Package: portawaterperu (via r-universe)

November 13, 2026

Title A Preliminary Review of Peruvian Potable Water System Data

Version 0.0.1

Description Data to gain preliminary understanding of community potable water systems in Peru.

License CC BY 4.0

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Depends R (>= 2.10)

LazyData true

Language en-GB

Config/Needs/website rmarkdown, brand.yml

Date 2024-07-24

URL https://github.com/openwashdata/portawaterperu

BugReports https://github.com/openwashdata/portawaterperu/issues

X-schema.org-keywords open data, washdata, water supply, community water systems, drinking water, SIASAR, Peru

X-schema.org-spatialCoverage Peru

X-schema.org-temporalCoverage 2015-06-02/2015-12-19

Config/washr/funding This project was funded by the [Open Research Data Program of the ETH Board](https://ethrat.ch/en/eth-domain/open-research-data/).

Config/washr/analytics-domain openwashdata.github.io

Config/washr/doi-provider zenodo

Config/washr/zenodo-community openwashdata

Config/washr/brand-source openwashdata/brand

Config/washr/publisher Published by [openwashdata](https://openwashdata.org), a project of [Global Health Engineering](https://ghe.ethz.ch/) at ETH Zurich.

Config/washr/home https://openwashdata.org

Config/washr/catalog https://openwashdata.org/pages/gallery/data/

Config/washr/community This package is part of [openwashdata](https://openwashdata.org). Browse the [data catalogue](https://openwashdata.org/pages/gallery/data/) or get the [newsletter](https://openwashdata.org/pages/newsletter/).

Config/washr/version 1.2.2

Config/washr/brand v1.1.0

Repository https://openwashdata.r-universe.dev

Date/Publication 2026-11-01 08:52:14 UTC

RemoteUrl https://github.com/openwashdata/portawaterperu

RemoteRef HEAD

RemoteSha e682d1224bec350eb429469fe294647a2758ec0f

Contents

portawaterperu 2

Index **5**

`portawaterperu` *portawaterperu: A Preliminary Review of Peruvian Potable Water System Data*

Description

Data for this project was obtained from @SIASAR, an information system containing data on rural water supply and sanitation services. Using SIASAR's "download data by country" tool, all available data for Peru (10 excel files) were downloaded. After examining the 10 excel files, only 5 pertained to potable water systems. Those 5 data sets were imported into R and subsequently empty values and unnecessary columns were deleted from them. Finally, the 5 data sets were combined into 1 data frame based on community ID. The combined, cleaned data set contains data from 32 communities.

Usage

```
portawaterperu
```

Format

A tibble with 32 rows and 51 variables

name Name of the community water system

ID ID of the water system

div Geographical division of the community

lat Latitude of the community

long Longitude of the community

alt Altitude of the community

year Year of data collection about communities. (Use in caution)

community Community name

service_provider Service provider (PSE stands for Prestador de servicio)

pop_serviced Population served

hh_serviced Household served

type_gravity Is the community served by a gravity water supply system?

type_pump Is the community served by a pumped water supply system?

type_well Is the community served by a well/hand pump water supply system?

type_rain Is the community served by a rainwater harvesting water supply system?

water_dry_season Are there adequate water resources (at the source) to meet demand in dry season?

water_rain_season Are there adequate water resources (at the source) to meet demand in rainy season?

source_id ID of the water source

source_type Type of the water source, options including (1) lake, (2) river, (3) dug well, and (4) drilled well.

source_lat Latitude of the water source

source_long Longitude of the water source

source_alt Altitude of the water source

catch_macromeasure Macro measurement of catchment

catch_status Status of the catchment, options including (1) A: good, (2) B: fair, (3) C: poor, and (4) D: Inoperable.

maintenance_date Date of the maintainance data collection

catch_abcd Status of catchment at maintainance, options including (1) A: good, (2) B: fair, (3) C: poor, and (4) D: Inoperable.

cond_abcd Status of condition at maintainance, options including (1) A: good, (2) B: fair, (3) C: poor, and (4) D: Inoperable.

treat_type Type of treatment, options including (1) desinfection with chlorine and (2) slow filtration.

treat_abcd Status of treatment at maintainance, options including (1) A: good, (2) B: fair, (3) C: poor, and (4) D: Inoperable.

storage_abcd Status of the storage system at maintainance, options including (1) A: good, (2) B: fair, (3) C: poor, and (4) D: Inoperable.

dist_abcd Status of the distribution network at maintainance, options including (1) A: good, (2) B: fair, (3) C: poor, and (4) D: Inoperable.

flow Flow rate, check unit with column

flow_unit Unit of flow rate

chlorine_res Chlorine residual

chlorine_res_unit Unit of chlorine residual

treatment_ID ID of the treatment

treatment_type Type of the treatment

treatment_function Is treatment functional?

treatment_lat Latitude of the water treatment

treatment_long Longitude of the water treatment

treatment_alt Altitude of the water treatment

storage_ID ID of the water storage infrastructure.

storage_clean_unit Unit of cleaning frequency of the storage system

storage_lat Latitude of the water storage infrastructure.

storage_long Longitude of the water storage infrastructure.

storage_alt Altitude of the water storage infrastructure.

storage_status Status of the water storage infrastructure, options including (1) A: good, (2) B: fair, (3) C: poor, and (4) D: Inoperable.

dist_ID ID of the distribution system

dist_hour Hours of service per day

dist_connection Number of distribution network connections

dist_status Status of the distribution system, options including (1) A: good, (2) B: fair, (3) C: poor, and (4) D: Inoperable.

Index

∗ **datasets**
portawaterperu, 2

portawaterperu, 2