

Nigeria - National Water Supply And Sanitation Baseline Survey-2006, First Round

Federal Ministry of Water Resources(FMWR) - Federal Government of Nigeria(FGN)

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Overview

Identification

ID NUMBER

NGA-FMWR-NWSASB-2006-v1.1

Version

VERSION DESCRIPTION

version 1.1(October, 2009)

PRODUCTION DATE

2009-10-19

Overview

ABSTRACT

The main objective of this assignment is to document the proportion of Nigerians that have access to safe water and sanitation facilities and those who otherwise, do not have, according to the following definitions:

- i. Access to Water Supply: The availability of at least 20litres per person per day of improved water supply from a source within 250 metres of user's dwelling.
- ii. Access to Sanitation: Sanitation can be defined as the availability of improved disposal facilities of human wastes that can effectively prevent human, animal and insect contact with the human wastes.
- iii. Improved Water Supply: The following technologies are included in the assessment as representing improved water supply: a) Household Connections, b) Public standpipes, Borehole, Protected dug Well, Protected Spring, and Rainwater harvesting.
- iv. Not- Improved Water Supply: The following technologies are considered "not improved": a) Unprotected well, b) Unprotected spring, Vendor-provided water, c) Bottled water, Tanker truck-provided water, d) streams and ponds.
- v. Improved Sanitation: The following technologies are considered "improved", a) Connection to a public sewer, b) Connection to septic system, c) Pour-flush latrine, d) Simple pit latrine* e) Sanplat*, f) Ventilated improved pit latrine.
- vi. Not-Improved Sanitation: The following technologies are considered "not improved": a) Service or bucket latrines (where excreta are manually removed), b) Latrines with an open pit, c) defecation in

KIND OF DATA

Sample survey data [ssd]

UNITS OF ANALYSIS

State and Lga analysis

Scope

NOTES

The surveys are to be carried out in all settlements that should be properly classified as:

Rural Areas are settlements with a populatioin of less than 5000 people

Small Towns are settlements with a populatioin between 5000 and 20,000 people

Urban Areas and Towns with a populatioin more than 20,000 people

State Capitals political capitals of the 36 States and FCT in Nigeria

Form 01 (Water Supply Facility Survey): To capture the location, attributes, and operational status of water supply facilities.

Form 02 (Water Supply Agency Operational Survey): To collect data on the profile of water agencies in the state, in terms of production assets, capacity utilization, manpower; and financial sustainability.

Form 03 (Sanitation Facility Survey): To capture the location, types and conditions of sanitation facilities.

Form 04 (Water Related Diseases Survey): To collect data on reported cases of water related diseases from health institutions.

Form 05 (Household Survey): To capture data on the proportion of households that have access to safe drinking water and sanitation facilities and prevalence of water related diseases in each community

TOPICS

Topic	Vocabulary	URI
general health [8.4]	CESSDA	http://www.nesstar.org/rdf/common
specific diseases and medical conditions [8.9]	CESSDA	http://www.nesstar.org/rdf/common

Coverage

GEOGRAPHIC COVERAGE (1)

National

GEOGRAPHIC COVERAGE (2)

Zone

GEOGRAPHIC COVERAGE (3)

State

GEOGRAPHIC COVERAGE (4)

Lga

UNIVERSE

Households in all the 8,800 Political Wards,a total of twenty-two (22) houses for the ward

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Federal Ministry of Water Resources(FMWR)	Federal Government of Nigeria(FGN)

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
National Bureau of Statistics (NBS)	Federal Government of Nigeria (FGN)	Metadata documentation

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Federal Ministry of Water Resources	FMWR	Federal Government of Nigeria (FGN)	Documentation of Study

DATE OF METADATA PRODUCTION

2009-10-19

DDI DOCUMENT VERSION

Version 1.1(October, 2009)

DDI DOCUMENT ID

DDI-NGA-FMWR-NWSASB-2006-v1.1

Sampling

Sampling Procedure

Households in all the 8,800 Political Wards spread across the 774 LGAs in 36 states and FCT will be surveyed. The Baseline Consultants shall administer survey questionnaires to take stock of sources of drinkable water, the volume/cost of water consumption; the sanitation facility and occurrences of water related diseases in household surveyed.

SELECTION OF LOCATION AND HOUSEHOLDS

The Baseline Consultants shall sensitize members of the community through the councillors and other recognized leaders about the exercise to forestall any suspicion or misconception about the survey. Baseline supervisors shall document the survey process in each community by stating the names of councillors, community leaders met, list of all communities identified in each political ward and the ones selected for survey, without forgetting to state all the problems encountered in the survey process.

