

ABSTRACT

The current problem with peanut commodities is low production levels due to degraded soil factors and lack of micronutrients. The use of biochar in combination with varieties is one of the efforts that can be made. The purpose of this study was to determine the effect of biochar application and different varieties on peanut growth and production. This research was conducted at the Experimental Farm and Laboratory of the Agriculture Faculty, Universitas Malikussaleh from December 2023 to March 2024 using a factorial Randomised Block Design (RBD) with two factors. Factor I Biochar (B), consisting of: B0: 0 g/plant, B1: 65g/plant, B2: 130 g/plant. factor II variety (V), V1: Kelinci, V2: Hypoma 1, V3: Kancil. The recapitulation results showed that the application of biochar and the use of several varieties were significantly different in the variables of plant height, chlorophyll content, stem diameter, flowering age, number of pithy pods, pod length, number of seeds per pod, weight of 100 seeds and production yield.

Keywords: ameliorants, legumes, production, varieties