

Turkish Journal of Agriculture and Forestry

Turkish Journal



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Agriculture and Forestry

**Investigations on The Changes of Phenolic Substances During Flower Bud
Development in Strawberries**

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 [Keywords](#)
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Abstract: The extracts prepared from the samples which were collected weekly intervals between August and December in 1990 and 1992 were analyzed by thin layer chromatography and the changes in phenolic substances during flower bud developmental stages in strawberries were examined. Some differences were determined in terms of phenolic compositions among the developmental stages in the one dimensional chromatograms of young and mature leaves of Pocahontas, Tioga and Yalova-110 strawberry cultivars and these differences were observed during the same periods in all the three years. The 4th week of August, the 2nd week of September and the 4th week of December were found to be similar for three strawberry cultivars in terms of differentiation of phenolic substances by examining in two dimensional chromatograms. More differences were observed in phenylpropane compounds compared to the other phenolic compounds. Different periods with different composition of phenolic substances were investigated and developmental stages of flower bud corresponding to these periods in strawberry were determined.

Turk. J. Agric. For., **23**, (1999), 97-106.

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