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PERFORMANCE OF ENERGETICS AND ECONOMICS OF MUNGBEAN VARIETIES UNDER DIFFERENT DATES OF PLANTING IN *VERTISOLS* OF CHHATTISGARH PLAINS

GAUTAM PRASAD BHASKAR[1] & DR. (CAPT.) G.K. SHRIVASTAVA[2]

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

[2]Professor, CoA Raipur (IGKV, Raipur)

ABSTRACT

The present investigation entitled "Performance of energetics and economics of mungbean varieties under different dates of planting 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 (D_1), 25th July (D_2), 09 August (D_3) and 24th August (D_4) as main-plot treatment and twelve varieties viz., V_1 : TM-99-2, V_2 : Malviya Jyoti, V_3 : ML-5, V_4 : RM-03-71, V_5 : Pragya, V_6 : RM-06-08, V_7 : BM-4, V_8 : TM-2002-4, V_9 : ML-131, V_{10} : Pusa Vishal, V_{11} : TM-2000-1 and V_{12} : HUM-12 as sub-plot treatment.

Energy output, energy output: input ratio and energy use efficiency were maximum under 10th July sowing, while, lowest was recorded under 24th August sowing. The energy use efficiency was noted highest under variety HUM-12 followed by variety BM-4. The energy out and energy output:input ratio also followed the same trend in case of mungbean varieties.

The highest net realization (Rs. 4,380 ha^{-1}) and net realization rupee^{-1} invested (Rs 0.775) was noted under 10th July sowing. The variety BM-4 gave the highest net realization (Rs.3,683 ha^{-1}) and net realization rupee^{-1} invested (Rs. 0.65) which was closely followed by variety HUM-12.

KEYWORDS: Chhattisgarh Plains, pH Content, Estimation of Energetic and Economics Analysis