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ECONOMICAL INNOVATIVE BASIS FOR THE CARE OF INTENSIVE STUNTED APPLE VARIETIES

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ABSTRACT

The article examines the dependence of cost-effective innovative technologies for the care of intensive dwarf varieties of apples grown at the horticultural farm "SiyovushAgro" LLC, located in the territory of BoghiKalonNCM (neighborhood citizens' meeting), Bukhara district, and Bukhara region, on the processes of apple growth, development and yield. In order to increase fruit production in the country, it is necessary to apply new modern, cost-effective innovative technological bases in intensive horticulture, deep mastery of fruit growing technology, integration of production, increase the productivity of existing gardens, full and effective use of irrigation and fertilization methods.

KEYWORDS: Intensive Horticulture, Dwarf Trees, Varieties, Economical Innovative Technologies, Drip Irrigation, Growth, Development, Crop Formation.

INTRODUCTION

In order to increase fruit production in the country, it is necessary to apply new modern, costeffective innovative technological bases in intensive horticulture, deep mastery of fruit growing technology, integration of production, increase the productivity of existing gardens, full and effective use of irrigation and fertilization methods.

One of the key factors in creating modern intensive orchards is that creating native gardens for them to grow virus-free, clean different rooted cuttings plays a very important role. This allows promising fruit varieties to be propagated in the best type of grafts. To ensure a high level of products of welded mother gardens, they must be properly organized and used. It is necessary to take into account the biological properties of grafts and their care in different conditions.

MATERIALS AND METHODS

Scientific work is carried out in 2020-2021 in the horticultural farm "SiyovushAgro" LLC, located on the territory of BoghiKalon Farm, Bukhara district, and Bukhara region. This farm is designed for intensive gardening and development on the basis of innovative technologies. The climate of "SiyovushAgro" LLC, located on the territory of BogiKalon Farm, Bukhara district, Bukhara region, is characterized by sharp continental climate. The soil of the dwarf apple orchards connected in the experimentally vegetative grafts belongs to the alluvial soil type, which has long been irrigated. The agrochemical analysis revealed that the amount of humus in the irrigated lands was 0.8-1.4%, nitrogen 0.06-0.12%, total phosphorus 0.1-0.18% and potassium 1.22-1.45%. Leaking waters are located at a depth of 0.8–1.5 m [1,p. 156; 2, p. 182].

The object of study is the combinations of small apple varieties and grafting, as well as seedling thickness, which differ from each other in these biological properties. The studied varieties are Goldspur, Jeromin, Gala, Fuji- slow-growing M-9, and Golden Delishes - medium-slow-growing MM-106. Apple seedlings were planted in March 2020, in which the following schemes are placed in the order 4x1.2m, 4x1.4m, 4x1.6m, 4x1.8m, 4x2.0m and 3x1.0m, 3x1.5m, 3x2.0m. The branches of the small apple tree are semi-sparse and shaped in the Georgian style. Apple and pear trees in the study area are drip-irrigated every day, which ultimately saves 2-3 times the water norm.

EXPERIMENTAL RESULTS

The main purpose of the experiments is to study and determine the relationship between the growth, development and yield formation of apple trees in vegetative graft-variety combinations, which differ in different growth rates in small apple orchards connected to intensive type vegetative grafts [3,p. 102; 4, pp. 92-96; 5, pp. 23-26].

In intensive apple orchards, the light contained within the branches of varieties and combinations of grafts attached to stunted vegetative grafts was detected in July and August 2020-2021. In the intensive varieties studied in small apple orchards, the experimental field, i.e., in the horticultural farm "SiyovushAgro" LLC, selected 10 identical typical trees in combinations of varieties and grafts, all studied phytometric parameters, yield formation processes, yield and fruit quality, and economic efficiency of fruit growing, such key indicators have been studied in detail. In the experimental garden, 1334-2224 trees per hectare were planted in terms of seedling thickness (m / ha) and combinations of varietal grafts. Agro-technical indicators of apple care during the growing season were carried out in a timely and quality manner. One hectare of intensive apple orchard was fertilized with nitrogen fertilizers at 250 kg / ha, phosphorus fertilizers at 180-200 kg / ha and potassium fertilizers at 45-60 kg / ha [6; 7, pp.3337-3341].

It should be noted that all the complex measures carried out in 2020-2021 are carried out under the supervision of agronomists of "SiyovushAgro" LLC. Fruit trees are irrigated by drip irrigation. Apple and pear trees in complex pests; that is, the chemicals recommended for orchards against diseases and pests were applied in a timely manner and in approved doses by insecticides, acaricides and mineral fertilizers by spraying and irrigating with water to increase resistance to disease and pests [4, pp. 92-96; 10; 11].

Experimental results show that seedlings of young stunted apples and pears attached to vegetative grafts have a greater impact on the process of crop retention and crop formation in the first years in the field of crops. It should be noted that the growth and size of apple and pear trees may be the opposite of this process. It is advisable to form small trees at a height of 80% or less of the row spacing. The results of the study show that; In intensive apple orchards, the average number of light spruce varieties in slow-growing varieties and combinations of grafts is 60.3-68.6% in Gold Spur variety, 58.6-66.3% in Jeromin variety, 61.0-67.3% in Golden Delishes variety and 62.6-70.0% in Gala variety [8,9].



Figure 1 Salt wash process in the garden. (January)

CONCLUSION

In the non-slow-growing horn system of small apples, the sun's rays are evenly distributed, the effects of insects and diseases are significantly reduced, the air inside the apple trees is well circulated, resulting in a sharp increase in the use of chemicals. Sunlight creates the opportunity for good development of buds, enlargement of fruits, and continuous abundant and high-quality harvest on stunted apple trees.

In small intensive gardens it is necessary to select varieties-graft combinations, pay scientific attention to the biological properties of the studied varieties, and pay special attention to the thickness of the seedlings and the methods of shaping and pruning.

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