

عنوان مقاله:

Different levels and methods of NPS application impact on yield and yield components of Faba bean (*Vicia faba L.*) in Bale highlands, South eastern Ethiopia

محل انتشار:

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خلاصه مقاله:

A field experiment was conducted at two locations in Bale, South eastern Ethiopia (Selka and Agarfa) for two consecutive years (۲۰۱۸-۲۰۱۹) to study the responses of improved Faba bean to rates and methods of NPS application and assessing the economic feasibility. The treatments were six levels of NPS (۲۵, ۵۰, ۷۵, ۱۰۰, and ۱۲۵ kg ha^{-۱}) and two methods of application (Broadcasting and Band application) laid in randomized complete block design (RCBD) with three replications. Faba bean variety 'Alloshe' was used as a test crop. The analysis showed that almost all parameters studied were not significantly ($P < 0.05$) affected by the main effect of blended NPS fertilizer and methods of application at both locations over years. This could be due to relatively medium to high accumulation of studied nutrients in the soil and conducive environmental conditions in the specific area. Therefore, based on this findings future research should focus on prior soil test based fertilizers recommendations. A field experiment was conducted at two locations in Bale, South eastern Ethiopia (Selka and Agarfa) for two consecutive years (۲۰۱۸-۲۰۱۹) to study the responses of improved Faba bean to rates and methods of NPS application and assessing the economic feasibility. The treatments were six levels of NPS (۲۵, ۵۰, ۷۵, ۱۰۰, and ۱۲۵ kg ha^{-۱}) and two methods of application (Broadcasting and Band application) laid in randomized complete block design (RCBD) with three replications. Faba bean variety 'Alloshe' was used as a test crop. The analysis showed that almost all parameters studied were not significantly ($P < 0.05$) affected by the main effect of blended NPS fertilizer and methods of application at both locations over years. This could be due to relatively medium to high accumulation of studied nutrients in the soil and conducive environmental conditions in the specific area. Therefore, based on this findings future research should focus on prior soil test based fertilizers recommendations.

کلمات کلیدی:

NPS, Banding, Broadcasting, Non-significant, Nutrient status

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