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Anonymization Procedures

NEPS Starting Cohort 3— Grade 5
Paths Through Lower Secondary School

Scientific Use File Version 8.0.1

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1 Preamble

This documentation gives an exhaustive explanation of all disclosure risk minimization techniques applied before dissemination to the Scientific Use File (SUF) of Starting Cohort (SC) 3, version 8.0.1 (doi:10.5157/NEPS:SC3:8.0.1). For a quick reference to all variables and datafiles which are affected in detail and on which level you will find the full information, please skip forward to appendix section A.1. If you have inquiries or need further information not covered in this document please feel free to contact the research data center at fdz@lifbi.de. Please note the following general remarks:

- in all tables, the anonymization suffix (_O, _R, _D) was removed from the variable name to enhance readability and remove duplicates. To find a specific variable in the data file, add the corresponding suffix or use a wildcard.
- to ensure a data-consistent documentation, all tables in this document have been produced on basis of the SUF data. Variable labels in the data have been cut off at 80 characters, which inherits to this documentation.
- as additional documentation, a *Semantic Data Structure File* is available. This is the complete SUF where all cases have been removed. Feel free to use this as a first overview to the data in cases you do not have access to the real data (e.g. you are interested in data files which are available OnSite only). You are well advised to use this preparing your syntax *before* initiating your travel to our OnSite facility. You find it freely available on the documentation page to this SUF:

www.neps-data.de > Data Center > Data and Documentation > Starting Cohort Grade 5 > Documentation

1.1 Specifications

To ensure the best possible confidentiality protection of individuals and individual micro data, the National Educational Panel Study complies with strict international standards. To achieve this, a *portfolio approach*, based on the ideas of Lane, Heus, and Mulcahy, 2008, has been established. This approach interlocks data security mechanism on five different levels, while the actual data modification (i.e. anonymization) is one of them. For further information, see the article by Koberg, 2016. Operationalizing this modification procedure, it can be abstracted to the following two criteria:

- the disseminated data was transferred to so called *de facto anonymous data*. Identifiable information is coarsened or cut off and kept securely to minimize the risk of statistical disclosure.

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- the use of data is strictly confidential and for statistical purposes only. The closed contract only grants access to members of the scientific community. This contract has a vast amount of legal stipulations, one of them being a large fine which applies for the realization of re-identification on purpose. Therefore, the disseminated data is highly protected by law and allows a more flexible range of available data.

To pick up the latter, the NEPS has made a huge effort regarding legal regulations to offer as much analysis power of data as possible. This *paradigm of information esteem* reveals the fact that conducted measures of statistical disclosure control are few. Also, if there really was a need for modification, only non-perturbative methods were used.

1.2 Onion-shaped model

The NEPS grants the user three different modes of data access: (1) *OnSite*, which stands for the opportunity to use the secured infrastructure made available at the LfBi in Bamberg, (2) *RemoteNEPS*, which is a progressive remote access technology providing a virtual desktop, and finally (3) *Download*, indicating the possibility to fetch data via a secure web portal.

These given access modes have been originated to allow anonymization routines for a subtle differentiation of information. The three resulting levels of anonymization define as follows:

- data provided OnSite is generally not further anonymized. However, even those data was rendered *de facto anonymous*, for no disclosure risk to persist. All information contained remains completely sane. Although users have to deal with limited possibilities of data access (i.e. supervised import and export of their results), they are free to work with all data available in a secure environment.
- access via RemoteNEPS is considered equivalent to OnSite, hence most of the data stays complete.
- as Download is assumed to be the most hazardous access mode¹, some more anonymization techniques are done to the dataset.

Obviously this approach results in three different versions of all involved datasets. To enable a consistent structure, these data files always contain the entire set of variables; it is their content which differs through the three levels.

As normally there is no need to resign aggregated variables in the higher levels (i.e. OnSite or RemoteNEPS), those are already defined as a surplus to the original variable in the OnSite-version. Stepping down to RemoteNEPS, the content of related variables too sensitive for this level is overwritten with an exclusive missing code – an operation which we define as *purging*. Note that system missing values are not affected, allowing the user to differ between value existence and nonexistence. This still is a valuable additional information. The same logic applies to the transition from RemoteNEPS to Download.

¹ 'hazardous' in terms of: the downloaded content is no longer under physical control of the LfBi

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While there is no explicit documentation to this fact, it should remain clear that this procedure accumulates, i.e. purged content under RemoteNEPS is therefore neither included in RemoteNEPS nor in Download.

This *onion-shaped model* provides both ease of (1) use of different sensitivity models (e.g. preparing an analysis using the Download dataset and conducting it afterwards using the OnSite-data) and (2) documentation, for the subject of documentation is the most sensitive level (OnSite), with RemoteNEPS and Download levels being a subset of these data.

The fourth layer *master* depicted below contains every material which is needed during data processing by the NEPS, but is not meant for the scientific community to be usable.



Figure 1: Onion-shaped model defining the different anonymization levels

Technically, this model realizes in a single letter suffixed to dataset and variable names. All datasets available OnSite only are marked with an additional **_O**, those available via RemoteNEPS with **_R** and Download files with **_D**. The same procedure applies when it comes to variable differentiation. A variable which is available unaltered OnSite only is suffixed with **_O**. In RemoteNEPS-access or Download, this variable is still present but purged. If there is an alternate version (e.g. with coarsened content) for RemoteNEPS (suffix **_R**) or Download (suffix **_D**), those can be used. As said before, these are already integrated in the OnSite version. See section 3 for some examples (especially for a practical explanation what is meant by *purging* here).

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Keeping the usability and the paradigm of information esteem in mind, only very few alterations are actually done to the dataset. Please note that all information is still available somewhere and that only RemoteNEPS and (mainly) the Download version are constraint in this matter. In fact, in this SUF, only 409 out of 7222 variables are modified in some way.

The following table gives an explanatory overview of all measures conducted. The remainder of this section gives a more detailed description of those topics.

Table 1: Availability of sensitive data

Topic	OnSite	RemoteNEPS	Download
String variables	anonymized	n/a	n/a
International ¹	full data	full data	collapsed
Regional (National)	restricted	restricted	restricted
Institutional context	full data	anonymized	n/a
Macro indicators	accessible	n/a	n/a
Others	full data	full data	aggregated

¹ international geographical information (e.g., nation states, national languages)

2.1 String variables

All variables containing actual text and whose type is therefore string are purged in the RemoteNEPS version. The information remains accessible OnSite. However, you should be aware that in the majority of cases, text entries have been recoded into derived variables (usually suffixed with `_g1`, `_g2`, etc.), which contain the information collected. Those variables are available in all three levels, only the actual text entry is available OnSite only. The text entries have been reviewed by staff to ensure that absolutely no reidentificational material is included. To indicate the availability of those variables OnSite only, the variable names have been suffixed with an additional `_0`.

Table 2: All string variables; those are only available onsite

file	variable	label
pCourseGerman	ed0015x	Spelling knowledge - other
pCourseGerman	ed0016h	Strategies - other

(...)

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Table 2: (continued)

file	variable	label
pInstitution	h22131x	School: all-day school programs: other, text 1
pInstitution	h22131y	School: all-day school programs: other, text 2
pInstitution	h22131z	School: all-day school programs: other, text 3
pInstitution	h22202t	School: quality: other, text
pInstitution	h227011	School: full-time teachers school subject: other school subjects, text1
pInstitution	h227012	School: full-time teachers school subject: other school subjects, text2
pInstitution	h227013	School: full-time teachers school subject: other school subjects, text3
pInstitution	h229003	School: approach: educational, text
pInstitution	h229005	School: approach: promotion, text
pInstitution	h229007	School: approach: integration, text
pInstitution	h229009	School: approach: other, text
pInstitution	h22901t	School: profile: other, text
pInstitution	h41700a	Other remedial measures, other
pInstitution	h41702a	Parent training programs, migration, other
pInstitution	h41704a	Teacher training programs, migration, other
pInstitution	hd0041b	Other function in school administration, specifically:
pParent	p19020j	Special educational needs OPEN
pParent	p26210t	Parents: tutoring, other subject (open)
pParent	p296402	Wish: What vocation should TC learn
pParent	p401001	Migrant status other
pParent	p731803	Highest educational qualification of respondent type open
pParent	p731814	Vocational qualification respondent (open)
pParent	p731817	Type tertiary qualification respondent (open)
pParent	p731853	Highest educational qualification partner type open
pParent	p731864	Vocational degree partner (open)
pParent	p731867	Type tertiary qualification partner (open)
pTarget	t22260t	Student: School involvement: Other, text
pTarget	t261201	Student: internship duration
pTarget	t26212a	Students: Tutoring subject 1. response
pTarget	t26212b	Students: Tutoring subject 2. response
pTarget	t26212c	Students: Tutoring subject 3. response
pTarget	t262400	Student: Content of part-time job
pTarget	t268111	Students: Tutoring Place somewhere else, Text
pTarget	t27111d	Student: Courses outside of School: Other courses: Text, where
pTarget	t27111t	Courses outside School: other courses, open
pTarget	t27111u	Student: Courses outside of School: Other courses; Text, what
pTarget	t27111v	Students: Classes outside the School: Music school lessons, Text
pTarget	t27111w	Students: Classes outside the School: Music school lessons, Text
pTarget	t27111x	Classes outside school - Youth art school

(...)

