

## EFFECT OF INTEGRATED CROP MANAGEMENT PRACTICES ON GROWTH, SEED YIELD AND ECONOMICS OF LENTIL (*LENS CULINARIS* MEDICK.)

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**Abstract:** A field experiment was carried out during rabi season of 2013-14 to 2015-16 at Research Farm of Pulse Section, Hisar, to study the effect of different crop management practices on growth, yield and economics of lentil. Different treatments were included in the experiment viz. control, NM (Nutrient Management): RDF (20:40 kg NP ha<sup>-1</sup>), WM (Weed Management): Pendimethalin @ 1.0 kg ha<sup>-1</sup> + one hand weeding at 30 DAS), PM (Pest Management): spray of quinalphos 25 EC one litre per ha in 250-300 litres of water as and when required, NM + WM, NM + PM, WM + PM, NM + WM + PM laid out in randomized block design and replicated thrice. Results revealed that significantly higher plant height, number of branches plant<sup>-1</sup>, number of pods plant<sup>-1</sup>, number of seeds pod<sup>-1</sup>, seed and straw yield were achieved in treatment having integration of NM + WM + PM being at par with that of integration of NM + WM over rest of the treatments. Integration of NM + WM + PM recorded lower weeds dry weight (31.1 kg ha<sup>-1</sup>) and higher weed control efficiency (94.18%) compared to all other treatments. The practice of integration of NM + WM + PM also produced higher net returns (Rs13190/ha) and BC ratio (1.53) compared to other crop management practices.

**Keywords:** BC ratio, Lentil, Nutrient management, Pest management, Seed yield, Weed management, Yield attributes

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