



## SUMMARY

MASETYA MUKTI. The Study of corn farming (Comparasion of Colaboratory and Independent System in Jember Regency). Suggested by NOER AZAM ACHSANI and HARIADI SUBAGJA.

Jember is one of Corn Production Center in Indonesia. There are some Big Corn Seedling Company exist. Such as PT Dupont Indonesia (Pioneer), PT. Bisi International Tbk, Syngenta and Monsanto. Related to this condition, the corn farmer viewed from the production system are devided into two types of production system. They are colaboratory production system which is under of seedling company and independent production system. The two types of production system have their own differences.

In general, This research was purposed to perform the farming study and analyze how far is the colaboratory and independent production system will help farmer to increase their revenue and give more beneficial. In particular, the purposes of this research were analyze the factors efficiency of colaboratory and independent production system, analyze the corn farmer revenue of colaboratory and independent production system and design better startegies of corn farming to the farmer.

The design of this research was survey. The data resources were obtained by giving direct questioner and interviewing the respondens directly. The respondents were 40 corn farmers which were consist of 20 colaboratory corn farmers and 20 independent corn farmers. *Proportionate Stratified Random Sampling* was a method used to get the data.

The results of this research which was using production function analysis of cobb-douglas showed that all factors of production , namely the labor ( $X_1$ ), fertilizer ( $X_2$ ), pesticide ( $X_3$ ), land area ( $D_1$ ) and seed ( $D_2$ ) of colaboratory and independent production system influenced significantly to the corn production( $Y$ ) as a simultan. As a partial, the variables of corn production factors using colaboratory production system that influent the corn production significantly were the fertilizer ( $X_2$ ), pesticide ( $X_3$ ) and land areas( $D_1$ ). Then, the variables of corn production factors using independent production system which influent the corn production significantly were fertilizer ( $X_2$ ), land areas ( $D_1$ ) and seed ( $D_2$ ).

Based on the revenue analysis, in Jember district, the everage profit of corn farming production using colaboratory production system was Rp 10.129.715,00 per Ha and the everage profit of corn farming production system using independent production was Rp 11.603.928,00 per Ha. The R/C ratio in colaboratory production system was 3,21 and in independent production system was 3,03.

The Study of Corn Farming between Colaboratory and Independent Production System has difference in some aspect, that is capital, soil, production and marketting aspects.

Keyword: Corn, Farming, Colaboratory, Production Function of Cobb-Douglas.

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