

ABSTRACT

DETERMINATION of YIELD and YIELD COMPONENTS of SOME VARIETIES for EARLY SEASON POTATO (*Solanum tuberosum L.*) GROWING

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This study was conducted in the experiment fields at the Field Crops Department of Faculty of Agriculture at Adnan Menderes University in 2009 to determine yield and yield components of different maturity groups potatoes for early season growing in Aegean Region in Aydin conditions. The research was carried out in randomized blok design with 3 replications and 11 different potato varieties (Vangogh, Latona, Carmona, Marabel, Agata, Adora, Olympia, Fabula, Hermes, L.Cleary, Safrane) were used.

In this study, tuber numbers per plant (number/plant), single tuber weight (g), tuber yield per plant (g/plant), plant stem numbers (number/plant), big tuber rate (%) (> 50 mm), medium tuber rate (%) (> 30 mm - < 50 mm), small tuber rate (%) (< 30 mm) and tuber yield (kg/da) features were observed.

Among the observed characteristics, tuber number per plant, tuber yield per plant, plant stem number, medium tuber rate and tuber yield for Agata variety was higher than other varieties. It can be concluded that Agata was the most suitable variety for off - season growing in Aydin conditions.

Key Words : Potato, Early Season Growing, Yield and Yield Component