

Application of Soybean Oil for Delaying the Flowering of Nectarine As a Way to Reduce the Chilling Injury of Late Spring Frost

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Abstract

Late spring frost is one of the most important factors threaten fruit production in different areas and make damages to the gardeners. Considering the weather change and climate conditions, the damages increase every year. In this study, delay in flowering is suggested as a way to reduce the damages of late spring low temperature. The records show that postponing the flowering time would be a solution to avoid the risk of low temperature. In this research, raw soybean oil with 5% and 10% concentration in two different dates (Middle of the autumn and end of the winter) sprayed on nectarine trees using randomized complete block design with three replicates. Hence, two concentrations, two dates and one control sample provided nine treatments. Then, treatments compared using Duncan's multiple range test. The results indicated that the flowering of trees sprayed with 10% soybean oil delayed seven days.

Key words:

Nectarine, Late Flowering, Soybean Oil Late Spring Frost.

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