THE EFFECT OF BLOTONG COMPOST ON THE GROWTH OF SUGARCANE VARIETY OF BULULAWANG IN THE SOIL AREA OF FIRDAUS BEACH, ASEMBAGUS DISTRICT

Supervised by: Sepdian Luri Asmono, S.ST., M.P.

Tegar Cahya Gemintang

Plantation Plant Cultivation Study Program
Department of Agricultural Production

ABSTRACT

Sugarcane (Saccharum officinarum L.*) is the only white sugar producer in Indonesia. Increasing sugar production must be balanced with good cultivation patterns, such as optimizing the sugarcane growth phase. In the tillering phase itself produces the growth of tillers. In this study examined the soil in the coastal area. In the coastal area soil itself there are obstacles to plant growth, such as a lack of nutrients in the soil and easy leaching of the soil which causes the soil to lack nitrogen. The addition of filter cake compost is needed to maximize the elements in the soil of the coastal area. This study aims to determine the impact of tillering phase of sugarcane growth from the application of Beach area soil and filter cake compost and to determine the appropriate dose of bagasse compost in order to get the best sugarcane crop yields. This study used non-factorial (RBD) with 5 treatments, 4 plant units, and 4 replications. The number of plants studied was 80 plants. The treatment consisted of P0 = Soil in the Firdaus Beach area as a control (100%), P1 = Soil in the Firdaus Beach area: Blotong compost (75% : 25%), P2 = Soil in the Firdaus Beach area: Blotong compost (50% : 50%) , P3 = Soil in the Firdaus Beach area: Blotong Compost (25% : 75%), P4 = Blotong Compost (100%). The results of the final project research that has been carried out can be concluded that the effect of filter cake compost on the soil of the Pantai area for sugar cane plants showed significantly different results in the parameters of plant height at the age of 14 HST and 42 HST, while plants aged 70 HST showed very significantly different results. The parameter of the number of tillers showed significantly different results at 42 HST observations. The most influential dose of filter cake compost on the beach area soil was the 50% Firdaus Beach area soil treatment and 50% filter cake compost (P2) as evidenced by the highest average plant height parameter results compared to other treatments.*

Keywords: *Blotong Compost, Bululawang Sugar Cane Variety, Sugarcane SaplingPhase, Beach Area Soil*