Effect of Calcium and Boron nutrition on YMV incidence and yield in Blackgram (*vigna mungo* (l.) Hepper).

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ABSTRACT

An experiment was carried aout at college farm of Agricultural College, Bapatla during kharif season 2015-16 to know the effect of calcium and boron nutrition on tolerance of blackgram to YMV, to find out its effective concentration in reducing disease severity, whitefly population along with improving yield parameters and yield of blackgram, present investigation was under taken with soil application of Ca (gypsum) @100, 200 and 300 kg.ha^{-1} & B (borax) 1,2,3 kg.ha^{-1} and also in combinations, total 16 treatments. The disease incidence, whitefly population was obtained low in 300 kg gypsum + boron 1 kg ha^{-1} . The single and combined application of Ca & B increased the yield components and yield was obtained with 300 kg gypsum + boron 1 kg ha^{-1} in both the cultivars. Number of pods plant^{-1} (17.43), number of seed pod^{-1} (5.36), test weight (5.2 g) seed yield (1336.22 kg ha^{-1}) were the highest mean values obtained with treatment 300 kg gypsum + boron 1 kg ha^{-1} (S_{14}) compared with control.

Key words: *Boron, Disease incidence,Gypsum, Whitefly population and Yield.*