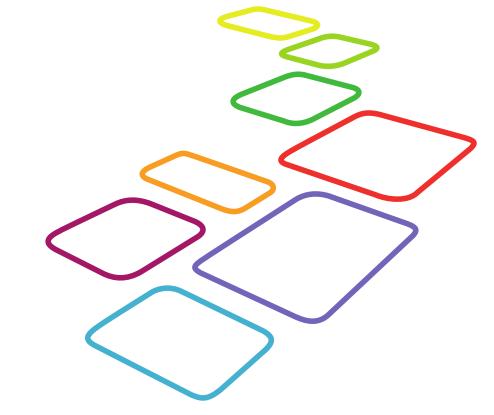
NEPS National Educational Panel Study

Starting Cohort 3: 5th Grade (SC3) SUF Version 1.0.0 Data Manual [Supplement]: Anonymisation Tobias Koberg



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Bamberg, 2012

Starting Cohort 3 of the National Educational Panel Study: Anonymisation procedures and statistical disclosure control

Technical Report

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v 1.0 October 1, 2012

Preamble

This documentation gives an exhaustive explanation of all disclosure risk minimisation techniques applied before dissemination of the Starting Cohort 3 (Paths through lower secondary school). For a quick reference what is done to the datasets in detail and on which level you will find your desired information, please skip forward to appendix A, where all affected variables are listed.

Specifications

To ensure the best possible confidentiality protection of individuals and individual micro data, the National Educational Panel Study complies with strict international standards. Operationalise those, they have been abstracted to the following two criteria:

- 1. the disseminated data has been transferred to so called *de facto anonymous data*. Identifiable information is coarsened or cut off and kept securely to minimise the risk of statistical disclosure.
- 2. 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 realisation 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.

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 NEPS 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 anonymisation routines for a subtle differentiation of information. The three resulting levels of anonymisation define as follows:

• data provided *OnSite* is generally not further anonymised. However, even those data has been 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 at the NEPS 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 anonymisation 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. Same applies to Download.

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.

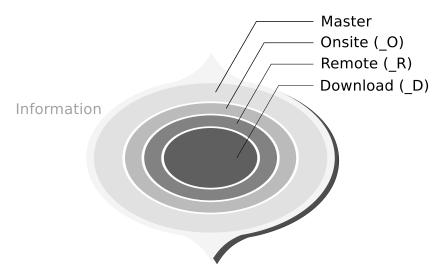


Figure 1: Onion-shaped model defining the different anonymisation levels

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

Technically, this model realizes in a single letter suffixed to dataset and variable names. All datasets available OnSite only are marked with an additional $_\mathbf{O}$, those available via RemoteNEPS with $_\mathbf{R}$ and Download files with $_\mathbf{D}$. The same procedure applies when it comes to variable differentiation. A variable which is only available OnSite has been suffixed with $_\mathbf{O}$. In RemoteNEPS-access or Download, this variable is still present but purged. If there is an alternate version (mainly with coarsened content) for RemoteNEPS (suffix $_\mathbf{R}$) or Download (suffix $_\mathbf{D}$), those can be used. As said before, these are already integrated in the OnSite version.

Conducted measures

Keeping the usability and the paradigm of information esteem in mind, only very few alterations are actually done to the dataset. These modifications always account for the fact that information may never be lost completely, but aggregated into coarse categories or variables. 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, roughly 110 variables are modified in some way – which is about ten percent of the whole dataset volume.

Please refer to appendix A for a complete overview of all variables which fell victim to anonymisation.

The following gives an explanatory overview of all measures conducted.

