



RESEARCH PAPER

To find out suitable post-emergence herbicide for weed control in soybean under Marathwada region

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Abstract : An investigation was undertaken to find out suitable 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), seed yield (2888 kg ha⁻¹), straw yield (3570 kg ha⁻¹) and weed control efficiency at 40 DAS and at harvest (monocot and dicot) *i.e.*, 98.43, 98.78 and 96.19, 95.93 per cent, respectively were recorded in treatment (T₁₀) weed free check (2 HW + 2 hoeing at 3rd and 5th WAS). Followed by treatment T₉ pendimethalin PE @ 750 g a.i.ha⁻¹ + 1 HW at 30 DAS, number of pods plant⁻¹ (38.66), seed yield (2820 kg ha⁻¹), straw yield (3503 kg ha⁻¹) and WCE 97.10, 97.23 and 89.40, 85.55 per cent monocot and dicot at 40 DAS and at harvest, respectively. Weed index *i.e.*, lowest yield loss over weed free check was observed in treatment T₉ pendimethalin PE @ 750 g a.i.ha⁻¹ + 1 HW at 30 DAS (2.35%) and amongst the post emergence herbicides treatment (T₈) imazethapyr POE @ 75 g a.i.ha⁻¹ at 21 DAS (6.33%). Amongst the post emergence herbicides treatment (T₈) imazethapyr POE @ 75 g a.i.ha⁻¹ at 21 DAS were recorded highest number of pods plant⁻¹ (38.25), seed yield (2705 kg ha⁻¹), straw yield (3416 kg ha⁻¹), WCE 96.02, 96.42 and 86.05, 81.68 per cent monocot and dicot at 40 DAS and at harvest, respectively and weed index 6.33 per cent as compared to other post herbicidal treatments.

Key Words : Soybean, Post emergence, Weeds control

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