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Effect of Different Levels of Mechanical Restriction Sugar and Organic Acid Contents in Watermelon

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Watermelon fruits were grown in enclosed conditions within 15-, 17 wooden boxes to mechanically restrict their growth. All treatments fruits, and the resulting fruit size corresponded to the box size. The f not differ between the 20-cm-sided box treatment and the control, l fruit in the 15- and 17.5-cm-sided box treatments remained yellow. cm-sided box treatments, sugar accumulation was higher in the cent regions of fruit compared with the control. On the other hand, in the

treatment, sugar accumulation in the central and/or intermediate regi equal to the control, and a larger amount of sugar accumulated in th organic acid contents of fruit also varied according to the treatment cm-sided box treatments resulted in marked increases of lactic and results suggest that treatment using the 20-cm-sided box was useful sweet fruit with a lower level of organic acid in watermelon.

Key Words: box size, cell enlargement, fresh color, sugar content

[PDF (1281K)] [References]

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