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RESEARCH ARTICLE :

Effect of conventional and nano micronutrient fertilizers on yield and economics of pigeonpea [*Cajanus cajan* (L.) Millsp.]

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SUMMARY : The field experiment was carried out with different grade foliar spray solutions and soil applicationof nano and conventional multi micronutrient fertilizers to study their effect on yield and economics of pigeonpea [*Cajanus cajan* (L.) Millsp.] during *Kharif* season, 2015 atMain Agriculture Research Station,Raichur. The results revealed that foliar spray of either conventional or nano multi micronutrients along with RDF have shown higher grain yields of pigeonpea when compared with the RDF alone (941.8 kg ha^{-1}). Among conventional and nano multi micronutrient foliar sprays, the conventional multi micronutrient mixtures showed comparatively higher yield over the nano. In the case of soil applications, the applications of nano and conventional sodium molybdate to the soil have given comparatively higher yields (951.5 and 984.7 kg ha^{-1}) than the RDF alone (941.8 kg ha^{-1}) but the differences in yields were non-significant.The cost economic analysis of various treatments has given the highest B:C ratio of 2.32 to the treatment conventional multi micronutrients along with RDF while B:C ratio was lowest (0.85) for nano multi micronutrientsowing to high input costs of nano micronutrients.

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