

RESPONSE OF HERBICIDAL WEED MANAGEMENT IN IRRIGATED WHEAT (*TRITICUM AESTIVUM* L.)

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ABSTRACT : A field experiment was conducted during winter (rabi) season of 2003-04 and 2004-05 at Agronomy Research Farm (Pili Kothi) of T.D. College, Jaunpur, U.P. to find out an alternative herbicide to control mixed weed flora of wheat crop. Complete control of *A. arvensis* and *P. minor* were noticed under sulfosulfuron treatments (25 and 37 g/ha) where as density of *P. hysterophorus* and total weed were drastically reduced which reflected into lower weed dry weight and higher weed control efficiency. Sulfosulfuron at 37 g/ha produced maximum grain yield among different herbicides and remained at par with its lower dose (25 g/ha), both rates of pendimethalin (0.75 and 1.00 kg/ha) and weed-free.

Key Words: Wheat, *Triticum aestivum*, weeds, herbicide, weed control.