

The Effect of Row Spacing and Weed Removal Time on Yield and Yield Components of Faba Bean (*vicia faba*) and Weed Density and Weed Biomass

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Abstract

In order to study the effect of row spacing and time of weed removal time, a field experiment was conducted on 2006-2007 at Agricultural faculty of Ahvaz. Treatments were arranged in split plot design based on Randomized Complete Block design with three replications. Main plot was row space with 2 levels (75 and 50cm) and sub-plot was weed removal time in 5 levels (4, 8, 12 leaf stages, weedy and control). Faba bean grain yield and yield components and also weed density and dry matter were measured. Results showed that the highest faba bean grain yield (275g/m^2) was obtained from 50 cm interrow spacing with weed free treatment whereas 75 cm interrow space with weedy plot treatment had the least grain yield ($21/1\text{ g/m}^2$). Therefore, by reducing row space, faba bean grain yield was increased but weed density and dry matter was decreased. Also, delay in weed removal had negative influence on faba bean grain yield and yield components.

Keywords: *Row Space, Weed Removal, Weed, Faba Bean*