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Interaction effect of organic manures and fertilizers on growth parameters and yield of coriander (*Coriandrum sativum* L.)

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The present investigation was carried out during *Rabi* season of 2012-2013 at Horticulture complex, Department of Horticulture, JNKVV (M.P.). The experimental material for the present investigation was comprised of twelve treatments. These treatments were sown in RCBD design with three replications, to assess the effect of organic and inorganic sources of nutrient on productivity and economics of coriander. All the treatments resulted in significantly higher values of yield attributes and seed yield of coriander over control. The maximum plant height recorded with vermicompost @ 5 t ha^{-1} + 100 % RDF, while the minimum with poultry manure @ 2.5 t ha^{-1} + 50 % RDF. Vermicompost @ 5 t ha^{-1} + 100 % RDF recorded the maximum number of primary and secondary branches, while the minimum were observed with FYM @ 10 t ha^{-1} + 50% RDF. Maximum number of umbels per plant were found with poultry manure @ 5 t ha^{-1} + 100 % RDF, while it was the minimum with the application of FYM @ 10 t ha^{-1} + 50% RDF. The maximum number of seeds per umbel were found with poultry manure 5 t ha^{-1} + 100 % RDF, while the minimum in vermicompost @ 2.5 t ha^{-1} +50% RDF. Interaction effect on weight of seeds per umbel (g) was found to be non-significant. However the maximum weight of seeds per umbel (g) was found with poultry manure @ 5 t ha^{-1} + 100 % RDF, while the minimum in vermicompost @ 2.5 t ha^{-1} +50% RDF. Significantly maximum number of seeds per plant were found with poultry manure 5 t ha^{-1} + 100 % RDF, while it was the minimum in FYM @ 10 t ha^{-1} + 50% RDF. Variation in seeds yield per plant, seed yield per plot (kg) and seed yield (q ha^{-1}) due to interactions were found to be significant. The maximum seed yield was recorded with poultry manure 5 t ha^{-1} + 100 % RDF. However it was the minimum with FYM @ 10 t ha^{-1} + 50% RDF.

Biography

Dadiga Ashwini has completed her Bachelor of Science (Hons.) in Horticulture from Andhra Pradesh Horticulture University, West Godavari District, Andhra Pradesh and Master of Science in Horticulture (vegetable Science) from Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur, Madhya Pradesh. She is working as contract lecture in Horticulture Polytechnic Adilabad, Dr. Y. S. R. Horticulture University.

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