

ABSTRACT

EFFECT OF ORGANIC FERTILIZER ON CHEAP MUSHROOM (*Volvarella volvacea* L.) CULTURES ON CARDBOARD PAPER MEDIUM

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Mushroom is a horticultural commodity that has good prospects for development. The planting media commonly used in mushroom cultivation is straw or rice straw. Fertilization is an important activity in the process of plant cultivation, because fertilizer is the main need for every plant to grow and develop optimally. The application of organic fertilizer to the cardboard paper planting media aims to add both macro and micro nutrients to the planting media to support the maximum sustainability of the mushroom fruiting body growth. This study aims to determine the effect of organic fertilizer dosage on cardboard cardboard planting media on straw mushroom yields. The study used a Randomized Block Design (RBD) with five doses of organic fertilizer and repeated five times, the treatments tried were A = no organic fertilizer (control), B = 0.5 kg/m² of organic fertilizer, C = 1 organic fertilizer. kg/m², D = 1.5 kg/m² organic fertilizer, E = 2 kg/m² organic fertilizer. The results showed that the application of organic fertilizer to the paperboard planting medium had an effect on the weight and number of mushroom fruiting bodies per plot (m²). The application of organic fertilizer with a dose of 1.5 kg/m² and 2 kg/m² produced the best mushroom weight and body count.

Keywords: mushroom, planting medium, organic fertilizer.