



TOP > **Available Issues** > **Table of Contents** > **Abstract**

Horticultural Research (Japan)

Vol. 8 (2009), No. 3 321-326

Differences among Rootstock Cultivars in Late Woo and Freezing Tolerance in Apple Trees Grafted onto Rootstocks

Yuki Moriya¹⁾, <u>Kazunori Kudo</u>¹⁾, <u>Hiroshi Iwanami</u>¹⁾, <u>Hideo Bessho</u> and <u>Tetsuo Masuda</u>¹⁾

1) Apple Research Station, National Institute of Fruit Tree Science, and Food Research Organization

(Received October 15, 2008) (Accepted February 13, 2009)

Differences of the late wood discoloration were investigated for apt *domestica* Borkh.) grafted onto dwarfing rootstocks. In dissection and 'Jonagold' grafted onto JM1 and JM7, the late wood discolorat rootstocks. One year old trees of 'Mishima-Fuji' grafted onto three JM7, M.9, and M.26, were frozen to observe browning in the camb

surroundings and to measure the rate of damaged cells in the bark. increased as the treatment temperature decreased. The rate of damathat order M.9, JM7, M.26, especially in the rootstock part. These there were differences among rootstock cultivars for the late wood rate of damaged cells, which affected the degree of freezing injury u

Key Words: dehardening, freezing injury, frost ring, hardening, JN

[PDF (861K)] [References]

Downlo

To cite this article:

Yuki Moriya, Kazunori Kudo, Hiroshi Iwanami, Hideo Bessho, Jul Masuda. 2009. Differences among Rootstock Cultivars in Late Work Freezing Tolerance in Apple Trees Grafted onto Dwarfing Rootsto 321-326.

doi:10.2503/hrj.8.321