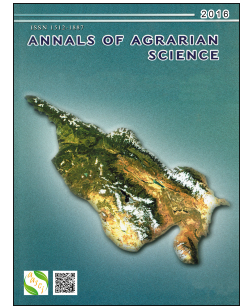


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EFFECTIVENESS OF THE ROOTLESS FERTILIZATION OF MINERAL FERTILIZERS ON THE PRODUCTIVITY OF CITRUS GARDENS

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ABSTRACT

The article presents the influence of rootless or leafy fertilization of mineral fertilizer "Farmers Choice" on the productiveness of different species and varieties of young citrus gardens located in the red soils of the subtropical zone of the Autonomous Republic of Adjara. The article also presents the effect of the mentioned fertilizer on the quality index of citrus fruits and soil fertility. Before testing, we have studied the agrochemical indicators of the soil, which shows that the red soils are saturated with movable food elements P_2O_5 and K_2O and the general nitrogen and humus indicator is noticeably low and the reaction of the soil area is satisfactory for citrus. The research was conducted on the demonstration plot of Chakvi Agroservice of the subtropical zone for two years.

The results of the study revealed positive effect of the mineral fertilizer "Farmers Choice" and the growth of citrus harvesting in tangerine garden equaled to 12-18%, in the orange garden - 6% and in the lemon garden - 22%. Also positive results were revealed on the qualitative indicators of citrus fruits and the soil agrochemical indicators.

Keywords: Tangerine, Orange, lemon, Sugars, Glucose, Sucrose.

INTRODUCTION

Subtropical agriculture, including citrus growing, is the main field in Georgian agriculture. The main task of the subtropical zone of Georgia is to satisfy the population of Georgia with citrus fruit.

In some regions of Georgia citrus growing has been considered as one of the sources of income. The fruit of citrus plants cannot meet the population demands in the distant part of our country due to its biological features, so the task of science is to advance the development of citrus for the further period in the republic.

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