



# Influence of organic and inorganic fertilizers on growth and tuber yield of coleus (*Coleus forskohlii* Briq.) under northern dry zone of Karnataka

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**Abstract :** Coleus (*Coleus forskohlii* Briq.) belonging to the family Lamiaceae is an Indian medicinal plant grown for its tuberous roots. It is used against hypertension, glaucoma and congestive cardiomyopathy. It needs to be cultivated in large scale. A field experiment was conducted on sandy loam soil under irrigated conditions at the Kittur Rani Channamma College of Horticulture, Arabhavi, Karnataka, India, to study the effect of organic and inorganic fertilizers on growth and yield of coleus. The results of the experiment revealed that application of 75 Per cent RDF (Recommended dose of fertilizer) + 10 t FYM + vermicompost 5 t per hectare produced increased plant height (66.49cm), number of branches per plant (85.95), leaf area index (7.49) at harvest, absolute growth rate (3.394g/plant/day), crop growth rate (0.943g/m<sup>2</sup>/day) and relative growth rate (0.0460g/g/week) were recorded at 120-160 days after planting. The maximum fresh tuber yield 225.47 and 250.52 g/plant and q/ha, respectively and dry tuber yield 29.53 and 32.81 g/plant and q/ha, respectively.

**Key Words :** *Coleus forskohlii*, Forskolin, Nutrients, Dry matter accumulation, Tuber yield

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