

Effect of Organic Manures and Microbial Inoculants on Root Yield Attributes of Ashwagandha

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ABSTRACT

A field experiment was conducted during late kharif season of 2010-2011 at College of Horticulture, Venkataramannagudem, West Godavari Dist (Andhra Pradesh) to identify a suitable source of organic nutrients and their optimum combination with bionutrient sources on, root yield attributes and root yield in ashwagandha. There were 14 treatments consisting of organic manures *viz.*, poultry manure, vermicompost, Neem cake and Farm yard manure and biofertilizers *viz.*, *Azospirillum* and PSB. Results indicated that application of poultry manure in combination with biofertilizers produced higher root length, root diameter, fresh root yield, dry root yield and seed yield of 21.00 cm, 1.59 cm, 1524 Kg ha⁻¹, 739 Kg ha⁻¹ and 186.40 Kg ha⁻¹ respectively and it was on par with VC + Biofertilizers and recommended dose of fertilizers.

Key words : Ashwagandha, Dry root yield, Fresh root yield, Root diameter, Root length, Seed yield.