



## **Response of malt barley (*Hordeum vulgare* L.) to levels and scheduling of nitrogen application on yield attributes, yield and economics under normal and late sown conditions**

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**Abstract :** The field experiment was conducted to find out the effect of nitrogen levels and its split application on yield attributes, yield and economics of malt barley (*Hordeum vulgare* L.) under normal and late sown conditions during winter seasons of 2005-06 and 2006-07. The results showed that significantly higher effective tillers / m row, spike length, grains / spike, test weight, grain, straw and biological yield, harvest index and net returns of malt barley were observed under normal sown condition compared to late sown condition. Further, application of increasing levels of nitrogen from 60 to 90 kg ha<sup>-1</sup> significantly enhanced effective tillers / m row, spike length, grains / spike, test weight, grain, straw and biological yield, harvest index and net returns of malt barley. Scheduling of nitrogen at 1/3 as basal + 1/3 at I<sup>st</sup> irrigation + 1/3 at II<sup>nd</sup> irrigation brought a substantial improvement in above yield attributing characters and yields, harvest index and net returns of malt barley.

**Key Words :** Effective tillers, Spike length, Grains per spike, Grain and straw yield, Nitrogen levels, Growing environments, Scheduling of nitrogen application, Malt barley

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