

WEED INTENSITY AND ONION BULB YIELD AS INFLUENCED BY DIFFERENT WEED MANAGEMENT PRACTICES

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Abstract: Weeds are serious problem in all vegetable crops but they are even more so in *kharif* season crops. The problem of controlling weeds has been taken by studying various cultural and chemical method to the extent of different degrees of success by workers all over the world. In this chapter, a brief review of various experimental findings of different experiments covering important aspect of weed flora, losses caused by weeds and effect of weed management practices on crops, yield and yield attributes, use of chemical and cultural methods of weed management and economics is given below.

Keywords: Weed management practices, oxyfluorfen, pendimethalin, Onion

REFERENCES

- Ahuja, S., Sandhu, K.S. and Ahuja, S. (2003). Weed management through the use of herbicides in cabbage-onion relay cropping system. *Annals of Biology* **19** (1): 27-30.
- Amrutkar, S.D., Patil, B.M., Karunakar, A.P. and Jiotode, D.T. (2002). Effect of various herbicides on yield and uptake of nutrients in onion (*Allium cepa* L.). *Research on Crops* **3**(1): 695-661
- Channappagoudar and Biradar (2007). Physiological studies on weed control efficiency in direct sown onion. *Karnataka Journal Agricultural Science* **20**(2): 375-376.
- Ghaffoor, A. (2004). Integrated weed management in different varieties of onion (*Allium cepa* L.). *Pakistan Journal of Weed Science Research* **10**(1/2): 5.
- Kolhe, S.S. (2009). Integrated weed management in onion (*Allium cepa* L.). *Indian Journal of Weed Science* **33**(1/2): 26-29.
- Mishra, I.P. and Sharma, B.R. (1992). Comparative studies on methods of weed control in onion (*Allium cepa* L.) Proc. *Annual Weed science Conference*, March 3-4, p. 114
- Nadagonda, B. T., Honyal, S.C. (1998). Economics of weed control in drill sown onion. *World Weed V*: 131- 134.
- Nandal, T.R. and Singh, R. (2002). Integrated weed management in onion (*Allium cepa* L.) under Himachal Pradesh conditions. *Indian Journal Weed Science*, **34**(1&4): 72-75.
- Pandey, R.P., Shuka, N. and Tiwari, J.P. (1992). Efficacy of herbicidal weed control onion (*Allium cepa* L.). *Indian Journal of Weed Science* **24**(1&2): 18-84
- Pandey, U.B. (2000). National Symposium on onion and garlic, production and post harvest management, *challenges and strategies*, Nov. 19-21, 2000 *Abst.* pp.43-48.
- Porwal, M.K. (1995). Integrated weed management in garlic (*Allium sativum*) under vertisols. *Indian Journal of Weed Science* **27**(1&2): 16-18.
- Qasim, J.R. (2005). Chemical weed control in seedbed sown onion (*Allium cepa* L.). *Crop Protection*, **25** (6): 618-622.
- Ramachandraprasad, T.V., Shekar, B.G., Kenchaiah, K. (2002). Weed management in transplanted onion under protective irrigated situation. *Indian Journal of Weed Science*, **34** (3/4): 327-328.
- Rathore, B.S. and Shekhawat, B.S. (2004). Integrated weed management in *kharif* onion (*Allium cepa* L.) under semi-arid conditions. *Haryana Journal of Agronomy* **20**(1): 86-87.
- Saikia, S., Saikia, A., Shadeque, A. and Gogoi, S. (1997). Integrated weed management in onion (*Allium cepa* L.). *Annals of Biology Ludhaina* **13**(1): 139-143.
- Sandhu, K.S., Singh, D.T. and Singh, J.W. (1997). Weed management in garlic under Punjab conditions. *Vegetable Science*, **24** (1): 7-9.
- Sangeeta Kumari (2008). Effect of crop-weed competition on weed flora, weed index and bulb yield of onion (*Allium cepa* L.). *Journal of Applied Biology*, **18**(1/2): 11-14.
- Singh, M.P. and Singh, K.P. (1993). Effect of weed control treatments on growth and yield of *kharif* onion cv. Agrifound Dark Red. *Haryana Journal of Horticulture Science*, **22**(3): 228-234.
- Singh, R., Kohli, U.K. and Nandal, T.R. (1997). Efficacy of some selected weedicides against onion weeds in Himachal Pradesh. *Journal of Hill Research*, **10** (2): 200-201.
- Singh, R., Nandal, T.R. and Shukla Y.R. (2001). Weed intensity and onion bulb yield as influenced by different weed management practices. *Crop Research Hissar*, **22**(1): 32-37.
- Singh, S. and Singh, J. (2000). National Symposium on onion and garlic, production and post harvest management challenges and strategies, *Abst.* p.226.

Singh, S.J., Sinha, K.K. Mishra, S.S., Thakur, S.S and Choudhary, N.K. (1992). Study on weed management in onion (*Allium cepa* L.). *Indian Journal of Weed Science*, **24**(2): 6-10.

Sukhadia, N.M., Ramani, B.B. and Dudhatra (2002). Response of rainy season onion (*Allium cepa* L.) to sowing methods and weed management practices. *Indian Journal of Agronomy* **47**(2): 278-283.

Syed, W.H. and Malik, M.F. (2001). Efficacy of cultural and chemical weed control in transplanted onion. *Agriculture research Institute*, **1**(9): 825-827.

Ved, P., Pandey, A.K., Singh, R.D. and Mani, V.P. (2000). Integrated weed management in winter onion

(*Allium cepa* L.) under mid-hill conditions of north-western Himalayas. *Indian Journal of Agronomy*, **45**(4):816-821.

Verma, S.K. and Singh, T. (1996). Weed control in kharif onion (*Allium cepa* L.). *Indian Journal of Weed Science*, **28**(1): 48-51.

Verma, S.K. and Singh, T. (1997). Chemical weed control in onion. *Indian Journal of Agronomy*, **42**(3): 540-543.

Yadav, S.P.S., Thakral, K.K., Yadav, A. and Sanwal, S.K. (2000). Economics of weed control with herbicides in onion. *Haryana Journal of Agronomy*, **16**(1&2):113-116.