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Orlando Simões e José Luis Barbosa (coord.)

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Economic impact of Lalguard Java bioinsecticide on the biological control of the whitefly on common bean

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Abstract

The bioinsecticide Lalguard Java, developed in a public-private partnership between Embrapa and the company Lallemand Plant Care, was registered at MAPA in August 2022 to control the whitefly, *Bemisia tabaci*.
In 2023, technical coefficients in the main common bean-producing regions in the 3rd harvest season were surveyed to measure the impact and economic benefit of the new bioinsecticide. The average yield of beans (cultivar Pérola) with Lalguard Java was 48.0 60-kg bags ha^{-1}, at a production cost of BRL 7,102.63 ha^{-1}.
In the conventional system, using chemical insecticides, the farmers' production costs were BRL 7,458.47 ha^{-1}, a higher cost to obtain the same yield of 48.0 60-kg-bags ha^{-1}. The average unit cost of a 60-kg bag in the conventional cropping system was BRL 155.38, and with Lalguard Java, it was BRL 147.97. The new bioinsecticide provided farmers with a profitability of 62% with the cropping system; for those who used the conventional system, the profit was 54%.
The regional economic benefit for society via agribusiness was BRL 6,049,280.00, given the cost reduction, the adoption area of 34,000 ha and Embrapa's 50% participation in the research and development of this technological innovation.

Keywords
Yield; Production Cost; Economic Benefit

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