WALNUT SCALE vs WALNUT QUALITY

G. S. Sibbett, C. S. Davis

A test was conducted to determine effects of walnut scale on quality of Serr walnuts. The test included 15 pairs of heavily infested 6 year old trees where one tree of each pair was treated with Supracide® for walnut scale on March 16, 1978. Nut samples were harvested and submitted to Diamond Walnut Growers for crackout analyses. Significant reductions in percent lute kernels were attributed to walnut scale. Improvement, although non-significant, was noted in percent large nuts, percent lute amber and amber kernels where walnut scale was controlled. Additional replication will be needed to detect these differences significantly.

WALNUT SCALE/CODLING MOTH

G. S. Sibbett, D. Flaherty, C. S. Davis

A popular time to treat walnut scale has been as crawlers emerge, May 15 to July 1. Second brood codling moth emergence is usually coincident with the walnut scale crawler hatch and integration of controlling this pest with walnut scale is desired. Registered insecticides applied at that time can be disruptive to walnut aphids and spider mites. In 1978 a test was developed to screen six insecticides for activity against walnut scale and codling moth and subsequent effects on walnut aphids, spider mites and spider mite predators. These included: Supracide®, Lorsban®, Dimilin®, Imidan®, Ambush® and Torak® (having known lepidopterous larvacidal activity). Supracide® and Lorsban® were the only insecticides successful in controlling walnut scale. Codling moth/navel orangeworm control was obtained with Lorsban®, Torak®, Imidan® and Ambush®. Supracide® did not control codling moth/navel orangeworm. Ambush® was found to be disruptive to two spot and European red mites. Dimilin® promoted midsummer walnut aphid populations.