

## 2-10. The Pollination of Honeybee on Peach Blossom Planted in Vinyl House and its Valuation of the Fruits after Harvest

Young-Soo Kim, Jae-Wook Cho\*, Man-Young Lee,  
Myeong-Lyeol Lee

*Honeybee Lab of Sericulture and Entomology, RDA*

The pollination activity of honeybees (*Apis mellifera* L.) were investigated at the green-house peach blossom of Cheongdo Peach Experiment Station in Korea during the early spring from 2/28/02 - 3/4/02. Furthermore, the differences of ripened fruits, such as bearing ratio, fruit weight, diameter, hardness, sweetness, and acidity were measured to compare the effects with honeybee, artificial, honeybee+artificial, and none pollination. The pollination activity in blossom and out/in-coming activity in hive was executed mainly at the morning time, the average staying time of a flower was 12 seconds, and there was observed division of pollination behaviors between pollen-collector and nectar-collector. The effect of honeybee pollination was also synergistic with artificial pollination to ascend the each pollination effect of fruit weight, diameter, and sweetness (about 20%) compared to artificial pollination only.