- **countries and languages** All information corresponding to (international) localisation, nationality or languages is only available en full *OnSite* or via *RemoteNEPS*. Variables comprised in the *Download* Scientific Use File (SUF) are aggregated into german and non-german.
- **open ended strings** All string variables containing actual text are purged in the *RemoteNEPS* version. The information remains accessible *OnSite*. However, all text entries have been reviewed by staff to ensure that absolutely no re-identificational material is included.
- institutions For starting cohort 2 to 4, special focus of anonymisation has been directed to protection of institutional data, i.e. information about kindergarten and schools, but also educators and teachers. This includes the complete datafile *xInstitution*, but also basic structural details about the kindergarten group or school class. Furthermore, personal information about educators and teachers is treated more securely. You will find detailed information about these subjects from *RemoteNEPS* onwards.
- regional Information Regional information is not available for NEPS data which has been surveyed in school context. This regards places of birth as well as work, school or residence. Only an indicator for west germany and east germany (including Berlin) is available. Please be aware that we still do offer macro indicators *OnSite* (see below).
- **number of employees** Considering self-employed persons, information about the number of salaried employees has been censored to prevent effortless identification of

large entrepreneurs. Therefore, related variables are top-coded at 20 employees. Again, this information is still present via RemoteNEPS and OnSite.

macro indicators Additional information including structural topography and macroeconomic measures has been made available only *OnSite*, also called *RegioInfas* (infas geodaten). Please refer to the separate documentation describing those datasets for further information.

Topic	OnSite	RemoteNEPS	Download
International ¹	full data	full data	collapsed
String variables	anonymised	n/a	n/a
Institutional	full data	full $data^2$	n/a
Regional (national) 3	$\operatorname{collapsed}$	collapsed	collapsed
Number of employees	full data	full data	top coded
Macro indicators	accessible	n/a	n/a

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

Table 1: Availability of sensitive data

For enquiries or further information not covered in this document please feel free to contact userservice.neps@uni-bamberg.de.

 $^{^2}$ month of birth of educators/teachers and principals/headmasters is only available OnSite

