

عنوان مقاله:

Nutrition Management and Planting Arrangement Improve Growth Indices and Yield of Two Virginia Tobacco (Nicotiana tabacum L.) Cultivars

محل انتشار:

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خلاصه مقاله:

Tobacco (*Nicotiana tabacum* L.) is a significant cash crop in Iran. It serves as a source of income for smallholder farmers and commercial fields. In order to investigate the growth indices and yield of two Virginia tobacco cultivars an experiment was conducted in a split factorial based on RCBD design with eight treatments and three replicates during the ۲۰۲۰ cropping seasons. The treatments consisted of two application methods of N and K fertilizer (soil and foliar application), planting arrangement (double- and single-row) in the main plot and two Virginia tobacco cultivars (TC_{۱۰۰} and NC_{۱۰۰}) in the sub-plot. Results showed that the highest value of tobacco leaf area index (LAI), crop growth rate (CGR), relative growth rate (RGR), and total dry matter (TDM) were recorded where TC_{۱۰۰} cultivar planted in double-row spacing and sprayed with N and K nutrients. Conversely, the lowest values of LAI, CGR, RGR and TDM were recorded where the NTC_{۱۰۰} cultivar was planted in single-row spacing and received soil application of N and K. The overall results indicated that double-row and foliar application of N and K fertilizers could improve tobacco growth indices and ultimately its yield.

کلمات کلیدی:

Foliar fertilizer, Nicotine, Planting density, Potassium, Top dressing fertilizer, Two-row cultivation

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