

# TestPig\*\*\* Carbon Footprint

## Background

Climate changes have become evident. It is necessary that everybody contributes to reducing greenhouse gas emissions. For agriculture, the climate impact is calculated in an ESG tool based on CO<sub>2</sub> equivalents. Sources include the GFLI feed database, where the environmental and climate values are calculated according to a common European LCA method.

When it comes to CO<sub>2</sub> emission, Feed Conversion Ratio (FCR) is one of the most significant factors in the production of pigs. At the same time, feed represents the biggest expense in pig production. Since FCR influences the **emission** of greenhouse gases and **feed costs** and at the same time it is an indirect measure of the **health of the herd**, FCR is considered as an important measurement.

## The Customer's needs are

To know the carbon footprint of a product and/or to obtain experimental documentation for carbon footprint.

## TestPig offers

- **To calculate the carbon footprint of a diet based on LCA values from the customer's own data or from the GFLI database.** If no specific LCA value is available, a similar product is selected.
- **Documentation for reduction in CO<sub>2</sub> equivalents by FCR.** This is measured by a TestPig Flex test with, for example, a neutral control diet and a diet with one or more products in test.

## Benefits for the Customer

- Documentation of a product's carbon footprint
- Test under practical conditions
- Well documented test concept

## Measurement

Feed Conversion Ratio (FCR):

- Monitoring of feed intake
- Calculation of FCR, as kg feed per kg gain

Average daily gain (ADG):

- The pigs are weighed after 2, 4 and 6 weeks in the test
- Calculation of ADG, gram pr day

Health:

- Number of pigs taken out of trial, as well as the reason, are recorded
- Medicine consumption is recorded
- Faeces score

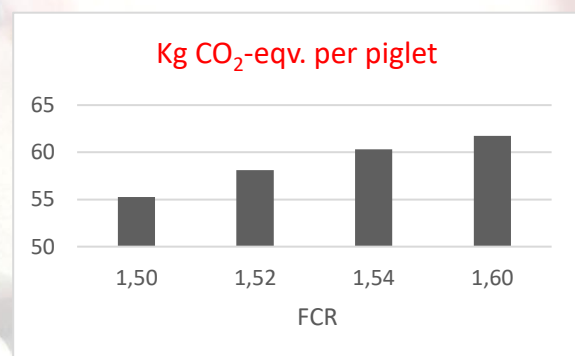


Figure 1. Relation between emission of CO<sub>2</sub>-eqv. and FCR (an example). Values based on GFLI-database, incl. LUC.

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