2 Conducted measures

Table 2: (continued)

file	variable	label
pTarget	t27270h	Student: Participation organization/ group: Other, text
pTarget	t31060a	Idealistic career aspirations: career aspiration
pTarget	t31160a	Realistic career aspirations: career aspiration
pTarget	t34002f	Frequency reading (genre): namely
pTarget	t526012	Place warm meal: other place
pTarget	td0021x	Favorite subject
pTarget	te00013	Year of graduation - open
pTarget	te05017	Idealistic educational aspiration – type higher education instit. - other namely
pTarget	te05025	Idealistische Bildungsaspiration - Ausbildungstyp - etwas an- deres und zwar
pTarget	te06010	Idealistic aspiration subject
pTarget	te06020	Idealistic aspiration study subject combination subject
pTarget	te08010	Profession requiring vocational training
pTarget	te09017	Realistic educ. asp. - type higher educ. instit. - other, specifi- cally
pTarget	te09025	Realistic educ. asp. - type of voc. training - something else, specifically
pTarget	te10010	Realistic aspiration Field of study
pTarget	te10020	Realistic aspiration Field of study Combination subject
pTarget	te11010	Realistic educational aspiration: vocational training
pTarget	te14116	Further subjects at a higher performance level - another sub- ject
pTarget	tf00070	First career aspiration
pTarget	tf0013b	Second career aspiration indication
pTarget	tf0021b	Vocational training
pTarget	tf00260	Application, occupation 1
pTarget	tf0029b	Application profession 2
spCourses	t272011_w1	Course content
spCourses	t272011_w2	Course content
spCourses	t272011_w3	Course content
spCourses	t272011_w4	Course content
spCourses	t272011_w5	Course content
spFurtherEdu1	t272000	course content
spParentGap	ps29102	Other activity
spParentSchool	p723090	Type of school (open)
spSchool	ts11206	Another type of school
spSchool	ts11251	1st Abitur subject, open
spSchool	ts11252	2nd Abitur subject, open
spSchool	ts11253	3rd Abitur subject, open
spSchool	ts11254	4th Abitur subject, open
spSchool	ts11255	5th Abitur subject, open
spSchoolExtExam	ts11305	Other school-leaving qualification awarded
spSchoolExtExam	ts11324	1st Abitur subject (awarded qualification), open
spSchoolExtExam	ts11325	2nd Abitur subject (awarded qualification), open

(...)

2 Conducted measures

Table 2: (continued)

file	variable	label
spSchoolExtExam	ts11326	3rd Abitur subject (awarded qualification), open
spSchoolExtExam	ts11327	4th Abitur subject (awarded qualification), open
spSchoolExtExam	ts11328	5th Abitur subject (awarded qualification), open
spVocTrain	ts15412	Other degree (open)
spVocTrain	ts15458	Support during vocational training program other, open

2.2 International: countries, languages, and nationalities

All information corresponding to international localization, nationality or languages is completely available only OnSite or via RemoteNEPS. Variables comprised in the Download SUF are aggregated to the binary information German/non-German. Please note that this variable does not necessarily has the same root of the variable name as the affected variable (e.g. if it is part of the instrument and not generated during the anonymization process). Look in the vicinity of the documented variable to find it. Also, see section 3.3.

Table 3: All variables which are affected by country/language/nationality aggregation

file	variable	label
pParent	p32601a	Position generator: country nurse or male nurse
pParent	p32601b	Position generator: country engineer
pParent	p32601c	Position generator: country warehouse/transport worker
pParent	p32601d	Position generator: country social worker
pParent	p32601e	Position generator: country sales clerk
pParent	p32601f	Position generator: country police officer
pParent	p32601g	Position generator: country doctor
pParent	p32601h	Position generator: country banker
pParent	p32601k	Position generator: country car mechanic
pParent	p32601l	Position generator: country legal practitioner
pParent	p32601m	Position generator: country optician
pParent	p32601n	Position generator: country translator
pParent	p32601o	Position generator: country teacher at elementary school, Hauptschule or Real...
pParent	p400010_g1	Country of birth respondent
pParent	p400010_g2	Respondent's country of birth (aggregated)
pParent	p400070_g1	Respondent's mother's country of birth
pParent	p400070_g2	Country of birth of respondent's mother (aggregated)
pParent	p400090_g1	Respondent's father's country of birth
pParent	p400090_g2	Country of birth of respondent's father (aggregated)
pParent	p400500_g3	group of origin

(...)

2 Conducted measures

Table 3: (continued)

file	variable	label
pParent	p400500_g3v1	Group of origin
pParent	p401150_g2	Respondent's nationality not German (aggregated)
pParent	p403010_g1	Country of birth partner abroad
pParent	p403010_g2	Partner's country of birth (aggregated)
pParent	p403070_g1	Partner's mother's country of birth
pParent	p403070_g2	Country of birth of partner's mother (aggregated)
pParent	p403090_g1	Partner's father's country of birth
pParent	p403090_g2	Country of birth of partner's father (aggregated)
pParent	p404050_g2	Other nationality partner (aggregated)
pParent	p406010_g1	Country of birth target child
pParent	p406010_g2	Target child's country of birth (aggregated)
pParent	p407050_g2	Target child's nationality (aggregated)
pParent	p407060_g2	Target child's second nationality (aggregated)
pParent	p731804_g1	Highest educational qualification of respondent abroad (country)
pParent	p731804_g2	Country of respondent's highest educational qualification (aggregated)
pParent	p731823_g1	Country of vocational qualification (additional response)
pParent	p731823_g2	Country of professional qualification (additional response, aggregated)
pParent	p731854_g1	Country of partner's highest school-leaving qualification
pParent	p731854_g2	Country of highest educational qualification partner (aggregated)
pParent	p731873_g1	Country of vocational qualification, partner, (additional response)
pParent	p731873_g2	Country of partner's professional qualification (add. response, aggregated)
pTarget	t32601a	Position generator: Country nurse or male nurse
pTarget	t32601b	Position generator: Country engineer
pTarget	t32601c	Position generator: Country warehouse/transport worker
pTarget	t32601d	Position generator: Country social worker
pTarget	t32601e	Position generator: Country sales clerk
pTarget	t32601f	Position generator: Country police officer
pTarget	t32601g	Position generator: Country doctor
pTarget	t32601h	Position generator: Country banker
pTarget	t32601k	Position generator: Country car mechanic
pTarget	t32601l	Position generator: country legal practitioner
pTarget	t32601m	Position generator: Country optician
pTarget	t32601n	Position generator: country translator
pTarget	t32601o	Position generator: Country teacher at ele. school, Hauptschule or Realschule
pTarget	t400000_g1	Birth country

(...)