 $^{^{3}}$ national localisation is coarsened to west/east germany

A Anonymisation sheet

ountries & La						
Januares & La	data file	variable	label	On-site	RemoteNEPS	SUF-Download
	ParentMethods	px80204	Interview: interview language (realized case)			purged
	spSchool	p723060	Land of the school			purged
	xTarget		Country of birth Mother: Country of birth			country aggregation
	xTarget xTarget		Father: Country of birth			country aggregation country aggregation
	xTarget	t400220_g1	Mother's mother: Country of birth			country aggregation
	xTarget		Mother's father: Country of birth Father's mother: Country of birth			country aggregation
	xTarget xTarget		Father's father: Country of birth			country aggregation country aggregation
	xTarget	t41000a_g2	Mother tongue (1st alternative, ISO 639.2)			language aggregation
	xTarget		Mother tongue (2nd alternative, ISO 639.2)			language aggregation
	xTarget xTarget	t41000a_g4 t41000a_g5	Mother tongue (3rd alternative, ISO 639.2) Mother tongue (4th alternative, ISO 639.2)			language aggregation language aggregation
	xTarget	t41010a_g2	Mother: Mother tongue (1st alternative, ISO 639.2)			language aggregation
	xTarget xTarget	t41010a_g3 t41010a_g4	Mother: Mother tongue (2nd alternative, ISO 639.2) Mother: Mother tongue (3rd alternative, ISO 639.2)			language aggregation language aggregation
	xTarget		Mother: Mother tongue (4th alternative, ISO 639.2)			language aggregation
	xTarget	t41012a_g2	Father: Mother tongue (1st alternative, ISO 639.2)			language aggregation
	xTarget xTarget		Father: Mother tongue (2nd alternative, ISO 639.2) Father: Mother tongue (3rd alternative, ISO 639.2)			language aggregation language aggregation
	xTarget		Father: Mother tongue (4th alternative, ISO 639.2)			language aggregation
	xTarget	t410010_g2	Second language (1st alternative, ISO 639.2)			language aggregation
	xTarget xTarget	t410010_g3 t410010_g4	Second language (2nd alternative, ISO 639.2) Second language (3rd alternative, ISO 639.2)			language aggregation language aggregation
	xTarget		Second language (3rd alternative, 15O 639.2) Second language (4th alternative, ISO 639.2)			language aggregation
	xParent	p406010	Country of birth of target child			purged
	xParent	p407050	Nationality of the target child			country aggregation
	xParent xParent	p407060 p400010	Second nationality of the target child Country of birth respondent			country aggregation purged
	xParent	p400090	Country of birth father respondent			country aggregation
	xParent	p400070	Country of birth mother respondent			country aggregation
	xParent xParent	p401150 p731804	Nationality respondent not German Highest educational achievement abroad (country)	1		purged purged
	xParent	p731823	Country of vocational qualification (additional response)	1		purged
	xParent	p403010	Country of birth, partner abroad	1		purged
	xParent xParent	p403090 p403070	Country of birth of partner's father Country of birth of partner's mother	1		country aggregation country aggregation
	xParent	p404050	Other nationality partner			purged
	xParent	p731854	Partner: Highest educational certificate abroad (country)			purged
	xParent xParent	p731873 p413000	Partner: Country of vocational qualification (additional response) First language/mother tongue interviewed parent (list)	1		purged language aggregatio
	xParent	p413002	Further language/mother tongue interviewed parent (list)	1		language aggregatio
	xParent	p414000	First language/mother tongue partner (list)	1		language aggregatio
	xParent xParent		Further language/mother tongue partner (list) First language/mother tongue child (list)			language aggregation language aggregation
	xParent	p410000 p410002	Further language/mother tongue child (list)			language aggregatio
	xParent	p412001	Interactive language household detailed (list)	1		purged
	xEducator xEducator	e41100a_g2 e41100a_g3	Mother tongue (response 1, ISO 639.2) Mother tongue (response 2, ISO 639.2)			language aggregation language aggregation
	xEducator		Mother tongue (response 2, 180 639.2)			language aggregatio
	xEducator	e41100a_g5	Mother tongue (response 4, ISO 639.2)			language aggregation
ing variables			reidentificational material and anonymised where necessary)			
	spGap spSchool	ps29102 p723090	Other activity School type (open)		purged purged	
	xCourseGerman	ed0015c	Spelling knowledge- other: open		purged	
	xCourseGerman	ed0016h	Strategies- other: open		purged	
	xInstitution xInstitution	h22901t h229003	School: profile, other, text		purged	
	xinstitution	h229003 h229005	School: approach, pedagogic, text School: approach, promotion, text		purged purged	
	xInstitution	h229007	School: approach, integration, text		purged	
	xInstitution	h229009	School: approach, other, text		purged	
	xInstitution xInstitution	h227011 h227012	School: Teaching staff, number of teachers each subject, other subjects, text 1 School: Teaching staff, number of teachers each subject, other subjects, text 2		purged purged	
	xInstitution	h227013	School: Teaching staff, number of teachers each subject, other subjects, text 3		purged	
	xInstitution	h41700a	Other remedial teaching measures, other		purged	
	xInstitution xInstitution	h41704a h41702a	Teacher training sessions migration, other Parents education programs migration, other		purged purged	
	xInstitution	h22202t	Quality assurance measures, other, text		purged	
	xParent	p731803	Highest educational achievement, respondent, type open		purged	
	xParent xParent	p731814 p731817	Vocational qualification respondent (open) Type tertiary qualification, respondent (open)		purged	
	xParent	p731817	Highest educational qualification, partner, type (open)		purged purged	
	xParent	p731864	Vocational qualification partner (open)		purged	
	xParent	p731867	Type tertiary qualification partner (open)		purged	
	xParent xTarget	p26210t td0026x	Parents: Tutoring, other subject (open) favorite subject		purged purged	
	xTarget	t27111t	Courses outside school: Other courses (open)		purged	
of clase			class: amount of pupils, female	T		purged
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of class	xCourseClass	e227401	class: amount of pupils, male			purged
of class	xCourseClass xCourseClass	e227401 e227402	class: amount of pupils, special pedagogoc remedial teaching requirement			purged purged
of class	xCourseClass	e227401 e227402 e451000 e79201a	class: amount of pupils, special pedagogoc remedial teaching requirement Number of students with a migration background in your class. Percentage of students from lower social classes			purged
of class	xCourseClass xCourseClass xCourseClass xCourseClass xCourseClass	e227401 e227402 e451000 e79201a e79201b	class: amount of pupils, special pedagogoc remedial teaching requirement Number of students with a migration background in your class. Percentage of students from lower social classes Percentage of students from middle social classes			purged purged purged purged purged
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