A typical Nigerian settlement, regardless of its population is either a multi community ward or a multi ward community. But in either case, the Baseline Consultants should ensure that the selection of the households take into cognisance the geographical spread and socio-economic variance of the ward. It should be noted that in every ward, the selected houses shall be enumerated through a transect walk and the first sampling element, which shall be the first house on the right or left, will determine the subsequent ones to be selected.

MULTI COMMUNITY WARD

The Baseline Consultants shall go through the list of all communities or villages in each ward out of which two (2) shall be randomly selected. Starting with the first community, a minimum of eleven (11) houses shall be systematically selected from the listed households, after determining the sample interval. The sampling interval for the community shall be determined by dividing the total number of houses in it by eleven (11). This process shall be repeated for the second community to arrive at a total of twenty-two (22) houses for the ward.

MULTI WARD COMMUNITY

The Baseline Consultants shall go through the list of streets, quarters, discrete areas, housing estates, or haphazardly located homes with no identifiable streets in the ward, where a random sample of 22 houses shall be systematically selected.

However, where there are no streets, the Baseline Consultants shall demarcate the ward into appropriate blocks and select two blocks randomly. The houses in each block shall be listed and eleven (11) houses systematically selected.

Deviations from Sample Design

No deviations

Response Rate

Unable to calculate the response rate because the report was not accessible as at the time of archiving

Weighting

The data has been weighted but the variable used was not in the data set
Note that the data set are not raw data.

Questionnaires

Overview

The data collection forms are:

1. Form 01 (Water Supply Facility Survey): To capture the location, attributes, and operational status of water supply facilities.
2. Form 02 (Water Supply Agency Operational Survey): To collect data on the profile of water agencies in the state, in terms of production assets, capacity utilization, manpower; and financial sustainability.
3. Form 03 (Sanitation Facility Survey): To capture the location, types and conditions of sanitation facilities.
4. Form 04 (Water Related Diseases Survey): To collect data on reported cases of water related diseases from health institutions.
5. Form 05 (Household Survey): To capture data on the proportion of households that have access to safe drinking water and sanitation facilities and prevalence of water related diseases in each community.

Data Collection

Data Collection Mode

Face-to-face [f2f]

DATA COLLECTION NOTES

The Baseline Consultants shall use five forms to capture all the relevant data on water supply and sanitation and the water related diseases. While the administrators are using the questionnaires to extract data from the respondents, the GIS field officer will be geo-referencing the locations of water and sanitation facilities by reading the coordinates of such locations with hand held GPS instrument of any brand or make with 3 - 5 meters precision.

The recommended GIS software for this project is ArcView or ArcGIS and the digital maps must be in ArcView readable and JPEG format. Project files will be created for states, layouts and view for LGA. The symbols and colour codes to be used to represent promoters of water supply and sanitation facilities .e.g. well, boreholes and water plants on the map shall be as follows:

SUPERVISION

The database software recommended is MS Access 2000. The MIS Consultants have developed an application software, which has an MS Access database and data entry forms (interfaces) that are very similar to the five questionnaires, which will be used by the Baseline Consultants to capture all the data on the administered questionnaires.

The Baseline Consultants shall submit field data and maps (field returns) on CDs in MS Access and ArcView respectively. These data shall then be processed, analyzed and upsized to Oracle format to produce the National Water Supply and Sanitation Database by the MIS Consultant.

Data Processing

Data Editing

The report was not accessible as at the time of archiving

Other Processing

The report was not accessible as at the time of archiving

Data Appraisal

Estimates of Sampling Error

The report was not accessible as at the time of archiving

Other forms of Data Appraisal

The report was not accessible as at the time of archiving

File Description

Variable List

Water supply sanitation

Content	The file contains data relating to water supply sanitation
Cases	44
Variable(s)	11
Structure	Type: relational Keys: V2(State)
Version	Verson 1.1
Producer	Fedral Ministry of Water Resources
Missing Data	All missing data were * asterisk.

Variables

ID	Name	Label	Type	Format	Question
V151	V1	Zonal group	discrete	character	
V152	V2	State	discrete	character	State
V153	V3	Population 2006	contin	numeric	
V154	V4	Total estimated water demand	contin	numeric	
V155	V5	Installed capacity (m3/d)	contin	numeric	
V156	V6	Current output (m3/d)	contin	numeric	
V157	V7	% access to water	contin	numeric	
V158	V8	Population access to water	contin	numeric	
V159	V9	% access to sanitation	contin	numeric	
V160	V10	Population access to sanitation	contin	numeric	
V161	V11	% of national population	contin	numeric	

Water supply sanitation_rural

Content	The file contains data relating to water supply sanitation
Cases	44
Variable(s)	11
Structure	Type: relational Keys: V2(State)
Version	Verson 1.1
Producer	Fedral Ministry of Water Resources
Missing Data	All missing data were * asterisk.

