

Root parameters and soil microflora as influenced by vesicular arbuscular mycorrhiza (VAM) in onion (*Allium cepa*) under irrigated ecosystem of northern dry zone of Karnataka

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ABSTRACT

An experiment was carried out at Kittur Rani Channamma College of Horticulture, Arabhavi, (UHS, Bagalkot) under irrigated ecosystem of Northern dry zone of Karnataka during *Kharif* 2012 and *Kharif* 2013 to find out the effect of vesicular arbuscular mycorrhiza and biofertilizers on root parameters and soil microflora of onion. The extent of root growth and soil microflora varied with the VAM and biofertilizers used. The treatment T₁₀ (T₁ + *Azospirillum brasilense* + *Azotobacter chroococcum* + VAM+ PSB + *T. harzianum*) recorded significantly higher root parameters (root length, number of roots, root volume and fresh root weight) and microbial load in the soil whereas, lower in the treatment supplemented with T₁ (RDF).

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