

Package: postfloodintervention (via r-universe)

October 9, 2026

Title USAID Flood Response Post Intervention Survey Data

Version 0.1.2

Description Post-intervention monitoring data for rural water points in the Mulanje district of Malawi, collected as part of the USAID Flood Response program during 2019-2020. The dataset includes comprehensive water point assessments covering physical condition, operational performance, hydraulic measurements, water quality parameters, and microbiological quality assessments.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Depends R (≥ 3.5)

LazyData true

Language en-GB

Date 2026-09-30

URL <https://github.com/openwashdata/postfloodintervention>

BugReports <https://github.com/openwashdata/postfloodintervention/issues>

X-schema.org-keywords open data, washdata, water points, water quality, boreholes, rehabilitation, flood response, E. coli, Malawi

X-schema.org-spatialCoverage Mulanje, Malawi

X-schema.org-temporalCoverage 2019-06-13/2020-03-09

Config/Needs/website rmarkdown

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

Date/Publication 2026-10-05 09:46:54 UTC

RemoteUrl <https://github.com/openwashdata/postfloodintervention>

RemoteRef HEAD

RemoteSha e15edf03359b8904d881d460b1486df2e4eb5743

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postfloodintervention

USAID Flood Response - Post Intervention Survey 2019-2020

Description

This dataset represents the USAID Flood Response Post Intervention Survey conducted in Mulanje during 2019-2020 using the mWater platform. It contains comprehensive water quality assessments and operational data from various water points affected by flooding.

This dataset contains detailed post-intervention monitoring data for rural water points in the Mulanje district of Malawi, collected as part of the USAID Flood Response program during 2019 and 2020. Using the mWater mobile data collection platform, enumerators conducted on-site assessments of water point conditions following flood recovery efforts.

Usage

postfloodintervention

postfloodintervention

Format

A tibble with 308 rows and 30 variables:

submitted_on Date when the survey was submitted

water_point_name Name of the water point

latitude Geographic latitude coordinate of the water point

longitude Geographic longitude coordinate of the water point

photo_condition_water_point File names or URLs of photos illustrating the current condition of the water point

operational_feel_of_pump Qualitative assessment of how the pump feels during operation

time_to_pump_20_litres Time taken (in seconds or minutes) to pump 20 liters of water

number_of_strokes_to_yield_water Number of pump strokes needed to produce water

sediment_presence Presence or absence of sediment in the water

electrical_conductivity_magnitude Measured magnitude of electrical conductivity in the water sample

electrical_conductivity_units Units of electrical conductivity measurement (e.g., S/cm)

arsenic_magnitude Concentration of arsenic detected in the water sample

arsenic_units Units used to measure arsenic concentration (e.g., g/L)

ammonia_mg_per_l Ammonia concentration in mg per liter

fluoride_ppm Fluoride concentration in parts per million

nitrate_mg_per_l Nitrate concentration in mg per liter

total_dissolved_solids_ppt Total dissolved solids in parts per thousand

free_chlorine_mg_per_l Concentration of free chlorine in mg per liter

ph pH level of the water sample (acidity/alkalinity)

temperature_magnitude Temperature value of the water sample

temperature_units Units for temperature measurement (degree celsius)

turbidity_tube_magnitude Measured turbidity of water using a turbidity tube

turbidity_tube_units Units for turbidity measurement (e.g., NTU)

comments Additional notes or observations related to the water point or sample

type_of_sample Type or source of the water sample (e.g., well, tap, river)

date_of_sample Date when the water sample was collected

ecoli_mpn_per_100ml Most probable number (MPN) of E. coli bacteria per 100 milliliters

ecoli_upper_95ci_per_100ml Upper limit of the 95 percent confidence interval for E. coli MPN per 100 ml

ecoli_health_risk_category Health risk classification based on E. coli levels (e.g., low, medium, high)

ecoli_image File name or URL of image showing E. coli test result or sample compartment color change

A tibble with 257 rows and 28 variables

date_of_sample Date when the water sample was collected

waterpoint_id Geographic latitude coordinate of the water point

latitude Geographic longitude coordinate of the water point

longitude File names or URLs of photos illustrating the current condition of the water point

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Source

<https://www.mwater.co>

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* **datasets**

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