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# Effects of weed control treatments on wheat crop and associated weeds

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**ABSTRACT** : A field experiment was conducted in wheat during *Rabi* season 2011-12 on sandy loam soil at Crop Research Centre, Chirodi of Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut (U.P.). The experiment was conducted in R.B.D. with three replications comprising ten treatments of weed management, clodinafop 60 g a.i ha<sup>-1</sup>, sulfosulfuron 25 g a.i ha<sup>-1</sup>, metribuzin at 105 g a.i ha<sup>-1</sup>, carfentrazone 40 g ai ha<sup>-1</sup>, clodi.+ metri 60 + 122.5 g a.i ha<sup>-1</sup>, clodi. + metri 60 + 105 g a.i ha<sup>-1</sup>, sulfo. + metri 25 + 105 g a.i ha<sup>-1</sup>, sulfo. + carfen. 25 + 40 g a.i ha<sup>-1</sup> as post emergence and weed free and weedy. The results indicated that plant population, plants height, maximum number of tillers/meter row length, dry matter accumulation, highest grain yield (55.13 q/ha<sup>-1</sup>), straw yield (78.08 q/ha<sup>-1</sup>) significantly reduced the weed population, dry weight of weed, highest weed control efficiency and minimum loss of nutrient were recorded with the application of sulfosulfuron .+ metribuzin 25 + 105 g a.i ha<sup>-1</sup> as post emergence established its superiority over rest of the herbicides. Similarly application of sulfosulfuron .+ metribuzin 25 + 105 g a.i ha<sup>-1</sup> as post emergence resulted into higher gross return (Rs. 90362.05), net return (Rs. 63453.59 ha<sup>-1</sup>) and B: C ratio (2.48).

**KEY WORDS** : Post herbicides, Wheat, Weather parameters, Weed control

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