment before the age of 17 (tage_jung) .................................................................... 50
  5.5.12 Employment after the age of 62 (tage_alt) ......................................................................... 50
  5.5.13 Duration of unemployment (alo_dau) ................................................................................. 50

5.6 Location data ............................................................................................................................... 51
  5.6.1 Place of work: region (ao_region) ....................................................................................... 51
  5.6.2 Commuter status (pendler) .................................................................................................. 52

5.7 Establishment variables ................................................................................................................. 53
5.7.1 Economic activity 93 generated – completed by extrapolation / imputation (w93_3_gen_gr) ... 53

6 REFERENCES ........................................................................................................................................ 54

7 APPENDIX.............................................................................................................................................. 56

7.1 Overview of date adjustments and spell deletions ........................................................................ 56

7.2 Comparison of SIAB 7514 and SIAB-Regionalfile 7514 ............................................................... 57

7.3 Recoding tables of aggregated variables in comparison with the weakly anonymous version of the SIAB 7510 .................................................................................................................. 57

7.4 Frequency tables ................................................................................................................................ 80

8 LIST OF ABBREVIATIONS .................................................................................................................... 80
Abstract
This FDZ data report describes the “Regionalfile” of the Sample of Integrated Labour Market Biographies 1975-2014 (SIAB-R 7514). This dataset represents the factual anonymous version of the Sample of Integrated Labour Market Biographies (SIAB) and may be delivered to scientific research institutions after concluding a use agreement with the IAB.

Zusammenfassung

Keywords: German administrative micro data, labour market data, data manual, factual anonymized data, Scientific Use File

Disclaimer
We would like to thank our colleagues in the Research Data Centre (FDZ) as well as the division for IT Services and Information Management (ITM) of the Institute for Employment Research for their cooperation and support. Our special thanks go to Casandra Munkert and Hanna Walch. This data report is a revision of the FDZ data report 09/2013 (authors: vom Berge, Burghardt, Trenkle). Furthermore, parts of this data report are taken from the Data report on the weakly anonymous version of the Sample of Integrated Labour Market Biographies (SIAB) (FDZ data report 04/2016). Additionally, individual passages from IAB-internal data documentations by IAB ITM were adopted.
Data availability

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

1.1 Introduction

The regional file of the Sample of Integrated Labour Market Biographies 1975-2014 (referred to as SIAB-R 7514 in the following) is a factually anonymous\(^1\) scientific use file (SUF) of the Sample of Integrated Labour Market Biographies 1975-2014 (SIAB 7514)\(^2\). The regional file is a specific type of SUF which distinguishes itself from other types of SUFs by preserving a comparatively detailed regional data structure. However, it provides only a limited range of variables and values at the level of individuals and establishments for reasons of data confidentiality. Altogether the SIAB-Regional file in its current version covers the employment histories of 1,707,228 individuals. Their employment biographies are documented in a total of 51,987,959 lines of data.

The starting point for the production of the SIAB-Regional File is the weakly anonymous version of the SIAB 7514, which is a 2% sample of the Integrated Employment Biographies (Integrierte Erwerbsbiografien - IEB) of the Institute for Employment Research (Institut für Arbeitsmarkt- und Berufsforschung - IAB).

The IEB contains information which comes from different sources, and the individual’s statuses are described exact to the day. They comprise all individuals who showed one of the following statuses at least once during the observation period (data source and the period covered in square brackets):

- employment subject to social security [Employee History (BeH); recorded from 1975 onwards]
- marginal part-time employment [Employee History (BeH); recorded from 1999 onwards]
- receipt of benefits in accordance with Social Code Book III [Benefit Recipient History (LeH); recorded from 1975 onwards] or Social Code Book II [Unemployment Benefit II Recipient History (LHG/XLHG); recorded from 2005 onwards]
- registered with the Federal Employment Agency [Bundesagentur für Arbeit – BA] as a jobseeker [Jobseeker History (ASU/XASU); recorded from 2000 onwards]
- participation in an employment or training measure [Participation-in-Measures History (MTH); recorded from 2000 onwards]

This FDZ data report describes the preparation of the SIAB-Regional File and the variables of the SUF. The data report is structured as follows: besides an introduction, Chapter 1 contains information on data access as well as an outline of the data, the volume structure and a list of

\(^1\) For further information on the concept of factual anonymisation see Chapter 3.4.
\(^2\) For the weakly anonymous version of the SIAB 7510 see vom Berge et al. (2013)
variables. A description of the individual data sources can be found in Chapter 2. Data preparation and the anonymisation concept of the SUFs are described in Chapter 3. Chapter 4 discusses the data quality and Chapter 5 concludes with a description of the individual variables contained in the data set.

1.2 Data use

Upon request, the SIAB-Regional File is made available to researchers for a limited period of time for a project with defined contents, and applications may be processed on the premises of their research institution (§ 282 para. 7 SGB III).

In order to be able to use the data a project application must first be submitted to the FDZ. After approval by the FDZ a project specific data use agreement is concluded with the researcher’s institution.

Details about different options of data access, our requirements for data use and application procedures are available on the FDZ homepage at http://fdz.iab.de/en.aspx.

1.3 Changes as compared to SIAB Regional 7510

In comparison to the SIAB Regional 7510 some changes have been made. These changes are listed below.

1.3.1 Corrected territorial allocation

All locations stated in SIAB 7514 incorporate the territorial allocation as of 31 December 2014.

1.3.2 Introduction of the occupation code 2010

Information on vocational training, the occupation/activity performed and the occupational status is transmitted by means of notifications made by the employer in accordance with the Data Collection and Transmission Regulation (DEÜV) (see Section 2.1) using a so-called occupation code. The new occupation code 2010 was adopted for periods with an end date later than 30.11.2011 (for further details see Bertat et al., 2013). The decision to switch to the new occupation code was made by the central organisations of the social security agencies as a number of facts could no longer be recorded in a way that was up-to-date and realistic using the occupation code 2003.

As the notifications made by employers in accordance with DEÜV go into the Employee History (BeH), the change of the occupation code impacts almost exclusively on observations from this source. The measurement of the following characteristics already reported using the occupation code 2003 is affected by this change: working hours, occupation, occupational status and school and vocational qualification level. In addition, since the switch to the new occupation code, details are also available about whether an employment relationship is fixed-term.
and whether a person is employed by a temporary work agency to be hired out to other firms. The most important consequence is the switchover to a new occupational classification. Instead of the previous Classification of Occupations 1988 (Klasseifikation der Berufe 1988 (KldB 1988)), the more highly differentiated KldB 2010 is reported with the new occupation code.\(^3\)

Another important change is the discontinuation of the variable ‘occupational status and working hours’ (stib), as most of the values given in this variable can no longer be traced using the new occupation code. The categories of the previous stib variable that are available consistently across the entire observation period (employment status as an apprentice, distinction between part-time and full-time) can be traced in other variables in future. Section 1.3.3 shows which new variables are added as a result of the switch to the new occupation code, which variables are discontinued and which are contained in the data in a different form in future.

Section 4.2 shows what consequences the switch to the new occupation code has on the quality of the data in the BeH observations. One of the most serious consequences of the switchover is a temporary increase in the number of missing values in the variables reported by the employers via the occupation code. This was also the case with the new ‘working time’ variable, which is why an imputed version of the variable was used for the SIAB. The problem of increased numbers of missing values mainly concerns the years 2011 and 2012.

1.3.3 Set of variables

For reasons of data economy and due to lack of demand, some variables that were contained in the SIAB 7510 have since been discontinued. In addition, some variables had to be removed as they would no longer have been available for the entire observation period as a result of the switch to the new occupation code. The adoption of the new occupation code made it possible to include a number of variables that were not contained previously. In some cases this was possible for the entire period, by means of recoding, but in other cases it was only possible for observations from the time of the switchover at the end of 2011 onwards. Table 1 provides an overview of the changes in the set of variables across all sources.

Table 1: Changes in set of variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>Type of change</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration of unemployment (alo_dau)</td>
<td>N</td>
<td>- Introduce with new occupation code; available from 2011 onwards</td>
</tr>
<tr>
<td>Contract period (befrist)</td>
<td>N</td>
<td>- Introduce with new occupation code; available from 2011 onwards</td>
</tr>
</tbody>
</table>

\(^3\) See Paulus/Matthes, 2013, for details regarding the Classification of Occupations 2010.
1.3.4 Anonymisation

It has been attempted to keep the anonymization procedures as close as possible to that of the previous version. However, some differences occur between the two versions, as aggregations or deletions were necessary. Thus, some variables may no longer contain certain values compared to the SIAB Regional 7510. In particular, users of the old dataset versions should become familiar with changes in the variables ’erwstat_gr‘ and ’grund_gr‘.

1.4 Outline

Table 2: Outline

<table>
<thead>
<tr>
<th>Topics/ groups of variables</th>
<th>Employee History (Beschäftigten-Historik - BeH):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Annual notifications and end-of-employment notifications submitted to the social security agencies for employees covered by social security and employees in marginal part-time employment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Benefit Recipient History (Leistungsempfänger-Historik - LeH):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Information on benefit receipt in accordance with Social Code Book III (SGB III) for recipients of unemployment benefit, unemployment assistance and maintenance allowance.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Unemployment Benefit II Recipient History (Leistungs-Historik-Grundsicherung - LHG):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Data on individuals in receipt of basic social security benefits in accordance with Social Code Book II (SGB II) (Types of institution: cooperation of employment agencies and municipalities/joint facilities, separated responsibilities/municipalities exercising their duties separately, authorised municipalities).</td>
</tr>
</tbody>
</table>
**Jobseeker History (Arbeitsuchenden-Historik - ASU) as well as XSozial-BA-SGB II (XASU):**

Information on job-search activity (applicant pool of the Federal Employment Agency) including information on job-search activity reported via the transmission standard XSozial-BA-SGB II to the BA by authorised municipalities or separated responsibilities.

<table>
<thead>
<tr>
<th>Data unit</th>
<th>Employees covered by social security (including marginal part-time employees from 1999 onwards), benefit recipients, jobseekers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cases</td>
<td>1,707,228 individuals 51,987,959 non-overlapping observations (after episode splitting)</td>
</tr>
<tr>
<td>Time reference</td>
<td>exact to the day</td>
</tr>
<tr>
<td>Regional structure</td>
<td>326 districts and aggregated regions based on the place of work, categorical variable for commuter status/place of residence.</td>
</tr>
<tr>
<td>Date of territorial allocation</td>
<td>Territorial allocation updated as of 31.12.2014</td>
</tr>
<tr>
<td>Survey design</td>
<td>2 % random sample</td>
</tr>
<tr>
<td>Institutions involved</td>
<td>Social security agencies, Federal Employment Agency (Bundesagentur für Arbeit)</td>
</tr>
<tr>
<td>Update frequency</td>
<td>Continuous</td>
</tr>
<tr>
<td>File format and size</td>
<td>STATA (approx. 2.7GB), SPSS (approx. 4.3GB)</td>
</tr>
<tr>
<td>Data access</td>
<td>Data transmission solely to public research institutes or institutes which verifiably perform tasks defined as independent scientific research.</td>
</tr>
<tr>
<td>Degree of anonymisation</td>
<td>Factually anonymous data (scientific use file)</td>
</tr>
<tr>
<td>Adjustments - outline</td>
<td>The data of the SIAB-Regional File went through several preparation and anonymisation procedures such as the recoding of individual variables, aggregations and deletions of variables and time periods after they have been drawn from the IEB.</td>
</tr>
<tr>
<td>Citation of data and data documentation</td>
<td>Sample of Integrated Labour Market Biographies – Regional File 1975-2014 (SIAB-R 7514), Nuremberg 2016</td>
</tr>
</tbody>
</table>

*Data: “The data basis of this paper is the weakly anonymous Sample of Integrated Labour Market Biographies (SIAB) 1975 - 2014. The data were accessed on-site at the Research Data Centre (FDZ) of the Federal Employment Agency (BA) at the Institute for Employment Research (IAB) and/or via remote data access at the FDZ.”*
1.5 List of variables

The overview of variables in Table 4 lists the variable names and the longer descriptions of the variables. It also shows which variables are available for which data sources:

Table 3: Degrees of completeness of the variables

<table>
<thead>
<tr>
<th>Variable is available for the data source.</th>
<th>Degree of completeness always &gt; 0.85</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable is available for the data source.</td>
<td>Lower or varying degree of completeness, see description of variable and frequency count</td>
</tr>
<tr>
<td>Variable is not available for this data source.</td>
<td>Degree of completeness always &lt; 0.05</td>
</tr>
</tbody>
</table>

Example: the variable ‘daily wage, daily benefit rate’ is only available for BeH and LeH observations; the observations of the other data sources contain the missing value “.n” for this variable. Another characteristic 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, for ASU and XASU observations the job search status. These differences are not immediately obvious from the variable name for every variable.

Table 4: List of variables with degree of completeness

<table>
<thead>
<tr>
<th>List of variables</th>
<th>Page</th>
<th>BeH 1975-2010</th>
<th>LeH 1975-2010</th>
<th>LHG 1997-2004</th>
<th>(X)ASU 2007-2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifiers</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual ID (persnr)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>List of variables</td>
<td>Page</td>
<td></td>
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</tr>
<tr>
<td>-------------------------------------------------------</td>
<td>------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establishment counter (bnn)</td>
<td>36</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Generated technical variables</strong></td>
<td>36</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Observation counter per person (spell)</td>
<td>36</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source of spell (quelle_gr)</td>
<td>36</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Period of validity</strong></td>
<td>37</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Original start date of observation (begorig)</td>
<td>37</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Original end date of observation (endorig)</td>
<td>37</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start date of split episode (begepi)</td>
<td>38</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>End date of split episode (endepi)</td>
<td>38</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Personal information</strong></td>
<td>38</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gender (frau)</td>
<td>38</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year of birth (gebjahr)</td>
<td>39</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nationality (deutsch)</td>
<td>39</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vocational training (ausbildung)</td>
<td>39</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School leaving qualification (schule)</td>
<td>41</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Information on employment, benefit receipt and job search</strong></td>
<td>42</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daily wage, daily benefit rate (tentgelt_gr)</td>
<td>42</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupation – current/most recent (KldB 1988) (beruf_gr)</td>
<td>43</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupational group – current/most recent (KldB 2010) (beruf2010_gr)</td>
<td>44</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level of requirement – current/most recent (KldB 2010) (niveau)</td>
<td>45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part-time (teilzeit)</td>
<td>46</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employment status (erwstat_gr)</td>
<td>46</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transition zone (gleitz)</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temporary agency work (leih)</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed-term contract (befrist)</td>
<td>48</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reason of cancellation/notification/termination (grund_gr)</td>
<td>49</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration of Employment before the age of 17 (tage_jung)</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration of Employment after the age of 62 (tage_alt)</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### List of variables

<table>
<thead>
<tr>
<th>List of variables</th>
<th>Page</th>
<th>BeH 1975-2010</th>
<th>LeH 1975-2010</th>
<th>LHG 1997-2004</th>
<th>(X)ASU 2007-2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration of unemployment (alo_dau)</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location data</td>
<td>51</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Place of work: region (ao_region)</td>
<td>51</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commuter status (pendler)</td>
<td>52</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Establishment variables</td>
<td>53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economic activity 93 generated – completed by extrapolation / imputation (w93_3_gen_gr)</td>
<td>53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 1.6 Volume Structure

Table 5: Volume structure

<table>
<thead>
<tr>
<th>No. of cases</th>
<th>before splitting</th>
<th>after splitting</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeH</td>
<td>29.625.506</td>
<td>34.482.587</td>
</tr>
<tr>
<td>LeH</td>
<td>3.957.163</td>
<td>6.079.643</td>
</tr>
<tr>
<td>LHG</td>
<td>1.372.823</td>
<td>3.069.942</td>
</tr>
<tr>
<td>ASU</td>
<td>6.164.261</td>
<td>8.355.787</td>
</tr>
<tr>
<td>Total number of observations</td>
<td>41.119.753</td>
<td>51.987.959</td>
</tr>
<tr>
<td>Individuals</td>
<td>1.707.228</td>
<td></td>
</tr>
</tbody>
</table>

### 2 Data sources

The administrative personal data were drawn from the Integrated Employment Biographies (IEB) of the IAB. The IEB unites data from five different data sources, each of which may contain information from different EDP procedures. In addition, some supplementary variables from these data sources which are not part of the IEB are incorporated into the administrative individual data. Figure 1 illustrates the data flows that lead to the SIAB and their relationship to other FDZ data products. 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 Regional File from the IEB. Each data source of the IEB is specified below.
2.1 Employee History (BeH)

The data source 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 East 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, self-employed and 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). The data are

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4 Students may still appear in the BeH if, for example, they had a marginal part-time job parallel to their degree course.
recorded by the health insurance companies, collected in a continuous file by the BA and subsequently integrated into the History File of the IAB.

