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Response of chemical and physical mutagens on yield of papaya (*Carica papaya* L.)

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ABSTRACT : An experiment was conducted at Horticulture Garden, Department of Horticulture, C.S. Azad University of Agriculture and Technology, Kanpur during two consecutive year. The main objective was to produce qualitative and quantitative fruits yield of papaya for fetching good return with use of chemical and physical mutagens. The maximum fruit yield of papaya was recorded by 24.86 kg/plant with the use gamma irradiation 10 kr, followed by control (24.01 kg/plant). Application of EMS mutagen @ 0.2% and 0.4% gave fruits by 18.38 kg/plant and 18.64 kg/plant, respectively. It is worth while to mention here that the lower doses of chemical and physical mutagens use on papaya gave better response over the higher doses. The growth and yield trails was found in concordance to fruits yield of papaya.

KEY WORDS : Chemical mutagene, Chemical substance, Nutritional need, Physical mutagene

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