

Package ‘PakPMICS2018hh’

July 21, 2025

Type Package

Title Multiple Indicator Cluster Survey (MICS) 2017-18 Household
Questionnaire Data for Punjab, Pakistan

Version 0.1.0

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Description Provides data set and function for exploration of Multiple Indicator Cluster Survey (MICS) 2017-18 Household questionnaire data for Punjab, Pakistan. The results of the present survey are critically important for the purposes of Sustainable Development Goals (SDGs) monitoring, as the survey produces information on 32 global Sustainable Development Goals (SDGs) indicators. The data was collected from 53,840 households selected at the second stage with systematic random sampling out of a sample of 2,692 clusters selected using probability proportional to size sampling. Six questionnaires were used in the survey: (1) a household questionnaire to collect basic demographic information on all de jure household members (usual residents), the household, and the dwelling; (2) a water quality testing questionnaire administered in three households in each cluster of the sample; (3) a questionnaire for individual women administered in each household to all women age 15-49 years; (4) a questionnaire for individual men administered in every second household to all men age 15-49 years; (5) an under-5 questionnaire, administered to mothers (or caretakers) of all children under 5 living in the household; and (6) a questionnaire for children age 5-17 years, administered to the mother (or caretaker) of one randomly selected child age 5-17 years living in the household (<<http://www.mics.unicef.org/surveys>>).

Depends R (>= 3.5.0)

Imports tibble

License GPL-2

URL <https://github.com/myaseen208/PakPMICS2018hh>,
<https://myaseen208.github.io/PakPMICS2018hh/>

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Note Department of Mathematics and Statistics, University of Agriculture Faisalabad, Faisalabad-Pakistan.

Suggests testthat, R.rsp

VignetteBuilder R.rsp

NeedsCompilation no

Repository CRAN

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Description

PakPMICS2018hh provides data set and function for exploration of Multiple Indicator Cluster Survey (MICS) 2017-18 Household questionnaire data for Punjab, Pakistan. The results of the present survey are critically important for the purposes of SDG monitoring, as the survey produces information on 32 global SDG indicators. The data was collected from 53,840 households selected at the second stage with systematic random sampling out of a sample of 2,692 clusters selected using Probability Proportional to size sampling. Six questionnaires were used in the survey: 1. a household questionnaire to collect basic demographic information on all de jure household members (usual residents), the household, and the dwelling; 2. a water quality testing questionnaire administered in three households in each cluster of the sample; 3. a questionnaire for individual women administered in each household to all women age 15-49 years; 4. a questionnaire for individual men administered in every second household to all men age 15-49 years; 5. an under-5 questionnaire, administered to mothers (or caretakers) of all children under 5 living in the household; and 6. a questionnaire for children age 5-17 years, administered to the mother (or caretaker) of one randomly selected child age 5-17 years living in the household.

Usage

```
data(PakPMICS2018hh)
```

Format

A data frame with 53840 rows and 330 variables:

HH1 Cluster number
 HH2 Household number
 HH3 Interviewer number

HH4 Supervisor number
HH5D Day of interview
HH5M Month of interview
HH5Y Year of interview
HH6 Area
HH8 HH selected for Questionnaire for Men
HH9 HH selected for Water Quality Testing
HH10 HH selected for blank testing
HH11H Start of interview - Hour
HH11M Start of interview - Minutes
HH12 Consent
HH46 Result of HH interview
HH13H End of interview - Hour
HH13M End of interview - Minutes
HH14 Language of the questionnaire
HH15 Language of the interview
HH16 Native language of the respondent
HH17 Translator used
HH26A Rank number of the selected child
HH26B Child line number
HH26C Child's age
HH33 Consent for interview girls 15-17
HH33.01 Roster to check the consent for interview girls 15-17
HH33.02 Roster to check the consent for interview girls 15-17
HH33.03 Roster to check the consent for interview girls 15-17
HH33.04 Roster to check the consent for interview girls 15-17
HH33.05 Roster to check the consent for interview girls 15-17
HH33.06 Roster to check the consent for interview girls 15-17
HH33.07 Roster to check the consent for interview girls 15-17
HH33.08 Roster to check the consent for interview girls 15-17
HH33.09 Roster to check the consent for interview girls 15-17
HH33.10 Roster to check the consent for interview girls 15-17
HH33.11 Roster to check the consent for interview girls 15-17
HH33.12 Roster to check the consent for interview girls 15-17
HH33.13 Roster to check the consent for interview girls 15-17
HH33.14 Roster to check the consent for interview girls 15-17
HH33.15 Roster to check the consent for interview girls 15-17

