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ANALYSIS OF MANGO FRUIT AND SEED

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ABSTRACT

Estimation of nutritional requirements in perennial crops is a problem particularly in fruit trees which have the biennial bearing habit like mango. Estimation of nutrients drained by the fruit crop in a season might give an idea of nutrient depletion in the soil when performed in combination with leaf analysis. Therefore, an experiment was conducted to determine concentration of macro-nutrients in leaf and fruit of mango. Samples were collected from leaf (5-7 month age from upper, middle and lower of fruiting flush trees) and fruit (mature) and analyzed for concentration of macro-nutrients. Composition of mango seed was also determined for sugars, starch and fat contents. Nitrogen contents of leaf and fruit was 1.31% and 5.78%, respectively, whereas, its distribution in peel, pulp, stone and seed was 1.21%, 1.59%, 1.07% and 1.91%, respectively. Phosphorus contents of leaves and fruit were .052% and 0.18%, while that of potash were 0.40% and 1.93%, respectively. Peel of the fruit contained maximum potash (0.73%), while phosphorus was concentrated in seed (0.11%). Mango seed contained a reasonable amount of starch (2.06 mg/100g) and fats (9.46%).