عنوان مقاله:

Effect of Irrigation Interval, N Fertilizer Rate and Plant Density on Yield and Chemical Composition of Fenugreek (.(Trigonella foenum-gracum L

محل انتشار:

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خلاصه مقاله:

In order to study the effect of irrigation interval, N fertilization and plant density on yield and yield components of fenugreek, a split-split-plot experiment was conducted in Darmian, Iran in spring Yolo. The experiment was conducted in randomized complete block design with three replications. The main plots were subjected to different irrigation intervals of a and 10 days. The sub-plots were treated with N fertilization at three different rates of 0, Ya and 100 kg N ha-I from urea source and the sub-sub-plots were assigned with three varied plant density levels of YY, TT and FF plants m-Y respectively. Analysis of variance showed that the effect of irrigation interval on all measured traits was not significant. Also application of ۱۵ο kg N ha-1 had ΨΨ.9 and ۶۶.1% higher pod number per plant, ΨΥ.Δ and ۶λ.1% higher pod number per mY, W1.Y and \$Y.1% higher seed yield, W1.Y and \$\Delta.9% higher single-plant seed yield, W1.1 and \$\Delta.9% higher single-plant biomass yield and ٣٠.۶ and ۶٧.٨% higher biological yield than the application of Ya and o kg N ha-1, respectively. Moreover, the results showed that increase in population from YY to ٣٣ plants m-Y decreased single-plant seed and biomass yields by ٣٢.1 and ٣٣.5%, respectively. Conclusively, considering the results of the present study and the importance of water saving, it is recommended to use an irrigation interval of 10 days with the application of 100 .kg N ha-1 and a population of FF plants m-Y for the cultivation of fenugreek in Darmian, Iran

كلمات كليدي:

Trigonella foenum-gracum L, Irrigation interval, population, yield

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