

## Real-time and Near-real-time Raingauge Data (AfA236)

### Dataset Description

The Environment Agency has approximately 1000 real time rain gauges which are connected by telemetry. Measurements of the amount of precipitation (mm) are captured in Tipping Bucket Raingauges (TBR). Each gauge provides event rainfall data (time of tip) every hour if rainfall has been recorded in that hour. Event data is only reported hourly when rainfall events (at least a single 0.2mm tip) are detected. Information is made available externally via an up to 15 min update

The format of the data and the frequency at which the data is updated varies depending on which download route is being used by the customer. A high frequency subset of approximately 160 real time gauges is also available (AfA147 High Frequency Real-time and Near-real-time Raingauge Data).

Continuous rainfall information from these gauges as well as those TBRs that are not on telemetry (c.400) is stored on WISKI and can be provided in non-real time. This is provided to the Met Office for quality control along with all the data from our registered daily storage gauges. It is therefore not covered by this AfA. The quality controlled dataset is covered in AFA148 Quality Controlled Daily and Monthly Raingauge Data from Environment Agency Gauges.

**Price Category: Medium**

Attribute Name	Attribute Description
Date	Date file created
Time	Time file created
Flags/comments	Comment or flag code (e.g. code for QC)
Identifier	e.g.NWRFHSCXAS1
Station reference	Reference based on combination of letters and numbers [unique identifier]
Region	Agency Region in which site is located
Station name	Name of station from WISKI system
NGR	British National Grid reference
Catchment	Name of river catchment in which site is located
Values/Parameters	i.e. storage rainfall
Qualifier	More detailed meta data relating to the value/parameter above i.e. tipping bucket rain gauge
Data type	Definition of data i.e. event
Period	Time interval of measurement i.e. every day
Units	Measurement units i.e. mm
Start Date	Date of first parameter in file
Start Time	Time of first parameter in file
End Date	Date of last parameter in file
End Time	Time of last parameter in file (may be identified as 'last collected result' on the screen if transferred data is uploaded to the web-site automatically)