

Changing the world, one sustainable ingredient at a time



The largest producer of insect-based ingredients for animal and plant nutrition in North America.

Our challenge

As the world's population continues to grow, so does the demand for sustainable, nutritious animal feed.

By 2050, the global population is projected to reach 9.7 billion people, driving the need for a 74% increase in food production.



Feeding a growing world

We are proud to be apart of the U.S. agriculture industry.

- World population continues to grow
- Over 9 billion people by 2050 requires:
 - More food
 - More protein
 - More resources
- Insects are one piece of the puzzle
- Global crisis cannot be solved by one industry alone



Mission, vision and values

Mission

Enviroflight is the leading producer of sustainable black soldier fly larvae ingredients supporting a growing population. Our innovative platforms are designed to produce the highest quality and nutritionally consistent functional ingredients for animals and plants.

Vision

EnviroFlight aims to change the way the world views insects as feed. By leveraging our science and technology, EnviroFlight will continue to drive this sector forward, producing the highest quality sustainable insect-based ingredients trusted by customers across the globe.

Core Values

- 1. Sustainability
- 2. Innovation
- 3. Quality
- 4. Integrity
- 5. Growth



Earth's inhabitants

Insects: 52%

Other invertebrates: 19%

Plants: 16%

Fungi and Lichen: 6%

Chordates: 3%

Diatoms, bacteria, viruses, etc.: 3%

Insect Biodiversity

| 5,500 | mammals | |
|--------------|---------|--|
| 10,000 | birds | |
| 33,000 | fish | |
| 1,500,000 | insects | |
| >1.5 million | animals | |





Human consumption of insects





Commonly reared insects for animal feed

Black soldier fly (BSFL) (Hermetia illucens) – larval life stage Mealworm (Tenebrio molitor) – larval life stage Cricket (Acheta domesticus) – juvenile and adult life stage



BSFL



Mealworm



Cricket



Variety in insect product options





Black soldier fly is the ideal choice

- Thrive on many feed options
- Not considered pests
- Native worldwide
- Doe **not** carry zoonotic disease
- Does **not** bite or sting
- Sustainable and ecofriendly





Black soldier fly lifecycle





Enviroflight builds first commercial black soldier fly larvae facility in Maysville, Kentucky

Enviroflight considering \$32M investment in new Maysville facility

④ January 26, 2017 ● 458 Views









High quality ingredients derived from dried black soldier fly larvae

| Nutrients | EnviroBug | EnviroMeal | EnviroOil | EnviroPro |
|-------------|-----------|------------|-----------|---------------------------|
| Protein | 34 % | 50% | | All-natural fertilizer |
| Fat | 26 % | 9-15 % | 98 % | |
| Calcium | 2 % | 2 % | | N-P-K and minerals |
| Fatty-acids | Medium | Low-Med | High | |



EnviroProducts

EnviroBug: Nutritious, premium ingredient composed of oven-dried whole black soldier fly Larvae.

EnviroMeal: Created by pressing fat out of dried black soldier fly larvae, making a high-protein, finely ground product.

EnviroOil: Derived from pressed dried black soldier fly larvae, resulting in an oil rich in lauric acid.

EnviroPro: A nutrient-rich product derived from black soldier fly larvae frass.

EnviroFeed: A nutrient-rich product derived from the production of black soldier fly larvae, used as a feed ingredient.





Efficiencies in sect production systems





Efficiencies in sect production systems





Animal feed and pet food safety

The Food and Drug Administration (FDA) makes sure that all animal feed and pet food is made safely through the Food Safety Modernization Act (FSMA).

This regulation has **7 rules**:



FoodDercs



U.S. regulatory status of black soldier fly larvae

| Definition Status as of August 2024 | | | | | |
|--|--|---|--|--|--|
| Markets | EnviroBug/EnviroMeal | EnviroOil | | | |
| Dogs | All life stages (EnviroFlight exclusive*) Official – Adult dog (AAFCO) | All life stages (EnviroFlight exclusive*) Official – Adult dog (AAFCO) | | | |
| Cats | All life stages (EnviroFlight exclusive*) Tentative – Adult cat (AAFCO**) | All life stages (EnviroFlight exclusive*) Tentative – Adult cat (AAFCO**) | | | |
| Poultry | Official (AAFCO) | All life stages (EnviroFlight exclusive*) Under FDA review (AAFCO***) | | | |
| Swine | Official (AAFCO) | Official (AAFCO) | | | |
| Aquaculture | Official – Salmon Tentative – Finfish (AAFCO**) | Official (AAFCO) | | | |
| | | *EnviroFlight exclusive – Self-determined GRAS **Official vote expected Jan 2025 | | | |

***Official vote expected Aug 2025



Supported by our parent company: Darling Ingredients

A leading innovative developer and producer of sustainable ingredients.

Technical expert in the scale-up and engineering for the commercial production of food ingredients.





A growing industry can grow a career















Thank you!

For questions or more information, visit darlingii.com/enviroflight.