# TECHNICAL EFFICIENCY ANALYSIS OF FEED CORN PRODUCTION IN KINALI DISTRICT, WEST PASAMAN REGENCY

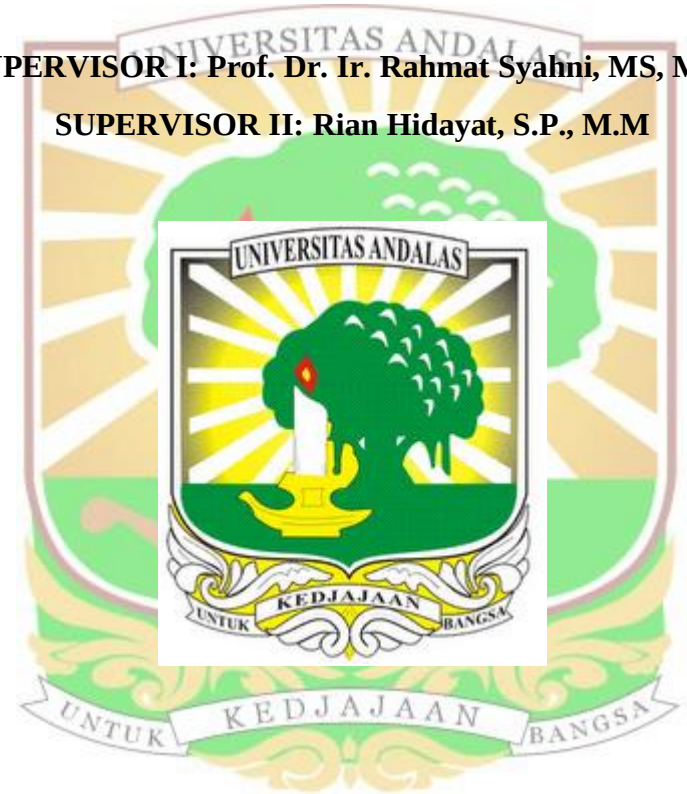
**BY**

**RACHMAD DWI PUTRA**

**1710223015**

**SUPERVISOR I: Prof. Dr. Ir. Rahmat Syahni, MS, M.Sc**

**SUPERVISOR II: Rian Hidayat, S.P., M.M**




**FACULTY OF AGRICULTURE**

**ANDALAS UNIVERSITY**

**PADANG**

**2024**

# TECHNICAL EFFICIENCY ANALYSIS OF FEED CORN PRODUCTION IN KINALI DISTRICT, PASAMAN BARAT REGENCY


## Abstract

This research aims to analyze the factors that significantly affect the corn production level, analyzing the technical efficiently level in corn farming productions factors and analyzing social factors that affect technical efficiency in Kinali District, West Pasaman Regency. This study collected the data through survey questionnaires with farmers group. The research used Stochastic Frontier Analysis (SFA) for technical efficiency analyze. The results showed that production of corn farming in Kinali District is influenced by seed usage, fertilizer usage, and pesticide usage. Most farmers still have the opportunity to improve their technical efficiency by 0.26. There is variation in the level of efficiency, with the lowest efficiency level at 0.33 and the highest efficiency level at 0.99 and third social factors such as land ownership status and capital source significantly affect technical efficiency in corn farming. Based on the conclutions this research suggest farmers in the research area should focus on improving their skills in allocating production factors, especially seed usage, as this factor have the most significant and positive impact and land ownership status and capital source advisable for the government to facilitate access to loans or capital for farmers to enhance corn farming in Kinali District.



Keywords: Corn production, Stochastic Frontier Analysis, Technical Efficiency.