

**Polyphenols in *Fragaria x ananassa***

(Received August 31, 1998)

(Accepted October 30, 1998)

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**Abstract**

Polyphenol content in leaf blades of five strawberry cultivars (*Fragaria x ananassa* Duch. cv.: 'Toyonoka', 'Hinomine', 'Nyohou', 'Harunoka' and 'Haruyoi') was determined by HPLC. Among 7 polyphenols, i.e., (+)-catechin (**1**), (+)-afzelechin-(4  $\alpha$ -8)-(+) catechin (**2**), procyanidin B3 (**3**), procyanidin B6 (**4**), pedunculagin (**5**), (+)-taxifolin 3-O- $\alpha$ -L-arabinofranoside (**6**) and (+)-taxifolin (**7**), the major constituents accumulated were **1** and **3**. In all cultivars, the contents (% dry weight) of **1** and **3** were in the ratio of almost 1:1 at every season, which levels changed between the range of 0.1 - 1 % during a year.