Variables

ID	Name	Label	Type	Format	Question
V162	V1	Zonal group	discrete	character	
V163	V2	State	discrete	character	State
V164	V3	Population 2006	contin	numeric	
V165	V4	Total estimated water demand	contin	numeric	
V166	V5	Installed capacity (m3/d)	contin	numeric	
V167	V6	Current output (m3/d)	contin	numeric	
V168	V7	% access to water	contin	numeric	
V169	V8	Population access to water	contin	numeric	
V170	V9	% access to sanitation	contin	numeric	
V171	V10	Population access to sanitation	contin	numeric	
V172	V11	% of national population	contin	numeric	

Water supply sanitation_small town

Content	The file contains data relating to water supply sanitation
Cases	44
Variable(s)	11
Structure	Type: relational Keys: V2(State)
Version	Verson 1.1
Producer	Fedral Ministry of Water Resources
Missing Data	All missing data were * asterisk.

Variables

ID	Name	Label	Type	Format	Question
V173	V1	Zonal group	discrete	character	
V174	V2	State	discrete	character	State
V175	V3	Population 2006	contin	numeric	
V176	V4	Total estimated water demand	contin	numeric	
V177	V5	Installed capacity (m3/d)	contin	numeric	
V178	V6	Current output (m3/d)	contin	numeric	
V179	V7	% access to water	contin	numeric	
V180	V8	Population access to water	contin	numeric	
V181	V9	% access to sanitation	contin	numeric	
V182	V10	Population access to sanitation	contin	numeric	
V183	V11	% of national population	contin	numeric	

Water supply sanitation- urban

Content	The file contains data relating to water supply sanitation
Cases	44
Variable(s)	10
Structure	Type: relational Keys: V2(State)
Version	Verson 1.1
Producer	Fedral Ministry of Water Resources
Missing Data	All missing data were * asterisk.

Variables

ID	Name	Label	Type	Format	Question
V184	V1	Zonal group	discrete	character	
V185	V2	State	discrete	character	State
V186	V3	Population 2006	contin	numeric	
V187	V4	Total estimated water demand	contin	numeric	
V188	V5	Installed capacity (m3/d)	contin	numeric	
V189	V6	Current output (m3/d)	contin	numeric	
V190	V7	% access to water	contin	numeric	
V191	V8	Population access to water	contin	numeric	
V192	V9	% access to sanitation	contin	numeric	
V193	V10	Population access to sanitation	contin	numeric	

Related Disease by state

Content	The file contains data relating to water supply sanitation
Cases	38
Variable(s)	18
Structure	Type: relational Keys: V1(Zonal Group), V2(State)
Version	Verson 1.1
Producer	Fedral Ministry of Water Resources
Missing Data	All missing data were * asterisk.

Variables

ID	Name	Label	Type	Format	Question
V101	V1	Zonal Group	discrete	character	
V102	V2	State	discrete	character	State
V103	V3	Diarrhoea	contin	numeric	Diarrhea1.Yes or No
V104	V4	G/ Worm	contin	numeric	Guinea worm.....Yes or No
V105	V5	Dysentery	contin	numeric	Dysentery.....Yes or No
V106	V6	Typhoid Fever	contin	numeric	Typhoid Fever.....Yes or No
V107	V7	Malaria	contin	numeric	Malaria.....Yes or No
V108	V8	Schistosomiasis	contin	numeric	Schistosomiasis.....Yes or No
V109	V9	Blood In Urine	contin	numeric	Blood In Urine.....Yes or No
V110	V10	Scabies	contin	numeric	Scabies.....Yes or No
V111	V11	R/ Worm	contin	numeric	Ring worm.....Yes or No
V112	V12	Cholera	contin	numeric	Cholera.....Yes or No
V113	V13	Trachoma	contin	numeric	Trachoma.....Yes or No
V114	V14	Hepatitis/B	contin	numeric	Hepatitis B.....Yes or No
V115	V15	Streptococci	contin	numeric	Streptococci.....Yes or No
V116	V16	Onchocerciasis	contin	numeric	Onchocerciasis.....Yes or No
V117	V17	Other	contin	numeric	Other water related diseases (specify)Yes or No
V118	V18	Total	contin	numeric	

Zonal group (V1)

