Package: waterpointstatus (via r-universe)

November 13, 2026

Title Water Point Functionality and Service Monitoring, Malawi 2023

Version 1.0.0

Description This dataset contains structured field survey responses collected from water point inspections and interviews with community members or water point committee representatives. Each record represents a single survey event linked to a specific water point, including GPS coordinates and detailed observations on infrastructure condition, functionality, water availability, maintenance practices, and governance arrangements.

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`waterpointstatus` *Water Point Functionality and Service Monitoring, Malawi 2023*

Description

This dataset contains structured field survey responses collected from water point inspections and interviews with community members or water point committee representatives. Each record represents a single survey event linked to a specific water point, including GPS coordinates and detailed observations on infrastructure condition, functionality, water availability, maintenance practices, and governance arrangements.

Usage

```
waterpointstatus
```

Format

A tibble with 1425 rows and 45 variables

waterpoint_id Unique identifier assigned to each water point.

latitude Geographic latitude of the water point

longitude Geographic longitude of the water point

waterpoint_image File name or reference to image captured during the survey visit.

functional_status Operational status of the water point at time of visit

downtime_duration Reported length of time the water point has been non-functional or abandoned.

abandon_reason Primary reason the water point was abandoned or left non-functional.

has_current_issue Indicates whether any current technical or operational problem was observed.

current_issue Type of current problem affecting the water point.

water_available_today Indicates whether water was available on the day of the visit.

continuous_30days Indicates whether the water point provided uninterrupted water supply over the past 30 days.

no_water_30days_reason Reason for water interruptions within the last 30 days.

repair_duration_days Number of days taken to repair the water point after the most recent breakdown

seasonal_unavailable Indicates whether the water source becomes unavailable during certain seasons.

seasonal_period Time of year when water is typically unavailable due to seasonal variation.

flow_test_possible Indicates whether a flow rate test could be conducted during the visit.

fill_time_20l Time required to fill a 20-litre container during flow rate test.

latrine_within_100m Indicates presence of a latrine within 100 metres of the water point.

observed_issues General technical or structural problems observed during the visit, multiple responses possible

water_quality_issues Observed or reported water quality concerns

preventive_maintenance Indicates whether routine preventative maintenance is performed on the water point.

maintenance_barrier Main reason preventing regular preventative maintenance.

user_population Estimated number of people regularly using the water point.

universal_access Indicates whether all community members have access to the water point.

households_no_access Estimated number of households without access to the water point.

access_barrier Primary reason some households lack access to the water point.

max_roundtrip_minutes Maximum reported round-trip time in minutes to collect water.

max_distance_metres Maximum reported one-way walking distance to the water point.

has_service_provider Indicates whether a designated service provider or operator is responsible for the water point.

provider_type Type of service provider responsible for operation and maintenance

has_tariff Indicates whether users pay a tariff or fee for water access.

tariff_frequency Frequency at which the water tariff or user fee is collected.

tariff_amount_mwk Amount charged per tariff period in Malawi Kwacha

tariff_cost_basis Cost factors considered when setting the water tariff

has_financial_records Indicates whether financial records or books are maintained for the water point.

has_positive_balance Indicates whether financial records show a positive account balance.

savings_or_loans Indicates evidence of savings accumulation or loan repayment in financial records.

record_balance_mwk Reported balance recorded in financial books

has_bank_account Indicates whether the service provider maintains a formal bank account.

bank_balance_mwk Reported balance held in the bank account

committee_year_formed Year the water point committee was established.

committee_member_count Total number of members serving on the water point committee.

committee_women_count Number of women serving on the water point committee.

treasurer_gender Gender of the committee treasurer.

months_unavailable Total number of months per year the water source is unavailable.

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