Studies on Growth, Drymatter Production and Yield in Redgram Varieties in *rabi*

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ABSTRACT

A field experiment was conducted during *rabi* 2009-2010 at Wet land farm of S.V. Agricultural, College, Tirupati to study the growth, drymatter production and yield in redgram varieties in *rabi*. Results revealed that significant differences were observed among the varieties for plant height, number of branches, drymatter production of leaf, stem, pod, total drymatter, leaf area and yield and yield components. Among the early maturing varieties tested, Piler local recorded highest plant height (120. 4 cm), number of branches (10.8) root drymatter (4.27 g plant^{-1}), pod dry weight (24.8 g plant^{-1}) total drymatter (46.58 g plant^{-1}) leaf area (406 cm^2 plant^{-1}), number of pods per plant (140), harvest Index (44.9%) and seed yield (1672 kg ha^{-1}) when compared to other varieties .However, LRG 30 record higher leaf drymatter (5.48 g plant $^{-1}$) stem dry matter (14.24 g plant $^{-1}$) and number of seeds per pod (3.5). Among the late maturing varieties tested, LRG 41 recorded highest plant height, number of branches, leaf drymatter, stem drymatter, root drymatter, pod dry matter, total drymatter, leaf area, and yield and yield components compared to other varieties.

Key words : Harvest index, Pod yield, Redgram, Total drymatter