2 Conducted measures

Table 3: (continued)

file	variable	label
pTarget	t400000_g2	Country of birth (aggregated)
pTarget	t400070_g1	Mother: Country of birth
pTarget	t400070_g2	Mother: Country of birth (aggregated)
pTarget	t400090_g1	Father: Country of birth
pTarget	t400090_g2	Father: Country of birth (aggregated)
pTarget	t400220_g1	Country of birth of your mother's mother
pTarget	t400220_g2	Mother's mother: Country of birth (aggregated)
pTarget	t400240_g1	Country of birth of your mother's father
pTarget	t400240_g2	Mother's father: Country of birth (aggregated)
pTarget	t400260_g1	Country of birth of your father's mother
pTarget	t400260_g2	Father's mother: Country of birth (aggregated)
pTarget	t400280_g1	Country of birth of your father's father
pTarget	t400280_g2	Father's father: Country of birth (aggregated)
pTarget	t400500_g3	Group of origin
pTarget	t400500_g3v1	Group of origin
pTarget	t751004_g1	Country of residence (abroad)
pTarget	t751004_g2	Country of place of residence (aggregated)
pTarget	t751015_g1	Second place of residence - country
pTarget	t751015_g2	Country of second residence (aggregated)
spEmp	ts23239_g1	Country of workplace
spEmp	ts23239_g2	Country of workplace (aggregated)
spParentSchool	p723060_g1	Country of school
spParentSchool	p723060_g2	Country of school (aggregated)
spSchool	ts1120s_g1	Country of school
spSchool	ts1120s_g2	Country of school (aggregated)
spSchoolExtExam	ts11301_g1	Country of school-leaving qualification
spSchoolExtExam	ts11301_g2	Country of the awarded school-leaving qualification (aggregated)
spVocTrain	ts1521s_g1	Country in which vocational training program was done
spVocTrain	ts1521s_g2	Country of vocational training (aggregated)
spVocTrain	ts15294_g1	1. country stay abroad
spVocTrain	ts15294_g2	1. country stay abroad (aggregated)
spVocTrain	ts15295_g1	2nd country of stay abroad
spVocTrain	ts15295_g2	2. country stay abroad (aggregated)
ParentMethods	px80204	Interview: interview language (realized case)
TargetMethods	tx80204	Interview: Interview language (realized case)
pEducator	e41100a_g2	Mother tongue (response 1, ISO 639.2)
pEducator	e41100a_g3	Mother tongue (response 2, ISO 639.2)
pEducator	e41100a_g4	Mother tongue (response 3, ISO 639.2)
pEducator	e41100a_g5	Mother tongue (response 4, ISO 639.2)
pParent	p410000_g1	First/native language child (ISO 639.2)
pParent	p410000_g2	First/native language child (aggregated)
pParent	p410002_g1	Further first language/ language of origin child (ISO 639.2)

(...)

2 Conducted measures

Table 3: (continued)

file	variable	label
pParent	p410002_g2	Further first language/ language of origin child (aggregated)
pParent	p412001_g1	Interaction language household, detailed (ISO 639.2)
pParent	p412001_g2	Interactive language household detailed (aggregated)
pParent	p413000_g1	First/native language respondent (ISO 639.2)
pParent	p413000_g2	Respondent's language of origin (aggregated)
pParent	p413002_g1	Further first language/ language of origin respondent (ISO 639.2)
pParent	p413002_g2	Further first language/ language of origin respondent (aggregated)
pParent	p414000_g1	First/native language partner (ISO 639.2)
pParent	p414000_g2	Partner's language of origin (aggregated)
pParent	p414002_g1	Further first language/ language of origin partner (ISO 639.2)
pParent	p414002_g2	Further first language/ language of origin partner (aggregated)
pParent	p414100_g1	Recent partner's language of origin (ISO 639.2)
pParent	p414100_g2	Recent partner's language of origin (aggregated)
pParent	p414102_g1	Further first language/ language of origin new partner (ISO 639.2)
pParent	p414102_g2	Further first language/ language of origin new partner (aggregated)
pTarget	t41000a_g2	Mother tongue (response 1, ISO 639.2)
pTarget	t41000a_g3	Mother tongue (response 2, ISO 639.2)
pTarget	t41000a_g4	Mother tongue (response 3, ISO 639.2)
pTarget	t41000a_g5	Mother tongue (response 4, ISO 639.2)
pTarget	t410010_g2	Second language (1st alternative, ISO 639.2)
pTarget	t410010_g3	Second language (2nd alternative, ISO 639.2)
pTarget	t410010_g4	Second language (3rd alternative, ISO 639.2)
pTarget	t410010_g5	Second language (4th alternative, ISO 639.2)
pTarget	t41010a_g2	Mother: Mother tongue (1st alternative, ISO 639.2)
pTarget	t41010a_g3	Mother: Mother tongue (2nd alternative, ISO 639.2)
pTarget	t41010a_g4	Mother: Mother tongue (3rd alternative, ISO 639.2)
pTarget	t41010a_g5	Mother: Mother tongue (4th alternative, ISO 639.2)
pTarget	t41012a_g2	Father: Mother tongue (1st alternative, ISO 639.2)
pTarget	t41012a_g3	Father: Mother tongue (2nd alternative, ISO 639.2)
pTarget	t41012a_g4	Father: Mother tongue (3rd alternative, ISO 639.2)
pTarget	t41012a_g5	Father: Mother tongue (4th alternative, ISO 639.2)
pTarget	t414000_g1	First native language (ISO 639.2)
pTarget	t414002_g1	Second native language (ISO 639.2)
pParent	p401150_g1	Citizenship respondent not German
pParent	p404050_g1	Other citizenship partner
pParent	p407050_g1	Citizenship of the target child

(...)

2 Conducted measures

Table 3: (continued)

file	variable	label
pParent	p407060_g1	Second citizenship of the target child
pTarget	t40115a_g2	Nationality (response 1; coded)
pTarget	t40115a_g3	Nationality (response 2; coded)
pTarget	t40115a_g4	Nationality (response 3; coded)

2.3 Regional localization

For all variables which register a regional position – such as places of birth, work, school, or residence – the following variables have been generated (if possible):

- an indicator for West Germany and East Germany (including Berlin)
- the federal state for this location.

As NEPS data which has been surveyed in institutional context enjoys special focus in this matter, federal states are only available in RemoteNEPS. When using data collected in connection with schools or higher education institutions, it is not allowed to use Federal-State-related information directly or indirectly contained in the data for analyses aiming at a direct Federal State comparison, direct conclusions to be drawn about a Federal State, or a reconstruction of the concrete Federal State affiliation of persons, households, and institutions. Please see the Data Use Agreement for further information about this topic. Regional localization below this level is not directly available. If you have need to merge data using a regional key below those levels, please contact the LifBi RDC (fdz@lifbi.de), which may deal with this matter for you.

Table 4: All regional variables which are only available in RemoteNEPS

file	variable	label
CohortProfile	tx80109_g2	Sample: Federal state school
Weights	stratum_imp2	implicit stratum 2 (federal states of institution)
Weights	stratum_imp3	implicit stratum 3 (regional classification of institution)
Weights	stratum_imp4	implicit stratum 4 (organizing institution)
pEducator	e537110_g2	Place of study teaching post (Federal State)
pEducator	e537110_g3	Place of study teaching post (administrative district)
pEducator	e537170_g2	Place: passed the examination (Federal State)
pEducator	e537170_g3	Place: passed the examination (administrative district)
pParent	p751001_g2	Place of Residence (Federal State)
pTarget	t700101_g2	Municipality of birth (federal state)
pTarget	t751001_g2	Residential municipality (RS federal state)
pTarget	t751011_g2	Municipality of second residence (federal state)
pTarget	ts11202_g2	Municipality of school (federal state)

(...)

2 Conducted measures

Table 4: (continued)

file	variable	label
pTarget	ts11203	School federal state
pTarget	tx44401_g2	Place of school (federal state)
spEmp	ts23237_g2	Location of workplace (RS federal state)
spParentSchool	p723030_g2	Municipality of school (federal state)
spSchool	ts11202_g2	Municipality of school (federal state)
spSibling	p723050	State of school
spVocPrep	ts13105_g2	Municipality of measure (RS federal state)
spVocTrain	ts15207_g2	Municipality of training facility (RS federal state)
spVocTrain	ts15429	Federal state in which higher education institution is located

2.4 Institutional characteristics

In this Starting Cohort, also information about institutions is available. A special focus of anonymization was directed to protection of institutional data, i.e. information about kindergarten, schools, and universities, but also educators and teachers. To minimize the risk of re-identification, this data is only available in RemoteNEPS. This includes the complete datafile(s)

pInstitution,

but may also affect basic structural details about the group or class (e.g. size of class) in other datafiles. Furthermore, personal information about educators and teachers is treated more securely. You will find detailed information about these subjects from RemoteNEPS onward. Refer to section 2.6 to see the affected variables.

2.5 Macro indicators

Additional information including structural topography and macroeconomic measures was collected. You find those available OnSite only. The following data is available:

- Microm data, describing the surrounding of the targets residence
- Microm data, describing the surrounding of the school
- RegioInfas (infas geodaten) data, describing the surrounding of the targets residence
- RegioInfas data, describing the surrounding of the school

2.6 Other variables

All other variables affected by anonymization and not classifiable in the previous groups are listed below. In the first table (table 5), you find all variables which were aggregated in the Download-SUF. An additional table below each entry displays the values of the variable, both as found in RemoteNEPS (if table column is empty, the variable is numeric and does not have a value label scheme) and in Download.

The second table (table 6) contains all variables which are not aggregated, but purged completely in the Download-version, that is, there is no aggregated version.