File: Water supply sanitation

Overview

Type: Discrete
 Format: character
 Width: 15
 Invalid: Ú(,‰

Valid cases: 44
 Invalid: 0

State (V2)

File: Water supply sanitation

Overview

Type: Discrete
 Format: character
 Width: 15
 Invalid: Ú(,‰

Valid cases: 44
 Invalid: 0

Literal question

State

Population 2006 (V3)

File: Water supply sanitation

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 1405201-140003542

Valid cases: 44
 Invalid: 0
 Minimum: 1405201
 Maximum: 140003542
 Mean: 9545696
 Standard deviation: 21430932.1

Total estimated water demand (V4)

File: Water supply sanitation

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 50099-5173250.88

Valid cases: 44
 Invalid: 0
 Minimum: 50099
 Maximum: 5173250.9
 Mean: 352721.7
 Standard deviation: 794894.2

Installed capacity (m3/d) (V5)

File: Water supply sanitation

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 21679.5-6487013.53

Valid cases: 44
 Invalid: 0
 Minimum: 21679.5
 Maximum: 6487013.5
 Mean: 442296.4
 Standard deviation: 1023290.4

Current output (m3/d) (V6)

File: Water supply sanitation

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 5159.7-2597516.19

Valid cases: 44
 Invalid: 0
 Minimum: 5159.7
 Maximum: 2597516.2
 Mean: 177103.4
 Standard deviation: 419694.4

% access to water (V7)

File: Water supply sanitation

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 4.56-78.4

Valid cases: 44
 Invalid: 0
 Minimum: 4.6
 Maximum: 78.4
 Mean: 49.6
 Standard deviation: 17.2

Population access to water (V8)

File: Water supply sanitation

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 168583.154-69736288.7

Valid cases: 44
 Invalid: 0
 Minimum: 168583.2
 Maximum: 69736288.7
 Mean: 4754747
 Standard deviation: 10709972.2

% access to sanitation (V9)

File: Water supply sanitation

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 13-98.5

Valid cases: 44
 Invalid: 0
 Minimum: 13
 Maximum: 98.5
 Mean: 56.6
 Standard deviation: 19.7

Population access to sanitation (V10)

File: Water supply sanitation

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 221436.54-86364981.9

Valid cases: 44
 Invalid: 0
 Minimum: 221436.5
 Maximum: 86364981.9
 Mean: 5888521.5
 Standard deviation: 13431791.8

% of national population (V11)

File: Water supply sanitation

Overview

Type: Continuous
Format: numeric
Width: 10
Decimals: 2
Range: 11.7009389-25.5614561

Valid cases: 6
Invalid: 38
Minimum: 11.7
Maximum: 25.6
Mean: 16.7
Standard deviation: 5.1

Zonal group (V1)

File: Water supply sanitation_rural

Overview

Type: Discrete
 Format: character
 Width: 15
 Invalid: kl(,‰

Valid cases: 44
 Invalid: 0

State (V2)

File: Water supply sanitation_rural

Overview

Type: Discrete
 Format: character
 Width: 15
 Invalid: kl(,‰

Valid cases: 44
 Invalid: 0

Literal question

State

Population 2006 (V3)

File: Water supply sanitation_rural

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 82979-67054562

Valid cases: 44
 Invalid: 0
 Minimum: 82979
 Maximum: 67054562
 Mean: 4571902
 Standard deviation: 10449504.6

Total estimated water demand (V4)

File: Water supply sanitation_rural

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 2489-1352573.72

Valid cases: 44
 Invalid: 0
 Minimum: 2489
 Maximum: 1352573.7
 Mean: 92220.9
 Standard deviation: 210238.1

Installed capacity (m3/d) (V5)

File: Water supply sanitation_rural

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 1536-1099329.8

Valid cases: 38
 Invalid: 6
 Minimum: 1536
 Maximum: 1099329.8
 Mean: 86789.2
 Standard deviation: 188345.4

Current output (m3/d) (V6)

File: Water supply sanitation_rural

Overview

Type: Continuous	Valid cases: 43
Format: numeric	Invalid: 1
Width: 10	Minimum: 897
Decimals: 2	Maximum: 360870.3
Range: 897-360870.3	Mean: 25177
	Standard deviation: 59680.4

% access to water (V7)

File: Water supply sanitation_rural

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 2.6
Decimals: 2	Maximum: 100
Range: 2.59-100	Mean: 44.8
	Standard deviation: 18.7

Population access to water (V8)

File: Water supply sanitation_rural

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 20744.8
Decimals: 2	Maximum: 28304544.1
Range: 20744.75-28304544.1	Mean: 1929855.3
	Standard deviation: 4355803

