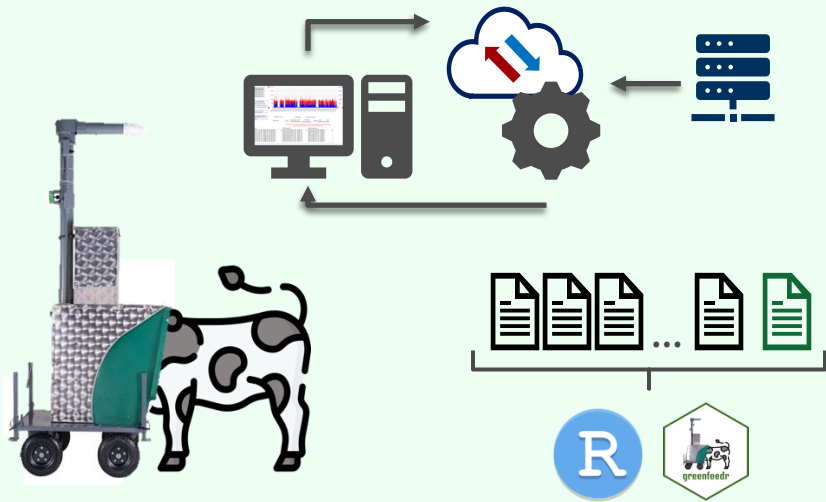


Data processing with greenfeedr :: CHEAT SHEET



Basics

greenfeedr provides a set of functions that help you to download, report, and process GreenFeed data



The main functions are:

get_gfdata() downloads GreenFeed data via API

report_gfdata() generates reports of GreenFeed data

process_gfdata() processes and averages GreenFeed data

pellin() processes pellet intakes from GreenFeed system

viseat() processes GreenFeed visits

Installation

You can install the released version 1.0.1 of greenfeedr from CRAN with:

```
install.packages("greenfeedr")
library(greenfeedr)
```

Downloading data

```
get_gfdata(user = <USER NAME>, pass = <PASSWORD>, exp = <NAME>, unit = <GF UNITS>, start_date = <MM/DD/YY>,
end_date = <MM/DD/YY>, save_dir = <DIR>)
```

Some fields are **required**, and others are **not required**. By default, the end date is the current date used when a study is in progress.

The function returns a CSV file with daily data (NAME_Gfdata.csv). This file could be used to report daily data using report_gfdata().

Processing data

```
process_gfdata(data = <GF DATA>,
start_date = <MM/DD/YY>, end_date = <MM/DD/YY>,
param1 = <records>, param2 = <days>, min_time = <2>)
```

There are 3 parameters that are required for data processing and that will have a high impact on the total number of records:

- **param1** is the number of records per day.
- **param2** is the number of days with records per week.
- **min_time** is the minimum duration of a gas record (by default, C-Lock Inc. used 2 minutes)

Extra functions

```
pellin(file_path = <GF DATA>, unit = <GF UNITS>, gcup = <34>,
start_date = <MM/DD/YY>, end_date = <MM/DD/YY>,
save_dir = <DIR>, rfid_file = <FILE PATH/DATA>,
```

```
viseat(file_path = <GF DATA>, unit = <GF UNITS>,
start_date = <MM/DD/YY>, end_date = <MM/DD/YY>,
rfid_file = <FILE PATH/DATA>)
```

Reporting data

Complete the template below to generate a PDF report:

```
report_gfdata(input_type = <DAILY/FINAL>, exp = <NAME>,
unit = <GF UNITS>, start_date = <MM/DD/YY>, end_date =
<MM/DD/YY>, save_dir = <DIR>,
plot_opt = <ALL/CH4/CO2/O2/H2>, rfid_file = <FILE
PATH/DATA>, user = <USER NAME>, pass = <PASSWORD>,
file_path = <FINAL REPORT>)
```



Two reports could be created by **process_gfdata()**:

- Daily GreenFeed Report
- Final GreenFeed Report

