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Edison, Dharis Renate

Research purpose was to analyse effect of agricultural business in soybean crop. Effect government policy program has been seen through high trend of soybean production in Jambi for three decade (1986-2018). Those policy programs include support price, also input subsidy programs. Differentiation on input acreage, yield, also output has been affected by input price like fertilizer price. Successfulness policy programs can be seen through crucial indicator among important coefficients of policy programs. In some research result, it can be found some policy implications. The first policy implication stated that price support policy is much credible also important for program improvement. Impact of this program of soybean is crucial to analyse response production. In analysing acreage response, method of measuring price expectation is used when variation of market phenomena was affected by price support. Then, results also found that if support price is low from riel price, truncation effect has no effect and price support program has low effect on acreage decisions. On other hand, if price support rate is high, truncation effect is getting higher, and it is much better impact to make acreage decisions. Price soybean elasticity was 0.091 also 0.105 for short-run acreage response and long run respectively. Moreover, it was acceptable on economic and statistical aspects.

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# Proceedings of the 3rd Green Development International Conference (GDIC 2020)



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## Technical Efficiency and Agricultural Sustainability of Jambi's Corn Production

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Available Online 26 August 2021.

**DOI****10.2991/aer.k.210825.026** [How to use a DOI?](#)**Keywords**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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