Package 'washdata'

July 22, 2025

Title Urban Water and Sanitation Survey Dataset

Version 0.1.4

Description Urban water and sanitation survey dataset collected by Water and Sanitation for the Urban Poor (WSUP) with technical support from Valid International. These citywide surveys have been collecting data allowing water and sanitation service levels across the entire city to be characterised, while also allowing more detailed data to be collected in areas of the city of particular interest. These surveys are intended to generate useful information for others working in the water and sanitation sector. Current release version includes datasets collected from a survey conducted in Dhaka, Bangladesh in March 2017. This survey in Dhaka is one of a series of surveys to be conducted by WSUP in various cities in which they operate including Accra, Ghana; Nakuru, Kenya; Antananarivo, Madagascar; Maputo, Mozambique; and, Lusaka, Zambia. This package will be updated once the surveys in other cities are completed and datasets have been made available.

Depends R (>= 2.10)
Suggests knitr, rmarkdown, spelling
License CC0
Encoding UTF-8
Language en-GB
LazyData true
RoxygenNote 7.3.1
URL https://github.com/katilingban/washdata/,

https://katilingban.io/washdata/

BugReports https://github.com/katilingban/washdata/issues

VignetteBuilder knitr NeedsCompilation no

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Description

WASH survey indicators data calculated from survey raw data

Usage

indicatorsDataBGD

Format

A data frame with 162 variables and 1282 entries

Examples

indicatorsDataBGD

popBGD

Population Data for Dhaka, Bangladesh

Description

Grid-based population of Dhaka, Bangladesh

Usage

popBGD

ppiMatrixBGD 3

Format

```
A data frame with four variables:
psu primary sampling unit (PSU) ID
zone survey enumeration area
type slum (1) or non-slum (2)
pop population
```

Examples

popBGD

ppiMatrixBGD

PPI Look-up Table for Bangladesh

Description

PPI look-up table for Bangladesh to calculate PPI score

Usage

ppiMatrixBGD

Format

A data frame with 10 variables and 101 entries

Examples

ppiMatrixBGD

surveyDataBGD

WASH Survey Raw Data for Dhaka, Bangladesh

Description

WASH survey raw data collected by WSUP in Dhaka, Bangladesh

Usage

Format

A data frame with 217 variables and 1282 entries: country Country ccode Country Code zone Enumeration Area type Sampling Point Type quadrat Quadrat Number hhid Household ID uniqueID Unique ID month Month of Survey year Year of Survey deployment Deployment enumerator Enumerator status Status responseCode Response Code draftDate Drafted On submissionDate Submitted On ipAddress IP Address surveyType Survey type psu primary sampling unit (PSU) ID psuTime PSU ID Time Answered latitude PSU ID Location Answered latitude longitude PSU ID Location Answered longitude accuracy PSU ID Location Answered accuracy altitude PSU ID Location Answered altitude areal Thana area10ther Thana Other please specify specify arealTime Thana Time Answered area2 Ward slum Slum gender Respondent gender landOwnStatus What is the respondent land ownership status nWomen Number of adult women aged 16 to 60 nMen Number of adult men aged 16 to 60 nOldWomen Number of older women aged _60 nOldMen Number of older men aged _60

nGirls Number of girls aged 4 15

- nBoys Number of boys aged 4 15
- nInfants Number of infants _3
- nMobility How many people with reduced mobility are there in this household
- water1 Main source of drinking water
- water 2 Main source of drinking water Other please specify specify
- water3 Is the service provision formal or informal
- water4 Is the service provision formal or informal Don t Know
- water 5 Is main source of drinking water a WSUP supported facility
- water 6 Is main source of drinking water a WSUP supported facility Don t Know
- water7 Typical number of hours per day that water is available
- water8 Typical number of hours per day that water is available Don t Know
- water9 Typical days per week that water is available
- water 10 Typical days per week that water is available Don t Know
- water11 Is water typically available and sufficient throughout the whole year
- water12 Is water typically available and sufficient throughout the whole year Comments
- water13 Is water typically available and sufficient throughout the whole year Don t Know
- water14 How long does it take to go there get water and come back
- water 15 How long does it take to go there get water and come back Don t Know
- water16 Are you satisfied that the distance between your main water source and your home is acceptable
- water17 Are you satisfied that the distance between your main water source and your home is acceptable Don t Know
- water18 Do you consider that the queuing time at your main water source is acceptable
- water19 Do you consider that the queuing time at your main water source is acceptable Not Applicable
- water 20 Do you consider that the queuing time at your main water source is acceptable Don t
- water21 Which household member s usually collect the water
- water22 Which household member s usually collect the water Other please specify specify
- water 23 Typical amount of water used by your household per person per day
- water24 Typical amount of water used by your household per person per day Don t Know
- water25 Do you consider the amount of water supplied from your primary water source to be sufficient to meet your household_s requirements each day
- water26 Do you consider the amount of water supplied from your primary water source to be sufficient to meet your household_s requirements each day Don t Know
- water 27 Do you also use water from other water sources
- water 28 Do you also use water from other water sources Don t Know
- water 29 Which is your usual secondary water source
- water 30 Which is your usual secondary water source Other please specify specify

