

**THE EFFECT OF DRYING METHODS AND VARIETIES ON
GERMINATION, GROWTH AND YIELD OF CUCUMBERS (*Cucumis
sativus* L.)**

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ABSTRACT

The research aims to determine the effect of drying methods and cucumber varieties on germination, growth and yield. The research is a laboratory and field experiment using a factorial Randomized Complete Block Design (RCBD) with two factors. The first factor is the drying method using sunlight, oven and air drying. The second factor is the cucumber varieties Metavy, Zatavy, and Hercules. The data were analyzed with variance at 5% level and tested further with Duncan's Multiple Test (DMRT) at 5% level. The results showed that there was an interaction between electrical conductivity and plant height at 30 DAP. The wind drying method and the Hercules variety gave the best results in terms of electrical conductivity, while the sun drying method and the Zatavy variety gave the best results at a plant height of 30 DAP. The sun drying and wind drying methods gave the best results at stem diameters aged 20, 30, and 40 DAP. The three drying methods provide germination results above certification standards. The air drying method gives the best results on number of fruits per plant. The Hercules variety gave the best results in terms of germination, maximum growth potential and vigor index. The Zatavy variety gives the best results at plant height of 20 DAP, stem diameter of 20 and 30 DAP, number of fruit per plant, fruit weight per plant, fruit length and fruit diameter.

Keywords : Cucumbers, Drying Methods, Varieties