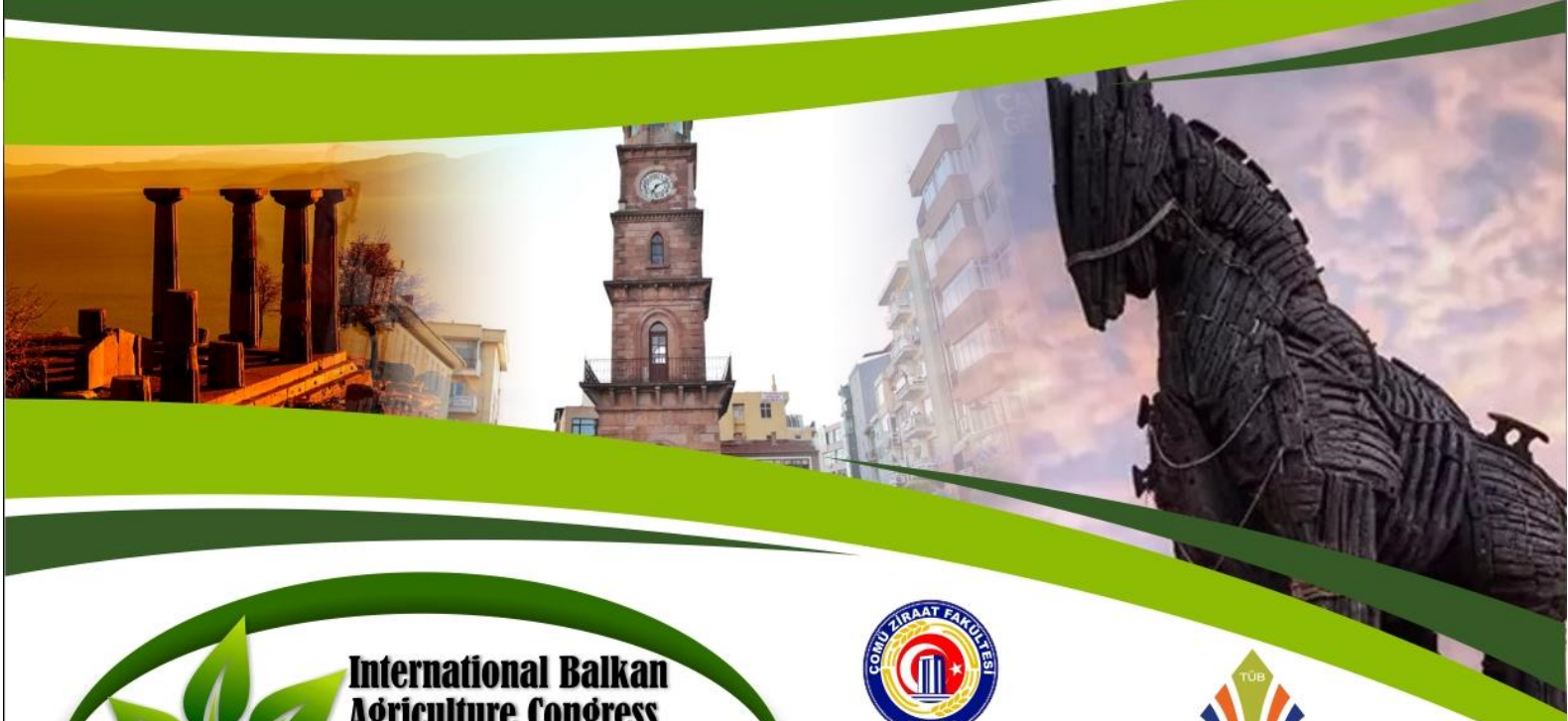


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International Balkan Agriculture Congress

BOOK OF PROCEEDINGS AND ABSTRACTS

ISBN:978-625-8278-51-4
ÇOMU Publication Number: 185

16-19 OCTOBER 2024
ÇANAKKALE
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ISBN: 978-625-8278-51-4

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Effects of Different Maturity Periods on Berry Quality and Biochemical Properties in Müşküle Grape Variety (*V. vinifera* L.)

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Abstract

This research was conducted in the 'Table Grape Varieties Application and Research Vineyard' located in the 'ÇOMÜ Dardanos Campus, Faculty of Agriculture, Plant Production Research and Application Unit'in 2020 and 2021. The aim of the research was to determine the effects of different maturity periods on berry quality and biochemical properties of the Müşküle grape variety. In this context, berries were taken for a total of 6 weeks in once a week starting from harvest maturity (23.10.2020 and 13.10.2021). In the collected berries; berry width (mm berry^{-1}), berry length (mm berry^{-1}), berry weight (g berry^{-1}), berry size index, skin thickness (mm berry^{-1}), berry skin color (L, Chroma and Hue), TSS (%), pH, acidity (%), maturity index, total phenolic substance amount (mg GAE 100 ml^{-1}) and total tannin amount (mg kg^{-1}) were determined. According to the two-year findings; no significant change was detected between weeks in berry width, berry length and pH values. Berry weight followed a slightly fluctuating course but reached the highest value in the 6th week (4.35 g berry^{-1}), and skin thickness decreased from 0.250 mm berry^{-1} to 0.180 and 0.160 mm berry^{-1} in the 6th and 5th weeks. As the weeks progressed, the berries had a more yellowish, vivid and bright skin color in terms of L, Chroma and Hue values due to maturation. The TSS value increased by approximately 0.50% in the 6th week compared to the first weeks, the acidity value gradually decreased as the weeks progressed, and the maturity index gradually increased from 51 to 56. Although fluctuations were observed in the total phenolic and tannin amounts between weeks, the lowest values were determined in the 6th week (3.41 mg GAE 100 ml^{-1} and 0.621 mg kg^{-1}, respectively). As a result; In the Müşküle grape variety, no collapse–rot damage occurred in the grapes kept on the vines for 6 weeks from harvest maturity, it was observed that the berry maturity progressed quite slowly and the quality was preserved. It is thought that the Müşküle grape variety can find buyers at a higher price by keeping it on the vines for up to 8 weeks from harvest maturity, without losing quality in the years when there is no frost event in the conditions of Çanakkale province.

Keywords: Phenolic compound, quality, müşküle, maturity, *V. vinifera* L