Package: mwefloodresponse (via r-universe)

November 13, 2026

Title Malawi Emergency Flood Response Water Point Survey (2019–2020)

Version 0.0.2

Description This dataset contains water point assessment data collected during an emergency flood response in Malawi between 2019 and 2020. The survey was conducted under the BASEflow program to evaluate the status, functionality, and safety of water points affected by flooding events.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Depends R (>= 3.5)

LazyData true

Language en-GB

Config/Needs/website rmarkdown, brand.yml

Date 2026-09-23

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

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

X-schema.org-keywords open data, washdata, floods, emergency response, water points, water quality, Malawi

X-schema.org-spatialCoverage Southern Region, Malawi

X-schema.org-temporalCoverage 2019-04-03/2020-02-12

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 08:51:44 UTC

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

RemoteRef HEAD

RemoteSha 3d7512651447bc05c7b416f135b54e0b0082a6ce

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`mwefloodresponse` *mwefloodresponse: Malawi Emergency Flood Response Water Point Survey (2019–2020)*

Description

This dataset contains water point assessment data collected during an emergency flood response in Malawi between 2019 and 2020. The survey was conducted under the BASEflow program to evaluate the status, functionality, and safety of water points affected by flooding events.

Usage

```
mwefloodresponse
```

Format

A tibble with 319 rows and 40 variables

submitted_on Date and time the survey record was submitted

district Administrative district where the water point is located

community Name of the local community or village

people_using Number of people currently using the water point

photo_water_point link of photo showing the water point

latitude GPS latitude of the water point

longitude GPS longitude of the water point

depth Measured depth of the water source

currently_submerged Indicator of whether the water point is submerged at the time of survey

likely_submerged Assessment of whether the water point was submerged during the recent flooding

functional_status Operational status of the water point

water_pump_possible Ability to pump water at the time of the visit

problems_reported Observed or reported problems at the water point

water_quality_problems Issues affecting water quality

civil_works_problems Problems affecting the water point infrastructure

photo_civil_works link of photo showing civil works problems

pump_problems Problems observed with the water pump

photo_pump_problems link of photo showing pump problems

pump_operational_feel Subjective assessment of the pump operation

time_to_pump_20l Time taken to pump 20 liters of water

strokes_to_yield Number of strokes required to yield water

sediment_presence Presence or absence of sediment in the water

water_quality_tests Field tests performed on water quality

electrical_conductivity Measured electrical conductivity of the water

conductivity_units Units used for electrical conductivity measurement

total_dissolved_solids Measured total dissolved solids in water

ph Measured pH of the water

temperature_c Water temperature in Celsius

turbidity_tube Turbidity measured using a tube method

turbidity_tube_units Units used for turbidity tube measurement

turbidity_electronic_ntu Turbidity measured using an electronic turbidimeter

comments Additional observations recorded by the surveyor

microbiological_test Type of microbiological test performed

test_method Method used to perform the microbiological test

sample_type Type of water sample collected

sample_date Date the water sample was collected

color_change_mpn MPN count from color-change test indicating bacterial contamination

color_change_upper95 Upper 95 percent confidence interval for MPN count

color_change_health Health risk classification based on color-change results

color_change_image link of photo showing compartments that changed color

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