



 $\underline{TOP} > \underline{Available \ Issues} > \underline{Table \ of \ Contents} > \underline{Abstract}$

Horticultural Research (Japan)

Vol. 9 (2010), No. 2 159-164

Influence of 2°C Increase under Controlled Air Tem Physiological Fruit Drop in *Citrus*

Keiko Sato¹⁾, Hitoshi Okuda²⁾, Mitsunori Iwasaki¹⁾, Yoshimi Yone Fukamachi¹⁾ and Toshio Takahara¹⁾

- 1) Kuchinotsu Citrus Research Station, National Institute of Fruit T
- 2) Field Science Center of Kii-Kuroshio Life Area, Faculty of Biore
- 3) Tropical Agriculture Research Front, Japan International Research Agricultural Sciences

(Received December 17, 2008) (Accepted August 25, 2009)

We studied the influence of a 2°C increase in air temperature on phy *Citrus* using a growth chamber for two months after full bloom. On chamber was maintained at the standard temperature (control), while

maintained at 2°C higher than the control (+2°C treatment). The av changed every ten days. In 'Okitsu wase', 'Ishiji', 'Shirakawa' Sats unshiu Marcow.), and 'Shiranui' [(Citrus unshiu Marcow. × C. si reticulate Blanco], physiological fruit drop occurred more intensive than in the control after 10-20 days of full bloom. At the end of the physiological fruit drop ratio in plants receiving +2°C treatment was controls for 'Okitsu wase' and 'Ishiji'. In 'Miyagawa wase' and 'Sa mandarin, in which number of fruit was controlled by artificial fruit th fruit drop also occurred more intensively in plants receiving +2°C tr after 10–20 days of full bloom. Especially in 'Sasebo unshiu' at the period, the difference in the physiological fruit drop ratio between p treatment and controls was larger (26%) than that in 'Miyagawa wa wase' and 'Sasebo unshiu' fruit diameter of plants receiving +2°C t that of controls. These findings suggested that with acceleration of fi physiolosical fruit drop were both promoted by a 2°C increase in air bloom.

Key Words: fruit enlargement, phytotoron, Satsuma mandarin

[PDF (617K)] [References]

Downlo

To cite this article:

Keiko Sato, Hitoshi Okuda, Mitsunori Iwasaki, Yoshimi Yonemot Toshio Takahara. 2010. Influence of 2°C Increase under Controlle Physiological Fruit Drop in *Citrus*. Hort. Res. (Japan) 9: 159-164