



# The Global Feed LCA Institute (GFLI) Database with emissions of feed ingredients



## What is GFLI?

The Global Feed LCA Institute (GFLI) is an independent non-profit animal nutrition and food industry institute created by the feed industry. The Institute developed and maintains a publicly available database of more than 1800 datasets on feed ingredients to make it possible for feed companies and other partners can calculate their feed (product) environmental footprint. This allows for meaningful environmental assessment of animal nutrition products with the purpose of creating insight on feed-related emissions to enable more sustainable livestock farming.



## How can I use the database?

The database can be used for benchmarking your own ingredients against the national averages in the database, hotspot analysis, scenario analysis, and calculating the environmental footprint of your compound feed through the use of feed formulation software tools.

## Why is this relevant now?

While policy and market drivers toward sustainable production continue to increase, the agricultural sector continues to face challenges to its efforts to provide healthy, safe, and delicious products to feed the growing world population. With insight about animal feed emissions, the feed industry is a crucial partner in the value chain. Downstream partners such as retail are more often starting to request this data from the farmers and processors they get their products from in order to calculate end-product environmental footprints (dairy, meat, eggs, fish).

As a feed industry initiative, the GFLI makes accurate and transparent data available to the feed sector and beyond as this data is relevant at all levels of the value chain. GFLI data is widely used in analysis intended to support the reduction of emissions across the entire animal production system and can also be used to help provide consumers with trustworthy information to support the purchase of more environmentally sound products



## What does the GFLI database look like?

The publicly available GFLI database is a collection of high quality secondary and industry datasets of feed ingredients calculated using Life Cycle Assessment (LCA) methodology. LCA is a method to evaluate resource use and pollution emissions during the life cycle of a feed ingredient. The data contains all emissions from 'cradle', the starting block of a feed ingredient, until ready to be shipped to a feed mill for processing into a feed pellet and/or farm for feeding livestock or farmed fish.

Depending on the product, these steps may include—but are not limited to—crop cultivation, fertilizer inputs, water, fish capture and landing, transport from farm to processing plant, processing at the plant, and more. The full life cycle impact assessment (LCIA) is the final product in its aggregated form, available in Excel for wide accessibility.

The GFLI methodology includes two calculation methods: EF3.0 and ReCiPe, and also provides three allocation options: economic (preferred method in Feed PEFCR), mass, and energy allocation.



## How can I support GFLI?

The GFLI is a membership-based institute that needs the support of the feed industry to establish strategic partnerships relevant to achieving its vision of becoming the global reference for LCA of feed ingredients. Becoming a member will help GFLI gain resources necessary to improve and expand the database, gain more data coverage worldwide, participate in discussions about methodological improvements, and contribute to sustainable developments within the sector

More information? Scan the QR code here

