

M YAMIN

Universitas Sriwijaya, Indonesia

EKA MULYANA

Universitas Sriwijaya, Indonesia

DINI DAMAYANTHY

Universitas Sriwijaya, Indonesia

AMIN REJO

Universitas Sriwijaya, Indonesia

SHENDY Y. HEARTIANA

Universitas Sriwijaya, Indonesia

ADOPTION LEVEL OF RICE FARMING TECHNOLOGY ON SWAMP LAND IN INDONESIA

Abstract:

Improved agricultural technology adoption has the potential to increase the productivity of rice and maximize profit farming. However, the farmers who cultivate swamp land have many limitations to adopting all of the rice technology. The aims of this study were (1) to analyze, and its impact on productivity and (2) to analyze the influence of socio-economic characteristics on the level of technology adoption of rice farming in swampy land. The sampling method used was the simple random sampling method, and data was collected through direct interviews with 90 rice farmers. The collection of data used includes primary and secondary data. Processing data using simple linear regression and multiple regression. The results showed that farmers had adopted technology in the form of tractors, organic fertilizers, inorganic fertilizers, pesticides, combined harvesters, superior varieties of seeds, and rice threshing machines. The level of technology adoption is in the high category. There is Pattern A (tractor, organic fertilizer, chemical fertilizer, insecticide, HYV, combine harvester) which has a proportion of farmers of 62.2% and a productivity of 3,187 kg/ha. The variables age, education level, land area, experience, income, interaction with extension workers, availability of facilities and infrastructure, and institutional roles all affect the adoption rate. Farmers should own or raise livestock such as goats or cows. To be able to adopt organic fertilizer technology that can increase productivity by Pattern C (tractor, organic fertilizer, chemical fertilizer, insecticide) with low variable costs.

Keywords:

rice farming, productivity, swamp land, technology, adoption.

JEL Classification: A10, A14, A19