

Investigation on the effects of different citrus rootstocks on the quality and quantity of three selections of valencia orange.

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In order to determine the most adaptability of late mature valencia orange variety to different citrus rootstocks in Jiroft basin conditions, an experiment was conducted as split plots in four replicates since 1990, where eight rootstocks, i.e. sour orange, rough lemon, bakraey ,troyer citrange, volkameriana, rangporlime, citromelo and cleopatra mandarine were main plots and three selections from valencia orange (olinda valencia, campebl valencia and frost valencia) were as sub plots. In this research trees were compared in vegetative and mature phases. In vegetative phase, the first five years factors such as tree height, trunk diameter in 30 Cm upper the graft location, tree width and canopy were measured that results show that bakraey , volkameriana, Sour orange, rough lemon, rangporlime, citromelo, troyer citrange and cleopatra mandarine were more suitable respectively, and in the second five years maturity factors such as fruit weight, fruit length and diameter, total soluble solids (TSS), total acidity (TA), TSS/TA, vitamin C, seed number and yield were measured and recorded.