

Effect of plant density and mother bulb size on seed yield and yield components of onion (*Allium cepa* L. CV. Texas Early Grano 502).

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In order to study of effects of plant density and mother bulb size on Onion seed yield an experiment was conducted based on a split-factorial design with a randomized complete block arrangement and three replications in Kabootar Abad Research Station of Esfahan. Main factor was different row spaces (50, 60 and 70cm) and sub factor was formed from factorial combination of two mother bulb sizes (3-6 and 6.5-9.5cm) with three plant spaces on row (15,25 and 35cm).

The results showed that the seed yield in 50 and 60 row spaces was significantly higher than 70 row space.

Also 15cm plant space and 6.5-9.5cm mother bulb size had the highest seed yield. Among yield components umbels/m² had the most contribution in the seed yield and this yield component explains about 0.85 of seed yield variations.