

## **CHAPTER V**

### **CONCLUSION AND IMPLICATION**

#### **A. Conclusion**

Based on research and discussion regarding the factors that influence land productivity by using the rice-fish culture system in Panembangan Village, the following results were obtained:

##### **1. Variables That Have a Significant Influence**

The variables of technology utilization and land area are variables that have a significant influence on land productivity in Panembangan Village, where technology utilization has a positive relationship while land area has a negative influence.

##### **2. Variables That Do Not Have a Significant Influence**

The variables of education level and government role are variables that do not have a significant influence on land productivity in Panembangan Village. Although the influence is not significant, education level has a negative relationship and government role has a positive relationship on land productivity.

##### **3. The Most Influential Variables**

Based on research result, the use of technology is the most influential variable on land productivity in Panembangan Village. This can be seen from the level of elasticity, where changes in the use of

technology have the greatest influence on land productivity in Panembangan Village.

## **B. Implication**

Based on the research that has been conducted, the following research implications can be obtained:

1. The results of this study are theoretically expected to provide a contribution of thought to scientific knowledge and research insights in the field of agriculture, especially regarding the factors that influence the level of productivity of agricultural land.
2. The government is expected to provide information and training to farmers regarding the use of modern technology in agriculture. This is certainly very useful in terms of time and energy efficiency, or even has the potential to increase farmer productivity. This must also be supported by farmers' openness to technology.
3. In addition to training on the use of technology, the government can also provide quality rice seeds and fish seeds, although not free, but this is certainly very beneficial for farmers. For example, farmers who find it very difficult to find male (monosex) and quality fish seeds, if the government can provide these seeds again, of course farmers will be greatly helped, on the other hand the government also does not experience losses because farmers are still willing to pay.

4. Land area has a negative relationship with land productivity, this happens because some farmers are worried that their harvest cannot be distributed. Therefore, the government is also expected to pay attention to farmers' production results in terms of post-harvest so that farmers can focus on maximizing land productivity without worrying that their harvest will not be distributed.

### **C. Research Limitations**

Everything in this world certainly has shortcomings and limitations, including in this study, the author himself feels that there are still many shortcomings that need to be fixed as well as limitations in this study. These limitations or shortcomings include:

1. There was a significant reduction in water discharge because the irrigation channels leading to the rice fields were used as water sources in development projects in the form of road widening, this meant that rice-fish farming could not be carried out temporarily because the irrigation sources were reduced.
2. The assistance provided by the government in the form of funds, rice seeds, fish seeds, and training to farmers in Panembangan Village has been completed, this has affected public interest in the rice-fish culture system decrease.