2 Conducted measures

Table 5: Other variables which were aggregated in the Download-SUF (aggregation is also stated)

[file] variable: label		
[CohortProfile] tx80505: List of children / pupils: Special educational needs target child (aggregated)		
RemoteNEPS		Download
No special educational needs	1	No special educational needs
Special educational needs with priority reading	2	Special educational needs
Special educational needs with priority language	3	
Special educational needs with priority emotional and social development	4	
Special educational needs with priority autism	5	
Special educational needs with other priority	6	
unknown	7	
Special needs with focus seing	8	
Special needs with focus hearing	9	
Special needs with focus physical motoric development	10	
Special needs with focus mental development	11	
Special educational needs with priority learning/language	23	
Special educational needs with priority learning/emotional development	24	
Special educational needs with priority learning/autism	25	
Special educational needs with priority learning/other	26	
Special needs with focus language/emotional social development	34	
Special needs with focus language/others	36	
Special educational needs with priority emotional social development/autism	45	
Special needs with focus on emotional social development/other	46	
Special needs with focus autism/seing	58	
by SK marked with cross/line	96	
not administered	97	
no indication	99	
Special educ.needs priority learning/language/emotional social development	234	
Special needs with focus Learning/Language/Autism	235	
Special needs with focus Learning/Language/Others	236	
Special needs with focus Language/emotional social development/others	346	
Special needs with focus Learning/Language/mental development	2311	
Special needs with focus Learning/emotional social mental development	2411	

(...)

2 Conducted measures

Table 5: (continued)

[file] variable: label

[pCourseClass] e227400_g1: Class: Number of students, total (roughly)

RemoteNEPS	Download
1	Below 10
2	10 to 14
3	15 to 19
4	20 to 24
5	25 to 29
6	30 to 34
7	35 and more

[pCourseClass] e229400: Class: Facilities: Classroom size (aggregated)

RemoteNEPS	Download
1	under 30
2	30 to 39
3	40 to 49
4	50 to 59
5	60 and more

[pCourseGerman] ed0001h: Amount of German lessons (categorized)

RemoteNEPS	Download
1	to 4
2	5
3	6 and more

[pCourseGerman] ed0001m: German lessons (duration in min per lessons, categorized)

RemoteNEPS	Download
1	45
2	Other

[pCourseGerman] ed0002h: Remedial teaching (number of lessons, categorized)

RemoteNEPS	Download
1	below 2
2	2 or more

[pCourseMath] ed00035: Remedial teaching (number of lessons, categorized)

RemoteNEPS	Download
1	below 2
2	2 or more

[pCourseMath] ed0025h: Amount of Math lessons (categorized)

RemoteNEPS	Download
1	to 4
2	5
3	6 and more

(...)

2 Conducted measures

Table 5: (continued)

[file] variable: label

[pCourseMath] ed0025m: Math lessons (duration in minutes per lessons, categorized)

RemoteNEPS	Download
1	45
2	Other

[pEducator] e229820: Work in occupation (years, categorized)

RemoteNEPS	Download
1	0 up to less than 5
2	5 up to less than 10
3	10 to less than 15
4	15 up to less than 20
5	20 to less than 25
6	25 to less than 30
7	30 up to less than 35
8	35 and more

[pEducator] e229821: Time in occupation at school (years, categorized)

RemoteNEPS	Download
1	0 up to less than 5
2	5 up to less than 10
3	10 to less than 15
4	15 up to less than 20
5	20 to less than 25
6	25 to less than 30
7	30 up to less than 35
8	35 and more

[pEducator] e536020: Age profession choice (categorized)

RemoteNEPS	Download
30	30 and older

[pEducator] e53702y: Year of college admission qualification (categorized)

RemoteNEPS	Download
1	Before 1970
2	1970-1979
3	1980-1989
4	1990-1999
5	after 1999

[pEducator] e53710y: Year of study start teacher course (kategorisiert)

RemoteNEPS	Download
1	Before 1970
2	1970-1979
3	1980-1989
4	1990-1999
5	after 1999

(...)

2 Conducted measures

Table 5: (continued)

[file] variable: label

[pEducator] e537150: Year of passing the examination (categorized)

RemoteNEPS		Download
	1	Before 1970
	2	1970-1979
	3	1980-1989
	4	1990-1999
	5	after 1999

[pEducator] e76212y: Year of birth (categorized)

RemoteNEPS		Download
	1	Before 1950
	2	1950-1959
	3	1960-1969
	4	1970-1979
	5	after 1979

[pParent] p727001: Recommendation secondary school or course of education, which ones? (coarsened)

RemoteNEPS		Download
Hauptschule	1	Hauptschule
Realschule	2	Realschule
Gymnasium	3	Gymnasium
Integrated Gesamtschule [basic and intermediate secondary school, in some states also elementary and upper] with inclusion	4	Integrated Gesamtschule
Verbundene Haupt- und Realschule «also Gemeinschaftsschule, Oberschule, district school, extended Realschule, Realschule plus, Werkrealschule, Mittelstufenschule»	5	verbundene Haupt- and Realschule
Mittelschule	6	Mittelschule/Regelschule/Sekundarschule/Regionale Schule
Regelschule (Thuringia)	7	
Regionale Schule (Rhineland Palatinate)	8	
Sekundarschule (Bremen, NRW)	9	
Remedial level (Hesse)	10	
Special needs school	11	Special needs school
Orientation stage [first two years of secondary education]	12	Orientation stage
School for highly gifted students	13	School for highly gifted students
Gemeinschaftsschule [type of Gesamtschule in Schleswig-Holstein] (NRW)	14	

(...)

2 Conducted measures

Table 5: (continued)

[file] variable: label

[pParent] p727002: Recommendation secondary school/ course of education, further ones?
(coarsened)

RemoteNEPS		Download
Hauptschule	1	Hauptschule
Realschule	2	Realschule
Gymnasium	3	Gymnasium
Integrated Gesamtschule [basic and intermediate secondary school, in some states also elementary and upper] with inclusion	4	Integrated Gesamtschule
Verbundene Haupt- und Realschule «also Gemeinschaftsschule, Oberschule, district school, extended Realschule, Realschule plus, Werkrealschule, Mittelstufenschule»	5	verbundene Haupt- and Realschule
Mittelschule	6	Mittelschule/Regelschule/Sekundarschule/Regionale Schule
Regelschule (Thuringia)	7	
Regionale Schule (Rhineland Palatinate)	8	
Sekundarschule (Bremen, NRW)	9	
Remedial level (Hesse)	10	
Special needs school	11	Special needs school
Orientation stage [first two years of secondary education]	12	Orientation stage
School for highly gifted students	13	School for highly gifted students
Gemeinschaftsschule [type of Gesamtschule in Schleswig-Holstein] (NRW)	14	

[pParent] p731911: Number of employees respondent (aggregated)

RemoteNEPS		Download
1 to less than 5	1	1 to less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 and more
50 to less than 100	5	
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1.000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

(...)

2 Conducted measures

Table 5: (continued)

[file] variable: label

[pParent] p731961: Number of employees partner (categorized)

RemoteNEPS		Download
1 to less than 5	1	1 to less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 and more
50 to less than 100	5	
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1.000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

[pTarget] t731416: Number of employed mothers (aggregated)

RemoteNEPS		Download
1 to less than 5	1	1 to less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 and more
50 to less than 100	5	
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1.000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

[pTarget] t731466: Number of employees father (aggregated)

RemoteNEPS		Download
1 to less than 5	1	1 to less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 and more
50 to less than 100	5	
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1.000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

2 Conducted measures

Table 6: Other variables which were purged in the Download-SUF

file	variable	label
Weights	tx80113	Total number of classes in the 8th grade (according to the Fed. Stat. Office)
Weights	tx80114	Total number of classes in the 8th grade (according to the Fed. Stat. Office)
pCourseClass	e190011	Class: number of students with special needs
pCourseClass	e199001	Class: number of students with special needs learning
pCourseClass	e199002	Class: number of students with special needs language
pCourseClass	e199003	Class: number of students with special needs physical/motor development
pCourseClass	e199004	Class: number of students with special needs emotional/social development
pCourseClass	e199005	Class: number of students with special needs mental development
pCourseClass	e199006	Class: number of students with special needs sight
pCourseClass	e199007	Class: number of students with special needs hearing
pCourseClass	e199008	Class: number of students with special needs autism
pCourseClass	e227400	Class: Number of female students
pCourseClass	e227401	Class: Number of male students
pCourseClass	e451000	Daycare institution: number of students with migration background
pCourseClass	e79201a	Class: proportion class affiliation - low class
pCourseClass	e79201b	Class: proportion class affiliation - middle class
pCourseClass	e79201c	Class: proportion class affiliation - upper class
pCourseClass	e79202a	Class: proportion of parents with a higher education degree
pEducator	e537030	Federal state higher education entrance qualification (Federal state)
pEducator	e537110_g4	Place of study teaching post (county, as of 2013)
pEducator	e537170_g4	Place: passed the examination (county, as of 2013)
pEducator	e537200	Federal state second Staatsexamen (Federal state)
pEducator	e76212m	Month of birth
pInstitution	h76612m	Month of birth
pParent	p435030_g1	Religion and religiosity: other religious community

(...)

