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Research Article

# Effect of rate and time of nitrogen application on growth and seed yield of cumin (*Cuminum cyminum* L.) under loamy sand soil

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## Summary

A field experiment was conducted at Agronomy Instructional Farm, Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar during *Rabi* season of 2008-09 Twenty treatment combinations comprising of four levels of nitrogen (20, 30, 40 and 50 kg $ha^{-1}$) and five times of nitrogen application *i.e.*, 50 per cent as basal + 50 per cent at 30 DAS, 25 per cent as basal + 25 per cent at 8-10 DAS + 50 per cent at 30 DAS, 33 1/3 per cent as basal + 33 1/3 per cent at 8-10 DAS + 33 1/3 per cent at 30 DAS, 50 per cent at 8-10 DAS + 50 per cent at 30 DAS and 33 1/3 per cent at 8-10 DAS + 33 1/3 per cent at 30 DAS + 33 1/3 per cent at 50 DAS. The maximum growth and yield attributes recorded with 50 kg N $ha^{-1}$ and was at par with 40 kg N $ha^{-1}$ but significantly superior over rest of the lower levels of nitrogen except plant height at 60 DAS where it was at par with 40 and 30 kg N $ha^{-1}$. Application of nitrogen in three equal splits at 8-10, 30 and 50 DAS recorded the maximum growth and yield attributes as well as seed and straw yields of cumin.

**Key words :** *Cuminum cyminum* L., Nitrogen application, Yield

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