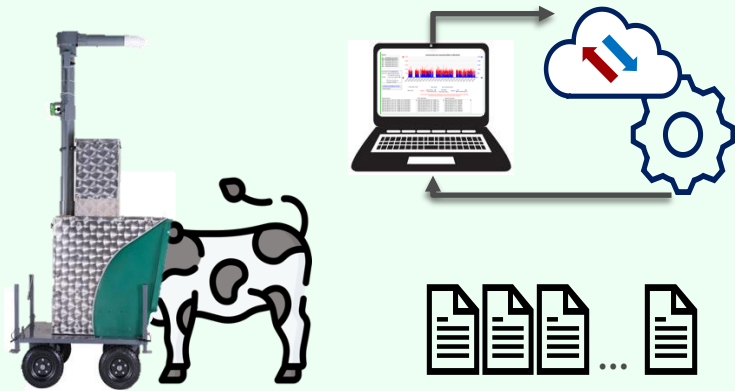


# Data processing with greenfeedr :: CHEAT SHEET



## Basics

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



The 5 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

**viseat()** processes GreenFeed visits

## Installation

You can install the development version of greenfeedr from <https://github.com/GMBog/greenfeedr>

```
# install.packages("pak")
pak::pak("GMBog/greenfeedr")
```

## Downloading data

```
get_gfdata(user = <LOGIN USER>, pass = <LOGIN 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 to use when a study is ongoing.

The function returns an Excel file:



NAME\_Gfdata.csv

## Processing data

```
process_gfdata(file_path = <GF DATA>,
start_date = <MM/DD/YY>, end_date = <MM/DD/YY>,
input_type = <DAILY/FINAL>,
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 = <RFIDFILE PATH>),
```

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

## Reporting data

Complete the template below to generate a R-markdown report:

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



Two reports could be created by **process\_gfdata()**:

- Daily GreenFeed Report
- Final GreenFeed Report

