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Technical Efficiency and Agricultural Sustainability of Jambi's Corn Production

Authors

Edison Edison, Rosyani Rosyani

Corresponding Author

Edison Edison

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Technical Efficiency, Corn Production, And Sustainable Agriculture

Abstract

Jambi is a unique province in Indonesia that has a diverse climate and natural resources to improve the yield of many commodities like corn. In terms of improving domestic corn and decreasing production loss, more producers apply high portions of un-organic fertilizers, and pesticides, with not thinking about the impact of temporary and long-time environmental problems. The research aim was to analyze technical efficiency and sustainable corn production through sustainable agriculture in Jambi province. Technical efficiency

and agricultural sustainability model applied using a stochastic production frontier. The research location was chosen in peat land, and also data were collected through interviewing 120 corn producers in Jambi that chosen by systematic random sampling. The research finding of the analysis showed mean technical efficiency scores of about 74%, meaning that the agricultural production in Jambi produces 74 percent of the potential yield given the technical efficiency existing in the research area. Agricultural sustainability results also give a good implication on corn production. This means that the technical efficiency and agriculture sustainability of a rather sustainable region in corn production had impacted properly.

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