

Effect of Water Stress on Seed Germination and Seedling Growth in Greengram

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ABSTRACT

A laboratory experiment was conducted at Department of Plant Physiology, S.V. Agricultural college Tirupathi during *kharif* 2010-11 to study the effect of water stress on seed germination and seedling growth in greengram genotypes. The results revealed that as the water stress increased from -0.3 M.Pa to -1.5 M.Pa, the percentage of germination, root, shoot length and seedling vigor index was decreased in all the genotypes. Among the greengram genotypes tested, MGG357 and MGG 360 withstand the water stress even up to -1.5 M.Pa followed by MGG347, MGG348, WGG2, LGG450 and LGG460.

Key words : Greengram, Seed germination, Seedling vigor index, Water stress