

and by planting along staggered contour trenches instead of usual pits.

661. **Grewal, S.S., Juneja, M.L., Singh, Shiv Charan and Singh, Kehar. 1999.** Productive and protective role of *Leucaena* based agroforestry in comparison with rainfed field crops on a gravelly soil. *Indian J. Agri. Sci.*, 63(9):565-569.

Presents results of a study conducted at Chandigarh during 1984-89 on gravelly soil under rainfed conditions to evaluate two agroforestry systems based on white popinac of hon tamarind (*Leucaena latisiliqua*). The agroforestry system comprising K8 white popinac for fuelwood at 2 x 2m in upper canopy and El Salvador white popinac at 0.5 x 0.5m f

fodder in lower canopy (LN) and K8 as above in upper canopy and NB21 hybrid napier grass (*Pennisetum purpureum* Schum.) for fodder in lower canopy at 0.5 x 0.5m (LN) were compared with a traditional rainfed crop sequence of sesame (*Sesamum indicum* L.) rapeseed (*Brassica napus* L.) alongwith a control of cultivated fallow (CF) in plots of 20 x 8m size on a 2% land slope LN and of sesame and rapeseed, respectively. The agroforestry systems were economically more viable and provided better conservation compared with the traditional crops.