

Effect of Mid and End Season Moisture Stress on Growth, Drymatter Production and Yield in Greengram Genotypes

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ABSTRACT

A field experiment was conducted during *rabi* 2010-11 at wet land farm of S.V. Agricultural college Tirupithi to study the effect of mid and end season moisture stress on growth, drymatter production and yield in greengram genotype. Results revealed that significant differences were observed between moisture stress treatments, genotypes and their interaction with regard to the plant height, days to 50% flowering, leaf area, root, leaf, stem, pod, and total drymatter production and yield and yield components. Among the genotypes, WGG-37 and MGG-357 maintained high leaf area, drymatter accurlation, yield and yield components under irrigated and moisture stress conditions. Plant height and days to 50% flowering were more affected due to mid stress compared to end stress (45-60 DAS). Whereas the effect of end stress on leaf area and dry matter production and it partitioning, yield and yield components was more accute compared to mid stress (stress imposed at 30-45DAS).

Key words: Drymatter, End season moisture stress, Greengram, Mid season moisture stress, Yield.