

***Effect of fertilizer type N and the frequency of fertilization Preventing Empty pods
in Peanut Plants (Arachis Hypogaea L.)***

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ABSTRACT

Empty pods are one of the causes of low peanut production caused by excess nitrogen. This study aims to examine the type of N fertilizer and the frequency of fertilization against the occurrence of peanut empty pods. This research was carried out from September 2021 to January 2022 at Balai Besar Pelatihan Pertanian (BBPP) Ketindan, Lawang, Malang, East Java. The trial design used factorial RAK with 2 factors and 6 repeats. The first factor is the type of N fertilizer consisting of Urea and ZA fertilizers, while the second factor is the frequency of fertilization consisting of 1 time and 2 applications. The results of this study showed that the use of ZA fertilizer had a better influence in reducing the number of empty pods (8.52%), the number of cipo pods (34.53%) and increasing the number of pitted pods (56.90%). It is suspected that in ZA fertilizer there is a sulfur content of 24% which plays a role in optimizing the filling of peanut pods. The number of pitted pods (16.93 pods) in peanuts is better at fertilizer application 1 time. The treatment of fertilizer type N and the frequency of fertilization showed no interaction with all observation variables.

Keywords: *Empty pods, Frequency of fertilization, Peanuts, The Type of fertilizer N*