

Različitosti u razvoju boje i pomoloških svojstava četiri sorte marelice posađenih u Donjoj Zelini - preliminarni rezultati

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Sažetak

U radu je prikazana analiza rezultata mjerenja boje i pomoloških svojstava plodova 4 sorte marelice različitog vremena dozrijevanja posađenih u introdukcijskom pokusu u pokusnom voćnjaku Zavoda za vinogradarstvo, vinarstvo i voćarstvo u Donjoj Zelini. Istraživanja su provedena na sortama: Pinkcot, Harogem, Hargrand i Harlayne. Stabla su posađena 2006. godine, a cijepljena su na podlogu WaxWa. Tijekom vegetacijske sezone u 2010. godini praćena su slijedeća svojstva: masa, visina, širina i debljina ploda, topiva suha tvar refraktometrijski i čvrstoća u 4 roka berbe, osim za sortu Harlayne u 3 roka berbe, pri čemu je indikator početka prve berbe bila promjena osnovne boje kože ploda iz zelene u zeleno-žutu. Boja ploda mjerena je Konica Minolta Spectrophotometrom CM-700d korištenjem CIE $L^*a^*b^*$ sustava, gdje vrijednost L^* predstavlja svjetlinu tj. luminanciju, vrijednost a^* odnos crvene i zelene boje, a b^* odnos žute i plave boje. Osnovna i dopunska boja kože ploda mjerena je višekratno u razmacima od nekoliko dana, pri čemu su utvrđene različitosti u razvoju boje između sorti u istraživanju.

Kod sorti s izraženom crvenom dopunskom bojom (Pinkcot i Harogem) vrijednosti a^* i b^* osnovne boje ploda intenzivnije su se mjenjale tijekom razvoja ploda nego kod sorti Hargrand i Harlayne. Vrijednost L^* osnovne boje ploda nije značajno varirala i kod svih sorti se kretala u rasponu od 55,17 - 61,09. Također, kod sorti Pinkcot i Harogem vrijednost L^* dopunske boje ploda se smanjivala tijekom dozrijevanja i kretala se od 47,20 - 40,07 za Pinkcot, te od 46,49 - 43,96 za Harogem. Kromatska vrijednost a^* dopunske boje kože ploda rasla je tijekom dozrijevanja i kretala se od 11,72 - 35,25 za Pinkcot, te od 14,57 - 36,62 za Harogem.

Ključne riječi: marelica, boja, suha tvar, introdukcija

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Differences in development of colour and pomological characteristics of 4 apricot varieties planted in Donja Zelina - preliminary results

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Abstract

Analysis of results of colour and pomological characteristics measurement of 4 apricot varieties of different ripening periods planted in introduction trials in experimental orchard of the Institute of Viticulture, Enology and Pomology in Donja Zelina, was presented in this paper. Research was conducted on following varieties: Pinkcot, Harogem, Hargrand and Harlayne. Trees were planted in 2006, and grafted on a WaxWa rootstock. During 2010 vegetation season following characteristics were observed: weight, height, length and fruit width, soluble solids content and firmness in four harvest periods, except for variety Harlayne in three harvest periods. Change in ground colour of fruit skin from green to green - yellow was used as a indicator for first harvesting. Fruit skin colour was measured by Konica Minolta Spectrophotometer CM-700d using CIE $L^*a^*b^*$ system, where coordinate L^* represents lightness, coordinate a^* represents red - green spectrum, and b^* yellow - blue spectrum. Ground- and overcolour of the fruit skin was measured multiple times in intervals of several days, upon where differences in colour development were determined within varieties in trial. During the fruit development, varieties with expressed red overcolour (Pinkcot and Harogem), have shown intensive changes in a^* and b^* values of skin ground colour then varieties Hargrand and Harlayne. In all varieties value L^* of skin ground colour did not vary significantly, with value range between 55,17 - 61,09. Value L^* of skin overcolour in varieties Pinkcot and Harogem was decreasing during the ripening and ranged from 47,20 - 40,07 for variety Pinkcot, and from 46,49 - 43,96 for variety Harogem. Chromaticity value a^* of skin overcolour was increasing during ripening and ranged from 11,72 - 35,25 for Pinkcot, and from 14,57 - 36,62 for Harogem.

Key words: apricot, colour, soluble solids, introduction

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