

ABSTRACT

Eggplant plants are one of the vegetable plants. Eggplant fruit contains high nutrients such as protein, fat, carbohydrates, calcium, phosphorus, iron, vitamin c, and vitamin b1 and prevents hypertension. Eggplant production in Aceh province has decreased, to increase the growth and production of eggplant plants, the soil must contain enough nutrients in a form that can be absorbed by plants. Efforts made to increase the production of eggplant plants are by applying organic fertilizers that can provide fertility for the soil such as eggshell flour. This study aims to determine the effect of egg shell flour on the growth and yield of three varieties of purple eggplant plants. This research was conducted at the experimental garden house of the Faculty of Agriculture, Universitas Malikussaleh in December 2023. The research used a Factorial Randomized Block design consisting of 2 factors with 3 replications. The first factor is eggshell which consists of control, eggshell flour 30g, and 60g. The second factor is the variety consisting of mustang f1, lezata f1, and antaboga f1 varieties. The observation variables were plant height, stem diameter, leaf chlorophyll, flowering age, fruit weight per plant, fruit length, and fruit diameter. The results showed that there was an interaction between the provision of eggshells and varieties of purple eggplant plants on the variables of plant height at 21 hst. 14 hst fruit diameter, average fruit length and the best treatment combination was 60g/plant eggshells and Lezata F1 varieties. The use of varieties has a significant effect on flowering age variables, and the best variety treatment is the Lezata F1 variety.

Keywords: Antaboga F1, Eggshell Flour, Lezata F1, Mustang F1