

Title Quality parameters changes during fruit development and their relationship with optimum harvest maturity for Satsuma mandarin cultivar grown in Dortyol and Samandag regions

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Abstract

This research was carried out in 2003-2004 in Dortyol and Samandag (Hatay) ecological conditions. The objective of this study was to determine to changes of quality fruit of Satsuma mandarin cultivar grown in Dortyol and Samandag regions. Fruits were obtained from trees grafted on Sour Orange rootstock and planted 7x7 m in orchard. Fruit width, length and weight, skin color (L^* , h°), fruit juice, total soluble solid (TSS), titratable acidity (TA), juice pH and TSS/TA were measured on fruits samples collected from tagged trees from after thinning in period of small fruit to ripening at a 7-15 days interval during fruit development. Data indicated that skin color especially h° value of CIE $L^*a^*b^*$, fruit juice, TSS and TSS/TA were important criteria in determining optimum harvest maturity. Optimum harvest time was middle of October (177-185 days after full bloom) for Satsuma mandarins in Dortyol and Samandag.