Package ‘washdata’

October 12, 2022

Title Urban Water and Sanitation Survey Dataset
Version 0.1.3
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
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BugReports https://github.com/katilingban/washdata/issues
VignetteBuilder knitr
NeedsCompilation no
Author Ernest Guevarra [aut, cre],
Valid International [cph],
Water and Sanitation for the Urban Poor [cph]
Maintainer Ernest Guevarra <ernestgmd@gmail.com>
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**indicatorsDataBGD**

*WASH Survey Indicators Data for Dhaka, Bangladesh*

**Description**

WASH survey indicators data calculated from survey raw data

**Usage**

indicatorsDataBGD

**Format**

A data frame with 162 variables and 1282 entries

**Examples**

indicatorsDataBGD

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**popBGD**

*Population Data for Dhaka, Bangladesh*

**Description**

Grid-based population of Dhaka, Bangladesh

**Usage**

popBGD
**ppiMatrixBGD**

**Format**

A data frame with four variables:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>psu</td>
<td>primary sampling unit (PSU) ID</td>
</tr>
<tr>
<td>zone</td>
<td>survey enumeration area</td>
</tr>
<tr>
<td>type</td>
<td>slum (1) or non-slum (2)</td>
</tr>
<tr>
<td>pop</td>
<td>population</td>
</tr>
</tbody>
</table>

**Examples**

popupBGD

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<table>
<thead>
<tr>
<th>ppiMatrixBGD</th>
<th><strong>PPI Look-up Table for Bangladesh</strong></th>
</tr>
</thead>
</table>

**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

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<table>
<thead>
<tr>
<th>surveyDataBGD</th>
<th><strong>WASH Survey Raw Data for Dhaka, Bangladesh</strong></th>
</tr>
</thead>
</table>

**Description**

WASH survey raw data collected by WSUP in Dhaka, Bangladesh

**Usage**

surveyDataBGD
**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
- area1  Thana
- area1Other  Thana Other please specify specify
- area1Time  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
water2  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
water5  Is main source of drinking water a WSUP supported facility
water6  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
water10  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
water15  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
water20  Do you consider that the queuing time at your main water source is acceptable Don t Know
water21  Which household member s usually collect the water
water22  Which household member s usually collect the water Other please specify specify
water23  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
water27  Do you also use water from other water sources
water28  Do you also use water from other water sources Don t Know
water29  Which is your usual secondary water source
water30  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
water48 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
water50 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
water58 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
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
san62 Who is not using them Other please specify specify
san63 Who is not using them Don’t Know
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
san73 Why not Don’t Know
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 cul-
tivable 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 cul-
tivable agricultural land excluding uncultivable land and dwelling house homestead land Time
Answered

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