

## ABSTRACT

### DETERMINATION OF THE EFFECTS OF CHILLING PERIODS OF SOME FIG CULTIVARS AND HYDROGEN CYANAMIDE (H<sub>2</sub>CN<sub>2</sub>) TREATMENT ON EARLINESS

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This study was carried out in an attempt to define the effects of hydrogen cyanamide on earliness in order to provide early bud break and depending upon to this to ensure early maturation by means of removing dormancy in fig trees. In this study, it is also aimed to investigate chilling periods of some fig cultivars at the same time.

The preparate that is called Dormex including with a dose of 2% and 4% hydrogen cyanamide ingredient in conjunction with control application; while it was applied as one time in 30 days before bud initiation in the treatment of 2013 year approximately, it was also applied as two times in 30 days and 60 days before bud initiation in the treatment of 2014 year, respectively. The phenological and morphological observations were performed to define the effects of the applications in the fig cultivars, in Sarılop, Bursa Siyahı, 208 Siyah, Beyaz Orak, and Siyah Orak used as materials. According to the overall evaluation of the results, there were no statistically significant effects of hydrogen cyanamide application on some phenological observations such as bud break, fruiting, and fruit ripening and morphological observations.

In this study, chilling periods were assessed with three different methods besides the classic method, and chilling periods of some fig cultivars were calculated with these methods in ecology of Aydın province.

**Keywords:** Fresh fig, Dormex, chilling requirement, Hydrojen Cyanamide.