

The logo for NEPS (National Educational Panel Study) features the acronym 'NEPS' in a bold, blue, sans-serif font. To the left of the text is a stylized orange bracket shape that partially encloses the letters.

National Educational Panel Study

Research Data

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## Anonymization Procedures

NEPS Starting Cohort 2— Kindergarten  
*From Kindergarten to Elementary School*

Scientific Use File Version 10.0.0

The logo for LifBi (Leibniz Institute for Educational Trajectories) consists of the letters 'LifBi' in a bold, black, sans-serif font. A vertical blue bar is positioned to the left of the 'i', and a vertical pink bar is positioned to the left of the 'B'.

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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) 2, version 10.0.0 (doi:10.5157/NEPS:SC2:10.0.0). 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](mailto: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](http://www.neps-data.de) > Data Center > Data and Documentation > Starting Cohort Kindergarten > 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 et al., 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 mode<sup>1</sup>, 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.

<sup>1</sup> '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).

## 2 Conducted measures

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 373 out of 5172 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 <sup>1</sup>	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

<sup>1</sup> 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
ParentMethods	px80411	Problems Contacting (open)
ParentMethods	px80413	Problems Conducting (open)

(...)

## 2 Conducted measures

**Table 2:** (continued)

file	variable	label
TargetMethods	tx80411	Problems Contacting (open)
TargetMethods	tx80413	Problems Conducting (open)
pCourseClass	ec20020	My lessons have no connection to a course, I use an open concept, specifically:
pEducator	e212819	Further training, other, text
pEducator	e212823	Group leader: further education, additional certification, text
pEducator	e21980b	Kindergarten grp leader: professional qualification, other qualification, text
pEducator	e219817	Group leader: extent of work - other, text
pEducator	ec03091	Working hours: Other text
pGroups	e217406	Other developmental disorders (open)
pInstitution	h212013	Kindergarten: participation in quality improvement measure, other measure, text)
pInstitution	h212307	Kindergarten: frequency of honorary tasks, other, text
pInstitution	h212819	Training, other, text
pInstitution	h217006	Kindergarten: number of children with other diagnosed developmental disorders, text
pInstitution	h218020	Kindergarten: collaboration with a school: other, text
pInstitution	h21905t	Kindergarten: problems with surroundings, other, text
pInstitution	h21920a	Kindergarten: diagnostic offers, other, text
pInstitution	h21920b	Kindergarten: therapeutic offers, other, text
pInstitution	h21920c	Kindergarten: offers for parents, other, text
pInstitution	h21932t	Other qualification, text
pInstitution	h21980a	Kindergarten management: professional qualification: other qualification: Text
pInstitution	h219817	Use of actual weekly working hours, other, text
pInstitution	h22802t	School: cooperation with kindergarten: other measures, text
pInstitution	h22803t	School: cooperation with secondary schools: other – text
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	h22903t	School: problems in the environment: other, text
pInstitution	h40184a	Measures for parents with migrant background open 1
pInstitution	h40185a	Measures intercultural competence open for educators (open)
pInstitution	h416110	Remedial language teaching - open
pInstitution	h417120	Migration-specific support measures - open
pInstitution	h417160	Migration-specific additional support for teachers: Open specification
pInstitution	h418012	Language remediation: individual remediation - other, open
pInstitution	h418052	Language remediation: small group remediation - other, open
pInstitution	h418092	Language remediation: whole group remediation - other, open
pInstitution	hb1006t	Execution of the speech remediation persons with other qualification, text
pInstitution	hb1015e	Other from of bilingual care

(...)

## 2 Conducted measures

**Table 2:** (continued)

file	variable	label
pInstitution	hc1007d	Remedial language teaching: other type of assistance (open)
pInstitution	hd0041b	No entry made
pParent	p19020j	Special needs OPEN
pParent	p262605	Outside activities: usage other, text
pParent	p401001	Immigration status other
pParent	p403041	Reasons for partner moving to Germany other
pParent	p524853	AD(H)D: Medications - open
pParent	p723090	Type of school (open)
pParent	p731803	Highest educational qualification 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	Professional qualification Partner (open)
pParent	pc13140	Deferral of enrollment: attendance at current facility, other
pTarget	t27111d	Student: courses outside of school: other courses: Text, where
pTarget	t27270h	Participation organization: other, open
pTarget	t400071	Other country of birth of the mother
pTarget	t400091	Other country of birth of the father
pTarget	t410001	Definition language of origin
pTarget	t435030	Another denomination
pTarget	t43505a	"Religion & religiousness: another religious community (specific)"
pTarget	tm00056	Learning materials: open
pTarget	tm00097	Changed learning opportunities during school closure - other, open
spParentGap	ps29102	other activity
spParentSchool	p723090	Type of school (open)
spParentSchool	p723210	Reason school branch switch (open)
spSibling	p723090	Type of school (open)
xParentCORONA	ph80002	Content media - digital
xParentCORONA	pm00040	Other care situation: open
xParentCORONA	pm00048	Childcare situation - open
xParentCORONA	pm00056	Learning materials: open
xParentCORONA	pm00071	Changed learning opportunities during school closure - other, open
xParentCORONA	pm00085	Learning materials - open
xParentCORONA	pm00109	Offered courses - other, open
xParentCORONA	pm00115	Learning materials, open
xParentCORONA	pm00140	Chances Future



## 2 Conducted measures

### 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 Grund-, Haupt-, Realschule
pParent	p400010_g1	Country of birth Respondent
pParent	p400010_g2	Country of birth Respondent (aggregated)
pParent	p400070_g1	Country of birth Mother respondent
pParent	p400070_g2	Country of birth Mother Respondent (aggregated)
pParent	p400090_g1	Country of birth Father respondent
pParent	p400090_g2	Country of birth Father Respondent (aggregated)
pParent	p400500_g3	Group of origin
pParent	p400500_g3v1	Group of origin
pParent	p401150_g2	Citizenship Respondent not German (aggregated)
pParent	p403010_g1	Country of birth Partner abroad
pParent	p403010_g2	Country of birth Partner (aggregated)
pParent	p403070_g1	Country of birth Mother of partner
pParent	p403070_g2	Country of birth Partner's mother (aggregated)
pParent	p403090_g1	Country of birth Partner's father
pParent	p403090_g2	Country of birth Partner's father (aggregated)
pParent	p404050_g2	Other citizenship Partner (aggregated)
pParent	p406010_g1	Country of birth of target child
pParent	p406010_g2	Country of birth of target child (aggregated)
pParent	p407050_g2	Citizenship Target child (aggregated)

(...)

