



RESEARCH PAPER

Evaluation of efficacy of post - emergence herbicides for weed control in soybean under Marathwada region

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Abstract : An investigation was undertaken to evaluate the efficacy of post emergence herbicides for weed control in soybean under Marathwada region at department of Agronomy, Marathwada Agricultural University, Parbhani during the *Kharif* season of the year 2010. Highest number of pods plant⁻¹ (40.62), number of grains pod⁻¹ (2.22), seed weight plant⁻¹ (12.18g), 100 seed weight (13.50 g), seed yield (2888 kg ha⁻¹) and straw yield (3570 kg ha⁻¹) were recorded in treatment (T₁₀) weed free check (2 HW+2 hoeing at 3rd and 5thWAS). Followed by pendimethalin PE @ 750 g a.i.ha⁻¹+1 HW at 30 DAS, number of pods plant⁻¹ (38.66), number of grains pod⁻¹ (2.18), seed weight plant⁻¹ (10.53g), 100 seed weight (12.50g), seed yield (2820 kg ha⁻¹) and straw yield (3503 kg ha⁻¹). Amongst the post-emergence herbicides treatment (T₈) imazethapyr POE @75 g a.i.ha⁻¹ at 21 DAS recorded highest number of pods plant⁻¹ (38.25), number of grains pod⁻¹ (2.14), seed weight plant⁻¹ (09.86g), 100 seed weight (12.05g), seed yield (2705 kg ha⁻¹) and straw yield (3416 kg ha⁻¹) as compared to other herbicidal treatments.

Key Words : Soybean, Post emergence, Weeds control

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