2 Conducted measures

Table 6: (continued)

file	variable	label
pTarget	t435030_g1	Religion and religiousness: other religious community
pTarget	t43504a_g1	Religion or denomination (specific)
spVocTrain	ts15401	Higher education institution
spVocTrain	ts15404_g1	Study area study subj., doctoral subj., habilitation subj. 1 (destatis 2010/11)
spVocTrain	ts15404_g3	ISCED-97 study subject, doctoral subject, habilitation subject 1 (3-digits)
spVocTrain	ts15404_g4	ISCED-97 study subject, doctoral subject, habilitation subject 1 (2-digits)

3 Examples

The following examples compare variables from some selected topics. On the left side, you see these variables as they can be found in the RemoteNEPS-SUF (i.e., this is the variant of the variable which contains the full information). On the right side, you find the same variables, but from the Download-version of the SUF, that is, the aggregated or purged variant of the variable. This illustrates the anonymization applied.

3.1 Number of employees

The first example is a variable collected during the interview of Starting Cohort 6 (Adults). The question further investigates the occupational periphery of employers, while here, this employer is the mother of the respondent. On the left, you see the complete information as found in the RemoteNEPS-SUF. This variable is collected using seven classes, where the last four are sparsely filled (variable $\tau 731406_R$, table on the lower left). Because of this, those four codes have been recoded into one category (*»20 and more«*) and a new variable is generated ($\tau 731406_D$, upper left). In the Download-SUF, you find this aggregated variable unaltered (upper right). The variable $\tau 731406_R$ rich in content was purged, though. You see that all meaningful codes have been recoded to *»-53 Anonymized«*. Note that the missing code *»-54 Missing by design«* is transported to the Download-SUF unmodified, so you already can derive the actual *statistical power* of this variable.

3 Examples

RemoteNEPS		Download	
SC6_pTarget_R_5-1-0.dta (NEPS SUF, SC6 5.1.0 (remote); doi:10.5157/NEPS:SC6:5.1.0)		SC6_pTarget_D_5-1-0.dta (NEPS SUF, SC6 5.1.0 (download); doi:10.5157/NEPS:SC6:5.1.0)	
t731406_D -- Number of mother's employees (categorized)		t731406_D -- Number of mother's employees (categorized)	
	Freq.		Freq.
Valid		Valid	
-98 Don't know	7	-98 Don't know	7
-97 Refused	1	-97 Refused	1
-54 Missing by design	36700	-54 Missing by design	36700
0 none	423	0 none	423
1 1 to 4	330	1 1 to 4	330
2 5 to 9	64	2 5 to 9	64
3 10 to 19	22	3 10 to 19	22
4 20 and more	28	4 20 and more	28
Total	37575	Total	37575
Missing .	15982	Missing .	15982
Total	53557	Total	53557
t731406_R -- Number of mother's employees		t731406_R -- Number of mother's employees	
	Freq.		Freq.
Valid		Valid	
-98 Don't know	7	-54 Missing by design	36700
-97 Refused	1	-53 Anonymized	875
-54 Missing by design	36700	Total	37575
0 None	423	Missing .	15982
1 1 to 4	330	Total	53557
2 5 to 9	64		
3 10 to 19	22		
4 20 to 49	21		
5 50 to 99	3		
6 100 to 199	3		
7 200 to 249	1		
Total	37575		
Missing .	15982		
Total	53557		

3.2 Countries (aggregated list)

To illustrate the anonymization of countries, first have a look at this variable from Starting Cohort 6 (Adults). The information (*»respondent's country of birth«*) was surveyed during the interview. The collected information was recoded during data processing to different derived variables. The first of those is variable `t405010_g1R`, which contains the complete list of countries (lower left, output is shortened to enhance readability). Also, a second variable `t405010_g2` was generated, using a more coarse list. This is helpful if some information was collected, but it is too inaccurate to identify the country (e.g., if someone states he was born in North America, you do not know if he meant U.S. or Canada). This second variable is transported to the Download-SUF unaltered (upper right), which means it in some way represents the anonymized version. The first variable `t405010_g1R` with the full information is purged in the Download-SUF.

3 Examples

RemoteNEPS		Download	
SC6_pTarget_R_5-1-0.dta (NEPS SUF, SC6 5.1.0 (remote); doi:10.5157/NEPS:SC6:5.1.0)		SC6_pTarget_D_5-1-0.dta (NEPS SUF, SC6 5.1.0 (download); doi:10.5157/NEPS:SC6:5.1.0)	
t405010_g2 -- Country of birthplace (categorized)		t405010_g2 -- Country of birthplace (categorized)	
-----		-----	
	Freq.		Freq.
-----		-----	
Valid		Valid	
-97 Refused	2	-97 Refused	2
-54 Missing by design	36417	-54 Missing by design	36417
-20 Foreign, but not codeable	5	-20 Foreign, but not codeable	5
1 Germany	15388	1 Germany	15388
2 Italy	52	2 Italy	52
3 Poland	244	3 Poland	244
4 Romania	98	4 Romania	98
5 Turkey	182	5 Turkey	182
6 Former Yugoslavia	113	6 Former Yugoslavia	113
7 Former Soviet Union	522	7 Former Soviet Union	522
8 Central and South America, Caribbean	42	8 Central and South America, Caribbean	42
9 Northern and Western Europe	154	9 Northern and Western Europe	154
10 North America	33	10 North America	33
12 Other Middle East and North Africa	73	12 Other Middle East and North Africa	73
13 Other Africa	30	13 Other Africa	30
14 Other Asia	74	14 Other Asia	74
15 Other Central and Eastern Europe	84	15 Other Central and Eastern Europe	84
16 Other Southern Europe	44	16 Other Southern Europe	44
Total	53557	Total	53557
-----		-----	
t405010_g1R -- Country of place of birth		t405010_g1R -- Country of place of birth	
-----		-----	
	Freq.		Freq.
-----		-----	
Valid		Valid	
-97 Refused	2	-54 Missing by design	36417
-54 Missing by design	36417	-53 Anonymized	17140
-20 Foreign, but not codeable	5	Total	53557
0 germany	15388		
120 yugoslavia	30		
121 albania	4		
122 bosnia and herzegovina	22		
124 belgium	5		
:	:		
477 uzbekistan	6		
479 china	7		
482 malaysia	2		
499 other asia	1		
Total	53557		
-----		-----	

3.3 Countries (binary variable)

In school cohorts, an aggregation of countries is coarsened to the binary information German/Non-German. To illustrate this, have a look at variables from Starting Cohort 2 (Kindergarten). The information (*»country of birth target child«*) was surveyed during the interview using a two-step procedure: first, the respondent is asked if the child was born in Germany or abroad (variable p406000, top left). This variable is not subject to anonymization and therefore does not have a suffix and is equally existent in both SUF-versions. If the child was born abroad, a second question regarding the specific country followed (variable p406010_g1R, lower left, output is reduced to enhance readability). This second question is purged in the Download-SUF (lower right). There is no need to generate an additional anonymized version of this second question, as the information is already present in the first shown variable (p406000).

