CGIAR

ng African Agricult

International Institute of

Commodities

**Tropical Agriculture (IITA)** Dr Rousseau DJOUAKA

## BSFF: Organic fertilizer for soil improvement

Low cost fertilizer for healthy and profitable agriculture for African farmers.

Frass is a nutrient-rich compost produced from black soldier fly larvae (BSFL) treatment of biodegradable waste. Commercially, it consists of BSFL faeces, substrate residues, exoskeletons, and a microbial population aiding fermentation.

		Commodifies
This technology is <u>validated</u> .		Vegetable crop
Inclusion assessment	Climate impact	Sustainable Development Goals           2 ratio         3 color HALIF           2 ratio         3 color HALIF           ( )
<ul> <li>Problem</li> <li>Africa faces a lack of organic waste management solutions, leading to severe environmental threats.</li> <li>Soil fertility in smallholder farms is declining due to nutrient imbalances, where more nutrients are extracted than replenished, worsening food security.</li> </ul>	<ul> <li>Solution</li> <li>BSFF technology converts organic waste into nutrient-rich compost, reducing environmental contamination and improving soil fertility.</li> <li>It promotes sustainable agricultural practices by enhancing soil health.</li> </ul>	Categories Production, Inputs, Fertilizer
<ul> <li>Key points to design your project</li> <li>To integrate the BSFF technology into your project:</li> <li>Educate Farmers: Raise awareness among farmers about the benefits of using BSFF fertilizer for improving crop yields and soil health.</li> <li>Promote Accessibility: Ensure equitable access to BSFF products and financial support for local suppliers and smallholder farmers.</li> <li>Calculate Fertilizer Needs: Determine the required quantities of BSFF fertilizer, considering a recommended application rate of 10 tons per hectare for poor soils.</li> </ul>		Black Soldier Fly Larvae (BSFL) proteins for low cost Fish feeds See all 1 technologies online Tested/adopted in Tested & adopted Adopted Tested & adopted Tested & adopted Tested & adopted Tested & adopted Tested & adopted Tested & adopted
Cost: \$ 3 USD Per 50kg bag Pr National phase application		Where it can be used This technology can be used in the colored agroecological zones.
		Target groups



BSFF https://taat.africa/wma Last updated on 17 June 2025, printed on 17 June 2025 Enquiries <u>e-catalogs@taat.africa</u>