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RESEARCH ARTICLE

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Productivity studies in marihal bamboo (*Oxytenanthera stocksii*) under agroforestry system

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ABSTRACT : An experiment was conducted to know the performance of marihal bamboo (*Oxytenanthera stocksii*) under Agroforestry system in rainfed conditions during 1999 -2006 on red gravelly soils of Main Agricultural Research Station, University of Agricultural Sciences, Dharwad. The bamboo was planted in three spacings *viz.*, S_1 – 4x2m, S_2 – 4 x 3m, S_3 – 4x4m, S_4 – 4 x 5m and S_5 – Field crop. Sesamum crop was grown for four years. At the end of 2006-07, bamboo culm height and diameter were significantly higher in spacing of 4 x 5 m as compared to 4 x 2 m. Harvestable culms and gross return were higher in wider spacing (4x5m) as compared to narrow spacing (4 x 2m). The sesamum grain yields were higher in wider spacing than narrow spacing.

KEY WORDS : *Oxytenanthera stocksii*, Riparian filter, Pulp, Paper, Intercropping, Live fencing, Rural community

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