



RESEARCH ARTICLE :

Performance of pre and post emergence herbicides on weed dynamics in tomato cv. ARKA VIKAS

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SUMMARY : A field experiment was conducted to study the performance of pre and post emergence herbicides on weed dynamics in Tomato cv. ARKA VIKAS during *Rabi* 2011-12 and 2012-13. The experiment consisted of 10 treatments of Pre and post emergence herbicides (Pendimethalin, Oxyflourfen, Imazethapyr and Quizalofop ethyle) and their combinations which were replicated in Randomized Block Design. All the weed control treatments significantly reduced the density of weeds and weed dry matter effectively. Pre emergence herbicides coupled with Quizalofop ethyle found to be on par with Hand weeding. Though imazethapyr applied as post emergence, effectively controls the weeds but found to be extremely toxic to the crop. The maximum yield of tomato was recorded with Hand weeding, which is similar to the application of pre emergence herbicides combined with Quizalofop ethyle @ 75g a.i per ha.

KEY WORDS :

Pendimethalin,
Oxyflourfen,
Imazethapyr,
Quizalofop ethyle
tomato

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