



## 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<sup>-1</sup> (40.62), number of grains pod<sup>-1</sup> (2.22), seed weight plant<sup>-1</sup> (12.18g), 100 seed weight (13.50 g), seed yield (2888 kg ha<sup>-1</sup>) and straw yield (3570 kg ha<sup>-1</sup>) were recorded in treatment (T<sub>10</sub>) weed free check (2 HW+2 hoeing at 3<sup>rd</sup> and 5<sup>th</sup> WAS). Followed by pendimethalin PE @ 750 g a.i.ha<sup>-1</sup>+1 HW at 30 DAS, number of pods plant<sup>-1</sup> (38.66), number of grains pod<sup>-1</sup> (2.18), seed weight plant<sup>-1</sup> (10.53g), 100 seed weight (12.50g), seed yield (2820 kg ha<sup>-1</sup>) and straw yield (3503 kg ha<sup>-1</sup>). Amongst the post-emergence herbicides treatment (T<sub>8</sub>) imazethapyr POE @ 75 g a.i.ha<sup>-1</sup> at 21 DAS recorded highest number of pods plant<sup>-1</sup> (38.25), number of grains pod<sup>-1</sup> (2.14), seed weight plant<sup>-1</sup> (09.86g), 100 seed weight (12.05g), seed yield (2705 kg ha<sup>-1</sup>) and straw yield (3416 kg ha<sup>-1</sup>) as compared to other herbicidal treatments.

**Key Words :** Soybean, Post emergence, Weeds control

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