

**PENGARUH PENERAPAN TEKNOLOGI TERHADAP  
PENDAPATAN USAHATANI PADI SAWAH  
DI KECAMATAN WASILE TIMUR  
KABUPATEN HALMAHERA TIMUR  
PROVINSI MALUKU UTARA**

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**ABSTRAK**

Penerapan teknologi oleh petani diharapkan meningkatkan produktivitas sehingga berkontribusi pada naiknya pendapatan. Penerapan teknologi oleh petani di Kecamatan Wasile Timur meliputi penggunaan *hand tractor* (Pengolahan Tanah), sistem tanam legowo (Penanaman), penggunaan pupuk urea dan NPK (Pemupukan), penggunaan pestisida (Pengendalian Hama) dan penggunaan mesin *combine harvester* (Panen). Tujuan penelitian ini adalah 1). Mengetahui tingkat penerapan teknologi usahatani padi sawah di Kecamatan Wasile Timur. 2). Mengetahui pengaruh penerapan teknologi terhadap pendapatan usahatani Padi Sawah di Kecamatan Wasile Timur. Penelitian dilakukan di Kecamatan Wasile Timur Kabupaten Halmahera Timur Provinsi Maluku pada bulan April-Mei 2020. Metode penelitian yang digunakan adalah wawancara dengan menggunakan kuisisioner dan dokumentasi. Teknik penentuan sampel secara *simple random sampling* (acak sederhana) yang mewakili populasi. Jumlah sampel dalam penelitian ini sebanyak 50 responden usahatani padi sawah. Analisis data yang digunakan yaitu analisis deskriptif, analisis regresi linear berganda dan uji t. Hasil penelitian ini adalah 1). Penerapan teknologi oleh petani di Kecamatan Wasile Timur pada kategori tinggi dengan nilai persentase sebesar 70 persen. 2). Penerapan teknologi pada tahapan budidaya padi sawah yang sangat berpengaruh terhadap pendapatan adalah penggunaan mesin *combine harvester* pada kegiatan panen dengan nilai signifikasni  $0,001 < 0,05$ . Sedangkan nilai signifikansi penerapan teknologi pengolahan tanah, Penanaman, pemupukan, dan pengendalian hama, berpengaruh tidak signifikan terhadap pendapatan dengan nilai signifikasi 0,055, 0,663, 0,606 dan  $0,209 > 0,05$ . Diperoleh persamaan regresi berganda  $Y = 3678578,751 + (-2,718X_1) + 1,507X_2 + (-2,647X_3) + (-6,568X_4) + 8,216X_5$ .

**KATA KUNCI: Penerapan, Teknologi, Pendapatan**

**THE EFFECT OF TECHNOLOGY APPLICATION TO LOWLAND RICE  
(*Oryza Sativa L.*) FARMING INCOME IN DISTRICT EAST WASILE  
EAST HALMAHERA REGENCY  
NORTH MALUKU PROVINCE**

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**ABSTRACT**

*The application of technology by farmers is expected to increase productivity, so it can contribute to increased the income. The application of technology by farmers in East Wasile District, includes the use of hand tractors (soil processing), legowo planting systems (planting), use of urea and NPK fertilizers, use of pesticides (Pest Control) and use of a combine harvester (Harvest). The objectives of this research are 1). Knowing the level of application of lowland rice farming technology in East Wasile District. 2). Knowing the affect of the application of technology on the income of rice farming in East Wasile District. This research was conducted in East Wasile District, East Halmahera Regency, Maluku Province in April-May 2020. The method of this research is used interviews with using questionnaires and documentation. The technique of determining the sample is used simple random sampling (simple random) that represents the population. The number of samples in this research were 50 respondents of lowland rice farming. The data analysis used is descriptive analysis, multiple linear regression analysis and t test. The results of this research are 1). The application of technology by farmers in East Wasile District is in the high category with a percentage value of 70 percent. 2). The application of technology at the lowland rice cultivation stage which greatly affect income is the use of a combine harvester machine in harvesting activities with a significant value of  $0.001 < 0.05$ . While the significance value of the application of soil processing technology, planting, fertilization, and pest control, has no significant effect on income with a significance value of  $0.055, 0.663, 0.606$  and  $0.209 > 0.05$ . Obtained multiple regression equation  $Y = 3678578,751 + -2,718X1 + 1,507X2 + -2,647X3 + -6,568X4 + 8,216X5$ .*

**Keywords:** *Application, Technology, Income*