

ABSTRACT

Sweet corn is a horticultural crop that is popular with people in Indonesia because of its sweet taste. The aim of this research is that the cultivation of sweet corn is relatively low due to the acidic pH, nitrogen content and low organic matter of the soils on which it is grown. The solution that can be done to meet the nutritional needs of sweet corn is to provide phosphorus and chicken egg shell powder. The design used in this research was a 2 factor randomised block design with three replications. Phosphorus material as the first factor and chicken egg shell powder as the second factor. The phosphorus consists of (P0) kg/ha, (P1) 50 kg/ha, (P2) 100 kg/ha, and chicken egg shell powder consists of (C0) 0 g/plant, (C1) 30 g/plant, (C2) 35 g/plant. The research results showed that phosphorus and chicken egg shell flour had a significant effect on the growth and yield of sweet corn plants. There was an interaction between P2C2 treatment doses of 100 kg/ha and 35 g/plant on plant height, time of appearance of male flowers, time of appearance of female flowers and total dissolved solids.

Keywords: *chicken egg shell powder, phosphorus, sweet corn*