## 2 Conducted measures

**Table 3:** (continued)

file	variable	label
pParent	p407060_g2	Second citizenship Target child (aggregated)
pParent	p731804_g1	Highest educational qualification Respondent abroad (country)
pParent	p731804_g2	Country of highest educational qualification Respondent (aggregated)
pParent	p731823_g1	Country of vocational qualification (additional response)
pParent	p731823_g2	Country of professional qualification (additional response, aggregated)
pParent	p731854_g1	Highest educational qualification Partner abroad (country)
pParent	p731854_g2	Highest educational qualification Partner abroad (country, aggregated)
pParent	p731873_g1	Country of vocational qualification, partner, (additional response)
pParent	p731873_g2	Country of professional qualification Partner (additional response, aggregated)
pTarget	t400000_g1	Country of birth - open
pTarget	t400000_g2	Country of birth (aggregated)
spParentSchool	p723060_g1	Country of school
spParentSchool	p723060_g2	Country of school (aggregated)
ParentMethods	px80204	Interview: interview language (realized case)
TargetMethods	tx80204	Interview: interview language (realized case)
pEducator	e41100a_g2	Mother tongue (reference 1, ISO 639.2)
pEducator	e41100a_g3	Mother tongue (reference 2, ISO 639.2)
pEducator	e41100a_g4	Mother tongue (reference 3, ISO 639.2)
pEducator	e41100a_g5	Mother tongue (reference 4, ISO 639.2)
pParent	p410000_g1	First language/mother tongue Child (ISO 639.2)
pParent	p410000_g2	First language/mother tongue Child (aggregated)
pParent	p410002_g1	Further first language/mother tongue Child (ISO 639.2)
pParent	p410002_g2	Further first language/mother tongue Child (aggregated)
pParent	p412001_g1	Interaction language Household, detailed (ISO 639.2)
pParent	p412001_g2	Interactive language household detailed (aggregated)
pParent	p413000_g1	First language/mother tongue Respondent (ISO 639.2)
pParent	p413000_g2	First language/mother tongue Respondent (aggregated)
pParent	p413002_g1	Further first language/mother tongue Respondent (ISO 639.2)
pParent	p413002_g2	Further first language/mother tongue Respondent (aggregated)

(...)

## 2 Conducted measures

**Table 3:** (continued)

file	variable	label
pParent	p414000_g1	First language/mother tongue Partner (ISO 639.2)
pParent	p414000_g2	First language/mother tongue Partner (aggregated)
pParent	p414002_g1	Further first language/mother tongue Partner (ISO 639.2)
pParent	p414002_g2	Further first language/mother tongue Partner (aggregated)
pParent	p414100_g1	First language/mother tongue New partner (ISO 639.2)
pParent	p414100_g2	First language/mother tongue New partner (aggregated)
pParent	p414102_g1	Further first language/mother tongue New partner (ISO 639.2)
pParent	p414102_g2	Further first language/mother tongue New partner (aggregated)
pTarget	t41000a_g2	Mother tongue (reference 1, ISO 639.2)
pTarget	t41000a_g3	Mother tongue (reference 2, ISO 639.2)
pTarget	t41000a_g4	Mother tongue (reference 3, ISO 639.2)
pTarget	t41000a_g5	Mother tongue (reference 4, ISO 639.2)
pParent	p401150_g1	Citizenship Respondent not German
pParent	p404050_g1	Other citizenship Partner
pParent	p407050_g1	Citizenship Target child
pParent	p407060_g1	Second citizenship Target child
pTarget	t42850x_g1	Definition Culture of origin

### 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,
- the administrative region, and
- the administrative district,

the latter two only available OnSite.

As NEPS data which has been surveyed in institutional context enjoys special focus in this matter, federal states are also 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

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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 more detailed is not directly available. If you have need to merge data using a regional key below the available level, please check out the corresponding website at:

→ [www.neps-data.de](http://www.neps-data.de) > Data Center > Overview and Assistance > Regional Data

or contact the LfBi RDC ([fdz@lifbi.de](mailto:fdz@lifbi.de)), which may deal with this matter for you.

**Table 4:** All regional variables which are only available in RemoteNEPS or OnSite.

file	variable	label
CohortProfile	tx80109_g2	Sample: Federal state school
WeightsElementarySchool	stratum_imp2	implicit stratum 2 (federal states of institution)
WeightsElementarySchool	stratum_imp3	implicit stratum 3 (regional classification of institution)
WeightsElementarySchool	stratum_imp4	implicit stratum 4 (organizing institution)
pParent	p723030_g2	Municipality of school (federal state)
pParent	p751001_g2	Place of residence (federal state)
pParent	pb11610_g2	Place of elementary school (federal state)
pTarget	t723502_g2	Location of the school (federal state)
spParentSchool	p723030_g2	Municipality of school (federal state)
spSibling	p723050	Federal state of school
CohortProfile	tx80109_g3	Sample: administrative district school
CohortProfile	tx80109_g4	Sample: district school
pParent	p723030_g3	Municipality of school (administrative district)
pParent	p723030_g4	Municipality of school (district)
pParent	p751001_g3	Place of residence (administrative district)
pParent	p751001_g4	Place of residence (district)
pParent	pb11610_g3	Location of the elementary school (administrative district)
pParent	pb11610_g4	Location of the elementary school (district)
pTarget	t723502_g3	Location of the school (administrative district)
pTarget	t723502_g4	Location of the school (district)
spParentSchool	p723030_g3	Municipality of school (administrative district)
spParentSchool	p723030_g4	Municipality of school (district)

### 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)

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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
- RegiInfas (infas geodaten) data, describing the surrounding of the targets residence
- RegiInfas 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.

