

Effect of foliar application of GA₃, calcium and borax on shelf life of acid lime (*Citrus aurantifolia* Swingle)

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ABSTRACT : Present investigation was conducted during 2013-2014 in Instructional cum Research Fruit Orchard at the Department of Fruit Science, K.N.K. College of Horticulture, Mandsaur (M.P.). The meteorological data such as maximum and minimum temperature (28.4°C and 14.4°C) and Relative humidity (55% and 26%) were recorded during the experimental period. The experiment comprised of 10 treatments consisting of foliar spray of Gibberelic Acid, Calcium Nitrate, Borax and control (water spray). First foliar spray of chemicals was done on 18th November 2013 and second spray was repeated after 3 weeks of the first spray. After harvesting, fruits of each treatment were kept in plastic trays and stored at ambient room temperature and relative humidity. Pre-harvest application of every used chemical (Calcium nitrate, borax and GA₃) alone may be used for extending post-harvest shelf life of acid lime during storage. Out of these chemicals (*i.e.* Calcium nitrate, Borax and GA₃), Calcium nitrate @0.3% was found more beneficial as compared to others. The application of (Calcium nitrate @ 0.3%) proved best pre-harvest application for storage of acid lime from the point of fruit size (length and diameter), physiological loss in weight (%), decay loss and marketable quality.

Key Words : Acid lime (Kagzi lime) (*Citrus aurantifolia* Swingle), foliar application, shelf-life, physiological quality, acid lime.