



## RESEARCH PAPER

# Efficacy of herbicides on weed growth and bulb yield in onion under kymour plateau region of Madhya Pradesh, India

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**Abstract :** Onion (*Allium cepa* L.) belonging to family Alliacea is one of the most important and export oriented crop grown all over the world including India. The production of onion in Madhya Pradesh is not as much as compared to Maharashtra. Application of herbicides offer a suitable method for weed control by producing maximum sized bulbs and higher yield. The present investigation was carried out during Rabi 2014-15 with the objective to study the effect of herbicides on growth, yield and its attributing traits of onion at Horticulture complex, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur with twelve treatments in Randomized Completely Block Design and three replications. Maximum weed control efficiency was recorded in the treatment Pendimethalin @ 2.5-3 l/ha for all type of weeds observed in the field while maximum growth and yield traits were recorded in weed free check (Hand weeding). On the basis of one year data it is concluded that the maximum reduction in weeds and increase in yield obtained in the onion by the application of herbicide of Pendimethalin 2.5-3 L/ha.

**Key Words :** Growth, Herbicide, Kymore plateau, Madhya Pradesh, Onion, WCE, Yield

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