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

[file] variable: label		
[CohortProfile] tx80505: List of children/students: Special educational needs Target child (aggregated)		
<b>RemoteNEPS</b>		<b>Download</b>
No special educational needs	1	No special educational needs
Special needs with focus reading	2	Special educational needs
Special needs with focus language	3	
Special needs with focus emotional and social development	4	
Special needs with focus autism	5	
Special needs with other priority	6	
unknown	7	
Special needs with focus vision	8	
Special needs with focus hearing	9	
Special needs with focus physical motoric development	10	
Special needs with focus mental development	11	
Special needs with focus learning/language	23	
Special needs with focus learning/emotional development	24	
Special needs with focus learning/autism	25	
Special needs with focus learning/other	26	
Special needs with focus language/emotional social development	34	
Special needs with focus language/others	36	
Special needs with focus emotional social development/autism	45	
Special needs with focus 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 needs with focus 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	
[pCourseClass] e227400_g1: Class: number of students, total (simplified)		
<b>RemoteNEPS</b>		<b>Download</b>
	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

(...)

## 2 Conducted measures

**Table 5:** (continued)

[file] variable: label

[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

[pCourseClass] ec0150a: Number of lessons/week: German/literacy (aggregated)

RemoteNEPS	Download
1	less than 5
2	5 to 6
3	more than 6

[pCourseClass] ec0151a: Number of lessons/week: Math (aggregated)

RemoteNEPS	Download
1	less than 5
2	5 to 6
3	more than 6

[pCourseClass] ec0152a: Number of lessons/week: General knowledge/local history and geography (aggreg.)

RemoteNEPS	Download
1	less than 2
2	2 to 3
3	more than 3

[pCourseClass] ec01530: Number of lessons/week of class in total (aggregated)

RemoteNEPS	Download
1	0 to 20
2	21
3	22
4	23
5	24
6	25 and more

(...)

## 2 Conducted measures

**Table 5:** (continued)

[file] variable: label

[pEducator] e219800: Kindergarten group leader: professional qualification (categorized)

RemoteNEPS		Download
Educator	1	educator
Childcare worker	2	other
Remedial teacher (Fachschule)	3	
Social education worker or social worker (Fachhochschule or similar qualification)	4	
Qualified educator, qualified educationalist (university or comparable qualification)	5	
Remedial teacher (Fachhochschule or similar qualification)	6	
Intern in the probationary year	7	
without completed vocational qualification	8	
other qualification, namely:	9	

[pEducator] e219820: Group leader: duration professional activity: previous facilities (categorized)

RemoteNEPS		Download
	1	0-4
	2	5-9
	3	10-14
	4	15-19
	5	20-24
	6	25-29
	7	30-34
	8	35-39
	9	40 and more

[pEducator] e219821: Group leader: duration professional activity: current facility (categorized)

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

[pEducator] e76212y: Year of birth (categorized)

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

(...)



## 2 Conducted measures

**Table 5:** (continued)

[file] variable: label

[pGroups] e219410: Kindergarten core group: room use: number of rooms (categorized)

RemoteNEPS	Download
5	5 and more

[pGroups] e219411: Kindergarten core group: room use: size of rooms (categorized)

RemoteNEPS	Download
1	0-19
2	20-29
3	30-39
4	40-49
5	50-59
6	60-69
7	70-79
8	80-89
9	90-99
10	100 and more

[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

[pParent] p731961: Number of employees Partner (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

[spChildCare] fee: Care: fees (euros, categorized)

RemoteNEPS	Download
	<b>1</b> under 50
	<b>2</b> from 50 to exclusively 100
	<b>3</b> from 100 to exclusively 150
	<b>4</b> from 150 to exclusively 200
	<b>5</b> from 200 to exclusively 250
	<b>6</b> from 250 to exclusively 300
	<b>7</b> from 300 to exclusively 350
	<b>8</b> from 350 to exclusively 400
	<b>9</b> from 400 to exclusively 450
	<b>10</b> from 450 to exclusively 500
	<b>11</b> 500 and more

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

file	variable	label
WeightsElementarySchool	tx80112	Number of students in grade 2 total (accord. to the Federal Statistical Office)
pCourseClass	e19001c	Number students with special needs
pCourseClass	e199001	Number special needs classes: learning
pCourseClass	e199002	Number special needs classes: language
pCourseClass	e199003	Number special needs classes: physical/motor development
pCourseClass	e199004	Number special needs classes: emotional/social development
pCourseClass	e199005	Number special needs classes: mental development
pCourseClass	e199006	Number special needs classes: seeing
pCourseClass	e199007	Number special needs classes: hearing
pCourseClass	e199008	Number special needs classes: autism
pCourseClass	e227400	Class: number of female students
pCourseClass	e227401	Class: number of male students
pCourseClass	e451000	Daycare: number of students with migrant background
pCourseClass	e79201a	Class: share class affiliation - lower stratum
pCourseClass	e79201b	Class: share class affiliation - middle stratum

(...)

## 2 Conducted measures

**Table 6:** (continued)

file	variable	label
pCourseClass	e79201c	Class: share class affiliation - upper stratum
pCourseClass	e79202a	Class: share parents with a higher education degree
pEducator	e536020	Age Career choice
pEducator	e53702y	Year of university entrance qualification
pEducator	e537030	Federal state higher education entrance qualification (federal state)
pEducator	e53710y	Start Teaching degree course
pEducator	e537150	Year of state examination
pEducator	e537200	Federal state second state examination (federal state)
pEducator	e76212m	Month of birth
pGroups	e217401	Kindergarten core group: girls registered
pGroups	e217402	Kindergarten core group: boys registered
pGroups	e217403	Core group: children with diagnosed speech disorders (number)
pGroups	e217404	Core group: children with diagnosed behavioral disorders (number)
pGroups	e217405	Children with other developmental disorders (number)
pGroups	e217411	Core group: year of birth 2010 or later; Number children, total
pGroups	e217412_w1	Core group: year of birth 2009 and later; Number children, total
pGroups	e217412_w2	Core group: year of birth 2009; Number children, total
pGroups	e217413	Core group: year of birth 2008; Number children, total
pGroups	e217414	Core group: year of birth 2007; Number children, total
pGroups	e217415	Core group: year of birth 2006; Number children, total
pGroups	e217416_w1	Core group: year of birth 2005; Number children, total
pGroups	e217416_w2	Core group: year of birth 2005 or earlier: Number children, total
pGroups	e217417	Core group: year of birth 2004 and earlier; Number children, total

(...)