3 Examples

RemoteNEPS	Download																																				
SC2_pParent_R_3-0-0.dta (NEPS SUF, SC2 3.0.0 (remote); doi:10.5157/NEPS:SC2:3.0.0)	SC2_pParent_D_3-0-0.dta (NEPS SUF, SC2 3.0.0 (download); doi:10.5157/NEPS:SC2:3.0.0)																																				
p406000 -- Target child born in Germany?	p406000 -- Target child born in Germany?																																				
<pre>-----+-----</pre> <table border="1"> <thead> <tr> <th></th> <th>Freq.</th> </tr> </thead> <tbody> <tr> <td>Valid -98 Don't know</td> <td>1</td> </tr> <tr> <td>1 Yes</td> <td>7658</td> </tr> <tr> <td>2 No</td> <td>173</td> </tr> <tr> <td>Total</td> <td>7832</td> </tr> <tr> <td>Missing .</td> <td>3545</td> </tr> <tr> <td>Total</td> <td>11377</td> </tr> </tbody> </table> <pre>-----+-----</pre>		Freq.	Valid -98 Don't know	1	1 Yes	7658	2 No	173	Total	7832	Missing .	3545	Total	11377	<pre>-----+-----</pre> <table border="1"> <thead> <tr> <th></th> <th>Freq.</th> </tr> </thead> <tbody> <tr> <td>Valid -98 Don't know</td> <td>1</td> </tr> <tr> <td>1 Yes</td> <td>7658</td> </tr> <tr> <td>2 No</td> <td>173</td> </tr> <tr> <td>Total</td> <td>7832</td> </tr> <tr> <td>Missing .</td> <td>3545</td> </tr> <tr> <td>Total</td> <td>11377</td> </tr> </tbody> </table> <pre>-----+-----</pre>		Freq.	Valid -98 Don't know	1	1 Yes	7658	2 No	173	Total	7832	Missing .	3545	Total	11377								
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Total	7832																																				
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	Freq.																																				
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125 bulgaria	5																																				
:	:																																				
475 syrian arab republic	2																																				
476 thailand	2																																				
479 china	4																																				
536 new zealand	1																																				
Total	7832																																				
Missing .	3545																																				
Total	11377																																				
	Freq.																																				
Valid -53 Anonymized	7832																																				
Missing .	3545																																				
Total	11377																																				

3.4 Federal states

Regional locations are usually recoded to different derived variables (see section 2.3). In this example, we focus on the region of the school in Starting Cohort 3 (5th graders). The first derived variable is a binary variable for Western and Eastern Germany (tx80109_g1), present in both SUF-versions (upper left and upper right). The second variable tx80109_g2R, containing the federal states, is only complete in the RemoteNEPS-SUF (lower left), and is purged in the Download-SUF (lower right).

3 Examples

RemoteNEPS		Download	
SC3_CohortProfile_R_3-1-0.dta (NEPS SUF, SC3 3.1.0 (remote); doi:10.5157/NEPS:SC3:3.1.0)		SC3_CohortProfile_D_3-1-0.dta (NEPS SUF, SC3 3.1.0 (download); doi:10.5157/NEPS:SC3:3.1.0)	
tx80109_g1 -- Sample: Federal state school (west/east)		tx80109_g1 -- Sample: Federal state school (west/east)	
	Freq.		Freq.
Valid	-55 Not determinable 458	Valid	-55 Not determinable 458
1	Western Germany 16299	1	Western Germany 16299
2	Eastern Germany incl. Berlin 3784	2	Eastern Germany incl. Berlin 3784
Total	20541	Total	20541
tx80109_g2R -- Sample: Federal state school		tx80109_g2R -- Sample: Federal state school	
	Freq.		Freq.
Valid	-55 Not determinable 458	Valid	-53 Anonymized 20541
1	Schleswig-Holstein 784		
2	Hamburg 377		
3	Lower Saxony 2209		
4	Bremen 158		
5	North Rhine-Westphalia 4398		
6	Hesse 1308		
7	Rhineland-Palatinate 971		
8	Baden-Wuerttemberg 3265		
9	Bavaria 2677		
10	Saarland 152		
11	Berlin (Complete) 404		
12	Brandenburg 1143		
13	Mecklenburg-Western Pomerania 619		
14	Saxony 617		
15	Saxony-Anhalt 401		
16	Thuringia 600		
Total	20541		

3.5 Class size

Sometimes, variables are collected numerical. In the example below, the number of students in class was surveyed from the educator in Starting Cohort 2 (Kindergarten) without any further regulations. Thus, the resulting variable e227400_g1R (lower left) does not have a coding scheme. This variable is aggregated to the variable e227400_g1D containing six different class-sizes (upper left). You find this aggregated version in both SUF-versions, the full numerical variable is purged in the Download-SUF, though (lower right).

3 Examples

RemoteNEPS

SC2_pEducator_R_3-0-0.dta
(NEPS SUF, SC2 3.0.0 (remote); doi:10.5157/NEPS:SC2:3.0.0)

e227400_g1D -- Class: number of students, total (coarsed)

		Freq.
Valid	-90 Unspecific missing	10
	-54 Missing by design	1803
	1 Below 10	3
	2 10 to 14	26
	3 15 to 19	203
	4 20 to 24	450
	5 25 to 29	169
	6 30 to 34	4
	Total	2668

e227400_g1R -- Class: number of students total

		Freq.
Valid	-90 Unspecific missing	10
	-54 Missing by design	1803
	8	3
	10	1
	11	1
	12	4
	13	8
	14	12
	15	21
	16	22
	17	34
	18	58
	19	68
	20	75
	21	89
	22	98
	23	88
	24	100
	25	83
	26	39
	27	27
	28	14
	29	6
	30	3
	31	1
	Total	2668

Download

SC2_pEducator_D_3-0-0.dta
(NEPS SUF, SC2 3.0.0 (download); doi:10.5157/NEPS:SC2:3.0.0)

e227400_g1D -- Class: number of students, total (coarsed)

		Freq.
Valid	-90 Unspecific missing	10
	-54 Missing by design	1803
	1 Below 10	3
	2 10 to 14	26
	3 15 to 19	203
	4 20 to 24	450
	5 25 to 29	169
	6 30 to 34	4
	Total	2668

e227400_g1R -- Class: number of students total

		Freq.
Valid	-54 Missing by design	1803
	-53 Anonymized	865
	Total	2668

A Appendix

A.1 Complete overview

The following table lists all variables which are affected by anonymization methods. For all variables, full information is available OnSite, although for many of them, you already find this complete information in the RemoteNEPS-version. Only for those variables marked with an asterisk, the full information is only present OnSite. For most of the variables, an aggregated or generated version is available, which still transports some information to the Download-version. Please see the previous chapters for more information.

Table 7: Complete overview of all restricted variables

file	variable	label (*only available OnSite)
pParent	p32601a	Position generator: country nurse or male nurse
pParent	p32601b	Position generator: country engineer
pParent	p32601c	Position generator: country warehouse/transport worker
pParent	p32601d	Position generator: country social worker
pParent	p32601e	Position generator: country sales clerk
pParent	p32601f	Position generator: country police officer
pParent	p32601g	Position generator: country doctor
pParent	p32601h	Position generator: country banker
pParent	p32601k	Position generator: country car mechanic
pParent	p32601l	Position generator: country legal practitioner
pParent	p32601m	Position generator: country optician
pParent	p32601n	Position generator: country translator
pParent	p32601o	Position generator: country teacher at elementary school, Hauptschule or Real...
pParent	p400010_g1	Country of birth respondent
pParent	p400010_g2	Respondent's country of birth (aggregated)
pParent	p400070_g1	Respondent's mother's country of birth
pParent	p400070_g2	Country of birth of respondent's mother (aggregated)
pParent	p400090_g1	Respondent's father's country of birth
pParent	p400090_g2	Country of birth of respondent's father (aggregated)
pParent	p400500_g3	group of origin
pParent	p400500_g3v1	Group of origin
pParent	p401150_g2	Respondent's nationality not German (aggregated)
pParent	p403010_g1	Country of birth partner abroad
pParent	p403010_g2	Partner's country of birth (aggregated)
pParent	p403070_g1	Partner's mother's country of birth
pParent	p403070_g2	Country of birth of partner's mother (aggregated)
pParent	p403090_g1	Partner's father's country of birth
pParent	p403090_g2	Country of birth of partner's father (aggregated)
pParent	p404050_g2	Other nationality partner (aggregated)
pParent	p406010_g1	Country of birth target child
pParent	p406010_g2	Target child's country of birth (aggregated)
pParent	p407050_g2	Target child's nationality (aggregated)