The variables of the SIAB-Regional file related to establishments are taken from the Establishment-History-Panel (Betriebs-Historik-Panel - BHP) which itself is also based on the BeH (see Schmucker et al. 2016). The following modified variables based on the BHP are included in the scientific use file:

- Place of Work (ao_region)
- Industry Classification 93 (extrapolated 1975-2003 amd 2008-2014) (w93_gen_gr)

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

1. Information on establishments is based on individual data and aggregated on the annual cut-off date of the BHP, June 30. Unlike the data on individuals, the establishment variables are not spell data but are only valid on 30 June precisely each year.

2. Secondly, the BHP is created directly from the BeH, whereas the SIAB Individual File is generated from the IEB (see Figure 1). The IEB however does not incorporate all BeH observations.

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 (sphere of Social Code Book III). 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). Since entitlement to benefits depends on meeting certain legal requirements, periods of unemployment in which the requirements are not met (e.g. no eligibility for unemployment assistance, or non-completion of the qualifying period for unemployment benefit) are not reported in the Benefit Recipient History. The earliest available data in the LeH are from 1 January 1975.

2.3 Unemployment Benefit II Recipient History (LHG)

The Unemployment Benefit II Recipient History (Leistungshistorik Grundsicherung - LHG) contains information about individuals who are eligible for benefit and capable of work, about the members of their benefit community (Bedarfsgemeinschaft) in accordance with § 7 SGB II and about certain individuals associated with the benefit community. In the SIAB it is not possible, however, to link individuals with benefit receipt in accordance with Social Code Book II (SGB II) at the level of benefit communities. The receipt of benefits in accordance with SGB II covers both basic social security benefits (e.g. Unemployment Benefit II) and supplements to unemployment benefit or additional benefits. The LHG does not contain any information about the
benefit rates, however. As the amount of benefit received is not determined at the level of the individual but at the level of the benefit community in the case of Unemployment Benefit II, it is difficult to assign an individual benefit rate and this is not done in the SIAB.

Unlike the benefits in the sphere of Social Code Book III, the Federal Employment Agency (BA) is not the sole institution responsible for administering the benefits. The data therefore distinguish between the three possible types of institution responsible for implementing SGB II:

- Cooperation of employment agencies and municipalities (Arbeitsgemeinschaften – ARGE) until the end of 2010 / joint facilities (gemeinsame Einrichtungen) since 2011, in which the BA and the municipality deal with tasks jointly,
- separated responsibilities (getrennte Trägerschaft) / municipalities exercising their duties separately (until 2011) – here the tasks are divided between the BA and the municipality\(^5\),
- authorised municipalities, which are also called opting local authorities or opting municipalities according to the initial experimental clause of Section 6a - here the local authority is responsible for all tasks in the sphere of SGB II.

The data of the “Unemployment Benefit II Recipient History drawn from A2LL” (LHG) come from different reporting procedures. As a rule, the IT procedure A2LL was used in all ARGE cooperation projects until 2010, and in joint facilities from 2011 onwards\(^6\). Authorised municipalities use various IT procedures of their own and transmit their data to the BA by means of the XSozial-BA-SGB II standard. Both of the procedures are used by municipalities with separated responsibilities. The different data standards affect the scope and quality of the data supplied.

The earliest available data in the LHG are from 1 January 2005. However, the data source is incomplete until the beginning of 2007 (see Section 4).

2.4 Jobseeker History (ASU / XASU)

Data about jobseekers are stored in the Jobseeker History (Arbeitsuchendenhistorik – ASU / XASU). The ASU data source contains information on jobseekers who are registered with employment agencies, and from 2005 onwards also includes ARGE cooperation projects and separated responsibilities for the implementation of SGB II. The XASU data source, on the

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\(^5\) The municipality pays the costs for housing and heating (Section 22 SGB II) and additional one-off benefit payments to cover extra costs (Section 23 (3) SGB II) and the additional benefits to support integration in accordance with Section 16 (2) Clause 2 No. 1 - 4 SGB II. The BA, on the other hand, covers the costs for regular benefits, social security contributions and integration benefits (SGB III and SGB II) and specific benefits excluding the additional benefits to support integration cited above.

\(^6\) In 2014 A2LL was gradually replaced by ALLEGRO as the new IT procedure for Unemployment Benefit II in the sphere of SGB II in joint facilities.
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-SGB II standard.

3 Data preparation and sampling procedure

3.1 Corrections and validation procedures

Before the data from the data sources specified in Section 2 are merged to form the IEB they undergo source-specific correction procedures (see the following Sections). The IEB as a whole undergo the following corrections:

− Observations in which the age is under 13 or over 75 are deleted.
− Observations whose end date precedes the start date are deleted.
− Inconsistent information on gender or date of birth within an account is corrected.
− Records with no information on the date of birth or on gender after the correction procedure are deleted.

Unlike in the IABS, no further corrections (such as the addition of presumably missing notifications, strike corrections) are performed.

3.1.1 Employee History (BeH)

− To capture a person group that is as constant as possible over time, some person groups for which data are not available throughout the entire observation period are excluded. From the reporting year 2011 onwards the BeH data originate from newly designed source data. As a result, a number of person groups have been introduced or reactivated as they are classified by the BA statistics as being subject to social security contributions. The person groups 101 - 107, 111 - 114, 118, 119, 120, 140, 141, 142, 143, 149, 201 and 203 - 205 are therefore contained from that time onwards as well as the two groups 109 and 209, which indicate people in marginal part-time employment. Groups that are not included are, for example, people in short-term employment, i.e. person groups 110, 202 and 210.
− Person groups 123, 124 and 127 have been newly introduced.
− For data protection reasons, the person groups 107, 111, 113, 114, 127 and 204 are combined to form the person group “other workers” (599).
− From the reporting year 2012 onwards apprentices were included as the new person groups 121 and 122.
− 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.
- Gender and date of birth are taken from the Data Warehouse (DWH) of the BA. This information is harmonised across data sources.
- The territorial allocations for place of work and place of residence are updated to the status as of 31 December 2014.

3.1.2 Benefit Recipient History (LeH)
- In cases of on-going 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. There is no information on the end of the period for which the benefit is allowed in the SIAB-Regional File because benefit receipt notifications still valid on 31.12.2014 are right-censored (see section 3.4.2). 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 the receipt of unemployment assistance precedes the start date by one day and the spell was not deleted, then the end date is increased by one year.
- Between 2004 and 2006 the notification procedure from which the data originate was changed. Overlaps occurring between the old and the new procedures were corrected.
- Observations with no end date or an invalid end date are excluded, since in these cases it cannot be assumed that a benefit payment was made at all.
- The territorial allocations are corrected analogous to the BeH.

3.1.3 Unemployment Benefit II Recipient History (LHG)
- Observations without a BA client number are deleted.
- Observations without a valid date of birth are deleted.
- Cancelled data records are not used.
- It only contains observations of people who are capable of work and people under the age of 65.
- In each case non-overlapping periods of benefit entitlement of a person in a certain benefit community (BG) are depicted. New observations are begun for the following administrative reasons:
  - on certain birthdays of members of the BG that are stipulated by law and relevant for structural changes in the benefit community (14, 15, 18 and 25) and the individual retirement age of members of the BG,
  - when the structure of the benefit community changes (e.g. due to entries/exits),
  - when there are changes in a variable of the BG client and
At the beginning and the end of a case of benefit sanctions for observations from 1 April 2006 onwards. It must be taken into account, however, that it is not possible to identify the duration or type of sanction or the time when it was imposed or when it began on the basis of the data. The reason for this is that there is no corresponding variable or value that indicates the start, type or duration of the sanction.

- For the reason mentioned above, all individual-related variables that are available for the LHG source are valid for the entire duration of the observation.
- Double notifications due to the territorial reforms in 2009/2011 and the reorganisation of the institutions in 2012 were corrected as far as possible.
- The territorial allocations are corrected in the same way as the BeH in the SIAB.

**3.1.4 Jobseeker History (ASU / XASU)**

- Observations whose end date precedes the start date are not included in the ASU.
- There is no consolidation of the ASU observations for individual persons. Therefore, overlaps between ASU observations might occur.
- Individual-related variables that are only available for the (X)ASU sources always refer to the beginning of the spell.
- A new ASU spell is generated as soon as a change of status occurs (e.g. from seeking work to unemployed). This also applies if the type of institution (employment agency, cooperation of employment agency and municipality, joint facility, authorised municipalities, separated responsibilities) changes. The ASU data basis only distinguishes between observations with the status “unemployed” and “jobseeker” and since 2006 between “seeking advice” and “without status”. In the IEB, however, the additional status “ill / not able to work” is available. The employment status “ill / not able to work” is assigned to IEB spells 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”.
- In contrast to the ASU source, the XASU only distinguishes between the status
  - “not unemployed, but seeking work” or
  - “unemployed and simultaneously seeking work”.
- Unlike in the ASU, periods of illness are not taken into account when generating the “employment status”, since no information about illness is available in the XASU data. When
calculating the unemployment duration with XASU observations, gaps due to illness cannot be identified.

- The XASU contains non-overlapping time periods for individuals. If one of the following variables changes, in each case a new data spell is generated for the XASU:
  - change of job search status
  - change of availability
  - change of SGB II institution (due to notification procedure)
  - change of place of residence
- The territorial allocations are corrected in the same way as the BeH.

### 3.1.5 SGB II anonymisation

In order to reduce the risk of de-anonymisation, in general only the year of birth is indicated in the administrative data. However, in the LHG and (X)ASU sources there is the risk that the exact date of birth may still be obvious due to the chronological structure of the observations. Observations might end systematically on certain birthdays and/or the day before, or start again on the birthday.

In order to prevent an indirect determination of the exact date of birth, the following procedure is applied. Observations split on the 18th, 25th or 65th birthday are merged into a single observation. Apart from the exact date of birth no other information is lost in this case. For observations beginning on the 15th birthday or on the first day of retirement (or ending on the first day of retirement), the start date (end date) of the observation is set to the beginning (the end) of the respective quarter. This correction results in a bias of the duration of the observation.

### 3.2 Episode splitting

The administrative individual 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 (see Figure 2). 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).
It is advisable to sort entirely parallel observations generated by the splitting procedure in a consistent manner. The variables ‘observation counter per episode’ (level2) and ‘observation counter per episode and source’ (level1) that were previously contained in the SIAB can be generated using the following Stata commands if required:

```stata
bysort persnr begepi quelle (spell): gen byte level1 = _n-1
bysort persnr begepi (spell): gen byte level2 = _n-1
```

Figure 2: Episode splitting

### 3.3 Sampling procedure

The SIAB is a 2 % sample of the individuals for whom there is an entry in the IEB. This makes the SIAB representative of the person groups of all of the data sources, not only of people in employment. 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 to 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.

### 3.4 Anonymisation of the SIAB-R 7514

The Sample of Integrated Labour Market Biographies, which serves as the data basis for the SIAB-Regional File, contains a large amount of personal information on the status of a person
on the labour market. Additional establishment characteristics are available in the case of employment notifications from the social security notification procedure. The legislator stipulates that these social data (§ 67 SGB X) which are available at micro level at the FDZ may only be transmitted for scientific purposes (§ 282 para. 7 SGB III, § 75 SGB X) if both the personal and the establishment-related data can be regarded as factually anonymous when tested. This means that a disproportionately large amount of time, expense and effort would be required in order to identify an individual in the data set. The costs of deanonymisation must therefore exceed its benefits.

The guidelines provided by Müller et al. (1991) regarding the factual anonymity of micro data constitute the decisive orientation framework for the preparation of scientific use files at the FDZ (see for example Zimmermann et al. 2007; Drews 2008). The Sample of Integrated Labour Market Biographies was prepared and anonymised in the form of a regional file in order to guarantee the best possible continuity for users of previous scientific use files, in particular for users of the IAB Employment Samples, and in order to meet the constant demand for a regional file of employment history data from the IAB. The data were anonymised by deleting selected values and variables and aggregating information which is sensitive with regard to data protection legislation. The anonymisation procedures are described in the following.

3.4.1 Merging sources and deletion of sources
When developing the SIAB-Regional File from the SIAB 7514, details on the source of certain observations were merged or deleted. For example, information about job-search (ASU and XASU) were combined in each case to a joint data source, (X)ASU, in the SIAB-Regional File. The reason for this is that the information about whether a person in a region receives his/her support from an authorised municipality (zugelassener kommunaler Träger - zkT) constitutes a risk of the data subject being re-identified. This risk results from the fact that the information about the institution responsible for the person, in combination with regional information from other sources or from the employment history, can make it possible to identify the location at local authority level. This is also the reason why the source Participation-in-Measures History (MTH) was completely deleted: information on support by a zkT is systematically missing in the MTH.

3.4.2 Periods of validity of the sources
After aggregating the data sources (see Section 3.4.1) and in accordance with the data protection regulations mentioned above, information about the start and end dates of selected observations were adjusted. Figure 3 illustrates the periods for which the various sources are available in the SIAB-Regional File. For the Employee History (BeH) and the Benefit Recipient History (LeH) the SIAB-R 7514 only contains observations for the period between 1.1.1975
and 31.12.2014. Notifications submitted in the context of the social security notification procedure in East Germany are only assumed to be complete from 1993 onwards. In employment notifications with valid places of work in East Germany before the year 1992 the information on the district region is set to missing (.z). It is therefore only possible to distinguish whether a person is employed in East or West Germany in the SIAB-Regional File from 1992 onwards.

Figure 3: Periods of validity of the data sources

The (X)ASU is available in the SIAB-Regional File for the period between 1.1.1997 and 31.12.2004 and the period between 1.1.2007 and 31.12.2014. As the ASU original source is only assumed to be complete from the year 1997 onwards, observations with an end date before 1.1.1997 are not reported in the SIAB-Regional File. The deletion of observations in the years 2005 and 2006 is first due to the quality-relevant under-representation of notifications from the authorised municipalities responsible for implementing SGB II (zugelassene kommunale Träger) in the IEB original data (see Antoni et al. 2016). Second, revealing these data is problematic in terms of data protection legislation because of the risk of individuals reported by authorised municipalities being identified in combination with regional information. The outlined problems associated with notifications from authorised municipalities also apply to the LHG in 2005 and 2006. Accordingly the SIAB-Regional File only contains observations from the LHG with episode start dates from 1.1.2007 onwards. Observations whose start and end dates are outside these source-specific periods of validity are no longer contained in the data. In the case of observations from the LeH, (X)ASU and
(X)LHG sources which span more than one year and in which either the start date or the end date falls in one of the source-specific periods of validity, the dates are changed. This means that the original information regarding either the start or end date is replaced by the respective start or end date of the source-specific period of validity.

(X)ASU records constitute a peculiarity in the data. They can begin before the deleted period of 2005/2006 and can extend into 2007 without interruption. These observations were duplicated in the SIAB-Regional File and the start and end dates were adapted to the period of validity, so the data contain two observations – a right-censored record and a left-censored one.

The following fictitious examples in Figure 4 illustrate the procedure used for adjusting the dates. The white bar [1] always represents the original period and the grey bar [2] the period contained in the SIAB-Regional File after the date adjustment procedure.

In the example showing the left-censoring of a job-search observation from the (X)ASU to 1.1.1997 and in the example depicting the right-censoring of an observation from the LHG (also LeH or (X)ASU) to 31.12.2014, the number of data records in the data remains the same. Only the parts of the multi-year observation which are outside the observation period covered by the SIAB-Regional File are deleted.
The example in the middle shows the procedure used for multi-year observations which span the period deleted from the (X)ASU in 2005 and 2006. In this case two censored observations are created from the original notification. Accordingly the number of lines of data in the SIAB-Regional File increases compared with the original file.

