New Agriculturist, **26**(1) : 17–23, 2015

Effect of different levels of nitrogen and phosphorus on growth, yield and quality of Kalmegh (*Andrographis peniculata* Burn. F.)

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Received December 15, 2014 and Accepted March 13, 2015

ABSTRACT : A field experiment was conducted during season 2007-2008 at floriculture research field, department of horticulture, Sam Higginbottom Institute of Agriculture Technology Sciences, Allahabad, to evaluate the growth, yield and quality of kalmegh using different levels of nitrogen and phosphorus. The experiment was laid out in RBD with sixteen treatments each replicated thrice. Plant height (39.24cm), number of leaf (414.56), plant spread (25.22cm), leaf area (9.40cm^2), number of primary branches per plant (22.78), number of secondary branches (26.33), fresh herb yield per plant (78.01gms), fresh herb yield per ha (124.81q/ha), dry herb yield per plant (22.85gm), dry herb yield /ha (36.55q/ha) and maximum andrographolide content (2.25 %) were recorded with treatment T_{13}-100kg N/ha + 40 kg P/ha while minimum value regarding plant growth, yield and quality were associated with T_0-0 kg N/ha + 0 kg P/ha (control).

Key Words: Kalmegh (*Andrographis peniculata*), herb, yield, quality, nitrogen and phosphorus.