ABSTRACT

Sixth leaf Chandlers and fifth leaf Howard walnut trees yielded similar size crops on a yield per trunk size basis. In terms of actual yield the year older Chandlers produced twice the yield of the Howards.

OBJECTIVE

To compare the yield and quality of sixth leaf Chandlers and fifth leaf Howards in the same orchard under the same cultural practices.

PROCEDURE

Collect yield and quality data from 40 individual Chandler walnut trees and 40 individual Howard walnut trees, each planted adjacent to one another in an orchard in Durham, California.

RESULTS

The Chandler trees averaged 22.4 dry pounds per tree or 1073 pounds per acre. The Howard trees averaged 11.4 dry pounds per tree or 548 pounds per acre. The Chandlers are larger than the Howards. The average trunk area of Chandler trees was 270 cm$^2$. Howards averaged 160 cm$^2$. This size difference is consistent with the fact that the Chandlers were grafted in 1980 and the Howards in 1981. Dry yield per cm trunk area was nearly the same with the two varieties. Chandlers averaged .08 lb/cm trunk area while Howards averaged .07 lb/cm trunk area. Quality data is not available at this time.

CONCLUSION

From only one year's data Chandler and Howard appear to yield similar size crops. Tree size and age have the greatest yield influence on these young walnut trees.