% access to sanitation (V9)

File: Water supply sanitation_rural

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 10.5
Decimals: 2	Maximum: 93.1
Range: 10.51-93.05	Mean: 47
	Standard deviation: 23

Population access to sanitation (V10)

File: Water supply sanitation_rural

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 66595.2
Decimals: 2	Maximum: 33855696.7
Range: 66595.165-33855696.7	Mean: 2308343
	Standard deviation: 5473160.1

% of national population (V11)

File: Water supply sanitation_rural

Overview

Type: Continuous

Format: numeric

Width: 10

Decimals: 2

Range: 5.02372381-33.1262785

Valid cases: 6

Invalid: 38

Minimum: 5

Maximum: 33.1

Mean: 16.7

Standard deviation: 9.5

Zonal group (V1)

File: Water supply sanitation_small town

Overview

Type: Discrete
 Format: character
 Width: 15
 Invalid: kÚ(,‰

Valid cases: 44
 Invalid: 0

State (V2)

File: Water supply sanitation_small town

Overview

Type: Discrete
 Format: character
 Width: 15
 Invalid: kÚ(,‰

Valid cases: 44
 Invalid: 0

Literal question

State

Population 2006 (V3)

File: Water supply sanitation_small town

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 192662-26030900

Valid cases: 44
 Invalid: 0
 Minimum: 192662
 Maximum: 26030900
 Mean: 1774834.1
 Standard deviation: 3993583.4

Total estimated water demand (V4)

File: Water supply sanitation_small town

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 4521.3-911063.78

Valid cases: 44
 Invalid: 0
 Minimum: 4521.3
 Maximum: 911063.8
 Mean: 62118
 Standard deviation: 142606.7

Installed capacity (m3/d) (V5)

File: Water supply sanitation_small town

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 1915-1065831

Valid cases: 39
 Invalid: 5
 Minimum: 1915
 Maximum: 1065831
 Mean: 81987
 Standard deviation: 177330.3

Current output (m3/d) (V6)

File: Water supply sanitation_small town

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 295
Decimals: 2	Maximum: 340714.3
Range: 295-340714.3	Mean: 23230.5
	Standard deviation: 54308.6

% access to water (V7)

File: Water supply sanitation_small town

Overview

Type: Continuous	Valid cases: 37
Format: numeric	Invalid: 7
Width: 10	Minimum: 5.1
Decimals: 2	Maximum: 85
Range: 5.09-85	Mean: 50.5
	Standard deviation: 21.6

Population access to water (V8)

File: Water supply sanitation_small town

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 27329.7
Decimals: 2	Maximum: 13614652.3
Range: 27329.6861-13614652.2676	Mean: 928271.7
	Standard deviation: 2110605.8

% access to sanitation (V9)

File: Water supply sanitation_small town

Overview

Type: Continuous	Valid cases: 37
Format: numeric	Invalid: 7
Width: 10	Minimum: 10.1
Decimals: 2	Maximum: 93.4
Range: 10.1-93.42	Mean: 53.7
	Standard deviation: 22.8

Population access to sanitation (V10)

File: Water supply sanitation_small town

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 46466
Decimals: 2	Maximum: 14262936.2
Range: 46465.965-14262936.1994	Mean: 972472.9
	Standard deviation: 2214483.9

% of national population (V11)

File: Water supply sanitation_small town

Overview

Type: Continuous
Format: numeric
Width: 10
Decimals: 2
Range: 9.11679964-22.8060497

Valid cases: 6
Invalid: 38
Minimum: 9.1
Maximum: 22.8
Mean: 16.7
Standard deviation: 5.6

Zonal group (V1)

File: Water supply sanitation- urban

Overview

Type: Discrete
 Format: character
 Width: 15
 Invalid: +"; ,%o

Valid cases: 44
 Invalid: 0

State (V2)

File: Water supply sanitation- urban

Overview

Type: Discrete
 Format: character
 Width: 15
 Invalid: +"; ,%o

Valid cases: 44
 Invalid: 0

Literal question

State

Population 2006 (V3)

File: Water supply sanitation- urban

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 219304-43214013

Valid cases: 44
 Invalid: 0
 Minimum: 219304
 Maximum: 43214013
 Mean: 2946410
 Standard deviation: 6766168.3

Total estimated water demand (V4)

File: Water supply sanitation- urban

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 13158.2-3094491

Valid cases: 44
 Invalid: 0
 Minimum: 13158.2
 Maximum: 3094491
 Mean: 210988
 Standard deviation: 487040.5

