

Preliminary Evaluation of Fruits Characteristics in Selected Mango (*Mangifera indica* L.) Trees in Minab, (Hormozgan Province), Iran

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Abstract

The propose of this research was to evaluate the physical and biochemical characteristics of fruits in selected mango trees. Twenty six mango genotypes were studied in Minab, Hormozgan Province, Iran. A completely randomized design with 26 treatments and 4 replications was adopted. Each treatment was represented by one genotype. Several parameters related to fruit quantity and quality, such as width, length, weight of fruit and pit, pulp percentage, total soluble solids (TSS), titratable acidity (TA) and Vitamin C content, were evaluated. The results were submitted to variance analyses, the Duncan test and cluster analysis. Results showed that the mango genotypes studied in Minab presented statistical differences, in relation to fruit quantitative parameters. Also, mango genotypes presented high variation in TSS, TA, Vitamin C content and total sugars. In spite of fruit and pit weight and size, biochemical characteristics of fruit in genotypes were found to have potential for using in breeding programs.

Keywords: *Mango, Genotype, Quality, Fruit, Biochemical and Physical Characteristics,*