

Aplikasi Pupuk SP36 dan Pemangkasan Pucuk Terhadap Produksi dan Mutu Benih Mentimun (*Cucumis sativus* L.) Kode KE-440. Application of SP36 Fertilizer and Pruning of Shoots on the Production and Quality of Cucumber (*Cucumis sativus* L.) Code KE-440. Adviser Common : Dr. Ir. Rahmat Ali Syaban, M.Si and Wendi Agus Setiawan.

Risqi Putra Wardani

*Study Program Of Seed Production Technique
Departement Of Agricultural Production
Program Studi Teknik Produksi Benih
Jurusan Produksi Pertanian*

ABSTRACT

Efforts to increase national cucumber production can be done one of them by providing quality seeds. Seeds that have good quality are expected to be able to grow and produce optimally. Ways that can be done to increase the production and quality of cucumber seeds include appropriate phosphorus fertilization and shoot pruning. This research was conducted in January – April 2021 at the experimental area of the Jember State Polytechnic - Summersari District - Jember Regency. The study used a factorial Randomized Block Design (RBD) with 2 factors. The first factor is the application of SP-36 fertilizer with 3 levels, namely P1: 150 kg/ha SP36 fertilizer, P2: 250 kg/ha SP36 fertilizer, and P3: 350 kg/ha SP36 fertilizer. The second factor was shoot pruning with 3 levels, namely R1: Pruning the shoots of the 9th segment, R2: Pruning the shoots of the 12th segment, and R3: Pruning the shoots of the 15th segment. The results showed that the SP36 fertilizer treatment (P) had a very significant effect on all observation parameters except the growth speed parameter. The treatment of SP36 fertilizer (P) on the growth speed parameter gave no significant effect. Treatment of shoot pruning (R) showed a very significant effect on the parameters of fruit length, fruit diameter, and fruit weight per plant. While the treatment of shoot pruning (R) on the parameters of number of seeds per plant, seed weight per plant, weight of 1000 grains, seed production per hectare, germination, and growth speed showed no significant effect. The interaction between SP36 fertilizer treatment (P) and shoot pruning treatment (R) showed a significant effect only on the parameters of fruit diameter and fruit weight per plant.

Keywords: SP36 fertilizer, pruning, cucumber, production and quality of seeds