## 2 Conducted measures

**Table 6:** (continued)

file	variable	label
pGroups	e217421	Core group: year of birth 2010 or later; Number children, attending up to 5 h
pGroups	e217422_w1	Core group: year of birth 2009 and later; Number children, attending up to 5 h
pGroups	e217422_w2	Core group: year of birth 2009; Number children, attending up to 5 hours
pGroups	e217423	Core group: year of birth 2008; Number children, attending up to 5 hours
pGroups	e217424	Core group: year of birth 2007; Number children, attending up to 5 hours
pGroups	e217425	Core group: year of birth 2006; Number children, attending up to 5 hours
pGroups	e217426_w1	Core group: year of birth 2005; Number children, attend. up to 5 hours
pGroups	e217426_w2	Core group: year of birth 2005 or earlier; Number children, attend. up to 5 h
pGroups	e217427	Core group: year of birth 2004 and earlier; Number children, attend. up to 5 h
pGroups	e217431	Core group: year of birth 2010 or later; Number children, attending 5-7 hours
pGroups	e217432_w1	Core group: year of birth 2009 and later; Number children, attending 5-7 hours
pGroups	e217432_w2	Core group: year of birth 2009; Number children, attending 5-7 hours
pGroups	e217433	Core group: year of birth 2008; Number children, attending 5-7 hours
pGroups	e217434	Core group: year of birth 2007; Number children, attending 5-7 hours
pGroups	e217435	Core group: year of birth 2006; Number children, attending 5-7 hours
pGroups	e217436_w1	Core group: year of birth 2005; Number children, attending 5-7 hours
pGroups	e217436_w2	Core group: year of birth 2005 or earlier; Number children, attending 5-7 hours
pGroups	e217437	Core group: year of birth 2004 and earlier; Number children, attending 5-7 hours
pGroups	e217441	Core group: year of birth 2010 or later; Number children, attending more than 7h

(...)

## 2 Conducted measures

Table 6: (continued)

file	variable	label
pGroups	e217442_w1	Core group: year of birth 2009 and later; Nr. children, attending over 7 h
pGroups	e217442_w2	Core group: year of birth 2009; Number children, attending over 7 hours
pGroups	e217443	Core group: year of birth 2008; Number children, attending over 7 hours
pGroups	e217444	Core group: year of birth 2007; Number children, attending over 7 hours
pGroups	e217445	Core group: year of birth 2006; Number children, attending over 7 hours
pGroups	e217446_w1	Core group: year of birth 2005; Number children, attending over 7 hours
pGroups	e217446_w2	Core group: year of birth 2005 or earlier; Nr. children, attending over 7 h
pGroups	e217447	Core group: year of birth 2004 and earlier; Nr. children, attend. over 7 h
pGroups	e217451	Core group: year of birth 2010 and later; Number children, disability
pGroups	e217452_w1	Core group: year of birth 2009 and later; Number children, disability
pGroups	e217452_w2	Core group: year of birth 2009; Number children, disability
pGroups	e217453	Core group: year of birth 2008; Number children, disability
pGroups	e217454	Core group: year of birth 2007; Number children, disability
pGroups	e217455	Core group: year of birth 2006; Number children, disability
pGroups	e217456_w1	Core group: year of birth 2005; Number children, disability
pGroups	e217456_w2	Core group: year of birth 2005 or earlier; Number children, disability
pGroups	e217457	Core group: year of birth 2004 and earlier; Number children, disability
pGroups	e401200	Number of children with another interactive language
pGroups	e45110a	Core group: year of birth 2004 and earlier; Nr. children, migrant background

(...)

## 2 Conducted measures

**Table 6:** (continued)

file	variable	label
pGroups	e45110b_w1	Core group: year of birth 2005; Number children, migrant background
pGroups	e45110b_w2	Core group: year of birth 2005 or earlier; Number children, migrant background
pGroups	e45110c	Core group: year of birth 2006; Number children, migrant background
pGroups	e45110d	Core group: year of birth 2007; Number children, migrant background
pGroups	e45110e	Core group: year of birth 2008; Number children, migrant background
pGroups	e45110f_w1	Core group: year of birth 2009 and later; Number children, migrant background
pGroups	e45110f_w2	Core group: year of birth 2009; Number children with migrant background
pGroups	e45110g	Core group: year of birth 2010 or later; Number children with migrant background
pGroups	e79101a	Group: proportion class affiliation - low class
pGroups	e79101b	Group: proportion class affiliation - middle class
pGroups	e79101c	Group: proportion class affiliation - upper class
pGroups	e79102a	Group: proportion university graduates
pGroups	eb1000a	Language skills above average age - all children
pGroups	eb1000b	Language skills above average age-thereof children with migrant background*
pGroups	eb1000c	Language skills average - all children
pGroups	eb1000d	Language skills average - portion of children with migrant background*
pGroups	eb1000e	Language skills below average - all children
pGroups	eb1000f	Language skills below average - portion of children with migrant background*
pInstitution	h76512m	Month of birth
pParent	p435030_g1	"Religion & Religiousness: other religious community"
pTarget	t400070	Country of birth of the mother
pTarget	t400090	Country of birth of the father
pTarget	t435030_g1	"Religion & Religiousness: other religious community"

(...)

## 2 Conducted measures

Table 6: (continued)

file	variable	label
pTarget	t43505a_g1	"Religion & religiousness: another religious community (specific)"
pTarget	t723400	Grade attended
xParentCORONA	pm00002	Impact: coronavirus infection - myself
xParentCORONA	pm00003	Impact: coronavirus infection - household
xParentCORONA	pm00004	Impact: coronavirus infection - relative
xParentCORONA	pm00005	Impact: coronavirus infection - friend/acquaintance
xParentCORONA	pm00006	Impact: coronavirus infection - colleague
xParentCORONA	pm00008	Impact: quarantine - myself
xParentCORONA	pm00009	Impact: quarantine - household
xParentCORONA	pm00010	Impact: quarantine - relative
xParentCORONA	pm00011	Impact: quarantine - friend/acquaintance
xParentCORONA	pm00012	Impact: quarantine - colleague

## 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 Examples

#### 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 `t731406_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 (`t731406_D`, upper left). In the Download-SUF, you find this aggregated variable unaltered (upper right). The variable `t731406_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.

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 Examples

#### 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.

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).

