RESPONSE OF GROWTH AND PRODUCTION OF MAIZE – EDAMAME SOYBEAN ON DIFFERENT PLANTING PATTERNS IN THE DRY SEASON

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ABSTRACT

This research aims to determine the growth response and production of maize and edamame soybeans in intercropping and monoculture planting patters during the dry season. This research was conducted from June 2024 to September 2024 in the Kebonsari agricultural field, Jember. This study compares four planting patterns: monoculture of maize; intercropping of maize and edamame soybeans; intercropping of maize and edamame soybeans with basil; and intercropping of maize and edamame soybeans with lemongrass. The research results show that the intercropping pattern of maize and edamame soybeans produce the highest yield compared to other planting patterns. In addition, the intercropping pattern of maize and edamame soybeans is considered more efficient and effective with a Land Equivalent Ratio (LER) value of 1,78.

Key words: border plants, climate change, intercropping. LER.