

## EFFECT OF CROP GEOMETRY AND WEED MANAGEMENT PRACTICES ON GROWTH AND PRODUCTIVITY OF SOYBEAN

Hemkanti Purena\*, Rajendra Lakpale and Chandrasekhar

Indira Gandhi Krishi vishvavidhalaya Raipur (C.G.)

Email : hemkantibanjare@gmail.com

Received-03.02.2015, Revised-18.02.2015

**Abstract :** A field experiment was conducted during Kharif season at 2007 at Research-cum-Instructional Farm, Indira Gandhi Krishi Vishwavidyalaya, Raipur (Chhattisgarh), India, to study the Effect of crop geometry and herbicides on growth and productivity in soybean (*Glycine max* L. Merrill). The experiment was laid out in Split plot Design (SPD) with two treatments main plot six treatments sub plots and three replication. At harvest, not significant affect by plant spacing but significantly higher seed yield obtained with treatment Fluchoralin@ 100 g ha<sup>-1</sup> (PE) + Hand weeding at 40 DAS (2354 kg ha<sup>-1</sup>), however, it was found comparable with the yield of Hand weeding twice at 20 and 40 DAS (2316 kg ha<sup>-1</sup>). Significantly lowest weed count and highest weed control efficiency also recorded with T6

**Keywords :** Crop, Effect, Growth, Productivity, Soybean

### REFERENCES

**Chandel, A.S. and Saxena, S.C.** (2001). Effect of some new post emergence herbicides on weed parameters and seed yield of soybean (*Glycine max*). *Indian Journal of Agronomy* 46(2) : 332-338.

**Gogoi, A.K., Kalitha, H., Pathak, A.K. and Deka, J.** (1992). Crop-weed competition in rainfed blackgram (*Vigna mungo*). *Indian Journal of Weed Science* 24(3&4) : 278-289.

**Singh, M., Chandu, A.S. and Singh, M.** (1995). Effect of weed control method on soybean (*Glycine max*). *Indian Journal of Agronomy* 40(1) : 55-58.

**Singh, V.K., Bajpai, R.P., Mishra, R.K. and Purohit, K.K.** (1989). Chemical weed control in rainfed soybean (*Glycine max.*). *Indian Journal of Agronomy* 36 : 292-294.

**Tiwari JP and Kurchania SP.** (1990). Survey and management of weeds in soybean (*Glycine max*) ecosystem in MadhyaPradesh. *Indian Journal of Agricultural Science* 60 (10): 672-676.

\*Corresponding Author