Installed capacity (m3/d) (V5)

File: Water supply sanitation- urban

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 2
 Range: 6197-3556376

Valid cases: 39
 Invalid: 5
 Minimum: 6197
 Maximum: 3556376
 Mean: 273567.4
 Standard deviation: 607807.3

Current output (m3/d) (V6)

File: Water supply sanitation- urban

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 646.8
Decimals: 2	Maximum: 1761823.7
Range: 646.8-1761823.7	Mean: 120124.3
	Standard deviation: 289097.9

% access to water (V7)

File: Water supply sanitation- urban

Overview

Type: Continuous	Valid cases: 37
Format: numeric	Invalid: 7
Width: 10	Minimum: 7.9
Decimals: 2	Maximum: 91.5
Range: 7.9-91.48	Mean: 61.1
	Standard deviation: 22.1

Population access to water (V8)

File: Water supply sanitation- urban

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 97452.9
Decimals: 2	Maximum: 26432165.2
Range: 97452.895-26432165.2295	Mean: 1802193.1
	Standard deviation: 4190952.3

% access to sanitation (V9)

File: Water supply sanitation- urban

Overview

Type: Continuous	Valid cases: 37
Format: numeric	Invalid: 7
Width: 10	Minimum: 10.5
Decimals: 2	Maximum: 99.1
Range: 10.5-99.1	Mean: 72.3
	Standard deviation: 24.1

Population access to sanitation (V10)

File: Water supply sanitation- urban

Overview

Type: Continuous	Valid cases: 44
Format: numeric	Invalid: 0
Width: 10	Minimum: 62546.6
Decimals: 2	Maximum: 32042597.2
Range: 62546.55-32042597.2005	Mean: 2184722.5
	Standard deviation: 5036960.5

Zonal Group (V1)

File: Related Disease by state

Overview

Type: Discrete
 Format: character
 Width: 15
 Invalid: -- ,%

Valid cases: 38
 Invalid: 0

State (V2)

File: Related Disease by state

Overview

Type: Discrete
 Format: character
 Width: 12
 Invalid: -- ,%

Valid cases: 38
 Invalid: 0

Literal question

State

Diarrhoea (V3)

File: Related Disease by state

Overview

Type: Continuous
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 712-650640

Valid cases: 30
 Invalid: 8
 Minimum: 712
 Maximum: 650640
 Mean: 43376
 Standard deviation: 118692.6

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Diarrhea1.Yes or No

G/ Worm (V4)

File: Related Disease by state

Overview

Type: Continuous
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 0-10689

Valid cases: 30
 Invalid: 8
 Minimum: 0
 Maximum: 10689
 Mean: 712.6
 Standard deviation: 1961.5

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Guinea worm.....Yes or No

Dysentery (V5)

File: Related Disease by state

Dysentery (V5)

File: Related Disease by state

Overview

Type: Continuous	Valid cases: 30
Format: numeric	Invalid: 8
Width: 8	Minimum: 967
Decimals: 0	Maximum: 300696
Range: 967-300696	Mean: 20046.4
	Standard deviation: 55051.2

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Dysentery.....Yes or No

Typhoid Fever (V6)

File: Related Disease by state

Overview

Type: Continuous	Valid cases: 30
Format: numeric	Invalid: 8
Width: 8	Minimum: 1130
Decimals: 0	Maximum: 342555
Range: 1130-342555	Mean: 22837
	Standard deviation: 61849.8

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Typhoid Fever.....Yes or No

Malaria (V7)

File: Related Disease by state

Overview

Type: Continuous	Valid cases: 30
Format: numeric	Invalid: 8
Width: 8	Minimum: 1482
Decimals: 0	Maximum: 2912533
Range: 1482-2912533	Mean: 194168.9
	Standard deviation: 524499.7

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Malaria.....Yes or No

Schistosomiasis (V8)

File: Related Disease by state

Overview

Schistosomiasis (V8)**File: Related Disease by state**

Type: Continuous
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 0-30419

Valid cases: 30
 Invalid: 8
 Minimum: 0
 Maximum: 30419
 Mean: 2027.9
 Standard deviation: 5571.2

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Schistosomiasis.....Yes or No

Blood In Urine (V9)**File: Related Disease by state****Overview**

Type: Continuous
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 0-2389

Valid cases: 38
 Invalid: 0
 Minimum: 0
 Maximum: 2389
 Mean: 125.7
 Standard deviation: 540.6

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Blood In Urine.....Yes or No

