In July 1979 an experiment was initiated to study the effect of high summer walnut aphid populations on kernel quality. Zolone® was used to control an aphid population which had reached a level of 34 aphids per leaflet on July 13. No significant difference in kernel quality occurred between the treated and untreated controls. Additional experiments are planned in 1980 to evaluate effect of summer walnut aphid populations on kernel quality. Treatments will be applied prior to attaining the economic threshold.