ABSTRACT

THE EFFECT OF SOIL AND FERTILIZER RATIO OF SWEET CORN MANURE ON PLANTING MEDIA ON THE GROWTH OF SENGON SEEDS (*Albizzia falcataria* L.)

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Sengon (*Albizzia falcataria* L.) is one of the fastest growing plants, so it can immediately produce wood. For sengon seedlings, planting media is needed that contains the nutrients needed by plants, a mixture of planting media used is soil and sweet corn manure. The purpose of this study was to determine the best ratio of sweet corn manure and soil for growth of sengon seedlings. The purpose of this study was to determine the ratio of soil and sweet corn waste compost on the planting medium that had the best effect on the growth of sengon seedlings. This study used an experimental method of Randomized Block Design (RBD) which consisted of 4 treatments, which were repeated 6 times The four treatments were as follows: A = soil (control), B = soil + sweet corn manure (1:1), C = soil + sweet corn manure (1:2), and D = soil + corn waste manure (1:3). The data were analyzed using variance with the F test and continued with Duncan's Multiple Range Test with a real level of 5%. The results of the study the effect of the ratio of soil and sweet corn manuret on planting media on the growth of sengon seedlings had a significant effect on plant height and dry weight of planting seeds, but had no significant effect on stem diameter, root length, fresh weight of planting seeds, and root shoot ratio. The application of sweet corn manure on the planting media on the growth of sengon seedlings with a ratio of soil + sweet corn waste compost 1:2 gave a good effect on plant height, stem diameter, seed fresh weight and dry weight of sengon seeds.

Keywords: *Sengon, growing media, sweet corn manure*.