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)
pParent	p407060_g2	Target child's second nationality (aggregated)
pParent	p731804_g1	Highest educational qualification of respondent abroad (country)
pParent	p731804_g2	Country of respondent's highest educational qualification (aggregated)
pParent	p731823_g1	Country of vocational qualification (additional response)
pParent	p731823_g2	Country of professional qualification (additional response, aggregated)
pParent	p731854_g1	Country of partner's highest school-leaving qualification
pParent	p731854_g2	Country of highest educational qualification partner (aggregated)
pParent	p731873_g1	Country of vocational qualification, partner, (additional response)
pParent	p731873_g2	Country of partner's professional qualification (add. response, aggregated)
pTarget	t32601a	Position generator: Country nurse or male nurse
pTarget	t32601b	Position generator: Country engineer
pTarget	t32601c	Position generator: Country warehouse/transport worker
pTarget	t32601d	Position generator: Country social worker
pTarget	t32601e	Position generator: Country sales clerk
pTarget	t32601f	Position generator: Country police officer
pTarget	t32601g	Position generator: Country doctor
pTarget	t32601h	Position generator: Country banker
pTarget	t32601k	Position generator: Country car mechanic
pTarget	t32601l	Position generator: country legal practitioner
pTarget	t32601m	Position generator: Country optician
pTarget	t32601n	Position generator: country translator
pTarget	t32601o	Position generator: Country teacher at ele. school, Hauptschule or Realschule
pTarget	t400000_g1	Birth country
pTarget	t400000_g2	Country of birth (aggregated)
pTarget	t400070_g1	Mother: Country of birth
pTarget	t400070_g2	Mother: Country of birth (aggregated)
pTarget	t400090_g1	Father: Country of birth
pTarget	t400090_g2	Father: Country of birth (aggregated)
pTarget	t400220_g1	Country of birth of your mother's mother
pTarget	t400220_g2	Mother's mother: Country of birth (aggregated)
pTarget	t400240_g1	Country of birth of your mother's father
pTarget	t400240_g2	Mother's father: Country of birth (aggregated)
pTarget	t400260_g1	Country of birth of your father's mother
pTarget	t400260_g2	Father's mother: Country of birth (aggregated)
pTarget	t400280_g1	Country of birth of your father's father
pTarget	t400280_g2	Father's father: Country of birth (aggregated)
pTarget	t400500_g3	Group of origin
pTarget	t400500_g3v1	Group of origin
pTarget	t751004_g1	Country of residence (abroad)
pTarget	t751004_g2	Country of place of residence (aggregated)
pTarget	t751015_g1	Second place of residence - country
pTarget	t751015_g2	Country of second residence (aggregated)

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)
spEmp	ts23239_g1	Country of workplace
spEmp	ts23239_g2	Country of workplace (aggregated)
spParentSchool	p723060_g1	Country of school
spParentSchool	p723060_g2	Country of school (aggregated)
spSchool	ts1120s_g1	Country of school
spSchool	ts1120s_g2	Country of school (aggregated)
spSchoolExtExam	ts11301_g1	Country of school-leaving qualification
spSchoolExtExam	ts11301_g2	Country of the awarded school-leaving qualification (aggregated)
spVocTrain	ts1521s_g1	Country in which vocational training program was done
spVocTrain	ts1521s_g2	Country of vocational training (aggregated)
spVocTrain	ts15294_g1	1. country stay abroad
spVocTrain	ts15294_g2	1. country stay abroad (aggregated)
spVocTrain	ts15295_g1	2nd country of stay abroad
spVocTrain	ts15295_g2	2. country stay abroad (aggregated)
ParentMethods	px80204	Interview: interview language (realized case)
TargetMethods	tx80204	Interview: Interview language (realized case)
pEducator	e41100a_g2	Mother tongue (response 1, ISO 639.2)
pEducator	e41100a_g3	Mother tongue (response 2, ISO 639.2)
pEducator	e41100a_g4	Mother tongue (response 3, ISO 639.2)
pEducator	e41100a_g5	Mother tongue (response 4, ISO 639.2)
pParent	p410000_g1	First/native language child (ISO 639.2)
pParent	p410000_g2	First/native language child (aggregated)
pParent	p410002_g1	Further first language/ language of origin child (ISO 639.2)
pParent	p410002_g2	Further first language/ language of origin child (aggregated)
pParent	p412001_g1	Interaction language household, detailed (ISO 639.2)
pParent	p412001_g2	Interactive language household detailed (aggregated)
pParent	p413000_g1	First/native language respondent (ISO 639.2)
pParent	p413000_g2	Respondent's language of origin (aggregated)
pParent	p413002_g1	Further first language/ language of origin respondent (ISO 639.2)
pParent	p413002_g2	Further first language/ language of origin respondent (aggregated)
pParent	p414000_g1	First/native language partner (ISO 639.2)
pParent	p414000_g2	Partner's language of origin (aggregated)
pParent	p414002_g1	Further first language/ language of origin partner (ISO 639.2)
pParent	p414002_g2	Further first language/ language of origin partner (aggregated)
pParent	p414100_g1	Recent partner's language of origin (ISO 639.2)
pParent	p414100_g2	Recent partner's language of origin (aggregated)
pParent	p414102_g1	Further first language/ language of origin new partner (ISO 639.2)
pParent	p414102_g2	Further first language/ language of origin new partner (aggregated)
pTarget	t41000a_g2	Mother tongue (response 1, ISO 639.2)
pTarget	t41000a_g3	Mother tongue (response 2, ISO 639.2)
pTarget	t41000a_g4	Mother tongue (response 3, ISO 639.2)

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
pTarget	t41000a_g5	Mother tongue (response 4, ISO 639.2)	
pTarget	t410010_g2	Second language (1st alternative, ISO 639.2)	
pTarget	t410010_g3	Second language (2nd alternative, ISO 639.2)	
pTarget	t410010_g4	Second language (3rd alternative, ISO 639.2)	
pTarget	t410010_g5	Second language (4th alternative, ISO 639.2)	
pTarget	t41010a_g2	Mother: Mother tongue (1st alternative, ISO 639.2)	
pTarget	t41010a_g3	Mother: Mother tongue (2nd alternative, ISO 639.2)	
pTarget	t41010a_g4	Mother: Mother tongue (3rd alternative, ISO 639.2)	
pTarget	t41010a_g5	Mother: Mother tongue (4th alternative, ISO 639.2)	
pTarget	t41012a_g2	Father: Mother tongue (1st alternative, ISO 639.2)	
pTarget	t41012a_g3	Father: Mother tongue (2nd alternative, ISO 639.2)	
pTarget	t41012a_g4	Father: Mother tongue (3rd alternative, ISO 639.2)	
pTarget	t41012a_g5	Father: Mother tongue (4th alternative, ISO 639.2)	
pTarget	t414000_g1	First native language (ISO 639.2)	
pTarget	t414002_g1	Second native language (ISO 639.2)	
pParent	p401150_g1	Citizenship respondent not German	
pParent	p404050_g1	Other citizenship partner	
pParent	p407050_g1	Citizenship of the target child	
pParent	p407060_g1	Second citizenship of the target child	
pTarget	t40115a_g2	Nationality (response 1; coded)	
pTarget	t40115a_g3	Nationality (response 2; coded)	
pTarget	t40115a_g4	Nationality (response 3; coded)	
pCourseGerman	ed0015x	Spelling knowledge - other	*
pCourseGerman	ed0016h	Strategies - other	*
pInstitution	h22131x	School: all-day school programs: other, text 1	*
pInstitution	h22131y	School: all-day school programs: other, text 2	*
pInstitution	h22131z	School: all-day school programs: other, text 3	*
pInstitution	h22202t	School: quality: other, text	*
pInstitution	h227011	School: full-time teachers school subject: other school subjects, text1	*
pInstitution	h227012	School: full-time teachers school subject: other school subjects, text2	*
pInstitution	h227013	School: full-time teachers school subject: other school subjects, text3	*
pInstitution	h229003	School: approach: educational, text	*
pInstitution	h229005	School: approach: promotion, text	*
pInstitution	h229007	School: approach: integration, text	*
pInstitution	h229009	School: approach: other, text	*
pInstitution	h22901t	School: profile: other, text	*
pInstitution	h41700a	Other remedial measures, other	*
pInstitution	h41702a	Parent training programs, migration, other	*
pInstitution	h41704a	Teacher training programs, migration, other	*
pInstitution	hd0041b	Other function in school administration, specifically:	*
pParent	p19020j	Special educational needs OPEN	*
pParent	p26210t	Parents: tutoring, other subject (open)	*
pParent	p296402	Wish: What vocation should TC learn	*
pParent	p401001	Migrant status other	*
pParent	p731803	Highest educational qualification of respondent type open	*
pParent	p731814	Vocational qualification respondent (open)	*