RemoteNEPS	Download
<pre> SC2_pParent_R_3-0-0.dta (NEPS SUF, SC2 3.0.0 (remote); doi:10.5157/NEPS:SC2:3.0.0)  p406000 -- Target child born in Germany? -----                      Freq. -----+----- Valid   -98 Don't know               1          1 Yes                    7658          2 No                      173          Total                    7832 Missing .                         3545 Total   .                        11377 ----- p406010_g1R -- Country of birth target child -----                      Freq. -----+----- Valid   -98 Don't know               1         -20 Abroad, but not codeable               1          0 germany                7658         124 belgium                  2         125 bulgaria                 5          :                            :         475 syrian arab republic               2         476 thailand                 2         479 china                    4         536 new zealand               1          Total                    7832 Missing .                         3545 Total   .                        11377 ----- </pre>	<pre> 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? -----                      Freq. -----+----- Valid   -98 Don't know               1          1 Yes                    7658          2 No                      173          Total                    7832 Missing .                         3545 Total   .                        11377 ----- p406010_g1R -- Country of birth target child -----                      Freq. -----+----- Valid   -53 Anonymized            7832 Missing .                         3545 Total   .                        11377 ----- </pre>

### 3 Examples

#### 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).

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 Examples

#### 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).

RemoteNEPS	Download																																																																																																						
<pre>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) -----</pre> <table border="1"> <thead> <tr> <th></th> <th>Freq.</th> </tr> </thead> <tbody> <tr> <td>Valid -90 Unspecific missing</td> <td>10</td> </tr> <tr> <td>-54 Missing by design</td> <td>1803</td> </tr> <tr> <td>1 Below 10</td> <td>3</td> </tr> <tr> <td>2 10 to 14</td> <td>26</td> </tr> <tr> <td>3 15 to 19</td> <td>203</td> </tr> <tr> <td>4 20 to 24</td> <td>450</td> </tr> <tr> <td>5 25 to 29</td> <td>169</td> </tr> <tr> <td>6 30 to 34</td> <td>4</td> </tr> <tr> <td>Total</td> <td>2668</td> </tr> </tbody> </table> <pre>----- e227400_g1R -- Class: number of students total -----</pre> <table border="1"> <thead> <tr> <th></th> <th>Freq.</th> </tr> </thead> <tbody> <tr> <td>Valid -90 Unspecific missing</td> <td>10</td> </tr> <tr> <td>-54 Missing by design</td> <td>1803</td> </tr> <tr> <td>8</td> <td>3</td> </tr> <tr> <td>10</td> <td>1</td> </tr> <tr> <td>11</td> <td>1</td> </tr> <tr> <td>12</td> <td>4</td> </tr> <tr> <td>13</td> <td>8</td> </tr> <tr> <td>14</td> <td>12</td> </tr> <tr> <td>15</td> <td>21</td> </tr> <tr> <td>16</td> <td>22</td> </tr> <tr> <td>17</td> <td>34</td> </tr> <tr> <td>18</td> <td>58</td> </tr> <tr> <td>19</td> <td>68</td> </tr> <tr> <td>20</td> <td>75</td> </tr> <tr> <td>21</td> <td>89</td> </tr> <tr> <td>22</td> <td>98</td> </tr> <tr> <td>23</td> <td>88</td> </tr> <tr> <td>24</td> <td>100</td> </tr> <tr> <td>25</td> <td>83</td> </tr> <tr> <td>26</td> <td>39</td> </tr> <tr> <td>27</td> <td>27</td> </tr> <tr> <td>28</td> <td>14</td> </tr> <tr> <td>29</td> <td>6</td> </tr> <tr> <td>30</td> <td>3</td> </tr> <tr> <td>31</td> <td>1</td> </tr> <tr> <td>Total</td> <td>2668</td> </tr> </tbody> </table>		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		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	<pre>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) -----</pre> <table border="1"> <thead> <tr> <th></th> <th>Freq.</th> </tr> </thead> <tbody> <tr> <td>Valid -90 Unspecific missing</td> <td>10</td> </tr> <tr> <td>-54 Missing by design</td> <td>1803</td> </tr> <tr> <td>1 Below 10</td> <td>3</td> </tr> <tr> <td>2 10 to 14</td> <td>26</td> </tr> <tr> <td>3 15 to 19</td> <td>203</td> </tr> <tr> <td>4 20 to 24</td> <td>450</td> </tr> <tr> <td>5 25 to 29</td> <td>169</td> </tr> <tr> <td>6 30 to 34</td> <td>4</td> </tr> <tr> <td>Total</td> <td>2668</td> </tr> </tbody> </table> <pre>----- e227400_g1R -- Class: number of students total -----</pre> <table border="1"> <thead> <tr> <th></th> <th>Freq.</th> </tr> </thead> <tbody> <tr> <td>Valid -54 Missing by design</td> <td>1803</td> </tr> <tr> <td>-53 Anonymized</td> <td>865</td> </tr> <tr> <td>Total</td> <td>2668</td> </tr> </tbody> </table>		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		Freq.	Valid -54 Missing by design	1803	-53 Anonymized	865	Total	2668
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# 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 Grund-, Haupt-, Realschule
pParent	p400010_g1	Country of birth Respondent
pParent	p400010_g2	Country of birth Respondent (aggregated)
pParent	p400070_g1	Country of birth Mother respondent
pParent	p400070_g2	Country of birth Mother Respondent (aggregated)
pParent	p400090_g1	Country of birth Father respondent
pParent	p400090_g2	Country of birth Father Respondent (aggregated)
pParent	p400500_g3	Group of origin
pParent	p400500_g3v1	Group of origin
pParent	p401150_g2	Citizenship Respondent not German (aggregated)
pParent	p403010_g1	Country of birth Partner abroad
pParent	p403010_g2	Country of birth Partner (aggregated)
pParent	p403070_g1	Country of birth Mother of partner
pParent	p403070_g2	Country of birth Partner's mother (aggregated)
pParent	p403090_g1	Country of birth Partner's father
pParent	p403090_g2	Country of birth Partner's father (aggregated)
pParent	p404050_g2	Other citizenship Partner (aggregated)
pParent	p406010_g1	Country of birth of target child
pParent	p406010_g2	Country of birth of target child (aggregated)
pParent	p407050_g2	Citizenship Target child (aggregated)

