

Determination of phenological and pomological characteristics of some apple cultivars grafted on dwarf and semi-dwarf rootstocks in Niğde ecological conditions

Fatma CEYLAN, Lütfi PIRLAK

Selçuk University, Faculty of Agriculture, Department of Horticulture, 42079 Selçuklu, Konya, Turkey,
(e-mail: lpirlak@hotmail.com)

Abstract

The aim of this study is to define phenological and pomological properties of some apple varieties grafted on dwarf and semi-dwarf rootstocks. The experiment was conducted at Sazlıca/Niğde on the orchard of private sector relating to, in 2006 and 2007. In this experiment, bud swelling, bud breaking, begin of blooming, full blooming, last blooming and harvesting data of Galaxy, Mondial Gala, Red Chief, Super Chief, Oregon Spur, Scarlet Spur, Early Redone, Granny Smith and Fuji apple varieties are observed. As a result, full blooming date was 20 April-10 May, fruit harvesting was between 20 August and 13 October. Average weight of varieties 144.6 g (Galaxy Gala) and 216.3 g (Fuji), average width 70.1 mm (Galaxy Gala) and 81.7 mm (Fuji), average height 57.6 mm (Mondial Gala) and 70.3 mm (Granny Smith), fruit index 1.13 (Early Redone) and 1.22 (Galaxy Gala, Mondial Gala), number of seeds 6.5 (Galaxy Gala) and 9.3 (Granny Smith), were determined, soluble solids content amount was% 12.2 (Granny Smith) and% 16.5 (Fuji), starch amount 1.82 (Early Redone) and 3.00 (Mondial Gala) for the varieties included in this experiment.

Key words: Apple varieties, M9 and MM106 rootstocks, phenological and pomological properties, Niğde province

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