

ABSTRACT

Along with the increasing population and the development of economic structure, the need for land for non-agricultural activities tends to increase. This tendency causes the conversion of agricultural land is difficult to avoid. One effort to maximize available land can be done by conducting integrated cultivation. This study aims to determine the optimum amount produced from LSU cultivation (Lele, Vegetable and Poultry) integration systems in order to maximize revenue

This study use data collection method in the objects of research by a direct observation LSU farming company in Central Java. Linear programming used as an instrument for determining the amount of optimum position that must be producing of three scenario: 4 m² , 6 m², and 8 m²

This research use assumption of capital availability by Rp 7,000,000 and broad land 8 m².The results show that with the availability of optimal benefits obtained from the integrated LSU cultivation is Scenario two, with a capacity as many as 825 catfish, 150 pakcoy vegetables, and 30 laying chickens so as to generate maximum revenue in the period of three months amounting to Rp 1,461,745, with limited capital, scenarios two unable to maximize its production catfishes, because of production maximum catfishes about 900 fish.

Kerword : Integrated Farming System, Optimization of Production, Linear Programming