Nigeria - Service Delivery Indicators Education Survey 2013 - Harmonized Public Use Data

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Overview

Identification

ID NUMBER
NGA_2013_SDI-E_v01_M_v02_A_PUF

Version

VERSION DESCRIPTION
v02, harmonized and anonymized data for public distribution.

Module 3 (School Management/Finances) was added to the collection. It is important to note that module 3's variables were not harmonized to a common standard. Given different educational (and administrative) structures in each SDI country, questions for module 3 are uniquely designed according to the country's interests and context. Nonetheless, the dataset was still subject to a thorough anonymization process like the rest of the datasets added to the collection.

NOTES
Compared to v01, v02 changes include:

1. Data reorganized by the unit of analysis (school, teacher, pupil).

2. New round of data cleaning, including: renaming and relabeling variables, fixing incorrect category values, fixing incorrect value labels, adding variables from original datasets absent in the previous version, converting variables into proper variable type, deleting analysis/supervision variables, fixing and recategorizing missing observations, reordering variables to reflect instrument structure.

3. Addition of anonymized variables from module 3. Module 3 was not initially included in the previous version as the context-related uniqueness of school financial information collected in each country does not allow for harmonization.

4. New round of data harmonization (with the exception of module 3) and anonymization. For more details on the anonymization process, please refer to the Anonymization Protocol included as part of this collection's documentation.

Overview

ABSTRACT
The Service Delivery Indicators (SDI) are a set of health and education indicators that examine the effort and ability of staff and the availability of key inputs and resources that contribute to a functioning school or health facility. The indicators are standardized allowing comparison between and within countries over time.

The Education SDIs include teacher effort, teacher knowledge and ability, and the availability of key inputs (for example, textbooks, basic teaching equipment, and infrastructure such as blackboards and toilets). The indicators provide a snapshot of the learning environment and the key resources necessary for students to learn.

Nigeria Service Delivery Indicators Education Survey was implemented in 2013 by the World Bank and the Research Triangle Institute International. The survey implementation was preceded by consultations with stakeholders in Nigeria to adapt instruments to the country context while maintaining comparability across countries. In addition, the implementation was done with close collaboration with the Universal Basic Education Commission, and in close coordination with the relevant state authorities (i.e. State Ministries of Education, and the State Universal Education Boards where they existed). Data was collected from primary schools in four states (Anambra, Bauchi, Ekiti, and Niger) using personal interviews and provider assessments. A total of 760 randomly selected public and private schools (190 per state) were surveyed, with 2,435 and 5,754 teachers assessed for knowledge and effort respectively. The sample was selected to make the survey representative at the State level, allowing for disaggregation by provider type (private/public) and location (rural/urban).

KIND OF DATA

Sample survey data [ssd]

UNITS OF ANALYSIS
Schools, teachers, students.

Scope

NOTES
The core Education Service Delivery Indicators are:

1) Teacher Effort:

- School absence rate

- Classroom absence rate

- Time spent teaching per day

2) Teacher Knowledge and Ability:

- Minimum knowledge among teachers

3) Availability of Inputs:

- Infrastructure availability

- Equipment availability

- Share of pupils with textbooks

- Observed pupil-teacher ratio

The survey also tests grade 4 pupils on mathematics, linguistics and non-verbal reasoning. Additionally, direct observations are made to assess firsthand classroom conditions as well as school inputs and infrastructure that teachers and students have readily available.

SDI instruments also include modules on school's finances and staff/teacher rosters that include their qualifications and demographic information.

Coverage

GEOGRAPHIC COVERAGE
Four states: Anambra, Bauchi, Ekiti, and Niger.

UNIVERSE
All primary schools.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Obert Pimhidzai	The World Bank

OTHER PRODUCER(S)

Name	Affiliation	Role
Safaa Amer	Research Triangle Institute International	Team leader

FUNDING

Name	Abbreviation	Role
European Union		
William and Flora Hewlett Foundation		

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Development Data Group	DECDG	World Bank	Documentation of the Study

DATE OF METADATA PRODUCTION
2021-03-02

DDI DOCUMENT VERSION
Version 2 (February 2021).

This version differs from the original version as it includes:

1. Data reorganized by unit of analysis (school, teacher, pupil, time-on-task).

2. New round of data cleaning.

3. New round of data harmonization and anonymization.

4. Addition of anonymized variables from module 3 on School Management/Finances.

The metadata and documentation included in this version reflect and explain these changes.

