EFFECT OF DIFFERENT CHEMICALS ON THE PHYSICO-CHEMICAL PROPERTIES AND STORAGE-LIFE OF DATE FRUIT (Phoenix dactylifera L.) CV. "ZAIDI"

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ABST

rch studies were envisaged to ascertain the effect of CH, COOH (2%, 2.5%, NaCl (10%, 12%) and their combinations on colour, texture, weight loss, f-life, total sugars, reducing and non-reducing sugars, Vitamin C content, S. and acidity of date fruit cv. "Zaidi".

Colour of treated date fruit was found attractive with CH₃COOH 2.5% + NaCl 10% and CH₃COOH 3% + NaCl 12% than single entities. Texture of fruit was improved by CH₃COOH 3% + NaCl 12%. Maximum weight loss occurred in control, whereas, chemicals enhanced shelf-life in combinations. CH₃COOH 3% + NaCl 12% enhanced sugar content. Non-reducing sugars showed higher trend for CH₃COOH 3% + NaCl 12% followed by NaCl 12% over all other treatments. Higher sugar percentage was observed to prolong curing period of dates, while Vit. C content decreased, T.S.S. exhibited increasing trends. Like-wise acidity decreased with curing period.

INTRODUCTION

Date palm (Phoenix dactylifera L.) is the third most important summer fruit of Pakistan. It is perhaps the oldest fruit plant ever cultivated on the surface of this globe (1983). Its fruit is liked very much due to its high nutritive value assimilation and energy producing food. At present the total area under date cultivation in Pakistan is 42 thousand hectares with an annual production of 287.3 thousand tonnes (Agri. State of Pakistan

Date industry has not attained any commercial status in the districts of Punjab like 1992). Jhang, Sahiwal and Faisalabad due to the onset of early monsoon rains when leading rcial varieties such as Khudrawi, Zaidi, Hillawi etc., are at 'Doka' stage. Consequently fruit cannot be allowed to stay on tree beyond 'Doka' stage and has to be cured off the tree. Fruit harvested at 'Doka' stage is perishable and its quick disposal