

عنوان مقاله:

Effect of Cow Manure Vermicompost and NPK Fertilizers on the Growth of Purple Coneflower (Echinacea angustifolia)

محل انتشار:

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نویسنده:

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خلاصه مقاله:

A pot experiment was conducted to investigate the comparative effect of cow manure vermicompost and NPK fertilizers on the growth and flower production of Purple Coneflower (Echinacea angustifolia). An air dried sandy loam soil was mixed with four rates of NPK fertilizer equivalent to 0 (control), 0.5 dose (N-P-K = 69-16-35 kg·ha⁻¹), 1 dose (recommended) (N-P-K = 137-32-70 kg·ha⁻¹), 2 doses (N-P-K = 274-64-140 kg·ha⁻¹) and 4 doses (N-P-K = 548-128-280 kg·ha⁻¹) and three rates of vermicompost equivalent to 5%, 10%, 20% by oven dry weight. Two plants were grown in each pot. After blooming of flowers, the plants were harvested at 50 days of growth and leaves and stems were separated. The growth parameters (shoot height, root length, leaf number, total number of flower, flower diameter, fresh and dry weight of flower) of Purple Coneflower plant increased by the application of vermicompost and the effect of NPK fertilizer was not found effective. The growth performance was similar between 10% and 20% .and hence 10% vermicompost should be taken into consideration when ornamental plants are grown in potting media

کلمات کلیدی:

Organic Fertilizer, Soil, Rates of Fertilizer, Flower, potting media

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