and 100% levels. Defoliation at 80 days after planting also resulted in more decaying fruit when 80% or more of the foliage was removed from the plants.

Experiment 3. Since only late-season defoliations could be examined for effects on yield and fruit quality, differences in reduction patterns as found in the first two experiments could not be verified. In fact, analysis of the weight of the various fruit sizes and total weight revealed only very few significant reductions when compared to the control.

No significant differences in the weight of the extra large fruit was detected. No extra large fruit were harvested in the second picking.

Combining the weight of all extra large and large fruit for analysis showed a reduction by complete defoliation 70 days or 80 days after planting (Figure 2).

The weight of all marketable fruit (Figures 3 and 4) was significantly reduced by 100% defoliation at 80 or 90 days after planting.

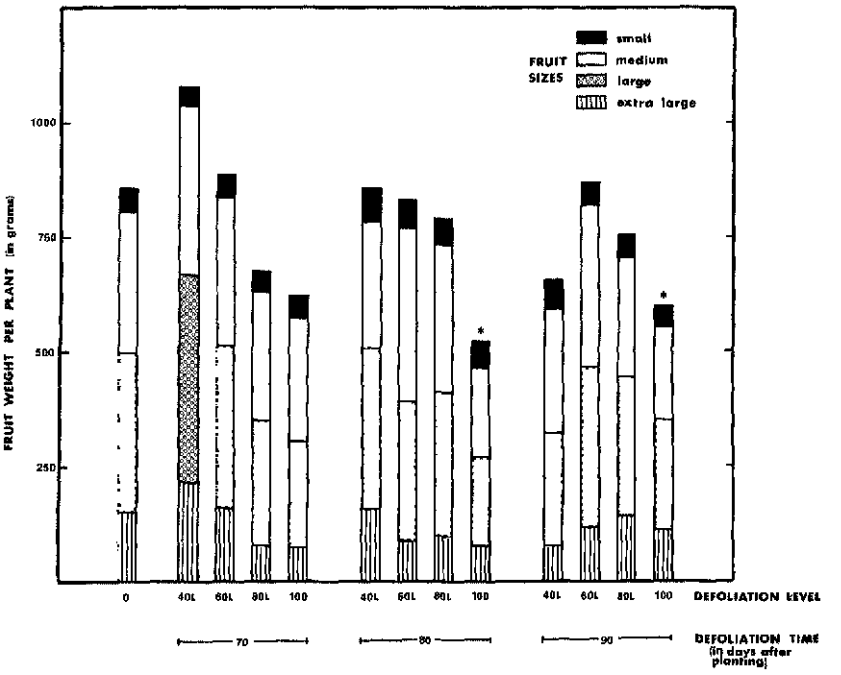

Figure 3. Influence of defoliation of 'Walter' tomato plants on the total yield of marketable fruit in the first harvest of the spring crop of 1979. A significant difference from the control is indicated by * for $P<0.05$ or by ** for $P<0.01$.