

Effect of Sugarbeet seed size, planting depth, and variety on seedling emergence. (C04-khan111919-Poster)

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Abstract:

Research was conducted in the greenhouse to determine the effect of seed size, planting depth, and variety on seedling emergence. Three seed sizes: small, medium, and large; three planting depths: 0.75, 1.25, and 2 inch; and three varieties: Beta 3800, HH Resist, and VDH 66240 were selected. Seeds were planted in cones, watered daily, and rated for seedling emergence 10 d after planting. This experiment was replicated three times. In the 1st experiment, only VDH 66240 small seeds planted at 2" had a significantly lower rate of emergence compared to the same variety and size planted at 0.75" and 1.25". In the 2nd experiment, Beta 3800 medium seeds planted at 0.75" had a significantly lower rate of emergence compared to the same variety and size planted at 1.25", and HH Resist large seeds planted at 2" had a significantly lower rate of emergence compared to the same variety and size planted at 0.75". In the 3rd experiment, only VDH 66240 large seeds planted at 2" had a significantly lower rate of emergence compared to the same variety and size at 1.25" planting depth. When the results were combined, there was no significant difference in seedling emergence for the different varieties of seeds planted at different depths under ideal conditions in the greenhouse.

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