3.4.3 Censoring of data on age

For data confidentiality reasons the scientific use file only contains those data records in which a person’s age is between 17 and 62. Records that end before the age of 17 or begin after the age of 62 are excluded. In the case of records spanning more than one year which begin before or in the year of a person’s 17th birthday but end after that date, the original start date (‘begorig’) was converted to 1st of January of the year in which the person reaches the age limit of 17. Similarly, the original end date (‘endorig’) was converted to 31 December of the year in which the person reaches the age limit of 62 if the record begins before or in the year of a person’s 62nd birthday and end after that year. The variables ‘tage_jung’ and ‘tage_alt’ report the number of days in (regular) employment before the age of 17 and after the age of 62, respectively.

3.4.4 Aggregation and deletion of variables

While in the case of the sources with information on benefit receipt and job-search activity the spectrum of variables was strongly reduced compared with the weakly anonymous version of the SIAB for data protection reasons, the employment-related variables from the Employee History (BeH) have largely been retained and aggregated in the SIAB-Regional File. The variables remaining in the SIAB-Regional File constitute the basis for the application of further anonymisation procedures in the form of the aggregation of information. Müller et al. (1991, p. 444 f.) suggest the following three rules for testing and creating a factually anonymous regional file:

1. It must not be possible to identify any regional unit contained in the data which has fewer than 100,000 inhabitants by combining regional classifications (see Müller et al. 1991, p. 444)

This demand was met by checking the number of inhabitants in the 402 autonomous municipal districts (kreisfreie Städte) and rural districts (Landkreise) as of 31.12.2014. The regionalisation contained in the SIAB-Regional File combines the information on districts in the original

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7 The calculation of periods of employment takes the following restrictions into account: quelle_gr==1 & level2==0 (Stata Syntax).

8 Data basis: Population projection of the Federal Statistical Office (Statistisches Bundesamt) as of 31.12.2014 for the autonomous municipal authorities (kreisfreie Städte) and the administrative districts (Kreise) (NUTS 3-level) of the Federal Republic of Germany.
data in such a way that each of the district regions created has no fewer than 100,000 inhabitants as of the reference date. This regionalisation in the SIAB-Regional File is based on the procedure used to create the microcensus district regions (Mikrozensuskreisregionen - MZKR) (see Christians/Wirth 2009, p.22). The aggregation results in a total of 326 district regions which are shown in the variable 'place of work: region' (ao_region) (territorial allocation 31.12.2014). When defining the district regions superordinate spatial units such as spatial planning regions according to the Federal Institute for Research on Building, Urban Affairs and Spatial Development (Bundesinstitut für Bau-, Stadt- und Raumforschung - BBSR) and NUTS-II regions were taken into account as far as possible (see Table A 9 and Figure A 1).

In addition the variable ‘commuter status’ (pendler) was generated, which indicates whether the current place of residence differs from the current or most recently reported place of work.

2. **Variables that may potentially be suitable for identifying individuals must be so strongly aggregated that no values of variables are shown which**
   a. **do not comprise at least 50,000 individuals in the population,**
   b. **do not contain at least three individuals in the data set per regional unit transmitted;**
   variable values which contain only one or two cases in the data set may only be shown in a more strongly aggregated form (see Müller et al. 1991, p. 444 f.).

3. **If necessary for compliance with data protection legislation, all other variables contained in the regional file must be aggregated to a level at which every variable value disclosed covers at least 5000 persons in the population** (see Müller et al. 1991, p. 445).

On the basis of these criteria, further variables were aggregated when producing the SIAB-Regional File. Frequency counts of individuals as of 30th June of any year were taken as the basis. Attributes of variables with a high risk of deanonymisation were aggregated first if their univariate marginal distribution as of 30th June of the respective year did not comprise a minimum number of persons (2a). Second, they were aggregated if the cells of the contingency tables showing the relationship between the particular variable and the variable ‘place of work: region’ did not contain a minimum of three persons (2b). When checking the data on economic activity, the number of establishments was taken as the basis and not the number of persons as this is an establishment variable. All other variables are counted over the entire observation period of the data and are aggregated if necessary on the basis of (3) if at any time the minimum case numbers given above are not reached in the data cells of the SIAB 7514.

If parallel information from different sources is available for a person on the reference date, e.g. job-search and simultaneous benefit receipt, then the person was only taken into account once in a variable that is available in both sources (e.g. age or nationality) when conducting the frequency counts covering more than one data source.
Aggregations were conducted for the following variables: nationality, occupation – activity performed, classification of economic activity, occupational status, reason for notification/ reason for end of benefit receipt/ reason for discontinuation of unemployment benefit II/ reason for deregistration. For these variables the years 1975 up to and including 1984 were not used to assess the aggregation level required for the factual anonymity of the variables. Due to the structural change on the labor market, a strict interpretation of the anonymisation rules described above would have resulted in a very high level of aggregation in this period and therefore in a substantial restriction of the analysis potential for the data for certain groups of persons. The daily wage and the benefit rates were rounded to whole Euros.

3.4.5 Consequences of the anonymisation

The information on employment and benefit receipt in accordance with SGB III in the SIAB-Regional File are only affected to a small extent by deletions at the level of data records and individuals. The deletion of individual data records for anonymisation reasons in the process of adjusting the observation periods for the (X)ASU and (X)LHG sources resulted in some individuals being dropped from the SIAB-Regional File. As a result of the data preparation procedures mentioned above a total of 50,697 individual accounts were deleted with reference to the SIAB 7514. The SIAB-Regional File therefore still contains 97.1 percent of the persons included in the source file, SIAB 7514.

Some personal and establishment-related variables were either aggregated or deleted from the data during the anonymisation process across all sources. In the data sources with information on benefit receipt and job-search, the spectrum of variables was reduced considerably, while the employment-related variables were largely retained and were simply aggregated. More detailed information about deletions and aggregations at variable level due to anonymisation compared to the weakly anonymous version of the SIAB 7514 and compared to related FDZ data products can be found in the tables in the Appendix to the data report (see section 7.2).

3.5 Missing values

In the SIAB, missing values are coded as follows:

<table>
<thead>
<tr>
<th>Term</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No (valid) details available</td>
<td>.z</td>
<td>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 cannot be interpreted reasonably. Please note that it is not possible to distinguish between anonymised and invalid values originating from the weakly anonymous version of the SIAB.</td>
</tr>
</tbody>
</table>
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 Entire IEB

The IEB contains employment histories. Not each kind of employment is included in the administrative data, though. Certain persons with certain life courses are not represented in the IEB at all.

For evaluation purposes, it is often relevant to know gaps in the included biographies (e.g. for control group creation, course of life analyses, etc.). The gaps listed in the following are defined as periods of time after the end of school education for which no data is included in the IEB.

These gaps can be divided into
- gaps with no information available, and
- gaps for which information may be available from the reason for notification / reason for end of benefit receipts / reason for discontinuation of SGB II / reason for deregistration characteristic of the direct preceding dataset (if a corresponding dataset exists).

These gaps were identified using the manifestation of the reason for notification / reason for end of benefit receipts / reason for discontinuation of SGB II / reason for deregistration and employment status characteristics in the various sources of SIAB 7514. The list makes no claims of being complete. The anonymization of this variable in the SIAB Regional File further reduces identifiability.

Table 6: Biographical gaps and identification possibilities

<table>
<thead>
<tr>
<th>Biographical gap</th>
<th>Information on gap, identifiable using the details in the &quot;grund&quot; variable in the preceding observation of the source, if necessary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil servants, professional soldiers, judges, employees of bodies or foundations under public law</td>
<td>XASU</td>
</tr>
<tr>
<td>Self-employed persons without support</td>
<td>LeH, ASU</td>
</tr>
<tr>
<td>Students, persons in school-based further education</td>
<td>LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Persons who are ill / not able to work for more than 6 weeks (illness during unemployment, however, is represented in the ASU source under certain circumstances, see Section 3.1.4)</td>
<td>BeH, LeH, ASU</td>
</tr>
<tr>
<td>Category</td>
<td>Insured Institution(s)</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Persons receiving old-age pension without employment if not a member of a benefit community</td>
<td>LeH, LHG, ASU</td>
</tr>
<tr>
<td>Individuals on maternity leave / parental leave</td>
<td>XASU</td>
</tr>
<tr>
<td>Recipients of early retirement benefits</td>
<td>LeH, ASU</td>
</tr>
<tr>
<td>Trade professionals working from home</td>
<td>LeH, ASU</td>
</tr>
<tr>
<td>Employees working short-time</td>
<td>ASU</td>
</tr>
<tr>
<td>Persons in youth welfare facilities, in vocational training centres, approved workshops or similar facilities for disabled persons</td>
<td>ASU</td>
</tr>
<tr>
<td>Participants in programmes to support participation in working life (people in rehabilitation)</td>
<td>ASU</td>
</tr>
<tr>
<td>(Sideline) farmers</td>
<td></td>
</tr>
<tr>
<td>Caregivers according to Section 19 SBG XI</td>
<td></td>
</tr>
<tr>
<td>Conscripts</td>
<td>BeH, LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Persons in reserve duty training</td>
<td>BeH, LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Persons fulfilling community service</td>
<td>BeH, LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Persons fulfilling a voluntary social or ecological year instead of community service</td>
<td></td>
</tr>
<tr>
<td>Other people not registered with the statutory pension insurance or the Federal Employment Agency (e.g. sabbatical, funding from personal assets or pensions, emigration, employment abroad, voluntary work etc.)</td>
<td>BeH, LeH, ASU</td>
</tr>
<tr>
<td>Strikers in cases where the strike lasts more than a month</td>
<td>LeH</td>
</tr>
<tr>
<td>Social assistance recipients (prior to the introduction of SGB II in 2005), recipients of welfare payments (according to SGB II)</td>
<td></td>
</tr>
<tr>
<td>Recipients of compensation according to FELEG (Gesetz zur Förderung der Einstellung der landwirtschaftlichen Erwerbstätigkeit, Act on Support in Case of Termination of Farming Activities)</td>
<td></td>
</tr>
</tbody>
</table>

4.2 Employee History (BeH)

- The introduction of the new occupation code in 2011 led to a number of problems. For example, during the transition period granted to employers in the social security notification procedure, there was a temporary increase in the number of missing details. Analyses of the BA statistics (Bertat et al., 2013, p. 10) show that in 20 to 30 percent of cases no information was contained in the new or converted variables ‘occupation - activity performed’,

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9 The test programs used in the notification procedure permitted missing details in the occupation code 2010 until the end of May 2012.
‘working hours’ and ‘vocational education and training’ after the switchover. This situation began to improve significantly in the first half of 2013. In order to improve the quality of the ‘working time’ variable in the transition period, Ludsteck/Thomsen (2016) developed an imputation procedure to replace the missing values by imputed values. The imputed data are already used in the SIAB 7514.

- Due to the introduction of the employment notification procedure in the federal states of eastern Germany, the notifications for eastern Germany can only be assumed to be sufficiently complete from 1993 onwards. For the same reason, a large number of spells for 1991 have missing values for several variables (such as employment status).
- 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.
- Especially in 1999, observations of part-time employment increase significantly. This is caused by the actually observed increase in part-time work as well as by the fact that since 1999 employment notifications have been completed more correctly.
- 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 (until the annual notification 2012) or mid-February (from the annual notification 2013 onwards) 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 6 months after the end of the reporting year (e.g. the 18-month file for 2013 can be created in July 2015 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 2012. 18-month files were used for 2013, and the observations for 2014 come from a 6-month file. It can therefore be assumed that the BeH observations for 2013 and in particular for 2014 are slightly underreported 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.
- 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 increased considerably from that year onwards (see Bender et al. 1996).

- For the years 1992 until 2000 noticeable decreases and increases in the number of notifications were observed. Decreases can be observed especially for the following 10 districts: Braunschweig (03101), Wolfsburg (03103), Emden (03402), Kassel (06633), Essen (05113), Neuss (05162), Erftkreis (05362), Hersfeld-Rotenburg (06632), Miltenberg (09676) and Kempten (Allgäu) (09763). This is due to notification problems of one or more establishments in these regions.

- Considerable decreases were also observed for the districts Salzgitter (03102) and Hoyerswerda (14264).

- Concerning the notifications for full-time employment, especially the districts Main-Taunus (06436) and Alzey-Worms (07331) are noteworthy. They feature above-average rises. Also in this case, the reasons are notification problems at one or more establishments in these regions.

- In the years 1996 to 1998, the values 841-844 (doctors and pharmacies) within the ‘occupation – activity performed’ variable are very rare compared to the neighbouring years.

4.3 Benefit Recipient History (LeH)

- For the states of eastern Germany, the LeH observations were not fully recorded until 1992.

- The benefit receipt data used to be saved on magnetic tapes. Owing to a fault in one magnetic tape, the benefit receipt data up to and including 1980 are only partially contained. Thus, in the present data product, too, it can be assumed that information on benefit receipt in that period is not available in full.

- Due to an internal change of systems, there is a break in the recording of periods of exclusion from benefits and of benefit suspension in 2004. Until 1 July 2004 periods of exclusion from benefits and of benefit suspension can only be identified via the ‘reason for end of benefit receipt’ in the preceding LeH observation. After this date a separate observation is available with the daily benefit rate = 0 for periods of benefit exclusion and suspension.

4.4 Unemployment Benefit II Recipient History (LHG)

- With regard to the completeness of case numbers or benefit histories from the LHG data sources, there are substantial gaps in the years 2005 and 2006. These years are deleted in the SIAB-Regional file.
− Longitudinal analyses of individuals are affected by inaccuracies as it is not possible to distinguish between changes in the benefit entitlement status and relocations into and out of districts whose institutions had problems delivering data.
− Also from 2007 onwards, cases of underrecording occur at times. These generally last one month and occur mainly in the authorised municipalities.
− Underrecording and overrecording occur in connection with changes in the type of institution responsible for implementing SGB II:
  o In the context of the reform of the territories covered by the institutions, which came into force on 1 January 2011, cases of underreporting occurred in the districts covered by the employment agencies of Dessau-Roßlau, Halberstadt, Halle and Sangerhausen.
  o Double notifications due to the territorial reforms in 2009/2011 and the changes in the form of the institutions as of 1 January 2012 are already corrected as far as possible in the IEB. Nonetheless double notifications may still occur.
− In the following job centres there are inaccuracies with regard to the allocation of benefit cases:
  o between Emden and Norden between September and December 2009
  o between Döbeln and Mittelsachsen from October to December 2012
  o between Tirschenreuth and Wunsiedel from November 2012 to March 2013
− Some individuals for whom a (X)LHG spell exists are excluded entirely or partly from benefit receipt according to SGB II, for instance because they take part in a subsidised training programme, receive an old-age pension, live in an in-patient facility or a residential institution or receive insurance payments aimed at avoiding need. This affects on average 3 to 5 percent of all cases. In XSozial this person group is sometimes underrecorded by some institutions. Exclusion from benefits can not be identified in the SIAB.
− The degree of completeness of the variable “Reason for discontinuation of unemployment benefit II” is comparatively low in the SIAB data. 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” (grund_gr) 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.
4.5 Jobseeker History (ASU/XASU)

4.5.1 ASU

- The registered periods of job search activity in the ASU source are regarded as complete from the year 1997 onwards.

- From mid-2005 until mid-2006, the coArb IT procedure, from which the jobseeker and applicant pool data originate, was superseded by the VerBIS procedure at the Federal Employment Agency. In July 2005, coArb 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 frequency counts, depending on whether the original source of the data was coArb or VerBIS. Important limitations in the analysis potential are mentioned in the corresponding description of variables.

- The coArb procedure, which was used until June 2006, supported only the placement of unemployed persons and jobseekers. Some data were also collected about individuals who were only seeking advice, but these data are incomplete. The careers advice data were collected in a separate system. In VerBIS the attributes of the job-search status were extended to include 'seeking advice' and individuals 'without status'. The latter group includes individuals eligible for Unemployment Benefit II who are only available for job placement to a limited degree. The recording of this group in VerBIS is only regarded as largely complete since January 2008.

