



**RESEARCH ARTICLE :**

## Interaction effect of organic manures and fertilizers levels on growth and yield of coriander (*Coriander sativum* L.)

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**SUMMARY :** The experiment was carried out during the *Rabi* season at Horticulture complex, Department of Horticulture, JNKVV, Jabalpur (M.P.) during the year 2012-2013. The experiments were laid out in Asymmetrical Factorial RCBD with three replications. To assess the effect of different organic manures (Poultry manure and Vermicompost) and inorganic fertilizer levels (50 % and 100 % RDF) on growth and yield of coriander (*Coriandrum sativum*). Among the organic manures and fertilizer levels, variation for all characters were found to be significant. The maximum values were recorded with Poultry manure @ 5 t ha<sup>-1</sup> and 100 % RDF respectively. Variation in treatment combinations due to interaction effect were non-significant (except for plant height at 30, 60 number of umbels per plant seed yield per plant) however, maximum values were recorded with Poultry manure @ 5 t ha<sup>-1</sup> + 100 % RDF recorded the maximum seed yield (19.16 q per ha) of coriander variety JD-1. The maximum seed yield of 19.16 q ha<sup>-1</sup> was recorded in coriander variety JD – 1 in treatment combination T<sub>5</sub> (Poultry manure @ 5 t ha<sup>-1</sup> + 100 % RDF) along with cost benefit ratio 1:2.98. However, the minimum cost benefit ratio (1.95) was obtained in the treatment combination T<sub>12</sub> (Vermicompost @ 2.5 t ha<sup>-1</sup> + 50% RDF) due to higher expenditure and comparatively lower seed yield of 13.77 q ha<sup>-1</sup> as compared to the other treatments.

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