water31 Which is your usual secondary water source Don t Know
water32 Typical amount of money spent on water per week magnitude
water33 Typical amount of money spent on water per week units
water34 Typical amount of money spent on water per week Don t Know
water35 Are you satisfied with the price of your main water source
water36 Are you satisfied with the price of your main water source Don t Know
water37 Would you be willing to invest in improving your drinking water source
water38 Would you be willing to invest in improving your drinking water source Comments
water39 Would you be willing to invest in improving your drinking water source Don t Know
water40 Are you satisfied with the quality of your main water source
water41 Are you satisfied with the quality of your main water source Don t Know
water42 What would increase your satisfaction
water43 What would increase your satisfaction Other improvement please specify specify
water44 What would increase your satisfaction Don t Know
water45 Are you satisfied with the water pressure of your main water source
water46 Are you satisfied with the water pressure of your main water source Don t Know
water47 Who do you talk to if there is a problem with the water supply
water 48 Who do you talk to if there is a problem with the water supply Other please specify specify
water49 Who do you talk to if there is a problem with the water supply Not Applicable
water 50 Who do you talk to if there is a problem with the water supply Don t Know
water51 Previous source of drinking water
water52 Previous source of drinking water Other please specify specify
water53 Previous source of drinking water Don t Know
water54 Typical amount of money spent per week on the previous water source magnitude
water55 Typical amount of money spent per week on the previous water source units
water56 Typical amount of money spent per week on the previous water source Don t Know
water57 Why do you use the WSUP supported facility instead of the facility you used before
water 58 Why do you use the WSUP supported facility instead of the facility you used before Other please specify specify
water59 Why do you use the WSUP supported facility instead of the facility you used before Don t Know
san1 Usage arrangement for household_s sanitation facility
san2 Usage arrangement for household_s sanitation facility Other please specify specify
san3 Usage arrangement for household_s sanitation facility Don t Know
san4 How many people share use of the communal shared toilet
san5 How many people share use of the communal shared toilet Don t Know
san6 What kind of toilet facility do members in your household usually use

san7 What kind of toilet facility do members in your household usually use Other please specify specify

- san8 What kind of toilet facility do members in your household usually use Don t Know
- san9 Where does your toilet flush to
- san10 Where does your toilet flush to Other please specify specify
- san11 Where does your toilet flush to Don t Know
- san12 Is main sanitation facility a WSUP supported facility
- san13 Is main sanitation facility a WSUP supported facility Not Applicable
- san14 Is main sanitation facility a WSUP supported facility Don t Know
- san15 Is water available at the sanitation facility
- san16 Is water available at the sanitation facility Don t Know
- san17 Are you satisfied with the status of the hand washing facilities at the sanitation facility
- san18 Are you satisfied with the status of the hand washing facilities at the sanitation facility Don t Know
- san19 What would increase your satisfaction 1
- san20 What would increase your satisfaction Other please specify specify
- san21 What would increase your satisfaction Don t Know 1
- san22 Is there an electric light in the sanitation facility
- san23 Is there an electric light in the sanitation facility Don t Know
- san24 Does the sanitation facility have a lockable door
- san25 Does the sanitation facility have a lockable door Don t Know
- san26 Does the sanitation facility have a container for menstrual hygiene management
- san27 Does the sanitation facility have a container for menstrual hygiene management Don t Know
- san28 The last time your youngest child passed stools what was done to dispose of the stools
- san29 The last time your youngest child passed stools what was done to dispose of the stools Not Applicable
- san30 The last time your youngest child passed stools what was done to dispose of the stools Don t Know
- san31 How long does it take to go there queue for the toilet if applicable and come back
- san32 How long does it take to go there queue for the toilet if applicable and come back Don t Know
- san33 Typical amount of money spent on the main sanitation facility per week magnitude
- san34 Typical amount of money spent on the main sanitation facility per week units
- san35 Typical amount of money spent on the main sanitation facility per week Don t Know
- san36 Are you satisfied with the price of the sanitation facility
- san37 Are you satisfied with the price of the sanitation facility Don t Know
- san38 Did you make an initial investment in the sanitation facility
- san39 Did you make an initial investment in the sanitation facility Don t Know

