

PERFORMANCE OF MUNGBEAN VARIETIES UNDER DIFFERENT DATE OF SOWING IN CHHATTISGARH PLAINS UNDER IN *VERTISOLS* OF CHHATTISGARH PLAINS

GAUTAM PRASAD BHASKAR¹ & DR. (CAPT.) G.K. SHRIVASTAVA²

¹Assistant Professor, CARS, Kanker (IGKV, Raipur)

²Professor, CoA Raipur (IGKV, Raipur)

ABSTRACT

The present investigation entitled “Performance of mungbean varieties under different date of sowing in Chhattisgarh plains under in Vertisols of Chhattisgarh plains” was carried out at Instructional Farm, IGAU, Raipur during kharif season of 2004. The soil of the experimental field was clayey in texture (Vertisols) locally known as “Bharri”. The soil was neutral in pH and had low nitrogen and medium phosphorus and high in potassium content. The experiment was laid out in split plot design with three replications. The treatments consisted of four dates of sowing viz. 10th July (D₁), 25th July (D₂), 09 August (D₃) and 24th August (D₄) as main-plot treatment and twelve varieties viz., V₁ : TM-99-2, V₂ : Malviya Jyoti, V₃ : ML-5, V₄ : RM-03-71, V₅ : Pragya, V₆ : RM-06-08, V₇ : BM-4, V₈ : TM-2002-4, V₉ : ML-31, V₁₀ : Pusa Vishal, V₁₁ : TM-2000-1 and V₁₂ : HUM-12 as sub-plot treatment.

Results revealed that yield attributes viz. pods plant⁻¹, seeds pod⁻¹, seeds plant⁻¹ and test weight were the highest under earliest date of sowing i.e. 10th July which ultimately gave the highest yield. Though, a slight reduction in yield was observed till 25th July sowing but drastic reduction in yield occurred if the sowing is delayed further.

Variety BM-4 was found to be best yielder (472 kg ha⁻¹) closely followed by HUM-12 (469 kg ha⁻¹). Though, they had a lower test weight than Pragya, Malviya Jyoti and ML-5. Their more number of pods, more number of seeds plant⁻¹ and more number of seeds pod⁻¹ have attributed for their supremacy over other varieties. Interaction between variety BM-4 and 10th July sowing outyielded amongst the other treatment combinations.

KEYWORDS: Mungbean Varieties, Yield Performance, Vertisols