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## Studies on integrated nutrient management (INM) in leaf and soil nutrient status of papaya (*Carica papaya* L.) cv. CO-7

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**ABSTRACT :** The field experiment was conducted during the year 2004-05 and 2005-06 at Main Experiment Station, Department of Horticulture, Narendra Deva University of Agriculture and Technology, Kumarganj, Faizabad (U.P.) to study the influence of organic manures, inorganic fertilizers and biofertilizers on leaf and soil nutrient status of papaya cv. CO-7. The maximum nutrient content of leaf viz., nitrogen, phosphorus, potassium, calcium and magnesium was recorded with T<sub>10</sub> (FYM + 100% NPK + *Azotobacter* + PSB) which was at par with T<sub>11</sub> (FYM + 100% NPK + *Azospirillum* + PSB), T<sub>4</sub> and T<sub>5</sub>. However, the maximum nutrient status of soil i.e. nitrogen, phosphorus, potassium, calcium, magnesium, organic carbon and minimum pH, EC and ESP was noted with the application of T<sub>10</sub> (FYM + 100% NPK + *Azotobacter* + PSB) closely followed by T<sub>11</sub> (FYM + 100% NPK + *Azospirillum* + PSB), T<sub>4</sub> and T<sub>5</sub> during both the year of study. The improvement of soil health and nutrient status of leaves due to application of organic manures, inorganic manure and biofertilizers on papaya orchard.

**KEY WORDS :** INM, Leaves, Soil, Fertility status, Papaya

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