



## **Integrated weed management in fenugreek (*Trigonella foenum graecum* L.) in semi arid regions of Rajasthan**

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**Abstract :** A Field experiments was conducted during *Rabi* seasons of 2008-09 and 2009-10 to study the effect of integrated weed management practices on yield and yield attributes of fenugreek (*Trigonella foenum graecum* L.). Results revealed that two hand weedings at 25 and 45 days after sowing (DAS) recorded minimum dry matter yield of weeds, maximum weed control efficiency (94.5 %). Among the herbicides, pre-emergence application of pendimethaline @ 0.5 kg ai/ha + 1 hand weeding at 35DAS was most effective in reducing dry matter yield of weeds. It had positive effect on yield attributes which resulted into significantly higher seed (1573 kg/ha) and straw yield (4587 kg/ha), which were statistically at par with yields obtained under two hand weeding. The improvement in seed yield (41.20%) and additional returns by Rs. 5076 per hectare due to pre-emergence application of pendimethaline @ 0.5 kg ai/ha + 1 hand weeding at 35 DAS over weedy check.

**Key Words :** Fenugreek, Pendimethalin, Pod yield, B: C ratio

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