APPLICATION OF LEMURU FISH (Sardinella lemuru) AND BOKASHI STRAW POC ON THE GROWTH AND PRODUCTION OF CORN (Zea mays L.)

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Abstract

The increase in population in Indonesia in 2025 has reached 284 million people which has an effect on increasing consumption of food commodities, namely corn. So far, to increase corn productivity, inorganic fertilizers are still used which can harm soil health, a safer alternative is to utilize lemuru fish waste into POC and straw into bokashi to support sustainable agriculture. The study was conducted in Kertonegoro Village, Jenggawah, Jember Regency using Factorial RAK consisting of two factors with three replications. Data processing was carried out with ANOVA test and DMRT further test at 5% level. Based on the study, the results showed that the combination of treatments, namely POB3, gave the best results in most variabels and was significantly different from other treatments, while the first single factor treatment that gave superior results was lemuru fish POC with the highest concentration of 30 ml / l, while the second single factor treatment that gave the best results was a straw bokashi dose of 34 tons / ha.

Keywords: corn, POC lemuru fish, Bokashi straw