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
pParent	p731817	Type tertiary qualification respondent (open)	*
pParent	p731853	Highest educational qualification partner type open	*
pParent	p731864	Vocational degree partner (open)	*
pParent	p731867	Type tertiary qualification partner (open)	*
pTarget	t22260t	Student: School involvement: Other, text	*
pTarget	t261201	Student: internship duration	*
pTarget	t26212a	Students: Tutoring subject 1. response	*
pTarget	t26212b	Students: Tutoring subject 2. response	*
pTarget	t26212c	Students: Tutoring subject 3. response	*
pTarget	t262400	Student: Content of part-time job	*
pTarget	t268111	Students: Tutoring Place somewhere else, Text	*
pTarget	t27111d	Student: Courses outside of School: Other courses: Text, where	*
pTarget	t27111t	Courses outside School: other courses, open	*
pTarget	t27111u	Student: Courses outside of School: Other courses; Text, what	*
pTarget	t27111v	Students: Classes outside the School: Music school lessons, Text	*
pTarget	t27111w	Students: Classes outside the School: Music school lessons, Text	*
pTarget	t27111x	Classes outside school - Youth art school	*
pTarget	t27270h	Student: Participation organization/ group: Other, text	*
pTarget	t31060a	Idealistic career aspirations: career aspiration	*
pTarget	t31160a	Realistic career aspirations: career aspiration	*
pTarget	t34002f	Frequency reading (genre): namely	*
pTarget	t526012	Place warm meal: other place	*
pTarget	td0021x	Favorite subject	*
pTarget	te00013	Year of graduation - open	*
pTarget	te05017	Idealistic educational aspiration – type higher education instit. - other namely	*
pTarget	te05025	Idealistische Bildungsaspiration - Ausbildungstyp - etwas anderes und zwar	*
pTarget	te06010	Idealistic aspiration subject	*
pTarget	te06020	Idealistic aspiration study subject combination subject	*
pTarget	te08010	Profession requiring vocational training	*
pTarget	te09017	Realistic educ. asp. - type higher educ. instit. - other, specifically	*
pTarget	te09025	Realistic educ. asp. - type of voc. training - something else, specifically	*
pTarget	te10010	Realistic aspiration Field of study	*
pTarget	te10020	Realistic aspiration Field of study Combination subject	*
pTarget	te11010	Realistic educational aspiration: vocational training	*
pTarget	te14116	Further subjects at a higher performance level - another subject	*
pTarget	tf00070	First career aspiration	*
pTarget	tf0013b	Second career aspiration indication	*
pTarget	tf0021b	Vocational training	*
pTarget	tf00260	Application, occupation 1	*
pTarget	tf0029b	Application profession 2	*

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
spCourses	t272011_w1	Course content	*
spCourses	t272011_w2	Course content	*
spCourses	t272011_w3	Course content	*
spCourses	t272011_w4	Course content	*
spCourses	t272011_w5	Course content	*
spFurtherEdu1	t272000	course content	*
spParentGap	ps29102	Other activity	*
spParentSchool	p723090	Type of school (open)	*
spSchool	ts11206	Another type of school	*
spSchool	ts11251	1st Abitur subject, open	*
spSchool	ts11252	2nd Abitur subject, open	*
spSchool	ts11253	3rd Abitur subject, open	*
spSchool	ts11254	4th Abitur subject, open	*
spSchool	ts11255	5th Abitur subject, open	*
spSchoolExtExam	ts11305	Other school-leaving qualification awarded	*
spSchoolExtExam	ts11324	1st Abitur subject (awarded qualification), open	*
spSchoolExtExam	ts11325	2nd Abitur subject (awarded qualification), open	*
spSchoolExtExam	ts11326	3rd Abitur subject (awarded qualification), open	*
spSchoolExtExam	ts11327	4th Abitur subject (awarded qualification), open	*
spSchoolExtExam	ts11328	5th Abitur subject (awarded qualification), open	*
spVocTrain	ts15412	Other degree (open)	*
spVocTrain	ts15458	Support during vocational training program other, open	*
CohortProfile	tx80109_g2	Sample: Federal state school	
Weights	stratum_imp2	implicit stratum 2 (federal states of institution)	
Weights	stratum_imp3	implicit stratum 3 (regional classification of institution)	
Weights	stratum_imp4	implicit stratum 4 (organizing institution)	
pEducator	e537110_g2	Place of study teaching post (Federal State)	
pEducator	e537110_g3	Place of study teaching post (administrative district)	
pEducator	e537170_g2	Place: passed the examination (Federal State)	
pEducator	e537170_g3	Place: passed the examination (administrative district)	
pParent	p751001_g2	Place of Residence (Federal State)	
pTarget	t700101_g2	Municipality of birth (federal state)	
pTarget	t751001_g2	Residential municipality (RS federal state)	
pTarget	t751011_g2	Municipality of second residence (federal state)	
pTarget	ts11202_g2	Municipality of school (federal state)	
pTarget	ts11203	School federal state	
pTarget	tx44401_g2	Place of school (federal state)	
spEmp	ts23237_g2	Location of workplace (RS federal state)	
spParentSchool	p723030_g2	Municipality of school (federal state)	
spSchool	ts11202_g2	Municipality of school (federal state)	
spSibling	p723050	State of school	
spVocPrep	ts13105_g2	Municipality of measure (RS federal state)	
spVocTrain	ts15207_g2	Municipality of training facility (RS federal state)	
spVocTrain	ts15429	Federal state in which higher education institution is located	
pCourseClass	e227400_g1	Class: Number of students total	
pCourseClass	e229400	Class: facilities: Classroom size	
pCourseGerman	ed0001h	Amount of German lessons, number	
pCourseGerman	ed0001m	Minutes per German lesson, minutes	

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)
pCourseGerman	ed0002h	Amount of remedial German lessons (number)
pCourseMath	ed00035	Remedial Math teaching lessons
pCourseMath	ed0025h	Amount of math lessons (number)
pCourseMath	ed0025m	Amount of math lesson (minutes)
pEducator	e229820	Time in occupation - overall
pEducator	e229821	Time in occupation - school
pEducator	e536020	Age profession choice
pEducator	e53702y	Year of university entrance qualification
pEducator	e53710y	First enrollment university education for teaching professions
pEducator	e537150	Year of Staatsexamen
pEducator	e76212y	Year of birth
CohortProfile	tx80505	List of children / pupils: Special educational needs target child
pParent	p727001	Recommendation secondary school or course of education, which ones?
pParent	p727002	Recommendation secondary school or course of education, further ones?
pParent	p731911	Number of employees respondent
pParent	p731961	Number of employees partner
pTarget	t731416	Number of employees respondent
pTarget	t731466	Number of employees father
Weights	tx80113	Total number of classes in the 8th grade (according to the Fed. Stat. Office)
Weights	tx80114	Total number of classes in the 8th grade (according to the Fed. Stat. Office)
pCourseClass	e190011	Class: number of students with special needs
pCourseClass	e199001	Class: number of students with special needs learning
pCourseClass	e199002	Class: number of students with special needs language
pCourseClass	e199003	Class: number of students with special needs physical/-motor development
pCourseClass	e199004	Class: number of students with special needs emotional/-social development
pCourseClass	e199005	Class: number of students with special needs mental development
pCourseClass	e199006	Class: number of students with special needs sight
pCourseClass	e199007	Class: number of students with special needs hearing
pCourseClass	e199008	Class: number of students with special needs autism
pCourseClass	e227400	Class: Number of female students
pCourseClass	e227401	Class: Number of male students
pCourseClass	e451000	Daycare institution: number of students with migration background
pCourseClass	e79201a	Class: proportion class affiliation - low class
pCourseClass	e79201b	Class: proportion class affiliation - middle class
pCourseClass	e79201c	Class: proportion class affiliation - upper class
pCourseClass	e79202a	Class: proportion of parents with a higher education degree
pEducator	e537030	Federal state higher education entrance qualification (Federal state)

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
pEducator	e537110_g4	Place of study teaching post (county, as of 2013)	
pEducator	e537170_g4	Place: passed the examination (county, as of 2013)	
pEducator	e537200	Federal state second Staatsexamen (Federal state)	
pEducator	e76212m	Month of birth	*
pInstitution	h76612m	Month of birth	*
pParent	p435030_g1	Religion and religiosity: other religious community	
pTarget	t435030_g1	Religion and religiousness: other religious community	
pTarget	t43504a_g1	Religion or denomination (specific)	
spVocTrain	ts15401	Higher education institution	
spVocTrain	ts15404_g1	Study area study subj., doctoral subj., habilitation subj. 1 (destatis 2010/11)	
spVocTrain	ts15404_g3	ISCED-97 study subject, doctoral subject, habilitation subject 1 (3-digits)	
spVocTrain	ts15404_g4	ISCED-97 study subject, doctoral subject, habilitation subject 1 (2-digits)	
pTargetMicrom			*
pTargetRegioInfas			*
pInstitutionMicrom			*
pInstitutionRegioInfas			*
pInstitution			*

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