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Influences of Applied Nitrogen Amount in Autumn and Lipid Content of Japanese Pear

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We investigated the influence of the amount of applied nitrogen on the
content of Japanese pear 'Nijisseiki' and 'Hosui'. 'Hosui' was more
nitrogen application than 'Nijisseiki' as shown by the increase of nit

shoot, decrease of cold hardiness and growth inhibition the next spring and phosphatidylcholine (PC) content of 'Hosui' were lower than 'Shinko' in lipid PC and unsaturated lipid content induced by chilling were in response to nitrogen application in both cultivars. Thus, excessive nitrogen application caused a decrease in cold hardiness by decreasing the lipid content and the u

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