HH33.16 Roster to check the consent for interview girls 15-17
HH33.17 Roster to check the consent for interview girls 15-17
HH33.18 Roster to check the consent for interview girls 15-17
HH33.19 Roster to check the consent for interview girls 15-17
HH33.20 Roster to check the consent for interview girls 15-17
HH33.21 Roster to check the consent for interview girls 15-17
HH33.22 Roster to check the consent for interview girls 15-17
HH33.23 Roster to check the consent for interview girls 15-17
HH33.24 Roster to check the consent for interview girls 15-17
HH33.25 Roster to check the consent for interview girls 15-17
HH33.26 Roster to check the consent for interview girls 15-17
HH33.27 Roster to check the consent for interview girls 15-17
HH33.28 Roster to check the consent for interview girls 15-17
HH33.29 Roster to check the consent for interview girls 15-17
HH33.30 Roster to check the consent for interview girls 15-17
HH33.31 Roster to check the consent for interview girls 15-17
HH33.32 Roster to check the consent for interview girls 15-17
HH33.33 Roster to check the consent for interview girls 15-17
HH33.34 Roster to check the consent for interview girls 15-17
HH33.35 Roster to check the consent for interview girls 15-17
HH33.36 Roster to check the consent for interview girls 15-17
HH33.37 Roster to check the consent for interview girls 15-17
HH33.38 Roster to check the consent for interview girls 15-17
HH33.39 Roster to check the consent for interview girls 15-17
HH33.40 Roster to check the consent for interview girls 15-17
HH33.41 Roster to check the consent for interview girls 15-17
HH33.42 Roster to check the consent for interview girls 15-17
HH33.43 Roster to check the consent for interview girls 15-17
HH33.44 Roster to check the consent for interview girls 15-17
HH33.45 Roster to check the consent for interview girls 15-17
HH33.46 Roster to check the consent for interview girls 15-17
HH33.47 Roster to check the consent for interview girls 15-17
HH33.48 Roster to check the consent for interview girls 15-17
HH33.49 Roster to check the consent for interview girls 15-17
HH33.50 Roster to check the consent for interview girls 15-17
HH39 Consent for interview boys 15-17
HH39.01 Roster to check the consent for interview boys 15-17

HH39.39 Roster to check the consent for interview boys 15-17
HH39.40 Roster to check the consent for interview boys 15-17
HH39.41 Roster to check the consent for interview boys 15-17
HH39.42 Roster to check the consent for interview boys 15-17
HH39.43 Roster to check the consent for interview boys 15-17
HH39.44 Roster to check the consent for interview boys 15-17
HH39.45 Roster to check the consent for interview boys 15-17
HH39.46 Roster to check the consent for interview boys 15-17
HH39.47 Roster to check the consent for interview boys 15-17
HH39.48 Roster to check the consent for interview boys 15-17
HH39.49 Roster to check the consent for interview boys 15-17
HH39.50 Roster to check the consent for interview boys 15-17
HH44 Consent for Water Quality Testing
HH47 Respondent to HH questionnaire
HH48 Number of HH members
HH49 Number of women 15 - 49 years
HH50 Number of men 15 - 49 years
HH51 Number of children under age 5
HH52 Number of children age 5-17
INTROHL Introduction HH Listing
HHAUX Other household members
HHWQ Water Quality prompt
HHFIN Finish
HC1B Language of household head
HC3 Number of rooms used for sleeping
HC4 Main material of floor
HC5 Main material of roof
HC6 Main material of exterior wall
HC7A Household have: Fixed telephone line
HC7B Household have: Radio
HC7C Household have: Gas Heater
HC7D Household have: Cooking Range
HC7E Household have: Sewing Machine (without electric motor)
HC7F Household have: An iron (Gas/ Coal)
HC7G Household have: Bed
HC7H Household have: Sofa
HC7I Household have: Cupboard

