



RESEARCH ARTICLE

DOI: 10.15740/HAS/IJFCI/8.2/125-129

Compatibility of soybean-safflower in sapota timber based agroforestry system

S.M. MUTANAL, M.V. MOKASHI, S.M. GHATANATTI AND K.N. PAWAR

ABSTRACT : An experiment was initiated from 2006 to 2016 to study the compatibility of Soybean – Safflower in Sapota Timber based Agroforestry System at Main Agricultural Research Station, University of Agricultural Sciences, Dharwad on medium black soils under rainfed conditions. Sapota was planted at 8 x 8 m and a timber tree is planted in between two sapota trees. Timber tree species viz., *Pterocarpus marsupium*, *Tectona grandis*, *Terminalia paniculata*, *Lagerstroemia lanceolata* and *Terminalia alata*. Field crops viz., Soybean and Safflower were grown in alleys of Sapota – Timber trees every year in both *Kharif* and *Rabi* season, respectively. Both crops growth was better with *Tectona grandis* + sapota and *Lagerstroemia lanceolata* + sapota and *Pterocarpus marsupium* + sapota as compared to other tree species. The grain yield reduction was increased as growth of trees advanced and was minimum in *Kharif* season than *Rabi*. Among the tree species, better growth was observed in *Tectona grandis* + sapota + field crop and *Lagerstroemia lanceolata* + sapota + field crop as compared to other tree species. The sapota grown and fruit yield were higher in *Tectona grandis* and *Lagerstroemia lanceolata* as compared to other tree species.

KEY WORDS : Grain yield reduction, Compatibility, Sapota, Timber trees

HOW TO CITE THIS ARTICLE : Mutanal, S.M., Mokashi, M.V., Ghatanatti, S.M. and Pawar, K.N. (2017). Compatibility of soybean-safflower in sapota timber based agroforestry system. *Internat. J. Forestry & Crop Improv.*, 8 (2) : 125-129, DOI: 10.15740/HAS/IJFCI/8.2/125-129.

ARTICLE CHRONICAL : Received : 25.10.2017; Revised : 07.11.2017; Accepted : 25.11.2017

MEMBERS OF RESEARCH FORUM

Address of the Correspondence : S.M. MUTANAL, AICRP on Agroforestry, University of Agricultural Sciences, DHARWAD (KARNATAKA) INDIA
Email: mutanalsm@uasd.in

Address of the Coopted Authors : M.V. MOKASHI, S.M. GHATANATTI AND K.N. PAWAR, AICRP on Agroforestry, University of Agricultural Sciences, DHARWAD (KARNATAKA) INDIA