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)
pParent	p407060_g2	Second citizenship Target child (aggregated)
pParent	p731804_g1	Highest educational qualification Respondent abroad (country)
pParent	p731804_g2	Country of highest educational qualification Respondent (aggregated)
pParent	p731823_g1	Country of vocational qualification (additional response)
pParent	p731823_g2	Country of professional qualification (additional response, aggregated)
pParent	p731854_g1	Highest educational qualification Partner abroad (country)
pParent	p731854_g2	Highest educational qualification Partner abroad (country, aggregated)
pParent	p731873_g1	Country of vocational qualification, partner, (additional response)
pParent	p731873_g2	Country of professional qualification Partner (additional response, aggregated)
pTarget	t400000_g1	Country of birth - open
pTarget	t400000_g2	Country of birth (aggregated)
spParentSchool	p723060_g1	Country of school
spParentSchool	p723060_g2	Country of school (aggregated)
ParentMethods	px80204	Interview: interview language (realized case)
TargetMethods	tx80204	Interview: interview language (realized case)
pEducator	e41100a_g2	Mother tongue (reference 1, ISO 639.2)
pEducator	e41100a_g3	Mother tongue (reference 2, ISO 639.2)
pEducator	e41100a_g4	Mother tongue (reference 3, ISO 639.2)
pEducator	e41100a_g5	Mother tongue (reference 4, ISO 639.2)
pParent	p410000_g1	First language/mother tongue Child (ISO 639.2)
pParent	p410000_g2	First language/mother tongue Child (aggregated)
pParent	p410002_g1	Further first language/mother tongue Child (ISO 639.2)
pParent	p410002_g2	Further first language/mother tongue Child (aggregated)
pParent	p412001_g1	Interaction language Household, detailed (ISO 639.2)
pParent	p412001_g2	Interactive language household detailed (aggregated)
pParent	p413000_g1	First language/mother tongue Respondent (ISO 639.2)
pParent	p413000_g2	First language/mother tongue Respondent (aggregated)
pParent	p413002_g1	Further first language/mother tongue Respondent (ISO 639.2)
pParent	p413002_g2	Further first language/mother tongue Respondent (aggregated)
pParent	p414000_g1	First language/mother tongue Partner (ISO 639.2)
pParent	p414000_g2	First language/mother tongue Partner (aggregated)
pParent	p414002_g1	Further first language/mother tongue Partner (ISO 639.2)
pParent	p414002_g2	Further first language/mother tongue Partner (aggregated)
pParent	p414100_g1	First language/mother tongue New partner (ISO 639.2)
pParent	p414100_g2	First language/mother tongue New partner (aggregated)
pParent	p414102_g1	Further first language/mother tongue New partner (ISO 639.2)
pParent	p414102_g2	Further first language/mother tongue New partner (aggregated)
pTarget	t41000a_g2	Mother tongue (reference 1, ISO 639.2)

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
pTarget	t41000a_g3	Mother tongue (reference 2, ISO 639.2)	
pTarget	t41000a_g4	Mother tongue (reference 3, ISO 639.2)	
pTarget	t41000a_g5	Mother tongue (reference 4, ISO 639.2)	
pParent	p401150_g1	Citizenship Respondent not German	
pParent	p404050_g1	Other citizenship Partner	
pParent	p407050_g1	Citizenship Target child	
pParent	p407060_g1	Second citizenship Target child	
pTarget	t42850x_g1	Definition Culture of origin	
ParentMethods	px80411	Problems Contacting (open)	*
ParentMethods	px80413	Problems Conducting (open)	*
TargetMethods	tx80411	Problems Contacting (open)	*
TargetMethods	tx80413	Problems Conducting (open)	*
pCourseClass	ec20020	My lessons have no connection to a course, I use an open concept, specifically:	*
pEducator	e212819	Further training, other, text	*
pEducator	e212823	Group leader: further education, additional certification, text	*
pEducator	e21980b	Kindergarten grp leaqder:professional qualification,other qualification,text	*
pEducator	e219817	Group leader: extent of work - other, text	*
pEducator	ec03091	Working hours: Other text	*
pGroups	e217406	Other developmental disorders (open)	*
pInstitution	h212013	Kindergarten: participation in quality improvement measure, other measure, text)	*
pInstitution	h212307	Kindergarten: frequency of honorary tasks, other, text	*
pInstitution	h212819	Training, other, text	*
pInstitution	h217006	Kindergarten: number of children with other diagnosed developm. disorders, text	*
pInstitution	h218020	Kindergarten: collaboration with a school: other, text	*
pInstitution	h21905t	Kindergarten: problems with surroundings, other, text	*
pInstitution	h21920a	Kindergarten: diagnostic offers, other, text	*
pInstitution	h21920b	Kindergarten: therapeutic offers, other, text	*
pInstitution	h21920c	Kindergarten: offers for parents, other, text	*
pInstitution	h21932t	Other qualification, text	*
pInstitution	h21980a	Kindergarten management: professional qualification: other qualification: Text	*
pInstitution	h219817	Use of actual weekly working hours, other, text	*
pInstitution	h22802t	School: cooperation with kindergarten: other measures, text	*
pInstitution	h22803t	School: cooperation with secondary schools: other – text	*
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	h22903t	School: problems in the environment: other, text	*
pInstitution	h40184a	Measures for parents with migrant background open 1	*
pInstitution	h40185a	Measures intercultural competence open for educators (open)	*
pInstitution	h416110	Remedial language teaching - open	*

(...)



