

عنوان مقاله:

Performance of 'Fuji' Apple on M.9 Rootstock in Different Tree Training Systems for the First Five Years

محل انتشار:

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نویسندگان:

Y. Ozkan - Department of Horticulture, Faculty of Agriculture, Süleyman Demirel University, Doğu Campus, Isparta, Turkey

K. Yildiz - Department of Horticulture, Faculty of Agriculture, Gaziosmanpaşa University, Taşlıçiftlik Campus, Tokat, Turkey

E. Kucuker - Department of Horticulture, Faculty of Agriculture, Gaziosmanpaşa University, Taşlıçiftlik Campus, Tokat, Turkey

C. Cekic - Department of Horticulture, Faculty of Agriculture, Gaziosmanpaşa University, Taşlıçiftlik Campus, Tokat, Turkey

M. Ozgen - Agricultural Sciences and Technologies Faculty, Niğde University, Niğde, Turkey

Y. Akca - Department of Horticulture, Faculty of Agriculture, Gaziosmanpaşa University, Taşlıçiftlik Campus, Tokat, Turkey

خلاصه مقاله:

The effects of five training systems on tree growth, yield, and some fruit characteristics were assessed for 'Fuji' apple grafted on M.9 rootstock for the first five years in Tokat, Turkey. The trees were trained in one of five ways: Slender Spindle (SS, ۴۷۶۲ trees ha⁻¹), Vertical Axis (VA, ۲۸۵۷ trees ha⁻¹), HyTec (HT, ۱۹۰۴ trees ha⁻¹) and two different tree densities of super spindle (L-Sup S with ۵,۰۰۰ trees ha⁻¹; H-Sup S with ۱۰,۰۰۰ trees ha⁻¹). Trunk Cross-sectional Area (TCA), canopy diameter and canopy volume were higher in low tree density systems (HT and VA) than in high tree density systems (SS, L-Sup S and H-Sup S). Annual and cumulative yields per tree over the first cropping years were higher in VA and HT than in SS, L-Sup S or H-Sup S. Yield per unit area was the highest in H-Sup S in every year due to the higher number of trees per hectare. Yield efficiency (yield cm^{-۲} TCA) was higher in VA and HT than in SS, L Sup S or H-Sup S in every year. HT produced the largest fruit among the training systems in every year. VA had the second largest fruit in ۲۰۰۸, ۲۰۱۰, and ۲۰۱۱.

کلمات کلیدی:

HyTec, Fruit weight, Super spindle, Vertical axis, Yield

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