

Performance of Andrographis (Kalmegh) in Tree Based Cropping Systems under Dryland Conditions

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ABSTRACT

The field experiment was conducted in the existing plantations at College of Agriculture, Rajendranagar, Hyderabad during *kharif* seasons of 2008 and 2009 in red sandy loam soils. The medicinal crop of andrographis was intercropped in the existing tree crops of amla and terminalia, respectively. The treatments consisted of three cropping systems as main plot treatments and six INM treatments as sub plot treatments. The treatments were laid out in split plot design and replicated thrice. The results revealed that growth parameters of andrographis *i.e.*, plant height, dry matter production and leaf area were found maximum in sole cropping of andrographis followed by intercropping in amla and terminalia. Days to 50% flowering and physiological maturity were delayed by 3-4 days under intercropping situation over sole cropping. Herbage yield (5396 and 5193 kg ha⁻¹ in first and second year) of andrographis was significantly more with INM practice (20 kg N ha⁻¹ through urea + Vermicompost @ 2 t ha⁻¹).

Key words : Agri-horticulture, Andrographis, Intercropping.