Table 7: (continued)

file	variable	label (*only available OnSite)	
pInstitution	h417120	Migration-specific support measures - open	*
pInstitution	h417160	Migration-specific additional support for teachers: Open specification	*
pInstitution	h418012	Language remediation: individual remediation - other, open	*
pInstitution	h418052	Language remediation: small group remediation - other, open	*
pInstitution	h418092	Language remediation: whole group remediation - other, open	*
pInstitution	hb1006t	Execution of the speech remediation persons with other qualification, text	*
pInstitution	hb1015e	Other from of bilingual care	*
pInstitution	hc1007d	Remedial language teaching: other type of assistance (open)	*
pInstitution	hd0041b	No entry made	*
pParent	p19020j	Special needs OPEN	*
pParent	p262605	Outside activities: usage other, text	*
pParent	p401001	Immigration status other	*
pParent	p403041	Reasons for partner moving to Germany other	*
pParent	p524853	AD(H)D: Medications - open	*
pParent	p723090	Type of school (open)	*
pParent	p731803	Highest educational qualification 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	Professional qualification Partner (open)	*
pParent	pc13140	Deferral of enrollment: attendance at current facility, other	*
pTarget	t27111d	Student: courses outside of school: other courses: Text, where	*
pTarget	t27270h	Participation organization: other, open	*
pTarget	t400071	Other country of birth of the mother	*
pTarget	t400091	Other country of birth of the father	*
pTarget	t410001	Definition language of origin	*
pTarget	t435030	Another denomination	*
pTarget	t43505a	"Religion & religiousness: another religious community (specific)"	*
pTarget	tm00056	Learning materials: open	*
pTarget	tm00097	Changed learning opportunities during school closure - other, open	*
spParentGap	ps29102	other activity	*
spParentSchool	p723090	Type of school (open)	*
spParentSchool	p723210	Reason school branch switch (open)	*
spSibling	p723090	Type of school (open)	*
xParentCORONA	ph80002	Content media - digital	*
xParentCORONA	pm00040	Other care situation: open	*
xParentCORONA	pm00048	Childcare situation - open	*
xParentCORONA	pm00056	Learning materials: open	*

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
xParentCORONA	pm00071	Changed learning opportunities during school closure - other, open	*
xParentCORONA	pm00085	Learning materials - open	*
xParentCORONA	pm00109	Offered courses - other, open	*
xParentCORONA	pm00115	Learning materials, open	*
xParentCORONA	pm00140	Chances Future	*
CohortProfile	tx80109_g2	Sample: Federal state school	
WeightsElementarySchool	stratum_imp2	implicit stratum 2 (federal states of institution)	
WeightsElementarySchool	stratum_imp3	implicit stratum 3 (regional classification of institution)	
WeightsElementarySchool	stratum_imp4	implicit stratum 4 (organizing institution)	
pParent	p723030_g2	Municipality of school (federal state)	
pParent	p751001_g2	Place of residence (federal state)	
pParent	pb11610_g2	Place of elementary school (federal state)	
pTarget	t723502_g2	Location of the school (federal state)	
spParentSchool	p723030_g2	Municipality of school (federal state)	
spSibling	p723050	Federal state of school	
CohortProfile	tx80109_g3	Sample: administrative district school	*
CohortProfile	tx80109_g4	Sample: district school	*
pParent	p723030_g3	Municipality of school (administrative district)	*
pParent	p723030_g4	Municipality of school (district)	*
pParent	p751001_g3	Place of residence (administrative district)	*
pParent	p751001_g4	Place of residence (district)	*
pParent	pb11610_g3	Location of the elementary school (administrative district)	*
pParent	pb11610_g4	Location of the elementary school (district)	*
pTarget	t723502_g3	Location of the school (administrative district)	*
pTarget	t723502_g4	Location of the school (district)	*
spParentSchool	p723030_g3	Municipality of school (administrative district)	*
spParentSchool	p723030_g4	Municipality of school (district)	*
pCourseClass	e227400_g1	Class: number of students total	
pCourseClass	e229400	Class: facilities: classroom size	
pCourseClass	ec0150a	Number of lessons hours per week: German/literacy	
pCourseClass	ec0151a	Number of lessons per week: Math	
pCourseClass	ec0152a	Number of lessons per week: General knowledge/local history and geography	
pCourseClass	ec01530	Number of lessons/week in total for the class	
pEducator	e219820	Group leader: duration of professional activity: previous facilities	
pEducator	e219821	Group leader: duration of professional activity: current facility	
pEducator	e76212y	Year of birth	
pGroups	e219410	Kindergarten core group: room use: number of rooms	
pGroups	e219411	Kindergarten core group: room use: size of rooms	
spChildCare	fee	Care: fees (euros)	
CohortProfile	tx80505	List of children/students: Special educational needs Target child	
pEducator	e219800	Kindergarten group leader: professional qualification	
pParent	p731911	Number of employees Respondent	
pParent	p731961	Number of employees Partner	

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)
WeightsElementarySchool	tx80112	Number of students in grade 2 total (accord. to the Federal Statistical Office)
pCourseClass	e19001c	Number students with special needs
pCourseClass	e199001	Number special needs classes: learning
pCourseClass	e199002	Number special needs classes: language
pCourseClass	e199003	Number special needs classes: physical/motor development
pCourseClass	e199004	Number special needs classes: emotional/social development
pCourseClass	e199005	Number special needs classes: mental development
pCourseClass	e199006	Number special needs classes: seeing
pCourseClass	e199007	Number special needs classes: hearing
pCourseClass	e199008	Number special needs classes: autism
pCourseClass	e227400	Class: number of female students
pCourseClass	e227401	Class: number of male students
pCourseClass	e451000	Daycare: number of students with migrant background
pCourseClass	e79201a	Class: share class affiliation - lower stratum
pCourseClass	e79201b	Class: share class affiliation - middle stratum
pCourseClass	e79201c	Class: share class affiliation - upper stratum
pCourseClass	e79202a	Class: share parents with a higher education degree
pEducator	e536020	Age Career choice
pEducator	e53702y	Year of university entrance qualification
pEducator	e537030	Federal state higher education entrance qualification (federal state)
pEducator	e53710y	Start Teaching degree course
pEducator	e537150	Year of state examination
pEducator	e537200	Federal state second state examination (federal state)
pEducator	e76212m	Month of birth
pGroups	e217401	Kindergarten core group: girls registered
pGroups	e217402	Kindergarten core group: boys registered
pGroups	e217403	Core group: children with diagnosed speech disorders (number)
pGroups	e217404	Core group: children with diagnosed behavioral disorders (number)
pGroups	e217405	Children with other developmental disorders (number)
pGroups	e217411	Core group: year of birth 2010 or later; Number children, total
pGroups	e217412_w1	Core group: year of birth 2009 and later; Number children, total
pGroups	e217412_w2	Core group: year of birth 2009; Number children, total
pGroups	e217413	Core group: year of birth 2008; Number children, total
pGroups	e217414	Core group: year of birth 2007; Number children, total
pGroups	e217415	Core group: year of birth 2006; Number children, total
pGroups	e217416_w1	Core group: year of birth 2005; Number children, total
pGroups	e217416_w2	Core group: year of birth 2005 or earlier: Number children, total
pGroups	e217417	Core group: year of birth 2004 and earlier; Number children, total

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)
pGroups	e217421	Core group: year of birth 2010 or later; Number children, attending up to 5 h
pGroups	e217422_w1	Core group: year of birth 2009 and later; Number children, attending up to 5 h
pGroups	e217422_w2	Core group: year of birth 2009; Number children, attending up to 5 hours
pGroups	e217423	Core group: year of birth 2008; Number children, attending up to 5 hours
pGroups	e217424	Core group: year of birth 2007; Number children, attending up to 5 hours
pGroups	e217425	Core group: year of birth 2006; Number children, attending up to 5 hours
pGroups	e217426_w1	Core group: year of birth 2005; Number children, attend. up to 5 hours
pGroups	e217426_w2	Core group: year of birth 2005 or earlier; Number children, attend. up to 5 h
pGroups	e217427	Core group: year of birth 2004 and earlier; Number children, attend. up to 5 h
pGroups	e217431	Core group: year of birth 2010 or later; Number children, attending 5-7 hours
pGroups	e217432_w1	Core group: year of birth 2009 and later; Number children, attending 5-7 hours
pGroups	e217432_w2	Core group: year of birth 2009; Number children, attending 5-7 hours
pGroups	e217433	Core group: year of birth 2008; Number children, attending 5-7 hours
pGroups	e217434	Core group: year of birth 2007; Number children, attending 5-7 hours
pGroups	e217435	Core group: year of birth 2006; Number children, attending 5-7 hours
pGroups	e217436_w1	Core group: year of birth 2005; Number children, attending 5-7 hours
pGroups	e217436_w2	Core group: year of birth 2005 or earlier; Number children, attending 5-7 hours
pGroups	e217437	Core group: year of birth 2004 and earlier; Number children, attending 5-7 hours
pGroups	e217441	Core group: year of birth 2010 or later; Number children, attending more than 7h
pGroups	e217442_w1	Core group: year of birth 2009 and later; Nr. children, attending over 7 h
pGroups	e217442_w2	Core group: year of birth 2009; Number children, attending over 7 hours
pGroups	e217443	Core group: year of birth 2008; Number children, attending over 7 hours
pGroups	e217444	Core group: year of birth 2007; Number children, attending over 7 hours
pGroups	e217445	Core group: year of birth 2006; Number children, attending over 7 hours

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)
pGroups	e217446_w1	Core group: year of birth 2005; Number children, attending over 7 hours
pGroups	e217446_w2	Core group: year of birth 2005 or earlier; Nr. children, attending over 7 h
pGroups	e217447	Core group: year of birth 2004 and earlier; Nr. children, attend. over 7 h
pGroups	e217451	Core group: year of birth 2010 and later; Number children, disability
pGroups	e217452_w1	Core group: year of birth 2009 and later; Number children, disability
pGroups	e217452_w2	Core group: year of birth 2009; Number children, disability
pGroups	e217453	Core group: year of birth 2008; Number children, disability
pGroups	e217454	Core group: year of birth 2007; Number children, disability
pGroups	e217455	Core group: year of birth 2006; Number children, disability
pGroups	e217456_w1	Core group: year of birth 2005; Number children, disability
pGroups	e217456_w2	Core group: year of birth 2005 or earlier; Number children, disability
pGroups	e217457	Core group: year of birth 2004 and earlier; Number children, disability
pGroups	e401200	Number of children with another interactive language
pGroups	e45110a	Core group: year of birth 2004 and earlier; Nr. children, migrant background
pGroups	e45110b_w1	Core group: year of birth 2005; Number children, migrant background
pGroups	e45110b_w2	Core group: year of birth 2005 or earlier; Number children, migrant background
pGroups	e45110c	Core group: year of birth 2006; Number children, migrant background
pGroups	e45110d	Core group: year of birth 2007; Number children, migrant background
pGroups	e45110e	Core group: year of birth 2008; Number children, migrant background
pGroups	e45110f_w1	Core group: year of birth 2009 and later; Number children, migrant background
pGroups	e45110f_w2	Core group: year of birth 2009; Number children with migrant background
pGroups	e45110g	Core group: year of birth 2010 or later; Number children with migrant background
pGroups	e79101a	Group: proportion class affiliation - low class
pGroups	e79101b	Group: proportion class affiliation - middle class
pGroups	e79101c	Group: proportion class affiliation - upper class
pGroups	e79102a	Group: proportion university graduates
pGroups	eb1000a	Language skills above average age - all children

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
pGroups	eb1000b	Language skills above average age-thereof children with migrant background*	
pGroups	eb1000c	Language skills average - all children	
pGroups	eb1000d	Language skills average - portion of children with migrant background*	
pGroups	eb1000e	Language skills below average - all children	
pGroups	eb1000f	Language skills below average - portion of children with migrant background*	
pInstitution	h76512m	Month of birth	*
pParent	p435030_g1	"Religion & Religiousness: other religious community"	
pTarget	t400070	Country of birth of the mother	
pTarget	t400090	Country of birth of the father	
pTarget	t435030_g1	"Religion & Religiousness: other religious community"	
pTarget	t43505a_g1	"Religion & religiousness: another religious community (specific)"	
pTarget	t723400	Grade attended	*
xParentCORONA	pm00002	Impact: coronavirus infection - myself	
xParentCORONA	pm00003	Impact: coronavirus infection - household	
xParentCORONA	pm00004	Impact: coronavirus infection - relative	
xParentCORONA	pm00005	Impact: coronavirus infection - friend/acquaintance	
xParentCORONA	pm00006	Impact: coronavirus infection - colleague	
xParentCORONA	pm00008	Impact: quarantine - myself	
xParentCORONA	pm00009	Impact: quarantine - household	
xParentCORONA	pm00010	Impact: quarantine - relative	
xParentCORONA	pm00011	Impact: quarantine - friend/acquaintance	
xParentCORONA	pm00012	Impact: quarantine - colleague	
pTargetMicrom			*
pTargetRegioInfas			*
pInstitutionMicrom			*
pInstitutionRegioInfas			*
pInstitution			

## **B** References

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