



RESEARCH ARTICLE

DOI: 10.15740/HAS/IJFCI/8.2/89-92

## Effect of pruning levels of *Glyricidia sepium* on growth and productivity of field crops

H. Y. PATIL, S. M. MUTANAL AND M. V. MOKASHI

**ABSTRACT :** A field experiment was initiated at Main Agricultural Research Station, UAS, Dharwad from 2011-12 and 2012-13. *Glyricidia sepium* was grown at 10 m alley and planted at 1 m apart. Four pruning intensities were imposed on *Glyricidia sepium* alleys. Both groundnut and bengalgram crops were grown sequentially in the inter space of alleys. The groundnut pod yield and grain yield of bengalgram were significantly higher in *Glyricidia* pruned at 75 per cent of height as compared to the other pruning levels. Pruning of *Glyricidia* had significantly higher number of branches and total biomass with *Glyricidia* pruned 75 per cent of height as compared to other treatments. This may be due to higher number of branches and higher number of prunings.

**KEY WORDS :** Pruning, Coppicing, *Glyricidia sepium*, Alley

**HOW TO CITE THIS ARTICLE :** Patil, H.Y., Mutanal, S.M. and Mokashi, M.V. (2017). Effect of pruning levels of *Glyricidia sepium* on growth and productivity of field crops. *Internat. J. Forestry & Crop Improv.*, 8 (2) : 89-92, DOI: 10.15740/HAS/IJFCI/8.2/89-92.

**ARTICLE CHRONICAL :** Received : 21.06.2017; Revised : 25.10.2017; Accepted : 05.11.2017

MEMBERS OF RESEARCH FORUM

**Address of the Correspondence :** S.M. MUTANAL, AICRP on Agroforestry, University of Agricultural Sciences, DHARWAD (KARNATAKA) INDIA

Email: [mutanalsm@uasd.in](mailto:mutanalsm@uasd.in)

**Address of the Coopted Authors :** H.Y. PATIL AND M.V. MOKASHI, AICRP on Agroforestry, University of Agricultural Sciences, DHARWAD (KARNATAKA) INDIA