Scabies (V10)**File: Related Disease by state****Overview**

Type: Continuous
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 0-62246

Valid cases: 30
 Invalid: 8
 Minimum: 0
 Maximum: 62246
 Mean: 4149.7
 Standard deviation: 11438.4

Literal question

Scabies.....Yes or No

R/ Worm (V11)**File: Related Disease by state****Overview**

Type: Continuous
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 135-42453

Valid cases: 30
 Invalid: 8
 Minimum: 135
 Maximum: 42453
 Mean: 2830.2
 Standard deviation: 7657.7

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

R/ Worm (V11)

File: Related Disease by state

Ring worm.....Yes or No

Cholera (V12)

File: Related Disease by state

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 0
Range: 60-57505

Valid cases: 30
Invalid: 8
Minimum: 60
Maximum: 57505
Mean: 3833.7
Standard deviation: 10515.4

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Cholera.....Yes or No

Trachoma (V13)

File: Related Disease by state

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 0
Range: 0-18736

Valid cases: 30
Invalid: 8
Minimum: 0
Maximum: 18736
Mean: 1249.1
Standard deviation: 3579.2

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Trachoma.....Yes or No

Hepatitis/B (V14)

File: Related Disease by state

Overview

Type: Continuous
Format: numeric
Width: 8
Decimals: 0
Range: 0-41716

Valid cases: 30
Invalid: 8
Minimum: 0
Maximum: 41716
Mean: 2781.1
Standard deviation: 7675.1

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Hepatitis B.....Yes or No

Streptococci (V15)

File: Related Disease by state

Streptococci (V15)

File: Related Disease by state

Overview

Type: Continuous	Valid cases: 30
Format: numeric	Invalid: 8
Width: 8	Minimum: 0
Decimals: 0	Maximum: 23026
Range: 0-23026	Mean: 1535.1
	Standard deviation: 4265.5

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Streptococci.....Yes or No

Onchocerciasis (V16)

File: Related Disease by state

Overview

Type: Continuous	Valid cases: 30
Format: numeric	Invalid: 8
Width: 8	Minimum: 0
Decimals: 0	Maximum: 31463
Range: 0-31463	Mean: 2097.5
	Standard deviation: 5832.9

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Onchocerciasis.....Yes or No

Other (V17)

File: Related Disease by state

Overview

Type: Continuous	Valid cases: 28
Format: numeric	Invalid: 10
Width: 8	Minimum: 0
Decimals: 0	Maximum: 19692
Range: 0-19692	Mean: 1406.6
	Standard deviation: 3742.1

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Literal question

Other water related diseases (specify)Yes or No

Total (V18)

File: Related Disease by state

Overview

Total (V18)

File: Related Disease by state

Type: Continuous

Format: numeric

Width: 8

Decimals: 0

Range: 0-4546758

Valid cases: 38

Invalid: 0

Minimum: 0

Maximum: 4546758

Mean: 239303.1

Standard deviation: 734955.4

Pre question

Did any member of the household suffered from any of the following diseases in 2005?

Related Materials

Questionnaires

Water Supply Facility Questionnaire-FORM-01

Title	Water Supply Facility Questionnaire-FORM-01
subtitle	FMWR-FORM-01
Author(s)	Federal Ministry of Water Resources(FMWR)
Date	2009-10-19T10:42
Country	Nigeria
Language	English
Contributor(s)	Federal Ministry of Water Resources(FMWR) , Federal Government of Nigeria(FGN)
Publisher(s)	National Bureau of Statistics (NBS)
Description	The water supply facility(Form-01) questionnaire used to collect the data Population coverage Capacity of the scheme Source of Raw Water
Table of contents	Type of Treatment Connections Total length of piped network Average number of hours of water supply per day
Filename	Water and Resources Doc/Water Resource questionnaire FORM-01.pdf

Water Supply Agency Operational Questionnaire-FORM-02

Title	Water Supply Agency Operational Questionnaire-FORM-02
subtitle	FMWR-FORM-02
Author(s)	Federal Ministry of Water Resources(FMWR)
Date	2009-10-19T10:45
Country	Nigeria
Language	English
Contributor(s)	Federal Ministry of Water Resources(FMWR) , Federal Government of Nigeria(FGN)
Publisher(s)	National Bureau of Statistics (NBS)
Description	The water supply agency operational(Form-02) questionnaire used to collect the data Performance Data/Indicator Total No of Schemes Total capacity of all schemes Source Connections Total annual cost of operations and maintenance in 2005
Table of contents	Total Energy Consumption (2005) Total water sales (total billing) Total revenue collection Total number of employees Total Capital Expenditure for water supply Infrastructural Development (1999 - 2006) Major constraints
Filename	Water and Resources Doc/Water Resource questionnaire FORM-02.pdf

