

ABSTRAK

Waxy corn or often called sticky maize is a type of maize that has a special character that is waxy corn or sticky. One way to increase the production of corn is by using ameliorants and potassium fertiliser. This study aims to determine the effect of ameliorants and potassium fertiliser on the optimal growth and production of waxy corn plants. This research was conducted in Panton Village, Nisam District, North Aceh Regency. Starting from January - April 2024. Using a Randomised Block Design (RBD) experiment with two factors and three replications. The first factor is ameliorants consisting of (A₀) Soil, (A₁) Rice husk charcoal and (A₂) Cow manure. The second factor is potassium fertiliser which consists of 4 levels, namely (K₀) Control, (K₁) 100 kg/ha, (K₂) 200 kg/ha, and (K₃) 300 kg/ha. The materials used were fully composted cow manure, rice husk charcoal, and waxy corn seeds of paramita F1 variety. The parameters observed were plant height, number of leaves, stem diameter, number of cobs per plant, weight of cob with cob, weight of cob without cob, length of cob without cob, number of rows of seeds per cob and weight of cob with cob per bushel. The use of ameliorants had a real and very real effect on the variables of plant height 4, 6 and 8 WAP, stem diameter 4, 6 and 8 WAP, weight of weighted cob and cob weight per plot. The best treatment was obtained in the ameliorant treatment of 8 tonnes/ha. The application of potassium fertiliser had a real and very real effect on the variables of stem diameter 6 and 8 WAP, cob length, cob length without cob, cob weight with cob, cob weight without cob, and cob weight per plot. The best treatment was obtained at a potassium fertiliser dose of 300 kg/ha. There was no interaction between ameliorant treatment and potassium fertiliser on the growth and production of pulut corn plants.

Key words: fertiliser dose, fertilisation and food crops