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semi-arid black soil regions (Bellary) of India. In: Agroforestry for Rural Needs Vol. II, ISTS, Solan, H.P. (Eds) D.K. Khurana and P.K.Khosla: 463-474.

The paper discusses the results of agroforestry studies conducted on the rainfed, semi-arid black soils of Bellary (Karnataka). Studies showed biomass yield of 22,129 kg⁻¹yr⁻¹ of *Leucaena* at 0.75 m planting and 16,345 to 25,238 kg ha⁻¹yr⁻¹ in 4.50 m alleys over 5 years. *Acacia nilotica* gave a maximum biomass of 2.78 t ha⁻¹yr⁻¹ compared to 1.06 and 0.68 t ha⁻¹yr⁻¹ from *Azadirachta indica* and *Eucalyptus* hybrid, respectively. Comparative grain yield of sorghum and bengalgram as intercrops in different tree combinations, alongwith the economics of the systems have also been presented.