SPECIALTY FEED INGREDIENTS HELP MITIGATING THE ENVIRONMENTAL IMPACT OF PIGS AND POULTRY PRODUCTION SYSTEMS

The Specialty Feed Ingredients Sustainability (SFIS) Project in North America

The results of the Specialty Feed Ingredients Sustainability (SFIS) Project in North America

**System Boundaries**

Functional Unit = 1000 Kg of animal live weight

- Water
- Electricity
- Natural gas
- Diesel
- LPG
- Fertilizer
- Pesticides
- Emissions to air
- Emissions to soil
- Emissions to water

**System Components**

- SFI production
  - Amino Acids
  - Phytase
- Preparation of feed
- Based feed production
  - e.g., soybean, corn, wheat, barley, rapeseed, etc.
- Animal husbandry
- Manure management

1 ton of animal live weight

**Relative change in N excretion**

Per 1000 kg LW of animals

**Relative change in P excretion**

Per 1000 kg LW of animals

**Improved Environmental Impacts**

- GWP
- EP
- AP

**About**

The Specialty Feed Ingredients Sustainability (SFIS) project consortium is led by the International Feed Industry Federation (IFIF) and the EU Association of Specialty Feed Ingredients and their Mixtures (FEFANA), and brings together the American Feed Industry Association (AFIA), the Japan Feed Manufacturers Association (JFMA) and the Brazilian Feed Industry Association (Sindirações), as well as companies active in the production of feed and specialty feed ingredients. For more information please visit: [www.ifif.org](http://www.ifif.org)

**GWP** Global Warming Potential

**EP** Eutrophication Potential

**AP** Acidification Potential

**N** Nitrogen

**P** Phosphorus

**LW** Live Weight

**Phy** Phytase