



*RESEARCH PAPER*

# Evaluation of growth, yield attributing characters, yield and economics of wheat (*Triticum aestivum* L.) in integrated weed management practice under the temperate conditions of Kashmir

RAYEES A. SHAH

National Agricultural Innovation Project, SRLS-3, KUPWARA (J&K) INDIA

**Abstract :** A field experiment was conducted under the temperate conditions of Kashmir during *Rabi* season 2011-12 and 2012-13 to study the effect of integrated weed management on growth, yield attributing characters, yield and economics of wheat (*Triticum aestivum* L.). The results revealed significant increase in grain yield and growth characters, like crop emergence/mm row length, No. of tillers / m row length at 60 DAS and plant height (cm) at 60 DAS with isoproturon @ 1 kg a. i /ha at 32 days after sowing + hand weeding at 30 days after sowing during both the years. Among the weed control measures isoproturon @ 1 kg a. i /ha at 32 days after sowing + hand weeding at 30 days after sowing recorded higher grains/ear, 1000 grain weight (g), highest grain yield ( 4.22 tonnes/ha) as well as straw yield (6.10 tonnes/ha) which was at par with the weed free but; isoproturon @ 1 kg a. i /ha tank mix with 2, 4-D @ 0.5kg a. i /ha at 32 days after gives significantly highest net returns Rs. 817.7 and Rs. 919.7 during 2011-12 and 2012-13, respectively. The higher net returns under isoproturon @ 1 kg a. i /ha tank mix with 2, 4-D @ 0.5kg a. i /ha at 32 days after sowing was due to lower cost of herbicides.

**Key Words :** Wheat, Herbicides, Integrated weed management, Yield

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