

Influence of Rate of Zinc fertilization on Growth, Yield Attributes and Yield in Blackgram (*Vigna mungo* L.) Varieties

N A Vishwanatha, T Venkata Sridhar, I Usha Rani and K Chandrasekhar
Department of Soil Science and Agricultural Chemistry, Agricultural College, Bapatla.

ABSTRACT

A field experiment was conducted to study the influence of rate of zinc fertilization on growth, yield attributes and yield in blackgram (*Vigna mungo* L.) varieties at Agricultural College Farm, Bapatla during *Rabi*, 2021. The experiment was laid out in split plot design with three main treatments of Zn levels (0, 25 and 50 kg ha⁻¹) and five sub treatments of blackgram varieties (LBG 752, LBG 787, TBG 104, GBG 1 and PU 31) replicated three times. The results of experiment revealed that both growth parameters (plant height, drymatter production) and yield parameters (number of pods per plant, seed yield, haulm yield, harvest index) were significantly increased with increased levels of Zn application. Soil application of zinc @ 50 kg Zn ha⁻¹ had recorded significantly highest values of both growth and yield parameters and it was on par with soil application of zinc @ 25 kg ha⁻¹. Among cultivars, PU 31 performed well and was on par with LBG 752 and TBG 104 in most of the parameters were considered.

Keywords: *Blackgram varieties, Growth parameters, Yield parameters and Zinc levels.*