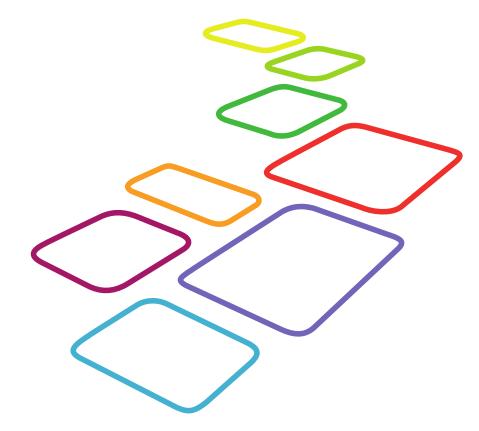


Starting Cohort 4: 9th Grade (SC4) SUF Version 1.0.0 Data Manual [Supplement]: Anonymisation *Tobias Koberg*





Federal Ministry of Education and Research



Copyrighted Material University of Bamberg, National Educational Panel Study (NEPS), 96045 Bamberg https://www.neps-data.de Principal Investigator: Prof. Dr. Hans-Günther Roßbach Vice Managing Director: Prof. Dr. Sabine Weinert Executive Director of Research: Dr. Jutta von Maurice Executive Director of Administration: Dipl. sc. pol. Univ. Dipl.-Betriebswirt (FH) Gerd Bolz Bamberg, 2012

Starting Cohort 4 of the National Educational Panel Study: Anonymisation procedures and statistical disclosure control

Technical Report

Tobias Koberg

National Educational Panel Study University of Bamberg

v1.0 October 26, 2012

Preamble

This documentation gives an exhaustive explanation of all disclosure risk minimisation techniques applied before dissemination of the Starting Cohort 4 (School and Vocational Training). 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.

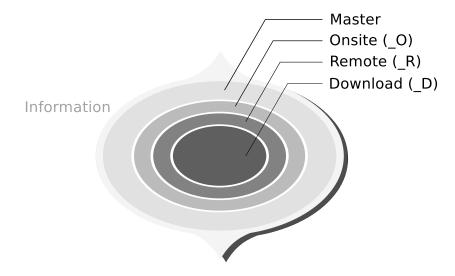


Figure 1: Onion-shaped model defining the different anonymisation levels

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 $_O$, 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 only available OnSite has been suffixed with $_O$. 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 $_R$) or *Download* (suffix $_D$), 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 120 variables are modified in some way – which is about six 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	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)

² month of birth of educators/teachers and principals/headmasters is only available *OnSite*

 3 national localisation is coarsened to west/east germany

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.

A Anonymisation sheet

 Instrument

 Name
 Starling Cohort 9th grade (SC4), Version 1-0-0

 Stage
 4

 Study type
 Main survey

 Study type
 Main survey

 Study type
 Scientific Use File

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			variable	label	On-site	RemoteNEPS	SUF-Download
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		xTarget	t400000_g1	Country of birth			country aggregation
		xTarget	t400090_g1	Father: Country of birth			
			t400220_g1 t400240 g1	Mother's mother: Country of birth Mother's father: Country of birth			
		xTarget	t400260_g1	Father's mother: Country of birth			country aggregation
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			t41010a_g4				
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Image: Control		xParent	p731804	Highest educational achievement abroad (country)			purged
Invest Interpretation Construction			p731823	Country of vocational qualification (additional response)			purged
Implicit propertion propertion propertion Implicit propertion		xParent	p403090	Country of partner's father			country aggregation
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