

Effect of Phosphorus and Inoculation with Pseudomonas Bacterium on Yield and Yield Components of Bean

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Abstract The objective of this study was to investigate the effect of phosphorous fertilizer and *Pseudomonas pastaria* on yield and yield components of Bean faba. This study was conducted on a factorial experiment based on a randomized complete block design with three replications. Factors included: P fertilizer at five levels (0, 30, 60, 90, 130 and 150) and *Pseudomonas* in two levels (non-inoculation and inoculation) the measured trait included pod length, number of seeds per pod, number of pods per plant, plant height, 1000 seed weight, grain yield, biological yield and harvest index. The results showed that *Pseudomonas pastaria* had a significant effect on increasing yield and yield components, in bean so that the length of pod, number of seeds per pod, number of pods per plant, plant height, 1000 seed weight, grain yield, biological yield and harvest index significantly increased compared to control treatment. In general, it can be stated that, during the transition period of conventional and popular agriculture to sustainable agriculture, biofertilizers, in addition to stabilizing phosphorus and providing conditions for plant growth, can be a suitable strategy for increasing quantitative and qualitative production agricultural products.

Keywords : Keywords: Phosphorus fertilizer, *Pseudomonas*, yield and yield components, Bean faba

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