ABSTRACT

The objective of this research is to increase the productivity of tin mining area and to know the effect of organic material on tailing land of tin mining planted with sweet corn yield (Zea mays saccharata). The study was conducted from January 2017 to May 2017 on private land located in Padang Siput village, Jukung Water Village, Belinyu District, Bangka.

The experiment was carried out in experimental method randomized completely design with single factor. The treatment were combination of several kinds of organic materials with the treatment as follows: A. Without the treatment of organic matter, B. 15 tons of chicken manure / hectare + 15 Tons of composting Eceng Gondok / hectare, C. 10 tons of Chicken manure / hectare + 20 tons of composting Eceng Gondok / hectare, D. 20 tons of chicken manure / hectare + 10 tons of composting Eceng Gondok / hectare, E. 15 tons of cow manure / Hectare + 15 tons of composting Eceng gondok / hectare, F. 10 tons of cow manure / hectare + 20 tons of composting Eceng Gondok / hectare, G. 20 tons of Cow manure / hectare + 10 tons of composting Eceng Gondok / hectare, H. 15 Tons of Goat manure / hectare + 20 tons of composting Eceng Gondok / hectare, I. 10 tons of Goat manure / hectare + 20 tons of composting Eceng Gondok / hectare, and J. 20 tons of Goat manure / hectare + 10 tons of composting Eceng Gondok / Hectare. In this study, each treatment was repeated six times consisting of 3 victim plants and 3 sample plants. So overall there are 60 units of experiment.

The results showed that organic matter application can improve the productivity of former tin mining area, it can be seen from the analysis of growth that gives real effect, and the result of conversion of sweet corn reaches 7,870 tons / hectare. Effect of treatment of organic material application of 20 tons of chicken manure / hectare + 10 tons of composting Eceng Gondok / hectare and the effect of treatment of dirt application 20 tons of cow manure / hectare + 10 tons of Eceng Gondok / hectare give the best influence to increase the growth and yield of sweet corn plant in former Tin mining.

Keywords: Organic material, Tin mining area, Sweet corn