- A change of the institution responsible for implementing SGB II or a change of place of residence does not lead to a new ASU observation, the value of the variable at the start of an episode is continued. The longer the observation becomes, the greater the risk is that the institution responsible or the place of residence is no longer correct.

4.5.2 XASU

- In the SIAB-Regional file the XASU notifications from the 69 authorised municipalities can be assumed to be complete from the year 2007 onwards. Before that, systematic underreporting can be observed. These years are therefore deleted in the SIAB Regional file.
− As there is no central allocation of 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 which are affected by this include ‘school-leaving qualification’, ‘severe disability status’, ‘reason for notification’ as well as ‘employment status prior to job search’. Although the degree of completeness of these variables improves over time, some of them are still unsatisfactory. The ‘occupation – activity performed’ variable is not available in the XASU for almost the entire period available. Thus, this variable is set to missing in the (X)ASU data source.

− For a number of institutions (districts), 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 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/en.aspx.

5.1 Identifiers

5.1.1 Individual ID (persnr)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Individual ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>persnr</td>
</tr>
<tr>
<td>Category</td>
<td>identifiers</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
<tr>
<td>Detailed description</td>
<td>The 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 identifier in the different data sources, the allocation of the information from different data sources (e.g. employment and benefits) to individuals is not always unambiguous. In such cases, implausible employment histories may arise. The formation of the individual identifier which spans all data sources is based on a heuristic developed by the BA.</td>
</tr>
</tbody>
</table>
### 5.1.2 Establishment counter (bnn)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Counter of different establishment IDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>bnn</td>
</tr>
<tr>
<td>Category</td>
<td>identifiers</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

**Detailed description**: Numbers the establishments in a person’s working life in ascending order. Example: The first establishment in which a person was employed is given the value 1. If the person moves to a different establishment, this establishment is given the value 2, etc. If the person returns to an establishment in which he or she was previously employed, then this establishment is given the value that applied for the first period of employment there (e.g. 2). If a person returns to the first establishment after just one change of establishment, this would result in the sequence 1-2-1 for the variable ‘bnn’ over time. Missing establishment numbers in the original data were also set to missing (.z) in the SUF.

### 5.2 Generated technical variables

#### 5.2.1 Observation counter per person (spell)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Spell counter per person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>spell</td>
</tr>
<tr>
<td>Category</td>
<td>generated technical variables</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

**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 “observation counter per person” variable, 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.

#### 5.2.2 Source of spell (quelle_gr)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Source of spell, grouped</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>quelle_gr</td>
</tr>
<tr>
<td>Category</td>
<td>generated technical variables</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>
The variable indicates the data source. The original sources ASU and XASU were each aggregated to one source for data confidentiality reasons. Hence, it is not possible to distinguish between the types of institution. Because of the adjustments made, the designated time periods of the sources differ from those provided in the SIAB 7514. For further information on data preparation see Chapter 3. For further information on aggregation see Table A 3.

5.3 Period of validity

5.3.1 Original start date of observation (begorig)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Original start date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>begorig</td>
</tr>
<tr>
<td>Category</td>
<td>period of validity</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Data type</td>
<td>date</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

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 also the comments on episode splitting in Section 3.2). Since the notification logic might under certain circumstances permit re-identification of the exact day of birth, the original information on the date was changed in these cases by applying the anonymisation procedure described in Section 3.1.5.

1) BeH
Because of the rules of the notification procedure, in BeH observations the starting and ending year are always identical (obligation of the employer to submit annual employment notifications). A continuous employment relationship may therefore be distributed across several notifications.

2) LHG, ASU, XASU
Certain changes lead to the creation of a new observation (see Sections 3.1.3 and 3.1.4). begorig indicates the start date of the new period.

5.3.2 Original end date of observation (endorig)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Original end date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>endorig</td>
</tr>
<tr>
<td>Category</td>
<td>period of validity</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Data type</td>
<td>date</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>
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 (see also the comments on episode splitting in Section 3.2).

Since the notification logic might under certain circumstances permit re-identification of the exact day of birth, the original information on the date was changed in these cases by applying the anonymisation procedure described in Section 6.

1) BeH
Because of the rules of the notification procedure, in BeH observations the starting and ending year are always identical (obligation of the employer to submit annual employment notifications). A continuous employment relationship may therefore be distributed across several notifications.

2) LHG, ASU, XASU
Certain changes lead to the creation of a new observation (see Sections 3.1.3 and 3.1.4). endorig indicates the end date of the new period.

<table>
<thead>
<tr>
<th>5.3.3 Start date of split episode (begepi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable label</td>
</tr>
<tr>
<td>Variable name</td>
</tr>
<tr>
<td>Category</td>
</tr>
<tr>
<td>Origin</td>
</tr>
<tr>
<td>Data type</td>
</tr>
<tr>
<td>Hierarchy</td>
</tr>
<tr>
<td>Detailed description</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.3.4 End date of split episode (endepi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable label</td>
</tr>
<tr>
<td>Variable name</td>
</tr>
<tr>
<td>Category</td>
</tr>
<tr>
<td>Origin</td>
</tr>
<tr>
<td>Data type</td>
</tr>
<tr>
<td>Hierarchy</td>
</tr>
<tr>
<td>Detailed description</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.4 Personal information</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.4.1 Gender (frau)</td>
</tr>
<tr>
<td>Variable label</td>
</tr>
</tbody>
</table>
### Variable name: frau
- **Category:** personal variable
- **Origin:** BeH, LeH, LHG, ASU, XASU
- **Data type:** numerical
- **Hierarchy:** none
- **Detailed description:** Gender dummy (0 - man, 1 - woman). The gender information is constant within one individual account.

### 5.4.2 Year of birth (gebjahr)
- **Variable label:** Year of birth
- **Variable name:** gebjahr
- **Category:** personal variables
- **Origin:** BeH, LeH, LHG, ASU, XASU, MTH
- **Data type:** numerical
- **Hierarchy:** none
- **Detailed description:** The year of birth is constant within one individual account.
- **Notes on quality:** In the original data, it may happen that the year of birth changes between the data sources. This is corrected during the data preparation process. The information from the social security number is given highest priority here. For further information on the anonymisation of the year of birth see Section 3.4.3.

### 5.4.3 Nationality (deutsch)
- **Variable label:** nationality
- **Variable name:** deutsch
- **Category:** personal variables
- **Origin:** BeH, LeH, LHG, XLHG, ASU, XASU
- **Data type:** numerical
- **Hierarchy:** none
- **Detailed description:** Reports whether the person is a German citizen (1) or whether he or she is not (0). The notification may change over time. For data confidentiality reasons the variable is set to missing (.z) for individuals working in Eastern Germany or East/West border-commuters.

### 5.4.4 Vocational training (ausbildung)
- **Variable label:** Vocational training
- **Variable name:** ausbildung
- **Category:** personal variables
- **Origin:** BeH, ASU, XASU
- **Data type:** numerical
- **Hierarchy:** none
It must be taken into account that this variable has a different meaning depending on the data source:

1) BeH
For BeH observations the variable contains the vocational education and training reported by the employers in the employment notification procedure. The following values exist:

1. No vocational training
2. In-company voc. training/traineeship/external voc. training
11. Degree from a university of applied sciences
12. University degree

In notifications using the new occupation code (see Section 1.3.2) it is no longer possible to identify graduates of universities of applied sciences clearly, as the new occupation code no longer has a separate category for this vocational qualification. They are assigned to category 12.

“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 he/she 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.

2) ASU, XASU
For these observations the vocational education or training completed most recently is reported. The following values exist:

1. no completed vocational training
2. in-firm vocational training/external vocational training
3. full-time vocational school (Berufsfachschule)
4. technical college (Fachschule)
5. university of applied sciences (Fachhochschule)
6. university

The data source XASU partly contains degrees which are not recognised in Germany. These observations were set to missing (.z) due to data confidentiality.
Notes on quality

The number of missing values increases continuously over time. In the most recent data more than 40% of values are missing. Missing values occur especially frequently in the following person groups: persons in marginal part-time employment, persons working part-time, foreign employees and eastern German workers. The reason for this is that the variable is not of particular importance as regards social security (see Meinken/Koch, 2004, p. 63).

As a result of the switchover from coArb to VerBIS it is not possible to distinguish correctly between “no completed vocational training” and “no information available” in the ASU and MTH data sources between 2006 and 2008. A missing value in this period therefore does not necessarily mean that the person has no vocational training or that there is no information available on vocational education and training, but may also mean that it was not possible to apply the relevant data generation procedure. The degree of completeness in the XASU data source is generally low.

5.4.5 School leaving qualification (schule)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>School leaving qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>schule</td>
</tr>
<tr>
<td>Category</td>
<td>personal variables</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, ASU, XASU</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

This variable contains the school leaving qualification. Different values are possible depending on the source.

1) BeH

The possible values change when the new occupation code is adopted (see Section 1.3.2). The values with the old occupation code are:

- 5 Grade-/lower secondary school with or without leaving certificate, intermediate school leaving certificate or equivalent qualification
- 8 Upper secondary school leaving certificate from a specialised upper secondary school (Fachoberschule), general upper secondary school leaving certificate, A-level equivalent, qualification for university
- 9 General upper secondary school leaving certificate, A-level equivalent, qualification for university

With the new occupation code the values are:

- 1 No school leaving certificate
- 4 Lower secondary school certificate/grade school certificate
- 6 Intermediate school leaving certificate
- 8 Upper secondary school leaving certificate from a specialised upper secondary school/general upper secondary school leaving certificate
cate, A-level equivalent, qualification for university

2) ASU, XASU
The following values are possible for these data sources:

1  No school leaving certificate
4  Lower secondary school certificate/ grade school certificate
6  Intermediate school leaving certificate
7  Upper secondary school leaving certificate from a specialised upper secondary school (Fachoberschule)
9  General upper secondary school leaving certificate, A-level equivalent, qualification for university

They are valid at the beginning of the period of job-search or participation in a measure. In the case of people seeking an apprenticeship position, the variable may also contain the school qualification they are working towards in the XASU data source.

Notes on quality
The degree of completeness has been decreasing continuously over time in the BeH and has stood at under 2/3 in recent years. In the XASU it has been increasing continuously and has stood at over 2/3 since 2012. In ASU the degree of completeness is good on the whole.

5.5 Information on employment, benefit receipt and job search

5.5.1 Daily wage, daily benefit rate (tentgelt_gr)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Daily wage/daily benefit, rounded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>Tentgelt_gr</td>
</tr>
<tr>
<td>Category</td>
<td>information on employment, benefit receipt and job search</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, LeH</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

Detailed description
1) BeH
In BeH observations, this variable shows the employee’s gross daily wage. It is 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.

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 are only reported up to this limit. There are two upper earnings limits in the statutory pension insurance scheme. The earnings limit of the miners’ pension insurance is generally higher than the earnings limit of the pension insurance for wage and salary earners. However, it is not possible to differentiate between these two insurance providers in the data.

Since the inclusion of marginal part-time employees in the employment notification procedure on 1 April 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 in the annual, employment interruption or end of employment notifications. In this case, it is irrelevant whether the upper earnings limit in the statutory pension insurance which is decisive for the notification period is exceeded as a result of this addition. However, such earnings notifications could also be due to incorrect details in the employment period. (The earnings information, however, may be considered less error-prone due to its insurance relevance.) 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 in legal terms, but without pay. This is the case for periods of illness after the end of continued payment of wages, for periods of maternity leave and for sabbaticals. The daily wage is shown with two decimal places. All values greater than 0 and smaller than 0.5 were rounded up to 0.1. This makes it possible to identify the above-mentioned employment interruption notifications with the condition daily wage = 0. Earnings exceeding the upper earnings limit for statutory pension insurance are censored.

2) LeH

For LeH observations, the variable shows the daily benefit rate, converted into euros in each case. It must be taken into account that for observations with an original start date prior to 1 January 1998 the daily benefit rate applies to working days, while for observations with an original start date from 1 January 1998 onwards it applies to calendar days. Since 1 January 2005, a daily benefit rate reported as 0 euros can be put down to benefit suspension periods or interruptions of benefit payments. If a reason for end of benefit 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.

In the SUF, the variable is rounded to whole Euros. All values greater than 0 and smaller than 0.5 were rounded up to 0.1.

5.5.2 Occupation – current/most recent (KldB 1988) (beruf_gr)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Occupation – current/most recent (KldB 1988) , grouped</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>beruf_gr</td>
</tr>
<tr>
<td>Category</td>
<td>information on employment, benefit receipt and job search</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>
The occupational classification consists of a 3-digit code and comprises about 330 values. The three-digit occupational classification is aggregated to 120 occupational groups each consisting of at least 1,000 observations per year as of the reference date of June 30th. For further information on grouping see Table A 6.

1) BeH
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. If more than one job title with different classification codes applies to one employee, the employer is required to select the job title that best defines the main activity performed (see BA 2005, p. V).

For this, the employer encodes the employee’s job in accordance with the “Classification of Occupations. Systematic and Alphabetical Directory of Job Titles” (published by the Federal Employment Agency, Nuremberg, 1988), which contains approx. 25,000 job titles. The occupational classification consists of a 3-digit code and comprises about 330 values.

Employment notifications with an end date later than 30.11.2011 are reported using the new occupation code 2010 (KldB2010) (see Section 1.3.2). These values are recoded to the KldB1988 by transferring the key area. This results in inaccuracies.

2) ASU, XASU
The variable is censored in the SUF (.z).

| Note on quality | There is a considerable increase in the number of missing values in 2011 due to the change in the reporting procedure. |

### 5.5.3 Occupational group – current/most recent (KldB 2010) (beruf2010_gr)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Occupational group - current/most recent (KldB 2010), grouped</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>beruf2010_gr</td>
</tr>
<tr>
<td>Category</td>
<td>information on employment, benefit receipt and job search</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

The occupational group consists of a 3-digit code and comprises about 144 values. This classification was further grouped to 124 occupational groups, each consisting of at least 1,000 observations per year as of the reference date of June 30th. For further information on grouping see Table A 7.

1) BeH
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. 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 Bundesagentur für Arbeit, 2005, p. V). For this the employer encodes the employee’s job in accordance with the “Classification of Occupations 2010” (Klassifikation der Berufe 2010, KldB2010, Bundesagentur für Arbeit, 2011). The occupational class consists of a 5-digit code and comprises about 1300 values. The less detailed occupational group is recorded by the first three digits of the code. The skill level required for a job, which is recorded in the fifth digit of the codes in the KldB2010, is made available separately in the variable ‘level of requirement’ (niveau). Employment notifications with an end date earlier than 30.11.2011 are reported using the old occupation code 1988 (KldB 1988) (see Section 1.3.2). These values are recoded to the KldB2010 by transferring the key area. As the new occupation code is considerably more detailed than the old one, this results in substantial inaccuracies. This must be taken into account when analysing the data.

2) LeH, ASU, XASU
The variable is censored in the SUF (.z).

Note on quality
There is a considerable increase in the number of missing values in 2011 due to the change in the reporting procedure.

5.5.4 Level of requirement – current/most recent (KldB 2010) (niveau)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Level of requirement - current/most recent (KldB 2010)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>niveau</td>
</tr>
<tr>
<td>Category</td>
<td>information on employment, benefit receipt and job search</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, LeH, ASU, XASU</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

Detailed description

1) BeH
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. 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 Bundesagentur für Arbeit, 2005, p. V).

For this the employer encodes the employee’s job in accordance with the “Classification of Occupations 2010” (Klassifikation der Berufe 2010, KldB2010, Bundesagentur für Arbeit, 2011). The occupational class consists of a 5-digit code and comprises about 1300 values. The less detailed occupational sub-group is recorded by the first four digits of the code. The skill level required for a job, which is recorded in the fifth digit
of the codes in the KldB2010, is made available separately in the variable 'level of requirement' (niveau).

Employment notifications with an end date earlier than 30.11.2011 are reported using the old occupation code 1988 (KldB 1988) (see Section 1.3.2). These values are recoded to the KldB2010 by transferring the key area. As the new occupation code is considerably more detailed than the old one, this results in substantial inaccuracies. This must be taken into account when analysing the data.

2) LeH, ASU, XASU

The variable contains the level of requirement of the last job.

Note on quality
There is a considerable increase in the number of missing values in 2011 due to the change in the reporting procedure.

