

# Package ‘PakPMICS2018hh’

January 20, 2025

**Type** Package

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

**Version** 0.1.0

**Author** Muhammad Yaseen [aut, cre],  
Muhammad Usman [ctb]

**Maintainer** Muhammad Yaseen <myaseen208@gmail.com>

**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

**Date/Publication** 2019-06-07 10:30:03 UTC

## Contents

PakPMICS2018hh . . . . .	2
<b>Index</b>	<b>12</b>

---

PakPMICS2018hh	<i>Multiple Indicator Cluster Survey (MICS) 2018 Household Questionnaire Data for Punjab, Pakistan</i>
----------------	--

---

### 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

#### Author(s)

1. Muhammad Yaseen (<myaseen208@gmail.com>)
2. Muhammad Usman (<usmann75@hotmail.com>)

#### References

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

#### Examples

data(PakPMICS2018hh)

# Index

## \* datasets

PakPMICS2018hh, [2](#)

PakPMICS2018hh, [2](#)