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An investigation was carried out at Kota (Rajasthan) for four consecutive years (1980-1984) in clay loam soils under rainfed conditions to study the compatibility of field crops. The results indicated that *Eucalyptus tereticornis* tree line had adverse effect on yield upto 10 m distance in *kharif* crops and upto 20 m distance in *rabi* crops. The average yield reduction in *kharif* crops upto 10 m distance was 36, 54 and 55% in sorghum, greengram and blackgram, respectively. Yield reduction upto 20 m distance was 82% and 64% in safflower and *taramira* during *rabi* season.