5.5.5 Part-time (teilzeit)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Part-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>teilzeit</td>
</tr>
<tr>
<td>Category</td>
<td>information on employment, benefit receipt and job search</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

Detailed description
The employee’s occupational status during the notification period is reported by the employer in the “employment details”. The variable “occupational status” 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 provides actual details regarding the occupational status for full-time employees, distinguishing among other things between blue-collar and white-collar employees in full-time employment and trainees/apprentices. When the new occupation code was introduced (see Section 1.3.2), however, this distinction was no longer available. The variable ‘teilzeit’ therefore only distinguishes between full-time and part-time employment in the entire reporting period. No further information about the occupational status is used.

Note on quality
There is a considerable increase in the number of missing values in 2011 due to the change in the reporting procedure. In order to reduce this problem, the working hours were imputed at the IAB for the period in question. Further information about the procedure can be found in Ludsteck/Thomsen (2016).

5.5.6 Employment status (erwstat_gr)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Employment status, grouped</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>erwstat_gr</td>
</tr>
<tr>
<td>Category</td>
<td>information on employment, benefit receipt and job search</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, LeH, LHG, ASU, XASU</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>
This variable assumes different values with different meanings for each data source. The variable is grouped in the SUF. For further information on aggregation see Table A 4.

1) BeH
For BeH observations, the variable ‘employment status’ corresponds to the person group recorded in the new notification procedure (DEÜV) from 1 January 1999 onwards. It indicates contribution- or benefit-related particularities of the employment relationship.

If multiple codes apply to an employment notification, the smallest must be indicated by the reporting employer. The majority of these cases are employment relationships subject to social security contributions without any distinctive characteristics, which are recorded under code number 1. Accordingly, it is possible that these employment relationships are slightly overestimated.

The notification procedure stipulates that changes in the employment status - e.g. when an apprentice is taken on by his/her training company after completing his/her vocational training - must be indicated by a new notification (cf. Deutsche BKK 2012, p. 31).

The person group can be contained in employment 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 vocational education and training’, ‘occupational status and working hours’ and ‘occupation’ variables as well as other information. In many cases, however, conclusive allocations are not possible.

Since 1 April 1999, employees in marginal part-time employment have also been recorded in the DEÜV notification procedure. This person group can be distinguished via the value 3.

2) LeH
For LeH observations, the variable ‘employment status’ contains the grouped benefit type. Thus, it is possible to distinguish whether a person receives unemployment benefit, unemployment assistance or maintenance allowance or whether contributions to private long-term care insurance are paid by the BA.

3) ASU/XASU
The variable ‘employment status’ only contains the values ‘not unemployed, but seeking work’ as well as ‘unemployed and simultaneously seeking work’ in the SUF. Observations containing the value ‘seeking advice’ and ‘without status’ were deleted due to data confidentiality.

Since the notification logic might in many cases permit re-identification of the exact day of birth, the original information on the date was changed by applying the anonymisation procedure described in Section 213.1.5.
4) LHG
For LHG datasets, the ‘employment status’ variable shows whether the person is registered as an employable minor, an employable person of full age or not employable from the old-age pension threshold. Since the notification logic might in many cases permit re-identification of the exact day of birth, the original information on the date was changed by applying the anonymisation procedure described in Section 3.1.5.

5.5.7 Transition zone (gleitz)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Transition zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>gleitz</td>
</tr>
<tr>
<td>Category</td>
<td>information on employment, benefit receipt and job search</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

**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 € 400.01 to € 800.00 (since 2013 from € 450.01 to € 850.00) (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 classified as being in the transition zone. The corresponding legislation has been in force since 1 April 2003.

5.5.8 Temporary agency work (leih)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Temporary agency work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>leih</td>
</tr>
<tr>
<td>Category</td>
<td>information on employement, benefit receipt and job search</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

**Detailed description**
The variable reports whether the person’s employment is a temporary job via an employment agency. The variable is derived from the occupation code 2010 and is only available for notifications with an end date later than 30.11.2011.

**Note on quality**
There is a considerable increase in the number of missing values in 2011 due to the change in the reporting procedure.

5.5.9 Fixed-term contract (befrist)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>Fixed-term contract</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>befrist</td>
</tr>
<tr>
<td>Category</td>
<td>information on employement, benefit receipt and job search</td>
</tr>
</tbody>
</table>
Origin | BeH  
---|---  
Data type | numerical  
Hierarchy | none  
Detailed description | The variable reports whether the person's employment relationship is fixed-term or permanent. The variable is derived from the occupation code 2010 and is only available for notifications with an end date later than 30.11.2011.  
Note on quality | There is a considerable increase in the number of missing values in 2011 due to the change in the reporting procedure.  

5.5.10 Reason of cancellation/notification/termination (grund_gr)

| Variable label | Reason of cancellation/notification/termination, grouped  
|----------------|----------------------------------------------------------  
| Variable name | grund_gr  
| Category | information on employment, benefit receipt and job search  
| Origin | BeH, LeH, LHG, ASU, XASU  
| Data type | numerical  
| Hierarchy | none  

Detailed description | The variable is grouped in the SUF. For further information on aggregation see Table A 5.

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. 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. The reasons for submitting employment notifications are encoded according to the regulations of the notification procedure which has been in effect since 1 January 1999 (in accordance with DEÜV).

2) LeH
In LeH observations, the variable indicates the reason for the end of receipt of unemployment benefit, unemployment assistance or maintenance allowance. There is no information about the reasons for the start of benefit receipt in the LeH, as the information comes from the notifications submitted by the employment agencies to the health insurance institutions regarding finished periods of benefit receipt.
3) LHG
The LHG observations contain the ‘reason for discontinuation of Unemployment Benefit II’ and indicate 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. If the Unemployment Benefit II receipt of a different member of the benefit community is discontinued, new observations for all members of the benefit community are started on this date, but the reason for discontinuation of Unemployment Benefit II is only available for the individual whose benefit is discontinued. This variable is valid exactly at the end of the original observation.

4) ASU/XASU
In the case of (X)ASU observations, the variable contains the deregistration or exit reason. In the case of a change of legal sphere, the observation is split artificially and ‘generated by data splitting’ is entered as the reason for deregistration.

Note on quality
The proportion of valid values (degree of completeness) for the reason for notification in the LHG data sources is very small (< 20%) across all years. The degree of completeness is also low in the XASU, but improves over time.

5.5.11 Employment before the age of 17 (tage_jung)
Variable label days in employment before the lower age limit (year of 17th birthday)
Variable name tage_jung
Category information on employment
Origin BeH
Data type numerical
Hierarchy none
Detailed description This variable reports how many days an individual was employed before the year of his/her 17th birthday. Only the main employment is considered. (Stata syntax: quelle_gr==1 & level2==0).

5.5.12 Employment after the age of 62 (tage_alt)
Variable label days in employment after the upper age limit (year of 62nd birthday)
Variable name tage_alt
Category information on employment
Origin BeH
Data type numerical
Hierarchy none
Detailed description This variable reports how many days an individual is employed after the year of his/her 62nd birthday. Only the main employment is considered. (Stata Syntax: quelle_gr==1 & level2==0).

5.5.13 Duration of unemployment (alo_dau)
Variable label Duration of unemployment
Variable name alo_dau
Category information on employment, benefit receipt and job search

Origin LeH, LHG, ASU, XASU

Data type numerical

Hierarchy none

Detailed description

The variable reports the duration (in days) of an uninterrupted sequence of periods of unemployment and is valid at the beginning of the observation.

The following gaps do not result in an interruption of the period of unemployment:

- any gap lasting seven days or less
- periods of illness lasting up to 42 days (ASU)

When calculating the duration these gaps are not added, however. No information about illnesses is contained in XASU observations, which is why it cannot be taken into account in the calculations.

Prior to 1997 the value “0” does not mean that the individual was not unemployed, as the ASU/XASU sources are not available here.

5.6 Location data

5.6.1 Place of work: region (ao_region)

Variable label place of work: district / region

Variable name ao_region

Category location data

Origin BeH

Data type numerical

Hierarchy federal state | district region

Detailed description

The variable indicates the district (urban district, rural district or aggregated if the population is lower than 100,000; see Section 3.4.4) 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. Due to the aggregation of the districts, a clear allocation to the regional author-
ity is not possible in a few cases. However, district regions were generated in such a way that an unambiguous allocation to the spatial planning regions (Raumordnungsregionen) is possible.

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 December 2014, 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 December 2014. 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 updated.

For reasons of data security, the place of work is only given when corresponding to the place of work according to the main spell (level2==0) of an episode. Further parallel places of work are censored (.z). Further information about grouped districts can be found in Table A 9.

### 5.6.2 Commuter status (pendler)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>commuter status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>pendler</td>
</tr>
<tr>
<td>Category</td>
<td>location data</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH, LeH, (X)ASU, (X)LHG</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>none</td>
</tr>
</tbody>
</table>

The variable ‘commuter status’ indicates whether an individual’s current or most recent place of work corresponds to his or her current place of residence. As a reference for all sources, the current place of work or the place of work from the most recent BeH notification (main employment) is taken as a basis and compared with the current place of residence.

The variable contains the following details:

0: the district of the place of residence corresponds to the district of the (last available) place of work (no commuter)

1: the district of the place of residence does not correspond to the district of the (last available) place of work, but both districts belong to the same district region (intra-regional commuter)

2: the district of the place of residence and the district of the (last available) place of work are located in different district regions (inter-regional commuter)

This variable is available for:

- BeH: 1999-2014
- LeH: 1999-2014
Values for the variable “commuter status” are only given for main spells (level2==0).
If the place of residence for one source is not available in the original data for an individual’s episode, the variable ‘commuter status’ is re-coded with missing (.z). Missing (.z) is also coded if the individual’s place of residence is available in one source but there is no previous BeH observation with a valid place of work that could be used as a reference.

5.7 Establishment variables

5.7.1 Economic activity 93 generated – completed by extrapolation / imputation (w93_3_gen_gr)

<table>
<thead>
<tr>
<th>Variable label</th>
<th>w93_3 completed by extrapolation/imputation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable name</td>
<td>W93_3_gen_gr</td>
</tr>
<tr>
<td>Category</td>
<td>establishment variables</td>
</tr>
<tr>
<td>Origin</td>
<td>BeH</td>
</tr>
<tr>
<td>Data type</td>
<td>numerical</td>
</tr>
<tr>
<td>Hierarchy</td>
<td>section (1-digit code)</td>
</tr>
</tbody>
</table>

Detailed description
The variable is grouped in the SUF. For further information on aggregation see Table A 8.

This variable indicates the economic activity as a 3-digit code in accordance with the WZ93 classification. From 1998 up to and including 2003, the variable contains the original values from w93_3. Before 1998 and after 2003, the information is either written back / continued or replaced with the help of recoding tables, so that the variable contains time-consistent information on the economic activity based on the economic activity classification WS93. A detailed description can be found in Eberle et al. (2011).

WZ93 stands for “classification of economic activity, issue 1993” (Statistisches Bundesamt, 2002). The WZ93 is based on the Statistical Classification of Economic Activities in the European Community NACE Rev. 1 (“Nomenclature générale des activités économiques dans les communautés européennes”) which has four levels the first two of which are based on the international standard ISIC Rev. 3 (“International Standard Industrial Classification of All Economic Activities”).

Each establishment is only assigned one code. If an establishment is active in different economic sectors, the main economic activity should be reflected.
6 References

Antoni, Manfred; Ganzer, Andreas; vom Berge, Philipp (2016): Stichprobe der Integrierten Arbeitsmarktbioografien (SIAB) 1975 - 2014. FDZ Datenreport, 04/2016 (de), Nürnberg


Schmucker, Alexandra; Seth, Stefan; Ludsteck, Johannes; Eberle, Johanna; Ganzer, Andreas (2016): Betriebs-Historik-Panel 1975-2014. FDZ-Datenreport, 03/2016 (de), Nürnberg.


## Appendix

### 7.1 Overview of date adjustments and spell deletions

Table A 1: Overview of date adjustments and spell deletions within the preparations of the SIAB-Regional file 7514

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Start and end date between 1.1.2005 and 31.12.2006</td>
<td>-</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Start and end date before 1.1.1997</td>
<td>-</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Start and end date before 1.1.2007</td>
<td>-</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deletions of spells</td>
<td>Start date between 1.1.2005 and 31.12.2006, end date after 1.1.2007</td>
<td>Start date 1.1.2007</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
7.2 Comparison of SIAB 7514 and SIAB-Regionalfile 7514

Table A 2: Reduction of the number of individuals in the course of the preparation of SIAB-Regional File 7514

<table>
<thead>
<tr>
<th>Basic file: number of individuals SIAB 7514</th>
<th>1.757.925</th>
<th>100.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Deletion of observations in all sources which end before an age of 17 or begin after the age of 62</td>
<td>1.716.446</td>
<td>97.6%</td>
</tr>
<tr>
<td>2 Deletion of observations in the source MTH</td>
<td>1.713.710</td>
<td>97.5%</td>
</tr>
<tr>
<td>3 Deletion of observations with the categories „seeking advice“ and „without status“ in the source ASU</td>
<td>1.711.649</td>
<td>97.4%</td>
</tr>
<tr>
<td>4 Deletion of ASU observations which end before 1997</td>
<td>1.710.286</td>
<td>97.3%</td>
</tr>
<tr>
<td>5 Deletion of LHG, XASU and XLHG observations which end before 2007</td>
<td>1.709.506</td>
<td>97.3%</td>
</tr>
<tr>
<td>6 Deletion of ASU observations which start after 2004 and end before 2007</td>
<td>1.707.228</td>
<td>97.1%</td>
</tr>
<tr>
<td>Number of individuals SIAB-Regional File 7514</td>
<td>1.707.228</td>
<td>97.1%</td>
</tr>
</tbody>
</table>

7.3 Recoding tables of aggregated variables in comparison with the weakly anonymous version of the SIAB 7510

Table A 3: Recoding of variable “Source of the observation, grouped“ (quelle_gr)

<table>
<thead>
<tr>
<th>Data sources, grouped (quelle_gr)</th>
<th>Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIAB 7508</td>
<td>SIAB-R 7508 (SUF)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>7, 18</td>
<td>3</td>
</tr>
<tr>
<td>16, 19</td>
<td>4</td>
</tr>
</tbody>
</table>

Table A 4: Recoding of variable “Source of the observation, grouped“ (erwstat_gr)

<table>
<thead>
<tr>
<th>Employment status, grouped (erwstat_gr)</th>
<th>Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIAB 7514</td>
<td>SIAB-R 7514 (SUF)</td>
</tr>
<tr>
<td>101, 140, 143</td>
<td>1</td>
</tr>
<tr>
<td>102, 141, 121, 122</td>
<td>2</td>
</tr>
<tr>
<td>109, 209</td>
<td>3</td>
</tr>
<tr>
<td>103, 142</td>
<td>4</td>
</tr>
<tr>
<td>105, 106</td>
<td>5</td>
</tr>
</tbody>
</table>
### Employment status, grouped (erwstat_gr)

<table>
<thead>
<tr>
<th>SIAB 7514</th>
<th>SIAB-R 7514 (SUF)</th>
<th>Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>118, 205</td>
<td>6</td>
<td>Other employment status</td>
</tr>
<tr>
<td>1</td>
<td>11</td>
<td>Unemployment benefit (ALG)</td>
</tr>
<tr>
<td>2</td>
<td>12</td>
<td>Unemployment assistance (ALHI)</td>
</tr>
<tr>
<td>3</td>
<td>13</td>
<td>Maintenance benefit (UHG)</td>
</tr>
<tr>
<td>5</td>
<td>14</td>
<td>Contribution §166b AFG/§207a SGB III</td>
</tr>
<tr>
<td>31, 41, 51</td>
<td>21</td>
<td>Unemployed (implying: registered as a job seeker with the BA)</td>
</tr>
<tr>
<td>33, 43, 53,32</td>
<td>22</td>
<td>Not unemployed, but registered as a job seeker with the BA</td>
</tr>
<tr>
<td>10, 11</td>
<td>31</td>
<td>Minor and able to work</td>
</tr>
<tr>
<td>13, 14, 15</td>
<td>32</td>
<td>Adult and able to work</td>
</tr>
</tbody>
</table>

