Section III

Water Management and Tree Nutrition

Irrigation and Walnut Quality

William H. Olson

Each of three Ashley and Hartley walnut orchards were monitored under two differential irrigation practices—a "good" irrigation practice and a "poorer" irrigation practice. Harvest samples were collected to determine if either irrigation practice had an effect on kernel quality. Although there was no significant difference in kernel quality for any of the quality factors measured, there was a trend for decreased nut size and an increase in shriveled kernels under the poorer irrigation.

Pecan Zinc Deficiency Correction

G. S. Sibbett, K. Hench, and R. Meyer

In spring of 1976 a study was initiated to compare several methods of zinc application with standard foliar sprays of zinc sulfate combined with urea. Treatments used included zinc sulfate (10 lbs/100 gals water) injected at the rate of 2 and 4 lbs/tree, 1 lb zinc chelate per tree, soil applied, and NZN as a foliar application. Observations show little difference in zinc correction although NZN does not appear as good when compared with other treatments. Leaf samples have been taken for qualitative evaluation of these treatments.