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## RESEARCH PAPER

# Efficacy of different weed management practices and various fertility levels in soybean [*Glycine max* (L.) Merrill]

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**Abstract :** An experiment was conducted during *Kharif* season of 2006 as Junagadh (Gujarat) to study the efficacy of weed management practices in soybean [*Glycine max* (L.) Merrill] under various fertility levels. Different weed management treatments tried in this experiment exerted their significant effect on grain and stover yield of soybean. Almost all the growth and yield attributes were recorded maximum value under treatment W<sub>5</sub>. Treatment W<sub>4</sub> was found equally effective in respect on recording higher values of these parameters than rest of the treatments. Application of 40:80:40 kg NPK ha<sup>-1</sup> recorded the maximum value of plant height, plant spread, number of pods, seeds per pod and test weight. This reflected in marked effect in increasing grain (2006 kg ha<sup>-1</sup>) and stover (2381 kg ha<sup>-1</sup>) yields.

**Key Words :** Soybean, Pendimathalin, Quizalofop-ethyl, Imazethapyr, Fertility levels

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