Utilization of Sugar Factory Waste as an Organic Fertilizer on Growth and Production of Baby Corn

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Abstract : The research purpose is to view and know the influence of giving blotong against growth and production of baby corn. The research was arranged as a factorial experiment in completely randomized block design (RBD) with three replications. The first is fertilizer type: blotong (B1), blotong+EM4 (B2) and bokashi blotong (B3), while of the blotong dose assigned as the second factor: blotong 5 ton ha -1 (D1), blotong 10 ton ha-1 (D2) and blotong 15 ton ha-1 (D3). The research result indicated that bokashi blotong gives the best influence compare to blotong+EM4 against all parameters. Interaction between fertilizers does 10 ton ha-1 to the bokashi. Blotong gives the best influence to the baby corn production 4.41 ton ha-1, bokasi blotong best anyway influence on baby corn vegetative growth, that is: plant height 113.00 cm, leaves number 8 (eight) pieces and stem diameter 6.02 cm. Results of analysis of variance showed that giving of bokashi blotong (B3) showed a better effect on the growth and production of baby corn and highly significant for plant height age of 60 days after planting, leaf number aged 60 days after planting, cob length cornhusk and without cornhusk, diameter stems and cobs, cob weight with cornhusk and without cornhusk and production are converted into ton ha-1. This is due to bokashi blotong has organic content of C, N, P, and K totalling more than the maximum treatment blotong (B1) and the blotong+EM4 (B2). Based on the research result, it can be summarised that sugar factory waste called blotong can be used to make bokashi as organic fertilizer, so the baby corn can growth and production better.

Keywords : blotong, bokashi, organic fertilizer, sugar factory waste

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