

influenced by parental combinations. Hybrids of *P. trifoliata* as one parent and various species as the other parent control tree size from largest to smallest in the following order: *C. grandis*, *C. paradisi*, *C. cinensis*, and *C. reticulata* (5).

Cold hardiness as influenced by rootstock is a controversial subject. Most seedlings of *P. trifoliata* and its hybrids and *C. reticulata* express cold hardiness; however, this situation changes when a scion is propagated on the rootstock. The answer to this problem probably will be in selecting scions and rootstocks that mature their fruit early and exhibit a semideciduous to deciduous character that aids in forcing the tree into dormancy during the cold season.

Salinity is becoming a problem of worldwide importance. One of the limiting factors in determining the ability of rootstocks to exclude salts is that of a reliable screening technique. Selections of *C. grandis* and *C. reticulata* have exhibited some degree

of salt exclusion and further development of this line of research is underway.

Literature Cited

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Book Review

The Apple Tree Physiology and Management. D. L. Abbott, Long Ashton Research Station, University of Bristol, England. Published by Grower Books, 50 Doughty Street, London, WC1N 2LP. 80 pages. Price £4.00 which includes surface mail postage. (They cannot accept other currencies.)

This excellent paperback book summarizes 20 years of experimentation designed to gain an understanding of apple tree behaviour. The book examines a year in the life of an apple tree from 3 viewpoints. First orchard performance over a 9 years period, followed by detailed analysis of specific aspects of growth and development and completed by an overview

of the annual cycle.

The differences in growth and yield of 12 cultivars (mostly English) is shown with performance differences related to air temperature, flower density and fruit set. Factors that influence bud break and fruit set are related to tree performance with the tying together of many aspects usually treated singularly. The use of many graphs and diagrams help immensely in clarifying the relationship of one growth factor to another. Following presentation of the results of many experiments the author relates mechanisms of controlling tree vigor, maintaining balance of growth and fruiting, rejuvenating senescent trees and optimum cropping.