

RESPONSE OF DIFFERENT LEVELS OF ZINC AND MOLYBDENUM ON GROWTH AND YIELD OF BLACKGRAM (*VIGNA MUNGO* L.) UNDER AGRO-CLIMATIC EAST UTTAR PRADESH

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Abstract: A field experiment was conducted during the *Zaid* season 2016 at the Crop Research farm of Agronomy, Naini Agricultural Institute, SHUATS, Allahabad (U.P.) to Field evaluation of blackgram (*Vigna mungo* L.) under Agro-climatic zone of Allahabad. The experiment was conducted to find out the effect of different levels of zinc and molybdenum on growth and yield of blackgram (*Vigna mungo* L.) laid out in RBD with 9 treatment and 3 replications. The treatment consisted of three levels of zinc (0, 5 and 7.5 kg ha⁻¹), three levels of molybdenum (0, 0.5 and 1.0 kg ha⁻¹). results revealed that the maximum plant height (9.76 and 15.11 cm at 15, 30 DAS), number of branch (4.33 and 7.40 at 30 and 45 DAS), dry weight (0.80, 3.10, 6.73 and 19.73 g at 15, 30, 45 and 60 DAS), test weight (40.23gm), harvest index (23.49 %) and grain yield (1.18 t ha⁻¹), However significantly the highest straw yield (4.14 t ha⁻¹) in (T₆) R.D.F + Zinc 5 kg ha⁻¹ + Molybdenum 1.0 kg ha⁻¹.

Keywords: Blackgram, Zinc, Molybdenum

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