

Effect of Seed Size on Crop Productivity in Groundnut (*Arachis hypogaea* L.)

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ABSTRACT

Field experiment was conducted on effect of seed size on crop productivity in groundnut at Regional Agricultural Research Station, Lam farm, Guntur in a factorial randomized block design during *Rabi*, 2009-2010. Results revealed that significant differences were observed among the varieties, seed sizes and their interaction effects. The plants from large seed exhibited higher values of field emergence (94%), number of primary branches (6.47), number of secondary branches (6.42), leaf area (981.06 cm² plant⁻¹), total dry matter (25.48 g) as compared to plants from small and shriveled seeds. Varieties also differed significantly for the above characters. The plants from large seed recorded highly number of pods per plant (11.05), 100 seed weight (52.60 g) and pod yield (17.95 q ha⁻¹) as compared to plants from small and shriveled seed. Among the varieties, Narayani recorded higher pod yield (20.49 q ha⁻¹) followed by KADIRI-6 with (16.87 q ha⁻¹) and JL-24 with (16.49 q ha⁻¹).

Key words : Crop productivity, Groundnut, Seed size.