

Effect of different amounts of phosphorus on growth and yield of Faba bean in Rasht (Saghalaksar)

Somaieh Akbari Saghalaksari*, Mohammad Naghi Safarzadeh,

Effect of different amounts of phosphorus on growth and yield of faba bean in Rasht (saghalaksar) Abstract In order to investigate the effects of phosphorus on growth and yield of bean trial with a randomized complete block design with three replications in Saghalaksar village located in the city of Rasht, Guilan province was conducted. The treatments were: 0 (lack of phosphorus), 25, 50, 75, 100, 125, 150, 175 kg per hectare. These values were applied in strips on either side of the row. Characteristics evaluated were: plant height, number of branches, stems, pods per square meter, number of pods per plant, pod yield green, green grain yield, yield components and dry air, dry pod yield, grain yield, grain weight, weight ratio of dry seed to pods dry, harvest index, dry air passages at the time of maturity phosphorus, phosphorus grain at the time of maturity, grain nitrogen content at maturity, the amount of potassium grain at the time of maturity. Analysis of variance showed, different amounts of phosphorus on all traits except branches, stems and pods per square meter had a significant effect. Compare the average traits showed an increase in phosphorus intake to 125 kg per hectare increased performance characteristics, but with a further increase to 175 kg per hectare increase the amount of phosphorus was stopped traits. Based on the results, the amount of phosphorus for growth and bean yield in the region was 150 kg ha triple super phosphate.

Keywords : Keywords: Bean, phosphorus, harvest index, pod yield, grain yield.

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