### Table A 5: Recoding of variable “Reason for notification/ reason for end of benefit receipt/ reason for discontinuation of unemployment benefit II/ reason for deregistration, grouped” (grund_gr)

<table>
<thead>
<tr>
<th>Reason for notification/ reason for end of benefit receipt/ reason for discontinuation of unemployment benefit II/ reason for deregistration, grouped (grund_gr)</th>
<th>SIAB 7514</th>
<th>SIAB-R 7514 (SUF)</th>
<th>Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>before 1999: 31, 32, 34, 35, 36, 37, 38, 39, 40</td>
<td>0</td>
<td>Deregistration due to end of employment</td>
<td></td>
</tr>
<tr>
<td>since 1999: 31</td>
<td>1</td>
<td>Deregistration due to change of health insurance company (since '99)</td>
<td></td>
</tr>
<tr>
<td>since 1999: 32</td>
<td>2</td>
<td>Deregistration due to change of contribution group (since '99)</td>
<td></td>
</tr>
<tr>
<td>since 1999: 34, 35</td>
<td>3</td>
<td>Deregistration due to interruption of employment for more than one month (also industrial conflict/dispute) (since '99)</td>
<td></td>
</tr>
<tr>
<td>since 1999: 36</td>
<td>4</td>
<td>Deregistration due to change of payroll accounting system (since '99)</td>
<td></td>
</tr>
<tr>
<td>since 1999: 40</td>
<td>5</td>
<td>Simultaneous registration and deregistration due to end of employment (since '99)</td>
<td></td>
</tr>
<tr>
<td>since 1999: 50, 70</td>
<td>6</td>
<td>Annual notification (all employment relationships that exist as of 31 December of the notification year must be declared)</td>
<td></td>
</tr>
<tr>
<td>51, 52, 53</td>
<td>7</td>
<td>Employment interruption notification</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>8</td>
<td>Notification of a lump sum payment</td>
<td></td>
</tr>
<tr>
<td>33, 55, 56, 57, 59, 71, 72</td>
<td>9</td>
<td>Deregistration for other reasons</td>
<td></td>
</tr>
<tr>
<td>2002, 2064</td>
<td>10</td>
<td>Begin of employment</td>
<td></td>
</tr>
<tr>
<td>2007, 2008, 2011, 2015, 2036, 2037, 2038, 2040, 2047, 2050, 2051, 2055, 2057, 2058, 2062</td>
<td>12</td>
<td>No availability for the labour market</td>
<td></td>
</tr>
<tr>
<td>SIAB 7514</td>
<td>SIAB-R 7514 (SUF)</td>
<td>Categories</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-------------------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>2026, 2060</td>
<td>13</td>
<td>End/Drop out of measure</td>
<td></td>
</tr>
<tr>
<td>2003, 2009, 2017, 2020, 2024, 2028, 2031, 2042, 2049</td>
<td>15</td>
<td>Entitlement exhausted/Termination of period for which benefit is allowed</td>
<td></td>
</tr>
<tr>
<td>2004, 2012, 2016, 2019, 2027, 2029, 2032, 2033, 2035, 2044, 2054, 2061, 2066, 2067, 2069</td>
<td>16</td>
<td>Other reasons</td>
<td></td>
</tr>
<tr>
<td>5031, 5036, 5061, 5079, 5088, 5089, 6012</td>
<td>20</td>
<td>Measures of active labour market policy</td>
<td></td>
</tr>
<tr>
<td>5037, 5038, 5066, 6001</td>
<td>21</td>
<td>Employment - self-sought</td>
<td></td>
</tr>
<tr>
<td>5029, 5030, 5032, 5033, 5034, 5035, 5060, 5062, 5063, 5064, 5080, 5085, 5086, 5098, 6002, 6003</td>
<td>22</td>
<td>Employment - placement by third party</td>
<td></td>
</tr>
<tr>
<td>5082, 6005</td>
<td>23</td>
<td>Employment - no further details</td>
<td></td>
</tr>
<tr>
<td>5047, 5046, 5067, 6006</td>
<td>24</td>
<td>Self-employed</td>
<td></td>
</tr>
<tr>
<td>5053, 5068, 6007, 6015, 6025</td>
<td>25</td>
<td>Military/civilian service, military exercise, soldier, official</td>
<td></td>
</tr>
<tr>
<td>5041, 5052, 5076, 5084, 6008, 6009, 6010</td>
<td>26</td>
<td>Incapacity for work (illness, maternity protection), non-employment, retirement from working life</td>
<td></td>
</tr>
<tr>
<td>5042, 5056, 5065, 6004</td>
<td>27</td>
<td>Recall/re-employment at the same employer</td>
<td></td>
</tr>
<tr>
<td>5039, 5043, 5070, 5071, 5083, 6021, 6022, 6023, 6024, 6027</td>
<td>28</td>
<td>Vocational training, further training, other training</td>
<td></td>
</tr>
<tr>
<td>5040, 5049, 5069, 6016</td>
<td>29</td>
<td>School education, studies</td>
<td></td>
</tr>
<tr>
<td>5045, 5077, 5081, 6029</td>
<td>30</td>
<td>Change of provider</td>
<td></td>
</tr>
<tr>
<td>5044, 5051, 5074, 6018, 6026</td>
<td>31</td>
<td>Lack of co-operation or availability</td>
<td></td>
</tr>
<tr>
<td>5055, 6028</td>
<td>32</td>
<td>Discontinuation of fulfillsments</td>
<td></td>
</tr>
<tr>
<td>5050, 5075, 6017, 6030, 6031</td>
<td>33</td>
<td>Special regulations</td>
<td></td>
</tr>
<tr>
<td>5027, 5048, 5054, 5073, 5078, 5087, 5090, 5091, 6011, 6013, 6014, 6019, 6020</td>
<td>34</td>
<td>Other reasons</td>
<td></td>
</tr>
<tr>
<td>5100, 6100</td>
<td>35</td>
<td>Technical split of the spell</td>
<td></td>
</tr>
<tr>
<td>3001</td>
<td>50</td>
<td>Begin of employment</td>
<td></td>
</tr>
<tr>
<td>3005</td>
<td>51</td>
<td>School education/studies</td>
<td></td>
</tr>
<tr>
<td>3006</td>
<td>52</td>
<td>Relocation</td>
<td></td>
</tr>
<tr>
<td>3007</td>
<td>53</td>
<td>Self-denotification</td>
<td></td>
</tr>
<tr>
<td>3008</td>
<td>54</td>
<td>End of benefit receipt/benefit continuance</td>
<td></td>
</tr>
<tr>
<td>3009, 3013</td>
<td>55</td>
<td>Retirement pension, basic financial security in old age</td>
<td></td>
</tr>
<tr>
<td>3015</td>
<td>57</td>
<td>Loss of ability to work</td>
<td></td>
</tr>
<tr>
<td>3016</td>
<td>58</td>
<td>End of need for financial support</td>
<td></td>
</tr>
<tr>
<td>3002, 3003, 3004, 3010, 3011, 3012</td>
<td>59</td>
<td>Other reasons</td>
<td></td>
</tr>
</tbody>
</table>
Table A 6: Recoding of variable “Occupation – current/most recent (KldB 1988), grouped” (beruf_gr)

<table>
<thead>
<tr>
<th>SIAB 7514</th>
<th>SIAB-R 7514 (SUF)</th>
<th>Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 041, 042, 043, 044</td>
<td>1</td>
<td>Farmers until animal keepers and related occupations</td>
</tr>
<tr>
<td>051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062</td>
<td>2</td>
<td>Gardeners, garden workers until forest workers, forest cultivators</td>
</tr>
<tr>
<td>121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135</td>
<td>4</td>
<td>Ceramics workers until glass processors, glass finishers</td>
</tr>
<tr>
<td>141</td>
<td>5</td>
<td>Chemical plant operatives</td>
</tr>
<tr>
<td>142, 143, 144</td>
<td>6</td>
<td>Chemical laboratory workers until vulcanisers</td>
</tr>
<tr>
<td>151</td>
<td>7</td>
<td>Chemical laboratory workers until vulcanisers</td>
</tr>
<tr>
<td>161, 162, 163, 164</td>
<td>8</td>
<td>Paper, cellulose makers until other paper products makers</td>
</tr>
<tr>
<td>171, 172, 173, 174</td>
<td>9</td>
<td>Type setters, compositors until printers (flat, gravure)</td>
</tr>
<tr>
<td>175, 176, 177</td>
<td>10</td>
<td>Special printers, screeners until printer’s assistants</td>
</tr>
<tr>
<td>181, 182, 183, 184</td>
<td>11</td>
<td>Wood preparers until basket and wicker products makers</td>
</tr>
<tr>
<td>191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203</td>
<td>12</td>
<td>Iron, metal producers, melters until semi-finished product fettlers and other mould casting occupations</td>
</tr>
<tr>
<td>211, 212, 213</td>
<td>13</td>
<td>Sheet metal pressers, drawers, stampers until other metal moulders (non-cutting deformation)</td>
</tr>
<tr>
<td>221</td>
<td>14</td>
<td>Turners</td>
</tr>
<tr>
<td>222, 223, 224</td>
<td>15</td>
<td>Drillers until borers</td>
</tr>
<tr>
<td>225, 226</td>
<td>16</td>
<td>Metal grinders until other metal-cutting occupations</td>
</tr>
<tr>
<td>231, 232, 233, 234, 235, 242, 243, 244</td>
<td>17</td>
<td>Metal polishers until metal bonders and other metal connectors</td>
</tr>
<tr>
<td>241</td>
<td>18</td>
<td>Welders, oxy-acetylene cutters</td>
</tr>
<tr>
<td>251, 252, 263</td>
<td>19</td>
<td>Steel smiths until pipe, tubing fitters</td>
</tr>
<tr>
<td>261</td>
<td>20</td>
<td>Sheet metal workers</td>
</tr>
<tr>
<td>262</td>
<td>21</td>
<td>Plumbers</td>
</tr>
<tr>
<td>270, 271, 272</td>
<td>22</td>
<td>Locksmiths, not specified until sheet metal, plastics fitters</td>
</tr>
<tr>
<td>SIAB 7514</td>
<td>SIAB-R 7514 (SUF)</td>
<td>Categories</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------</td>
<td>------------</td>
</tr>
<tr>
<td>273</td>
<td>23</td>
<td>Engine fitters</td>
</tr>
<tr>
<td>274, 275</td>
<td>24</td>
<td>Plant fitters, maintenance fitters until steel structure fitters, metal shipbuilders</td>
</tr>
<tr>
<td>281</td>
<td>25</td>
<td>Motor vehicle repairers</td>
</tr>
<tr>
<td>282, 283, 284</td>
<td>26</td>
<td>Agricultural machinery repairers until precision mechanics</td>
</tr>
<tr>
<td>285, 286</td>
<td>27</td>
<td>Other mechanics until watch-, clockmakers</td>
</tr>
<tr>
<td>291, 301, 302</td>
<td>28</td>
<td>Toolmakers until precious metal smiths</td>
</tr>
<tr>
<td>303, 304, 305, 306</td>
<td>29</td>
<td>Dental technicians until doll makers, model makers, taxidermists</td>
</tr>
<tr>
<td>311</td>
<td>30</td>
<td>Electrical fitters, mechanics</td>
</tr>
<tr>
<td>312, 313, 315</td>
<td>31</td>
<td>Telecommunications mechanics, craftsmen until radio, sound equipment mechanics</td>
</tr>
<tr>
<td>314</td>
<td>32</td>
<td>Electrical appliance fitters</td>
</tr>
<tr>
<td>321</td>
<td>33</td>
<td>Electrical appliance, electrical parts assemblers</td>
</tr>
<tr>
<td>322</td>
<td>34</td>
<td>Other assemblers</td>
</tr>
<tr>
<td>323</td>
<td>35</td>
<td>Metal workers (no further specification)</td>
</tr>
<tr>
<td>351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362</td>
<td>37</td>
<td>Cutters until textile finishers</td>
</tr>
<tr>
<td>391, 392</td>
<td>38</td>
<td>Bakery goods makers until confectioners (pastry)</td>
</tr>
<tr>
<td>401, 402, 403</td>
<td>39</td>
<td>Butchers until fish processing operatives</td>
</tr>
<tr>
<td>411, 412</td>
<td>40</td>
<td>Cooks until ready-to-serve meals, fruit, vegetable preservers, preparers</td>
</tr>
<tr>
<td>421, 422, 423, 424, , 425, 426, 427, 428, 429, 430, 431, 432, 433</td>
<td>41</td>
<td>Wine coopers until sugar, sweets, ice-cream makers</td>
</tr>
<tr>
<td>441, 442</td>
<td>42</td>
<td>Bricklayers until concrete workers</td>
</tr>
<tr>
<td>451, 453</td>
<td>43</td>
<td>Carpenters until scaffolders</td>
</tr>
<tr>
<td>452</td>
<td>44</td>
<td>Roofers</td>
</tr>
<tr>
<td>461, 462</td>
<td>45</td>
<td>Paviors until road makers</td>
</tr>
<tr>
<td>463, 464, 465, 466</td>
<td>46</td>
<td>Tracklayers until other civil engineering workers</td>
</tr>
<tr>
<td>470, 471, 472</td>
<td>47</td>
<td>Building labourer, general until other building labourers, building assistants, n.e.c.</td>
</tr>
<tr>
<td>481, 482</td>
<td>48</td>
<td>Stucco workers, plasterers, rough casters until insulators, proofers</td>
</tr>
<tr>
<td>483, 484, 485, 486</td>
<td>49</td>
<td>Tile setters until screed, terrazzo layers</td>
</tr>
<tr>
<td>491, 492, 502, 503, 504</td>
<td>50</td>
<td>Room equippers until other wood and sports equipment makers</td>
</tr>
<tr>
<td>501</td>
<td>51</td>
<td>Carpenters</td>
</tr>
<tr>
<td>511</td>
<td>52</td>
<td>Painters, lacquerers (construction)</td>
</tr>
<tr>
<td>512, 513, 514</td>
<td>53</td>
<td>Goods painters, lacquerers until ceramics/glass painters</td>
</tr>
</tbody>
</table>
### Occupation – current/most recent (KldB 1988), grouped (beruf_gr)