DDI DOCUMENT ID
DDI_NGA_2013_SDI-E_v01_M_v02_A_PUF_WB

Sampling

Sampling Procedure

The sampling strategy was designed aiming to produce state representative estimates and estimating a proportion with an absolute error of three percentage points for a variable proportion of 0.5 (i.e., has highest variance) with 95 percent degree of confidence per state (equal number used for state).

The strata were constructed according to ownership, urban/rural, and socioeconomic poverty status. The allocation was made in proportion to size for each sub-stratum within public and private. Within strata, simple random sampling was used. Finally, replacement schools were preselected, with a predetermined replacement order within strata.

A total of 190 schools were sampled from each of the four states (Anambra, Bauchi, Ekiti, and Niger).

The target population is all public primary-level school children. Since parts of the school questionnaire were administered to teachers and pupils at the grade four level, all public schools with at least one grade four class formed the sampling frame. The sample frame was created using the list of public schools from UBEC (Universal Basic Education Commission) and private schools from states.

Deviations from Sample Design

None.

Weighting

SDI survey estimates must be properly weighted using a sampling weight or expansion factor to estimate representativeness of the population of interest.

School, teacher, and pupil-level sampling weights are stored in the "NGA_2013_EDU_Weights.dta" file.

Questionnaires

Overview

The SDI Education Survey Questionnaire consists of six modules:

Module 1: School Information - Administered to the head of the school to collect information on school type, facilities, school governance, pupil numbers, and school hours. It includes direct observations of school infrastructure by enumerators.

Module 2a: Teacher Absence and Information - Administered to the headteacher and individual teachers to obtain a list of all schoolteachers, to measure teacher absence and to collect information on teacher characteristics (this module was not included in this dataset).

Module 2b: Teacher Absence and Information - Unannounced visit to the school to assess absence rate.

Module 3: School Finances - Administered to the headteacher to collect information on school finances (this data is unharmonized).

Module 4: Classroom Observation - An observation module to assess teaching activities and classroom conditions.

Module 5: Pupil Assessment - A test of pupils to have a measure of pupil learning outcomes in mathematics and language in grade four.

Module 6: Teacher Assessment - A test of teachers covering mathematics and language subject knowledge and teaching skills.

Data Collection

Data Collection Dates

Start	**End**	**Cycle**
2013-07-01	2014-01-31	N/A

Time Periods

Start	**End**	**Cycle**
2013	2013	N/A

Data Collection Mode

Face-to-face [f2f]

Questionnaires

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Data Collectors

Name	Abbreviation	Affiliation
Research Triangle Institute International	RTI	

Data Processing

Data Editing

Data entry was done using CSPro; quality control was performed in Stata.

Other Processing

Datasets have been cleaned, anonymized, and harmonized using Stata.

For some variables and observations, missings were recoded and/or distinctly labeled as:
Skips: "-999", or ".a"
Don't Know: "999", "99", or ".b"
Confidential Information (Anonymized): "Confidential", or ".c "
Not Available: ".n"

Data Appraisal

No content available

Documentation

Questionnaires

Nigeria Service Delivery Indicators Education Survey Questionnaire

Title	Nigeria Service Delivery Indicators Education Survey Questionnaire
Date	2013
Country	Nigeria
Language	English
Filename	nga_sdi_educ_2013_mask.pdf

Reports

Education Service Delivery in Nigeria: Results of 2013 Service Delivery Indicator Survey

Title	Education Service Delivery in Nigeria: Results of 2013 Service Delivery Indicator Survey
Country	Nigeria
Language	English
Filename	nigeria_sdi_education_report_2015_10_10_final.pdf

Technical documents

Codebook and Harmonization Information - Pupil Level

Title	Codebook and Harmonization Information - Pupil Level
Country	Nigeria
Language	English
Filename	harmonized_variables_pupil_level_.xlsx

Codebook and Harmonization Information - School Level

Title	Codebook and Harmonization Information - School Level
Country	Nigeria
Language	English
Filename	harmonized_variables_school_level_.xlsx

Codebook and Harmonization Information - Teacher Level

Title	Codebook and Harmonization Information - Teacher Level
Country	Nigeria
Language	English
Filename	harmonized_variables_teacher_level_.xlsx

Codebook and Harmonization Information - Time Spent on Task

Title   Codebook and Harmonization Information - Time Spent on Task
Country   Nigeria
Language   English
Filename   harmonized_variables_time_on_task_.xlsx

SDI Education datasets: Anonymization Protocol

Title   SDI Education datasets: Anonymization Protocol
Country   Nigeria
Language   English
Filename   nga_sdi_edu_2013_anonymization_protocol_final_.pdf