A Madhavi Lata et al., Agrotechnol 2015, 4:2
http://dx.doi.org/10.4172/2168-9881.S1.015

OMICS International
conferenceseries.com

4th International Conference on
Agriculture & Horticulture
July 13-15, 2015 Beijing, China

Studies on amla and terminalia based agri-horticultural system intercropped with Ashwagandha

A Madhavi Lata and **B Joseph**
Prof. Jayashankar Telangana State Agricultural University, India

An experiment was conducted during kharif seasons of 2008-09 and 2009-10 at AICRP on Agroforestry, PJTSAU, Rajendra nagar. The present investigation comprised of agroforestry model with Ashwagandha intercropped in four year old amla and Terminalia agri-horticultural systems laid in split plot design with three replications. The treatments in Ashwagandha based agri-horticultural systems consisted of three cropping situations as main plots viz., intercropping of Ashwagandha in amla, intercropping of Ashwagandha in terminalia and sole cropping of Ashwagandha. The results indicated that among the different cropping situations studied in Ashwagandha based agri-horticultural system; growth parameters like plant height, dry matter production and leaf area per plant of Ashwagandha were markedly higher under sole cropping situation when compared to intercropping situation both in amla and terminalia. Days to physiological maturity of Ashwagandha was delayed by 9-10 days in intercropping situation in terminalia when compared to intercropping in amla. Root and seed yields (kg ha^{-1}) of Ashwagandha were the highest with sole cropping situation compared to either of the intercropping situations. Aswagandha performed better to some extent as an intercrop in amla as compared in terminalia. With anolide content (%) was significantly more under sole cropping. PAR was more under sole cropping compared to intercropping situation.

Biography

A Madhavi Lata completed her PhD (Agronomy) in 2011 from Acharya N G Ranga Agricultural University and is working as Associate Professor in Department of Farm Forestry at College of Agriculture, Prof. Jayashanker Telangana State Agricultural University, Rajendranagar, Hyderabad. She is guiding both under graduate and post graduate students through teaching and research. She has attended a number of International and National conferences and presented papers on medicinal plants.

mlata.017@gmail.com

Notes: