

Effect of plant density on the yield of four varieties of tomato (*Lycopersicum esculentum*) in Shirvan

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In order to investigate the effects of plant density on yield and quality varieties of tomato a study in a randomized complete block design with three replications was carried out in 1999 at Shirvan region. Each replication consisted of four varieties of tomatoes (stern, Earlyorbana, Mobil and koral) and three levels of plant density (25000, 33333 and 50000 plant/ha). The aim of this experiment was to select the best variety of tomato and the suitable density in Shirvan region.

Results of the experiment showed that there were no significant differences between varieties of tomato but Earlyorbana with 42937 kg/ha had maximum yield. The plant density had a significant effect on yield of tomato and second plant density was the best one with 42831 kg/ ha.

Earlyorbana had the greatest yield (53360 kg/ha) with 33333 plant/ha.