

Indian Forester, 141 (1) : 41-46, 2015  
<http://www.indianforester.co.in>

ISSN No. 0019-4816 (Print)  
ISSN No. 2321-094X (Online)

## EFFECT OF GROWING MEDIA AND INORGANIC PHOSPHORUS ON GROWTH AND DEVELOPMENT OF MAGGAR BANS (*DENDROCALAMUS HAMILTONII* MUNRO) PLANTING STOCK

SUVEENA THAKUR<sup>1</sup>, D.R. BHARDWAJ, R.K. KAUSHAL<sup>2</sup> AND RAJESH KAUSHAL<sup>3</sup>

*Department of Silviculture and Agro forestry,  
Dr. Y.S. Parmar University of Horticulture and Forestry, Solan, Himachal Pradesh, INDIA  
E-mail: bhardwajdr\_uhf@rediffmail.com*

### ABSTRACT

Studies were conducted to investigate the effect of five growing mediums and four levels of inorganic phosphorus on the growth and development of *Dendrocalamus hamiltonii* planting stock under mid-hill conditions of north-western Himalayas. The growing medium and phosphorus levels significantly influenced various growth and development traits individually as well as in combinations. The growing medium viz., sand + soil + FYM (1:1:1) proved to be significantly superior for enhancing height and diameter growth of the tiller's, number of tiller per sapling, number of nodes per tiller, number of roots, length of roots, number of rhizomes, dry weight of stem, roots, rhizomes and underground biomass. Among the various levels of phosphorus, 5 g SSP/propagule significantly proved to be the best dose. In combination effect, the maximum dry weight of rhizome (2.82 g plant<sup>-1</sup>) and underground biomass (9.69 g plant<sup>-1</sup>) was recorded in the propagules grown in sand: soil: FYM (1:1:1) and supplied with P @ 5 g SSP/propagule.

**Key words:** Growing medium, Bamboo, Quality planting stock, Underground biomass, Growth and development, Propagule