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Economic Assessment of Common Bean Variety BRS Estilo in Brazil

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Abstract

This study aimed to economically evaluate BRS Estilo, a variety of common bean (*Phaseolus vulgaris* L.), of ‘carioca’ commercial type, developed by EMBRAPA Rice and Beans and its partners. This technology was suitable for the first cropping season in the states of Goiás, Sao Paulo, Paraná, Santa Catarina, Rio Grande do Sul and Pernambuco; for the third cropping season in the states of Goiás, Mato Grosso and Tocantins; and second cropping season in the states of Goiás, Paraná, Santa Catarina, Rondonia, Mato Grosso and Mato Grosso do Sul. The economic analysis was referring to earlier technology – the variety Perola – which was commercially released in 1994 for the same coverage area. We evaluated four successive years of BRS Estilo, i.e. the crop 2010/2011, 2011/2012, 2012/2013 and 2013/2014. In the above region, there have been considerable increases in the factor prices, mainly inputs, which resulted in the increase in the average product cost. Prices received by bean producers also varied and ranged from R\$ 95.40 to 205.17 per 60 kg bag. This variation did not compromise the bean business, which is economically viable and guaranteed in the production chain. The common bean producers, by adopting the common bean cultivar BRS Estilo, yielded on average in the first and second cropping seasons, and had a cost of R\$ 2,414.38 to produce 33 bags of 60 kg per hectare. The winter crop, produced 53 bags of 60 kg per hectare with costs of R\$ 3,876.84. The average financial return on investment was 112 % for the winter crop, and 105 % for the first and second cropping season. The BRS Estilo variety contribution over the whole period, to the bean agribusiness in Brazil was R\$ 239,431,760.83 (US\$ 106.00 million). The transfer process of the BRS Estilo to the productive sector represents 7.5 % of the total cost for the development of the technology since the year 2000. In addition to the economic benefit provided by the adoption of this technology, it has also generated more jobs and increased product supply on the market.

Keywords: Common bean, economic impact, production costs, profitability