

Title Postharvest quality of apple fruit cv. Golden Delicious at different irrigation regimes
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Abstract

Water deficit is one of the important problems of agriculture in Iran. In current study in Darehgaz region of Khorasan province of Iran, 10 days irrigation intervals as control was compared with 15 and 20 days irrigation intervals on apple fruit cv. Golden Delicious according to postharvest quality issue. Results showed that 15 day irrigation intervals in contrast with 20 days irrigation intervals did not show significant differences with control at most measured quality parameters. Fruits of 20 days irrigation had higher undesirable firmness and lower titratable acidity in comparison with 10 and 15 day irrigations. In addition, fruit of 20 day irrigation intervals had lower lightness and lower fruit color index than of two other treatments. Total soluble solid of 20 days irrigation was higher than that of two other treatments and this was due to deficit water and unsuitable fruit crispness. Fruit size of 20 day treatment in contrast with 15 days treatment was lower than that of control, in result 15 days irrigation intervals can be used instead of 10 days intervals in Darehgaz region for apple trees.