

عنوان مقاله:

.Effect of Nutrition and Harvest Time on Growth and Essential Oil Content of Thymus vulgaris L

محل انتشار:

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نویسندگان:

Bohloul Abbaszadeh - Research Institute of Forests and Rangelands, Tehran, Iran

Masoumeh Layegh Haghighi - Young Researchers and Elites Club, North Tehran Branch, Islamic Azad University, Tehran, Iran

خلاصه مقاله:

Thyme (Thymus vulgaris L.) is an important medicinal plant with highly valuable essential oils. In this study, effects of different fertilizer treatments and cuts on Thymus vulgaris L. was evaluated in YooA-Yoo9. The research was conducted at Alborz Research Station, Research Institute of Forests and Rangelands, Karaj, Iran. The Experimental design was split plot in time in the form of a randomized complete block design with three replications. The main factor was nutritionin 15 levels consisting of different combinations of nitrogen (N), phosphorus (P), potassium (K) and manure (M): $N_0P_0K_0M_0$, $N_0P_0K_0M_0$, $N_1V_0P_0F_0K_1V_0M_0$, $N_1F_0P_1V_0K_1F_0M_0$, $N_1V_0P_0F_0K_1V_0M_0$ $N_{100}P_{100}P_{100}M_{100}$, $N_{100}P_{100}K_{100}M_{100}$, $N_{100}P_{100}K_{100}M_{100}M_{100}$, $N_{100}P_{100}K_{100}M_{100}M_{100}$, $N_{100}P_{100}K_{100}M_{1$ N∘P∘K∘MY∘ and N∘P∘K∘MI∘ (indices following the letters N, P and K are application rates in kg/ha, indices following the letter M are the application rates of manure in t/ha). The sub factor was harvest (cut) time (late May and early September). Results indicated that fertilizer, harvest date and their interactions significantly affected most of the traits. Mean comparison of the interactions indicated that treatments containing both chemical fertilizers and manure showed positive effects, although the most plant height was achieved with N15. PIYAK15. Mo x 1st cut, in both years (TY. a cm in ۲۰۰۸ and ۳۲.۶۶ cm in ۲۰۰۹). Essential oil yield was the highest in ۲۰۰۸ in N۱۲۰P۹۶K۱۲۰M۱۰ x Ynd cut (۲۶.۰۱ kg/ha), and in Yoo9 in NiooPAoKiooMia x ist cut (YF.Y9 kg/ha). Generally, it can be concluded from the results that T. vulgaris responds well to fertilization, and selecting the best treatment depends on the objective of production.

کلمات کلیدی:

essential oil, P-cymene, Thyme, Thymol, γ-terpinene

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