

***Analysis Of the Effectiveness of water Discharge on a Portabel Sprayer System  
Based Internet Of Things on Vanili Plants***

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**ABSTRAC**

*The agricultural sector is also an important aspect in national understanding, especially regarding the utilization and application of strategic results related to food commodities. The assessment and optimization of agricultural products are expected to be conducted comprehensively and utilized to the fullest extent, so that the entire Indonesian population can appreciate them. Vanilla, or Vanilla planifolia Andrew, is a plantation crop whose fruit is used as a raw material in the production of food flavorings and perfumes. Indonesia exports vanilla and has various internal factors that can support the increase in its production to meet global market demand. This research aims to analyze the effectiveness of water flow in the Portable Sprayer System Based Internet Of Things on vanilla plants. The study uses an experimental method where data collection techniques involve two variables: independent and dependent, and compares the effectiveness of water flow between the Portable Sprayer System and Conventional Sprayer. Data analysis uses a simple regression model. The results show that the Portable Sprayer System is more stable in water usage, at 0.042 liters/minute, while the Conventional Sprayer uses water more wastefully, at 0.245 liters/minute.*

*Keyword : The Agriculture sector, Portabel Sprayer System, effectiveness, vanili plants*