

# **EFFECT OF DIFFERENT SUBSTRATES ON GROWTH AND FLOWERING OF ZINNIA (*ZINNIA THUMBERLINA* MIX)**

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## **Summary**

The objective of the study was to find out suitable substrates for the growth and flowering of *Zinnia thumberlina* Mix. The experiment was conducted at Agricultural Experiment and Research Station-College of Agriculture and Applied Biology-Can Tho University, from May to August 2017. The experiment was set up in Randomized Complete Design, including seven treatments were S1: rice husk + composted manure + soil (4:1:1), S2: coconut coir dust + composted manure + soil (4:1:1), S3: burned rice husk + composted manure + soil (4:1:1), S4: coconut coir dust + burned rice husk + composted manure + soil (2:2:1:1), S5: coconut coir dust + rice husk + composted manure + soil (2:2:1:1), S6: rice husk + burned rice husk + composted manure + soil (2:2:1:1), S7: composted rice husk and straw (2:4); eight replications for each treatment and each of which had equal to one pot (one plant per pot). Results showed that plants were grown in pots with coconut coir dust + burned rice husk + composted manure + soil (2:2:1:1) growth and flowering more than those of other treatments, having plant height (71.5 cm), stem diameter (0.91 cm), total number of flowers per pot (32.3 flowers), flower diameter (5.2 cm); followed by coconut coir dust + composted manure + soil (4:1:1) with plant height (70.1 cm), stem diameter (0.88 cm), total number of flowers per pot (25.0 flowers), flower diameter (4.9 cm). The research results contribute to the addition of suitable substrates for potted flowers (specially for Zinnia), while helping flower growers can take more initiative in preparing and utilizing the available substrate sources for growing media.

**Keywords:** *Flowering, growth, substrate, Zinnia thumberlina MIX.*