Sanitation Facility Questionnaire-FORM-03

Title	Sanitation Facility Questionnaire-FORM-03
subtitle	FMWR-FORM-03

Author(s)	Fedral Ministry of Water Resources(FMWR)
Date	2009-10-19T10:47
Country	Nigeria
Language	English
Contributor(s)	Fedral Ministry of Water Resources(FMWR) , Federal Government of Nigeria(FGN)
Publisher(s)	National Bureau of Statistics (NBS)
Description	The Sanitation Facility Survey (Form-03) questionnaire used to collect the data Type of Facility Latrines
Table of contents	Public Water Closets Sewerage system Who maintains the facility?
Filename	Water and Resources Doc/Water Resource questionnaire FORM-03.pdf

Water Related Diseases-FORM-04

Title	Water Related Diseases-FORM-04
subtitle	FMWR-FORM-04
Author(s)	Fedral Ministry of Water Resources(FMWR)
Date	2009-10-19T10:50
Country	Nigeria
Language	English
Contributor(s)	Fedral Ministry of Water Resources(FMWR) , Federal Government of Nigeria(FGN)
Publisher(s)	National Bureau of Statistics (NBS)
Description	The water related diseases (Form-04) questionnaire used to collect the data Type of Health Institution Primary Health Centre Comprehensive Health Centre General Hospital Teaching Hospital
Table of contents	Private Clinic/Hospital How many cases of the following diseases were reported in your health institution in 2005? Diseases Federal Medical Center Specialist Hospital Military Reference Hospital
Filename	Water and Resources Doc/Water Resource questionnaire FORM-04.pdf

Household Survey Questionnaire-FORM-05

Title	Household Survey Questionnaire-FORM-05
subtitle	FMWR-FORM-05
Author(s)	Fedral Ministry of Water Resources(FMWR)
Date	2009-10-19T10:52
Country	Nigeria
Language	English
Contributor(s)	Fedral Ministry of Water Resources(FMWR) , Federal Government of Nigeria(FGN)
Publisher(s)	National Bureau of Statistics (NBS)
Description	The household survey(Form-05)questionnaire used to collect the data

	PART A- WATER SUPPLY
	What is your family's main source of drinking water
	Who is responsible for the provision of the main source of drinking water?
	How far is the water source/point from your home
	State the number and sex of children and adult members of your household who fetch water for the family
	How many times does each of them collect water everyday
	How many liters of water does your family use in a day
	How many people live in the house
Table of contents	What is the average cost of water used per day
	PART B-SANITATION FACILITIES
	Which of the following Toilet Facilities does your household use
	What is/are the distance(s) of the facility/facilities available to you if not in-house
	Are/is the facilities/ facility adequate for you
	If you use a communal latrine, how many people share it
	Is the latrine currently in use?
	Are there any problems with the facility
	PART C - WATER RELATED DISEASES
	Did any member of the household suffered from any of the following diseases in 2005
Filename	Water and Resources Doc/Water Resource questionnaire FORM-05.pdf

Other materials

Water supply Manual

Title	Water supply Manual
subtitle	FMWR-Manual
Author(s)	Federal Ministry of Water Resources(FMWR)
Date	2009-10-19T10:40
Country	Nigeria
Language	English
Contributor(s)	Federal Ministry of Water Resources(FMWR) , Federal Government of Nigeria(FGN)
Publisher(s)	National Bureau of Statistics (NBS)
Description	The manual guide for the survey
	INTRODUCTION
	SAMPLING STRATEGY
	SELECTION OF LOCATION AND HOUSEHOLDS
	Multi community ward
Table of contents	Multi ward community
	DATA COLLECTION
	SOFTWARE
	DETERMINATION OF ACCESS TO SAFE WATER SUPPLY AND
	SANITATION AND PREVALANCE OF WATER RELATED DISEASES
	Water Related Diseases
Filename	Water and Resources Doc/Water Resource Instruction Manual.pdf

Study Documentation

Title	Study Documentation
subtitle	National Water Supply And Sanitation Metadata Toolkit documentenation
Author(s)	NBS ICT Documentation and Archiving team
Date	2009-10-19T10:56
Country	Nigeria
Language	English
Contributor(s)	Federal Ministry of Water Resources(FMWR) National Bureau of Statistics (NBS)
Publisher(s)	Federal Ministry of Water Resources(FMWR)
Description	Documentation of National Water Supply And Sanitation using Microdata Management Toolkit
Filename	Water Resource StudyDoc.pdf

