THE EFFECT OF DIFFERENT DOSES OF MAGNESIUM TREATMENTS ON THE FENUGREEK (TRIGONELLA FOENUM-GRAECUM L.) YIELD

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Fenugreek (*Trigonella foenum-graecum* L.) belonging to the legumes (*Fabaceae*) family is an annual plant. Mediterranean, native to the Mediterranean coast. A multi-use plant that is used as a herb, spice and fodder plant. Fenugreek has high protein content and is well suited for feeding domestic and wild animals. The open-field experiment was set up at the beginning of April 2018 in John von Neumann University, Faculty of Horticulture and Rural Development, Demonstration Garden. The treatments were: 1 treatment = 150 kg/ha Magnesium; 2 treatments = 300 kg/ha Magnesium; 3 treatments = 450 kg/ha Magnesium. The treatments were carried out on plots 50-50 m^2. In the experiment, different nutrient supply treatments were set up to achieve the highest fresh weight. The fertilizer used in the research: Novatec premium (15 N - 3 P_2O_5 - 20 K_2O - 2 MgO). When measuring fresh weight of fenugreek, the highest value was measured at 300 kg/ha (14.45 kg). The value of the 1. treatment (7.8 kg) and the 3. treatment (8.5 kg) is the same. The highest dose of treatment (450 kg / ha) resulted in a decrease in the amount of *T. foenum-graecum*.