- san40 How much was the initial investment magnitude
- san41 How much was the initial investment units
- san42 How much was the initial investment Don t Know
- san43 Would you be willing to invest in improved sanitation facilities
- san44 Would you be willing to invest in improved sanitation facilities Comments
- san45 Would you be willing to invest in improved sanitation facilities Don t Know
- san46 Are you satisfied with the cleanliness of the sanitation facilities
- san47 Are you satisfied with the cleanliness of the sanitation facilities Don t Know
- san48 What would increase your level of satisfaction
- san49 What would increase your level of satisfaction Other please specify specify
- san50 What would increase your level of satisfaction Don t Know
- san51 Is everyone in the household able to get to the sanitation facility and use it
- san52 Is everyone in the household able to get to the sanitation facility and use it Don t Know
- san53 Who is not using them
- san54 Who is not using them Other please specify specify
- san55 Who is not using them Don t Know
- san56 Why not
- san57 Why not Other please specify specify
- san58 Why not Don t Know
- san59 Do all household members usually use the available sanitation facilities
- san60 Do all household members usually use the available sanitation facilities Don t Know
- san61 Who is not using them 1
- san62 Who is not using them Other please specify specify 1
- san63 Who is not using them Don t Know 1
- san64 Why are they not using the facilities
- san65 Why are they not using the facilities Don t Know
- san66 Who do you talk to if there is a problem with the sanitation facility
- san67 Who do you talk to if there is a problem with the sanitation facility Other please specify specify
- san68 Who do you talk to if there is a problem with the sanitation facility Not Applicable
- san69 Who do you talk to if there is a problem with the sanitation facility Don t Know
- san70 Do the women and girls in your household feel safe using the sanitation facilities during the day and night
- san71 Do the women and girls in your household feel safe using the sanitation facilities during the day and night Don t Know
- san72 Why not 1
- san73 Why not Don t Know 1

san74 Do the women and girls in the household feel comfortable using the sanitation facilities during menstruation

- san75 Do the women and girls in the household feel comfortable using the sanitation facilities during menstruation Not Applicable
- san76 Why not 2
- san77 Why not Other please specify specify 1
- san78 Why not Don t Know 2
- san79 What materials are used by the women girls of your house during their menstruation cycle
- san80 What materials are used by the women girls of your house during their menstruation cycle Other please specify specify
- san81 How is the cloth washed
- san82 How is the cloth washed Other please specify specify
- san83 Where do you dispose of the used napkin pad
- san84 Where do you dispose of the used napkin pad Other please specify specify
- san85 When should you wash your hands
- san86 When should you wash your hands Other please specify specify
- san87 When should you wash your hands Don t Know
- san88 Can you show me where you wash your hands
- san89 Can you show me where you wash your hands Not Applicable
- wash60 Can you show me where you store your drinking water
- wash61 Can you show me where you store your drinking water Not Applicable
- wash62 Can you show me where you store your drinking water Don t Know
- san90 How often do you empty your pit septic tank
- san91 How often do you empty your pit septic tank Other please specify specify
- san92 How often do you empty your pit septic tank Not Applicable
- san93 How often do you empty your pit septic tank Don t Know
- san94 How much does it cost to empty magnitude
- san95 How much does it cost to empty units
- san96 How much does it cost to empty Not Applicable
- san97 How much does it cost to empty Don t Know
- san98 Who empties the pit
- san99 Who empties the pit Other please specify specify
- san100 Who empties the pit Not Applicable
- san101 Who empties the pit Don t Know
- san102 Who pays for the pit to be emptied
- san103 Who pays for the pit to be emptied Other please specify specify
- san104 Who pays for the pit to be emptied Not Applicable
- san105 Who pays for the pit to be emptied Don t Know

- san106 Are you satisfied with the pit emptying service
- ppi1 How many household members are 12 years old or younger
- ppi2 Do all household members ages 6 to 12 currently attend a school educational institution
- ppi3 X In the past year did any household member ever do work for which he she was paid on a daily basis
- ppi4 How many rooms does your household occupy excluding rooms used for business
- ppi5 What is the main construction material of the walls of the main room
- ppi6 Does the household own any televisions
- ppi7 How many fans does the household own
- ppi8 How many mobile phones does the household own
- ppi9 Does the household own any bicycles motorcycle scooters or motor cars etc
- ppi10 Does the household own or rent sharecrop mortgage in or out 51 or more decimals of cultivable agricultural land excluding uncultivable land and dwelling house homestead land
- ppi11 Does the household own or rent sharecrop mortgage in or out 51 or more decimals of cultivable agricultural land excluding uncultivable land and dwelling house homestead land Time Answered

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