<table>
<thead>
<tr>
<th>SIAB 7514</th>
<th>SIAB-R 7514 (SUF)</th>
<th>Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>521</td>
<td>54</td>
<td>Goods examiners, sorters, n.e.c.</td>
</tr>
<tr>
<td>522</td>
<td>55</td>
<td>Packagers, goods receivers, despatchers</td>
</tr>
<tr>
<td>531</td>
<td>56</td>
<td>Assistants (no further specification)</td>
</tr>
<tr>
<td>541, 542, 543, 544, 545, 546</td>
<td>57</td>
<td>Generator machinists until construction machine attendants</td>
</tr>
<tr>
<td>547, 548, 549</td>
<td>58</td>
<td>Machine attendants, machinists helpers until machine setters (no further specification)</td>
</tr>
<tr>
<td>601</td>
<td>59</td>
<td>Mechanical, motor engineers</td>
</tr>
<tr>
<td>602</td>
<td>60</td>
<td>Electrical engineers</td>
</tr>
<tr>
<td>603</td>
<td>61</td>
<td>Architects, civil engineers</td>
</tr>
<tr>
<td>604, 605, 606, 607</td>
<td>62</td>
<td>Survey engineers until other engineers</td>
</tr>
<tr>
<td>611, 612</td>
<td>63</td>
<td>Chemists, chemical engineers until physicists, physics engineers, mathematicians</td>
</tr>
<tr>
<td>621</td>
<td>64</td>
<td>Mechanical engineering technicians</td>
</tr>
<tr>
<td>622, 623</td>
<td>65</td>
<td>Electrical engineering technicians until building technicians</td>
</tr>
<tr>
<td>624, 625, 626, 627</td>
<td>66</td>
<td>Measurement technicians until remaining manufacturing technicians</td>
</tr>
<tr>
<td>628</td>
<td>67</td>
<td>Other technicians</td>
</tr>
<tr>
<td>629</td>
<td>68</td>
<td>Foremen, master mechanics</td>
</tr>
<tr>
<td>631, 632</td>
<td>69</td>
<td>Biological specialists until physical and mathematical specialists</td>
</tr>
<tr>
<td>633, 634</td>
<td>70</td>
<td>Chemical laboratory assistants until photo laboratory assistants</td>
</tr>
<tr>
<td>635</td>
<td>71</td>
<td>Technical draughtspersons</td>
</tr>
<tr>
<td>681</td>
<td>72</td>
<td>Wholesale and retail trade buyers, buyers</td>
</tr>
<tr>
<td>682</td>
<td>73</td>
<td>Salespersons</td>
</tr>
<tr>
<td>683, 684, 685, 686</td>
<td>74</td>
<td>Publishing house dealers, booksellers until service-station attendants</td>
</tr>
<tr>
<td>687, 688</td>
<td>75</td>
<td>Commercial agents, travellers until mobile traders</td>
</tr>
<tr>
<td>691, 692</td>
<td>76</td>
<td>Bank specialists until building society specialists</td>
</tr>
<tr>
<td>693, 694</td>
<td>77</td>
<td>Health insurance specialists (not social security) until life, property insurance specialists</td>
</tr>
<tr>
<td>701</td>
<td>78</td>
<td>Forwarding business dealers</td>
</tr>
<tr>
<td>702, 703, 704, 705, 706</td>
<td>79</td>
<td>Tourism specialists until cash collectors, cashiers, ticket sellers, inspectors</td>
</tr>
<tr>
<td>711, 712, 713, 715, 716</td>
<td>80</td>
<td>Railway engine drivers until street attendants</td>
</tr>
<tr>
<td>714</td>
<td>81</td>
<td>Motor vehicle drivers</td>
</tr>
<tr>
<td>721, 722, 723, 724, 725, 726</td>
<td>82</td>
<td>Navigating ships officers until air transport occupations</td>
</tr>
<tr>
<td>731, 732, 733, 734</td>
<td>83</td>
<td>Post masters until telephonists</td>
</tr>
<tr>
<td>741</td>
<td>84</td>
<td>Warehouse managers, warehousemen</td>
</tr>
<tr>
<td>742</td>
<td>85</td>
<td>Transportation equipment drivers</td>
</tr>
<tr>
<td>SIAB 7514</td>
<td>SIAB-R 7514 (SUF)</td>
<td>Categories</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------</td>
<td>------------</td>
</tr>
<tr>
<td>743, 744</td>
<td>86</td>
<td>Stowers, furniture packers until stores/transport workers</td>
</tr>
<tr>
<td>751</td>
<td>87</td>
<td>Entrepreneurs, managing directors, divisional managers</td>
</tr>
<tr>
<td>752, 753</td>
<td>88</td>
<td>Management consultants, organisors until chartered accountants, tax advisers</td>
</tr>
<tr>
<td>761, 762, 763</td>
<td>89</td>
<td>Members of Parliament, Ministers, elected officials until association leaders, officials</td>
</tr>
<tr>
<td>771, 772</td>
<td>90</td>
<td>Cost accountants, valuers until accountants</td>
</tr>
<tr>
<td>773</td>
<td>91</td>
<td>Cashiers</td>
</tr>
<tr>
<td>774</td>
<td>92</td>
<td>Data processing specialists</td>
</tr>
<tr>
<td>781</td>
<td>93</td>
<td>Office specialists</td>
</tr>
<tr>
<td>782, 783</td>
<td>94</td>
<td>Stenographers, shorthand-typists, typists until data typists</td>
</tr>
<tr>
<td>784</td>
<td>95</td>
<td>Office auxiliary workers</td>
</tr>
<tr>
<td>791, 792</td>
<td>96</td>
<td>Factory guards, detectives until watchmen, custodians</td>
</tr>
<tr>
<td>793, 794</td>
<td>97</td>
<td>Doormen, caretakers until domestic and non-domestic servants</td>
</tr>
<tr>
<td>801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814</td>
<td>98</td>
<td>Soldiers, border guards, police officers until judicial enforcers</td>
</tr>
<tr>
<td>821, 822, 823</td>
<td>99</td>
<td>Journalists until librarians, archivists, museum specialists</td>
</tr>
<tr>
<td>831, 832, 833, 834</td>
<td>100</td>
<td>Musicians until scenery/sign painters</td>
</tr>
<tr>
<td>835, 836, 837, 838</td>
<td>101</td>
<td>Artistic and assisting occupations (stage, video and audio) until performers, professional sportsmen, auxiliary artistic occupations</td>
</tr>
<tr>
<td>841, 842, 843, 844</td>
<td>102</td>
<td>Physicians until Pharmacists</td>
</tr>
<tr>
<td>851, 852</td>
<td>103</td>
<td>Non-medical practitioners until masseurs, physiotherapists and related occupations</td>
</tr>
<tr>
<td>853</td>
<td>104</td>
<td>Nurses, midwives</td>
</tr>
<tr>
<td>854</td>
<td>105</td>
<td>Nursing assistants</td>
</tr>
<tr>
<td>855, 857</td>
<td>106</td>
<td>Dietary assistants, pharmaceutical assistants until medical laboratory assistants</td>
</tr>
<tr>
<td>856</td>
<td>107</td>
<td>Medical receptionists</td>
</tr>
<tr>
<td>861, 863, 891, 892, 893</td>
<td>108</td>
<td>Social workers, care workers until religious care helpers</td>
</tr>
<tr>
<td>862</td>
<td>109</td>
<td>Home wardens, social work teachers</td>
</tr>
<tr>
<td>864</td>
<td>110</td>
<td>Nursery teachers, child nurses</td>
</tr>
<tr>
<td>871, 872, 873, 874</td>
<td>111</td>
<td>University teachers, lecturers at higher technical schools and academies until technical, vocational, factory instructors</td>
</tr>
<tr>
<td>875, 876, 877</td>
<td>112</td>
<td>Music teachers, n.e.c. until other teachers</td>
</tr>
<tr>
<td>881, 882, 883</td>
<td>113</td>
<td>Economic and social scientists, statisticians until scientists n.e.c.</td>
</tr>
</tbody>
</table>
### Table A 7: Recoding of variable “Occupational group - current/most recent (KldB 1988), grouped (beruf_gr)

<table>
<thead>
<tr>
<th>SIAB 7514</th>
<th>SIAB-R 7514 (SUF)</th>
<th>Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>901, 902</td>
<td>114</td>
<td>Hairdressers until other body care occupations</td>
</tr>
<tr>
<td>911, 912</td>
<td>115</td>
<td>Restaurant, inn, bar keepers, hotel proprietors, catering trade dealers until waiters, stewards</td>
</tr>
<tr>
<td>913</td>
<td>116</td>
<td>Others attending on guests</td>
</tr>
<tr>
<td>921, 922, 923, 924</td>
<td>117</td>
<td>Housekeeping managers until employees by household cheque procedure</td>
</tr>
<tr>
<td>931, 932</td>
<td>118</td>
<td>Laundry workers, pressers until textile cleaners, dyers and dry cleaners</td>
</tr>
<tr>
<td>933, 934</td>
<td>119</td>
<td>Household cleaners until glass, buildings cleaners</td>
</tr>
<tr>
<td>935, 936, 937</td>
<td>120</td>
<td>Street cleaners, refuse disposers until machinery, container cleaners and related occupations</td>
</tr>
</tbody>
</table>

### Table A 8: Recoding of variable “Occupational group - current/most recent (KldB 2010), grouped” (beruf10_gr)

<table>
<thead>
<tr>
<th>SIAB 7514</th>
<th>SIAB-R 7514 (SUF)</th>
<th>Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>111, 112, 113, 114, 115, 116, 117</td>
<td>1</td>
<td>Occupations in agriculture, forestry, and farming</td>
</tr>
<tr>
<td>121</td>
<td>2</td>
<td>Occupations in gardening</td>
</tr>
<tr>
<td>122</td>
<td>3</td>
<td>Occupations in floristry</td>
</tr>
<tr>
<td>211</td>
<td>4</td>
<td>Occupations in underground and surface mining and blasting engineering</td>
</tr>
<tr>
<td>212</td>
<td>5</td>
<td>Conditioning and processing of natural stone and minerals, production of building materials</td>
</tr>
<tr>
<td>213</td>
<td>6</td>
<td>Occupations in industrial glass-making and -processing</td>
</tr>
<tr>
<td>214</td>
<td>7</td>
<td>Occupations in industrial ceramic-making and -processing</td>
</tr>
<tr>
<td>221</td>
<td>8</td>
<td>Occupations in plastic- and rubber-making and -processing</td>
</tr>
<tr>
<td>222</td>
<td>9</td>
<td>Occupations in colour coating and varnishing</td>
</tr>
<tr>
<td>223</td>
<td>10</td>
<td>Occupations in wood-working and -processing</td>
</tr>
<tr>
<td>231</td>
<td>11</td>
<td>Technical occupations in paper-making and -processing and packaging</td>
</tr>
<tr>
<td>232</td>
<td>12</td>
<td>Occupations in technical media design</td>
</tr>
<tr>
<td>233</td>
<td>13</td>
<td>Occupations in photography and photographic technology</td>
</tr>
<tr>
<td>234</td>
<td>14</td>
<td>Occupations in printing technology, print finishing, and book binding</td>
</tr>
<tr>
<td>241</td>
<td>15</td>
<td>Occupations in metal-making</td>
</tr>
<tr>
<td>242</td>
<td>16</td>
<td>Occupations in metalworking</td>
</tr>
<tr>
<td>SIAB 7514</td>
<td>SIAB-R 7514 (SUF)</td>
<td>Categories</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------------</td>
<td>------------</td>
</tr>
<tr>
<td>243</td>
<td>17</td>
<td>Occupations in treatment of metal surfaces</td>
</tr>
<tr>
<td>244</td>
<td>18</td>
<td>Occupations in metal constructing and welding</td>
</tr>
<tr>
<td>245</td>
<td>19</td>
<td>Occupations in precision mechanics and tool making</td>
</tr>
<tr>
<td>251</td>
<td>20</td>
<td>Occupations in machine-building and -operating</td>
</tr>
<tr>
<td>252</td>
<td>21</td>
<td>Technical occupations in the automotive, aeronautic, aerospace and ship building industries</td>
</tr>
<tr>
<td>261</td>
<td>22</td>
<td>Occupations in mechatronics, automation and control technology</td>
</tr>
<tr>
<td>261</td>
<td>23</td>
<td>Technical occupations in energy technologies</td>
</tr>
<tr>
<td>263</td>
<td>24</td>
<td>Occupations in electrical engineering</td>
</tr>
<tr>
<td>271</td>
<td>25</td>
<td>Occupations in technical research and development</td>
</tr>
<tr>
<td>272</td>
<td>26</td>
<td>Draftspersons, technical designers, and model makers</td>
</tr>
<tr>
<td>273</td>
<td>27</td>
<td>Technical occupations in production planning and scheduling</td>
</tr>
<tr>
<td>281</td>
<td>28</td>
<td>Occupations in textile making</td>
</tr>
<tr>
<td>282</td>
<td>29</td>
<td>Occupations in the production of clothing and other textile products</td>
</tr>
<tr>
<td>283</td>
<td>30</td>
<td>Occupations in leather- and fur-making and -processing</td>
</tr>
<tr>
<td>291</td>
<td>31</td>
<td>Occupations in beverage production</td>
</tr>
<tr>
<td>292</td>
<td>32</td>
<td>Occupations in the production of foodstuffs, confectionery and tobacco products</td>
</tr>
<tr>
<td>293</td>
<td>33</td>
<td>Cooking occupations</td>
</tr>
<tr>
<td>311</td>
<td>34</td>
<td>Occupations in construction scheduling and supervision, and architecture</td>
</tr>
<tr>
<td>312</td>
<td>35</td>
<td>Occupations in surveying and cartography</td>
</tr>
<tr>
<td>321</td>
<td>36</td>
<td>Occupations in building construction</td>
</tr>
<tr>
<td>322</td>
<td>37</td>
<td>Occupations in civil engineering</td>
</tr>
<tr>
<td>331</td>
<td>38</td>
<td>Floor layers</td>
</tr>
<tr>
<td>332</td>
<td>39</td>
<td>Painters and varnishers, plasterers, occupations in the waterproofing of buildings, preservation of structures and wooden building components</td>
</tr>
<tr>
<td>333</td>
<td>40</td>
<td>Occupations in the interior construction and dry walling, insulation, carpentry, glazing, roller shutter and jalousie installation</td>
</tr>
<tr>
<td>341</td>
<td>41</td>
<td>Occupations in building services engineering</td>
</tr>
<tr>
<td>342</td>
<td>42</td>
<td>Occupations in plumping, sanitation, heating, ventilating, and air conditioning</td>
</tr>
<tr>
<td>343</td>
<td>43</td>
<td>Occupations in building services and waste disposal</td>
</tr>
<tr>
<td>411</td>
<td>44</td>
<td>Occupations in mathematics and statistics</td>
</tr>
<tr>
<td>412</td>
<td>45</td>
<td>Occupations in biology</td>
</tr>
</tbody>
</table>
### Occupational group - current/most recent (KldB 2010), grouped

