

## **THE EFFECT OF BIO – AND,CHEMICAL NITROGEN FERTILIZER APPLICATION ON YIELD AND YIELD COMPONENTS OF WHITE BEAN (PHASEOLUS VULGARIS,CV.DORSA)**

Hossein kheiri , Farokh rahimzadeh khoei , Ebrahim khalilvand

[www.kheirihossein407@yahoo.com](mailto:www.kheirihossein407@yahoo.com)

### **ABSTRACT**

For evaluating the effects of bio and, chemical nitrogen fertilizer application on yield and yield components of white bean (phaseolus vulgaris ,cv.dorsa), a study was performed in the form field experiment in factorial layout on complete Randomized Block design with three Replications on white bean at research center of agriculture faculty of Tabriz Islamic Azad university,during growing season of 2012.Treatments of study composed of 3 levels of biofertilizer (without biofertilizer ,application in stage of seeding,application at full growth stage) and 4 levels of chemical nitrogen fertilizer (without chemical fertilizers ,application 100, 150 and 200 kg/ha) chemical fertilizers. Results of variance analyze showed that biofertilizer treatment had effected the steam high, branching, number of pod, number of empty and filled pod, grain yield, and total biomass.Positivly at %1 probablity results showed that the nitrogen fertilizer treatment had effected the steam high, branching, number of pod, number of empty and filled pod and total biomass.Significantly at %1 probablity results also showed that different levels of nitrogen and bio-fertilizer treatment, had effected the steam high, steam branching, number of pod, number of empty and filled pod , number of grain yield and total biomass. Results significantly at %1 probablity the study showed that application at chemical nitrogen and bio-fertilizer had effect on yield and yield components of white bean.

Key word: biofertilizer (Nitrocar), white bean (phaseolus vulgaris,cv.dorsa), chemical nitrogen fertiliz.



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