- HC7J Household have: Wall Clock
- HC8 Household have electricity
- HC9A Household have: Television
- HC9B Household have: Refrigerator
- HC9C Household have: Washing Machine/ Dryer
- HC9D Household have: Air Cooler/ Fan
- HC9E Household have: Microwave Oven
- HC9F Household have: Electric Iron
- HC9G Household have: Water Filter
- HC9H Household have: Donkey Pump/ Turbine
- HC9I Household have: Air conditioner
- HC9J Household have: Sewing Machine (with electric motor)
- HC10A Any member of household own: Watch
- HC10B Any member of household own: Bicycle
- HC10C Any member of household own: Motorcycle or scooter
- HC10D Any member of household own: Animal-drawn cart
- HC10E Any member of household own: Car, truck or van
- HC10F Any member of household own: Boat with motor
- HC10G Any member of household own: Tractor Trolley
- HC10H Any member of household own: Autorickshaw/ Chingchi
- HC11 Any member have a computer
- HC12 Any member have a mobile telephone
- HC13 Internet access at home
- HC14 Household owns the dwelling
- HC15 Any household member own land that can be used for agriculture
- HC16 Hectares of agricultural land members of household owns
- HC17 Household own any animals
- HC18A Milk cows, buffaloes or bulls
- HC18B Other cattle
- HC18C Horses, donkeys, camel or mules
- HC18D Goats
- HC18E Sheep
- HC18F Chickens
- HC18H Ducks/Turkey
- HC19 Any household member own bank account
- ST2.1 Aware of (name of programme)
- ST2.2 Aware of (name of programme)

- ST2.3 Aware of (name of programme)
- ST2.4 Aware of (name of programme)
- ST2.5 Aware of (name of programme)
- ST2.6 Aware of (name of programme)
- ST3.1 Received assistance through (name of programme)
- ST3.2 Received assistance through (name of programme)
- ST3.3 Received assistance through (name of programme)
- ST3.4 Received assistance through (name of programme)
- ST3.5 Received assistance through (name of programme)
- ST3.6 Received assistance through (name of programme)
- ST4U.1 Last time assistance was received (unit)
- ST4U.2 Last time assistance was received (unit)
- ST4U.3 Last time assistance was received (unit)
- ST4U.4 Last time assistance was received (unit)
- ST4U.5 Last time assistance was received (unit)
- ST4U.6 Last time assistance was received (unit)
- ST4N.1 Last time assistance was received (number)
- ST4N.2 Last time assistance was received (number)
- ST4N.3 Last time assistance was received (number)
- ST4N.4 Last time assistance was received (number)
- ST4N.5 Last time assistance was received (number)
- ST4N.6 Last time assistance was received (number)
- RM1 Working outside this country
- RM2 Number of persons working outside this country
- RM3 Household receive remittances from outside the country
- RM4 Household receive any cash donation from within the country
- EU1 Type of cookstove mainly used for cooking
- EU2 Cookstove have a chimney
- EU3 Cookstove have a fan
- EU4 Type of energy source for cookstove
- EU5 Place for cooking
- EU6 Type of space heating in household
- EU7 Space heater have a chimney
- EU8 Type of energy source for heater
- EU9 Type of lighting in household
- WS1 Main source of drinking water
- WS2 Main source of water used for other purposes (if bottled water used for drinking)