<table>
<thead>
<tr>
<th>SIAB 7514</th>
<th>SIAB-R 7514 (SUF)</th>
<th>Categories</th>
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<tbody>
<tr>
<td>413</td>
<td>46</td>
<td>Occupations in chemistry</td>
</tr>
<tr>
<td>414</td>
<td>47</td>
<td>Occupations in physics</td>
</tr>
<tr>
<td>421</td>
<td>48</td>
<td>Occupations in geology, geography and meteorology</td>
</tr>
<tr>
<td>422</td>
<td>49</td>
<td>Occupations in environmental protection engineering</td>
</tr>
<tr>
<td>423</td>
<td>50</td>
<td>Occupations in environmental protection management and environmental protection consulting</td>
</tr>
<tr>
<td>431</td>
<td>51</td>
<td>Occupations in computer science</td>
</tr>
<tr>
<td>432</td>
<td>52</td>
<td>Occupations in IT-system-analysis, IT-application-consulting and IT-sales</td>
</tr>
<tr>
<td>433</td>
<td>53</td>
<td>Occupations in IT-network engineering, IT-coordination, IT-administration and IT-organisation</td>
</tr>
<tr>
<td>434</td>
<td>54</td>
<td>Occupations in software development and programming</td>
</tr>
<tr>
<td>511</td>
<td>55</td>
<td>Technical occupations in railway, aircraft and ship operation</td>
</tr>
<tr>
<td>512</td>
<td>56</td>
<td>Occupations in the inspection and maintenance of traffic infrastructure</td>
</tr>
<tr>
<td>513</td>
<td>57</td>
<td>Occupations in warehousing and logistics, in postal and other delivery services, and in cargo handling</td>
</tr>
<tr>
<td>514</td>
<td>58</td>
<td>Service occupations in passenger traffic</td>
</tr>
<tr>
<td>515</td>
<td>59</td>
<td>Occupations in traffic surveillance and control</td>
</tr>
<tr>
<td>516</td>
<td>60</td>
<td>Management assistants in transport and logistics</td>
</tr>
<tr>
<td>521</td>
<td>61</td>
<td>Driver of vehicles in road traffic</td>
</tr>
<tr>
<td>522</td>
<td>62</td>
<td>Drivers of vehicles in railway traffic</td>
</tr>
<tr>
<td>523</td>
<td>63</td>
<td>Aircraft pilots</td>
</tr>
<tr>
<td>524</td>
<td>64</td>
<td>Ship’s officers and masters</td>
</tr>
<tr>
<td>525</td>
<td>65</td>
<td>Drivers and operators of construction and transportation vehicles and equipment</td>
</tr>
<tr>
<td>531, 532, 533</td>
<td>66</td>
<td>Occupations in physical security, personal protection, fire protection and workplace safety</td>
</tr>
<tr>
<td>541</td>
<td>67</td>
<td>Occupations in cleaning services</td>
</tr>
<tr>
<td>611</td>
<td>68</td>
<td>Occupations in purchasing and sales</td>
</tr>
<tr>
<td>612</td>
<td>69</td>
<td>Trading occupations</td>
</tr>
<tr>
<td>613</td>
<td>70</td>
<td>Occupations in real estate and facility management</td>
</tr>
<tr>
<td>621</td>
<td>71</td>
<td>Sales occupations in retail trade (without product specialisation)</td>
</tr>
<tr>
<td>622</td>
<td>72</td>
<td>Sales occupations (retail trade) selling clothing, electronic devices, furniture, motor vehicles and other durables</td>
</tr>
<tr>
<td>623</td>
<td>73</td>
<td>Sales occupations (retail) selling foodstuffs</td>
</tr>
<tr>
<td>SIAB 7514</td>
<td>SIAB-R 7514 (SUF)</td>
<td>Categories</td>
</tr>
<tr>
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<td>------------</td>
</tr>
<tr>
<td>624</td>
<td>74</td>
<td>Sales occupations (retail) selling drugstore products, pharmaceuticals, medical supplies and healthcare goods</td>
</tr>
<tr>
<td>625</td>
<td>75</td>
<td>Sales occupations (retail) selling books, art, antiques, musical instruments, recordings or sheet music</td>
</tr>
<tr>
<td>631</td>
<td>76</td>
<td>Occupations in tourism and the sports (and fitness) industry</td>
</tr>
<tr>
<td>632</td>
<td>77</td>
<td>Occupations in hotels</td>
</tr>
<tr>
<td>633</td>
<td>78</td>
<td>Gastronomy occupations</td>
</tr>
<tr>
<td>634</td>
<td>79</td>
<td>Occupations in event organisation and management</td>
</tr>
<tr>
<td>711</td>
<td>80</td>
<td>Managing directors and executive board members</td>
</tr>
<tr>
<td>712</td>
<td>81</td>
<td>Legislators and senior officials of special interest organisations</td>
</tr>
<tr>
<td>713</td>
<td>82</td>
<td>Occupations in business organisation and strategy</td>
</tr>
<tr>
<td>714</td>
<td>83</td>
<td>Office clerks and secretaries</td>
</tr>
<tr>
<td>715</td>
<td>84</td>
<td>Occupations in human resources management and personnel service</td>
</tr>
<tr>
<td>721</td>
<td>85</td>
<td>Occupations in insurance and financial services</td>
</tr>
<tr>
<td>722</td>
<td>86</td>
<td>Occupations in accounting, controlling and auditing</td>
</tr>
<tr>
<td>723</td>
<td>87</td>
<td>Occupations in tax consultancy</td>
</tr>
<tr>
<td>731</td>
<td>88</td>
<td>Occupations in legal services, jurisdiction, and other officers of the court</td>
</tr>
<tr>
<td>732</td>
<td>89</td>
<td>Occupations in public administration</td>
</tr>
<tr>
<td>733</td>
<td>90</td>
<td>Occupations in media, documentation and information services</td>
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<tr>
<td>811</td>
<td>91</td>
<td>Doctors' receptionists and assistants</td>
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<td>812</td>
<td>92</td>
<td>Laboratory occupations in medicine</td>
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<td>813</td>
<td>93</td>
<td>Occupations in nursing, emergency medical services and obstetrics</td>
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<tr>
<td>814</td>
<td>94</td>
<td>Occupations in human medicine and dentistry</td>
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<td>Occupations in psychology and non-medical psychotherapy</td>
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<td>96</td>
<td>Occupations in non-medical therapy and alternative medicine</td>
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<td>Occupations in pharmacy</td>
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<tr>
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<td>Occupations in geriatric care</td>
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<td>822</td>
<td>99</td>
<td>Occupations providing nutritional advice or health counselling, and occupations in wellness</td>
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<td>823</td>
<td>100</td>
<td>Occupations in body care</td>
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<td>824</td>
<td>101</td>
<td>Occupations in funeral services</td>
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### Occupational Group - Current/Most Recent (KIdB 2010), Grouped

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<td>Technical occupations in medicine, orthopaedic and rehabilitation</td>
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<td>831</td>
<td>103</td>
<td>Occupations in education and social work, and pedagogic specialists in social care work</td>
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<tr>
<td>832</td>
<td>104</td>
<td>Occupations in housekeeping and consumer counselling</td>
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<td>105</td>
<td>Occupations in theology and church community work</td>
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<td>841</td>
<td>106</td>
<td>Teachers in schools of general education</td>
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<tr>
<td>842</td>
<td>107</td>
<td>Teachers for occupation-specific subjects at vocational schools and in-company instructors in vocational training</td>
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<td>843</td>
<td>108</td>
<td>Teachers and researcher at universities and colleges</td>
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<tr>
<td>844</td>
<td>109</td>
<td>Teachers at educational institutions other than schools (except driving, flying and sports instructors)</td>
</tr>
<tr>
<td>845</td>
<td>110</td>
<td>Driving, flying and sports instructors at educational institutions other than schools</td>
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<td>912</td>
<td>111</td>
<td>Occupations in the humanities</td>
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<td>112</td>
<td>Occupations in the social sciences</td>
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<td>914</td>
<td>113</td>
<td>Occupations in economics</td>
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<td>114</td>
<td>Occupations in advertising and marketing</td>
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<td>115</td>
<td>Occupations in public relations</td>
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<td>Occupations in publishing and media management</td>
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<td>Occupations in editorial work and journalism</td>
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<tr>
<td>931, 932, 933, 934, 935, 936</td>
<td>118</td>
<td>Occupations in product design, artisan craftwork, fine arts and the making of musical instruments</td>
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<tr>
<td>941</td>
<td>119</td>
<td>Musicians, singers and conductors</td>
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<tr>
<td>942</td>
<td>120</td>
<td>Actors, dancers, athletes and related occupations</td>
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<tr>
<td>943</td>
<td>121</td>
<td>Presenters and entertainers</td>
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<td>944</td>
<td>122</td>
<td>Occupations in theatre, film and television productions</td>
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<td>123</td>
<td>Occupations in event technology, cinematography, and sound engineering</td>
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<td>946</td>
<td>124</td>
<td>Occupations in stage, costume and prop design,</td>
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<td>947</td>
<td>125</td>
<td>Technical and management occupations in museums and exhibitions</td>
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<td>11, 12, 14, 815, 911</td>
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<td>Other occupations</td>
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Table A 8: Recoding of variable “Economic activity 93 generated – completed by extrapolation / imputation, grouped” (w93_gen_gr)

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<th>Anonymisation of industries in regions</th>
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<td>011-015, 020, 050, 101-103, 111-112, 120, 131-132, 141-145</td>
<td>1</td>
<td>Agriculture, mining and quarrying</td>
<td>1002, 3101, 3257, 3356, 3403, 5120, 5122, 5316, 5915, 6413, 6434, 7111, 7132, 7337, 8128, 8212, 8221, 8231, 8311, 9171, 9174, 9177, 9362, 9372, 9373, 9562, 9563, 9572, 9573, 10043, 10045, 12054, 15002, 16053</td>
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<tr>
<td>201-205, 231-233, 241-247, 251-252</td>
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<td>Production of rubber and plastic products, processing of minerals, wood industry, chemical industry</td>
<td>1054, 1057, 3103, 3403, 7111, 7211, 7337, 9161, 9174, 9177, 9179, 9474, 10043, 12054, 12061, 12064, 13003, 13073, 15008, 16053</td>
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<tr>
<td>271-275, 281-287, 291-297</td>
<td>3</td>
<td>Metal production and processing, mechanical engineering</td>
<td>3103, 12054</td>
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<tr>
<td>300-316, 321-323, 331-335, 341-343, 351-355</td>
<td>4</td>
<td>Automotive, production of data processing equipment, electrical and optical engineering</td>
<td>1051, 3157, 3256, 3356, 3451, 5366, 5512, 5558, 6634, 7140, 7235, 7340, 9171, 9172, 9176, 9771, 9774, 12062, 12066, 12073</td>
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<td>551-555</td>
<td>6</td>
<td>Hospitality industry</td>
<td>3157, 3453, 5512</td>
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<td>454-455</td>
<td>7</td>
<td>Building industry</td>
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<td>501-505, 511-517, 521-527</td>
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<td>Sale, maintenance and repair of motor vehicles and household goods</td>
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<tr>
<td>601-603, 611-612, 621-623, 631-634, 641-642</td>
<td>9</td>
<td>Transport and communication</td>
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<tr>
<td>651-652, 660, 671-672, 701-703, 711-714, 721-726, 731-732, 741-748</td>
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<td>Credit and insurance intermediation, land and housing, rentals</td>
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</table>
### Economic activity 93 generated – completed by extrapolation / imputation, grouped (w93_gen_gr)

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<th>Anonymisiation of industries in regions</th>
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<td>Public and personal services, household services</td>
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<td>Education, social and health-care facilities</td>
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<td>751-753, 990</td>
<td>13</td>
<td>Public administration, social security</td>
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### Table A 9: Regionalisation of SIAB-Regional file 7514 (ao_region)

<p>| Regionalisation of districts (NUTS 3), territorial allocation 31.12.2014 (ao_region) |
|-----------------------------------------------|-----------------------------------------------|</p>
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<td>1055</td>
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<td>Schaumburg District</td>
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## Regionalisation of districts (NUTS 3), territorial allocation 31.12.2014 (ao_region)

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<td>Harburg</td>
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Regionalisation of districts (NUTS 3), territorial allocation 31.12.2014 (ao_region)

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Regionalisation of districts (NUTS 3), territorial allocation 31.12.2014 (ao_region)

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<td>SIAB-R 7514 (SUF)</td>
<td>District region</td>
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<td>Greiz/Gera, City/Altenburger Land</td>
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Figure A 1: Regionalisation SIAB-Regional file 7514 (ao_region)
7.4 Frequency tables

Frequency tables and overviews of the individual values and labels of the variables in English and German can be found in separate files at:

http://doku.iab.de/fdz/reportes/2017/DR_01-17_frequencies_labels_de.zip
http://doku.iab.de/fdz/reportes/2017/DR_01-17_frequencies_labels_en.zip

8 List of abbreviations

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<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>English Description</th>
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<tbody>
<tr>
<td>AA</td>
<td>Agentur für Arbeit / Arbeitsamt</td>
<td>employment agency / employment office</td>
</tr>
<tr>
<td>ALG</td>
<td>Arbeitslosengeld</td>
<td>unemployment benefit</td>
</tr>
<tr>
<td>ARGE</td>
<td>Arbeitsgemeinschaft</td>
<td>cooperation of employment agencies and municipalities</td>
</tr>
<tr>
<td>ASU</td>
<td>Arbeitsuchende-Historik</td>
<td>Jobseeker History</td>
</tr>
<tr>
<td>A2LL</td>
<td>Arbeitslosengeld II – Leistungen zum Lebensunterhalt</td>
<td>unemployment benefit II - benefits to secure a livelihood</td>
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<tr>
<td>BA</td>
<td>Bundesagentur für Arbeit</td>
<td>Federal Employment Agency</td>
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<tr>
<td>BeH</td>
<td>Beschäftigten-Historik</td>
<td>Employee History</td>
</tr>
<tr>
<td>BfA</td>
<td>Bundesversicherungsanstalt für Angestellte</td>
<td>Federal Social Insurance Office for Salaried Employees</td>
</tr>
<tr>
<td>BHP</td>
<td>Betriebs-Historik-Panel</td>
<td>Establishment History Panel</td>
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<tr>
<td>BMAS</td>
<td>Bundesministerium für Arbeit und Soziales</td>
<td>Federal Ministry of Labour and Social Affairs</td>
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<tr>
<td>coArb</td>
<td>Computerunterstützte Arbeitsvermittlung</td>
<td>computer-aided job placement (procedure for the administration of job placements – old procedure)</td>
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<tr>
<td>DEÜV</td>
<td>Verordnung über die Erfassung und Übermittlung von Daten für die Träger der Sozialversicherung – Datenerfassungs- und – übermittlungsverordnung</td>
<td>Data Collection and Transmission Regulation - regulation on the collection and transmission of data for the social security agencies</td>
</tr>
<tr>
<td>DEVO</td>
<td>Zweite VO über die Erfassung von Daten für die Träger der Sozialversicherung und für die BA – Datenerfassungs-Verordnung –</td>
<td>Data Collection Regulation - second regulation on the collection of data for the social security agencies and for the Federal Employment Agency</td>
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<tr>
<td>DÜVO</td>
<td>Zweite VO über die Datenübermittlung auf maschinell verwertbaren Datenträgern im Bereich der Sozialversicherung und der BA – Datenübermittlungs-Verordnung –</td>
<td>Data Transmission Regulation - second regulation on the transfer of data on machine-readable data media in the field of social security and the BA</td>
</tr>
<tr>
<td>Acronym</td>
<td>Description</td>
<td>Translation</td>
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<td>---------</td>
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<tr>
<td>EDV</td>
<td>Elektronische Datenverarbeitung</td>
<td>Electronic data processing</td>
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<tr>
<td>FDZ</td>
<td>Forschungsdatenzentrum</td>
<td>Research Data Centre</td>
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<tr>
<td>FELEG</td>
<td>Gesetz zur Förderung der Einstellung der landwirtschaftlichen Erwerbstätigkeit</td>
<td>Act on the Support in Case of Termination of Farming Activities</td>
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<tr>
<td>gAw</td>
<td>Träger mit getrennter Aufgabenwahrnehmung</td>
<td>Municipalities exercising their duties separately</td>
</tr>
<tr>
<td>gE</td>
<td>Gemeinsame Einrichtung</td>
<td>Joint facility</td>
</tr>
<tr>
<td>gT</td>
<td>Getrennte Trägerschaft</td>
<td>Separated responsibilities</td>
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<tr>
<td>IAB</td>
<td>Institut für Arbeitsmarkt- und Berufsforschung</td>
<td>Institute for Employment Research</td>
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<td>IABS</td>
<td>IAB-Beschäftigtenstichprobe</td>
<td>IAB Employment Samples</td>
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<tr>
<td>IEB</td>
<td>Integrierte Erwerbsbiographien</td>
<td>Integrated Employment Biographies</td>
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<tr>
<td>IEBS</td>
<td>Stichprobe der Integrierten Erwerbsbiographien</td>
<td>Integrated Employment Biographies Sample</td>
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<tr>
<td>ISIC</td>
<td>International Standard Industrial Classification of All Economic Activities</td>
<td>International Standard Industrial Classification of All Economic Activities</td>
</tr>
<tr>
<td>ITM</td>
<td>IT- und Informationsmanagement des Instituts für Arbeitsmarkt- und Berufsforschung</td>
<td>IT and information management of the Institute for Employment Research</td>
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<td>LIAB</td>
<td>Linked-Employer-Employee-Daten des IAB</td>
<td>Linked employer-employee data of the IAB</td>
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<td>LeH</td>
<td>Leistungsempfänger-Historik</td>
<td>Benefit Recipient History</td>
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<tr>
<td>LHG</td>
<td>Leistungs-Historik Grundsicherung</td>
<td>Unemployment Benefit II Recipient History</td>
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<tr>
<td>LVA</td>
<td>Landesversicherungsanstalt</td>
<td>Land Social Insurance Office</td>
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<td>MTH</td>
<td>Maßnahmeteilnehmer-Historik</td>
<td>Participants-in-Measures History File</td>
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<td>NACE</td>
<td>Nomenclature générale des activités économiques dans les communautés européennes</td>
<td>Nomenclature générale des activités économiques dans les communautés européennes</td>
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<tr>
<td>SchwbG</td>
<td>Gesetz zur Sicherung der Eingliederung Schwerbehinderter in Arbeit, Beruf und Gesellschaft – Schwerbehindertengesetz</td>
<td>Law to guarantee the integration of persons with severe disabilities into employment and society – Severely Disabled Persons Act</td>
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<tr>
<td>SGB</td>
<td>Sozialgesetzbuch</td>
<td>German Social Code</td>
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<tr>
<td>SIAB</td>
<td>Stichprobe der Integrierten Arbeitsmarktbioographien</td>
<td>Sample of Integrated Labour Market Biographies</td>
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<td>SUF</td>
<td>Scientific Use File</td>
<td>Scientific Use File</td>
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<td>VerBIS</td>
<td>Vermittlungs- und Beratungsinformationssystem</td>
<td>Information System for Placement and Counselling</td>
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<td>Arbeitssuchenden-Historik aus XSozial-BA-SGB II</td>
<td>Jobseeker History from XSozial-BA-SGB II</td>
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<td>zkT</td>
<td>Zugelassener kommunaler Träger</td>
<td>Authorised municipalities</td>
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