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A field experiment was conducted at Kota (Rajasthan) to study the compatibility of field crops viz. sorghum (CSH-5), sorghum+ pigeonpea (local), blackgram (T-9), greengram (PS-16) and castor (Aruna) during *Kharif* and *taramira* (local) and safflower (No. 10) during *rabi* with *Leucaena leucocephala* tree line under rainfed agroforestry system. The results indicate that *Leucaena* tree line did not have any adverse effect on the yield of *kharif* crops during initial two years. The yield reduction in grain yield upto 10 m distance was 25, 29, 31, 37 and 38% in sorghum, castor, sorghum+pigeonpea, greengram and blackgram, respectively, as compared to 20-30 m segment.