- WS3 Location of the water source
- WS4 Time (in minutes) to get water and come back
- WS5 Person collecting water
- WS6 Number of times person collected water in the last seven days
- WS7 There been any time in the last month without sufficient water
- WS8 Main reason without sufficient water
- WS9 Treat water to make safer for drinking
- WS10A Water treatment: Boil
- WS10B Water treatment: Add bleach/chlorine
- WS10C Water treatment: Strain it through a cloth
- WS10D Water treatment: Use water filter
- WS10E Water treatment: Solar disinfection
- WS10F Water treatment: Let it stand and settle
- WS10X Water treatment: Other
- WS10Z Water treatment: DK
- WS10NR Water treatment: Missing
- WS11 Type of toilet facility
- WS12 Pit latrine or septic tank ever been emptied
- WS13 Place the contents were emptied
- WS14 Location of the toilet facility
- WS15 Toilet facility shared
- WS16 Toilet shared with other household or with general public
- WS17 Households using this toilet facility
- HW1 Place where household members most often wash their hands
- HW2 Water available at the place for handwashing
- HW3 Soap or detergent present at place of handwashing
- HW4 Usual place for handwashing
- HW5 Soap or detergent available for washing hands
- HW6 Hand washing material shown
- HW7A Bar soap
- HW7B Detergent (Powder / Liquid / Paste)
- HW7NR Missing
- SA1 Salt iodization test outcome
- SA2 Salt iodization recheck test outcome
- WQ1 Cluster number
- WQ2 Household number
- WQ3 Measurer's number

WQ4 Supervisor's number
WQ5D Day of interview
WQ5M Month of interview
WQ5Y Year of interview
WQ6 HH selected for blank testing
WQ8 Consent for water testing
WQ31 Result of water quality testing
WQ10H Start of water quality test - Hour
WQ10M Start of water quality test - Minutes
WQ22H End of water quality test - Hour
WQ22M End of water quality test - Minutes
WQ11 Glass of the water that members of your household usually drink
WQ12 whether the water was collected directly from the source or from a separate storage container
WQ13 Have you labeled sample
WQ14 Done anything to the water to make it safer to drink
WQ15A Water treatment: Boil
WQ15B Water treatment: Add bleach/chlorine
WQ15C Water treatment: Strain it through a cloth
WQ15D Water treatment: Use water filter
WQ15E Water treatment: Solar disinfection
WQ15F Water treatment: Let it stand and settle
WQ15X Water treatment: Other
WQ15Z Water treatment: DK
WQ15NR Water treatment: Missing
WQ16 Was the glass water from the main source
WQ17 Source of water where the glass of water was collected
WQ18 Main source of water was shown
WQ19 Source water sample collected
WQ20 HH selected for blank testing
WQ21 Blank water test available
WQ23H End of water quality test - Hour
WQ23M End of water quality test - Minutes
WQ24D Day of of recording test results
WQ24M Month of of recording test results
WQ24Y Year of of recording test results
WQ26 Household water test (100ml)
WQ27 Source water test (100ml)

WQ29 Blank water test (100ml)
 WQ25M End of water quality test - Hour
 WQ25H End of water quality test - Minutes
 HHSEX Sex of household head
 HHAGE Age of household head
 stratum stratum
 psu psu
 wscore Combined wealth score
 windex5 Wealth index quintile
 windex10 Percentile Group of com1
 wscoreu Urban wealth score
 windex5u Urban wealth index quintile
 windex10u Percentile Group of urb1
 wscorer Rural wealth score
 windex5r Rural wealth index quintile
 windex10r Percentile Group of rur1
 division Division
 majorcity majorcity
 hh6r Area
 suburban
 hh7 Districts
 helevel Education of household head
 HH53 Number of woman' questionnaires completed
 HH54 Number of man' questionnaires completed
 HH50A Number of men 15 - 49 years in interviewed households
 HH55 Number of under - 5 questionnaires completed
 HH56 Number of CF questionnaires completed (age 5-17 years)
 hhweight Household sample weight
 wqhweight Weight for household WQT
 wshweight Weight for source WQT
 wqsweight Weight for source WQT

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2. Muhammad Usman (<usmann75@hotmail.com>)

References

1. UNICEF MICS (<http://www.mics.unicef.org/surveys>).

Examples

data(PakPMICS2018hh)

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* datasets

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