Annotation

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The economic efficiency nursery seedlings highbush blueberry (Vaccinium corymbosum L.) from stem cuttings

Were studied the practical aspects of increase of economic efficiency of planting material production of varieties of Highbush blueberry (Vaccinium corymbosum L.) in the Right-Bank Forest-Steppe of Ukraine. The analysis economic efficiency of breeding and prolonged growing of rooted green stem cuttings varieties of Highbush blueberry (Vaccinium corymbosum L.) in the Right-Bank Forest-Steppe of Ukraine revealed that seedlings on their own roots have low prime cost and high level of profitability.

This is due to application of optimal measures their cultivation — cuttings terms, cuttings type, CANO processing, on terms of change and conditions of prolonged growing. It allows to considerably faster to receive the seedlings commodity of varieties at greater their outlet from unit of area.

It is established that growth and development of the rooted cuttings considerably depends on terms of change and conditions of prolonged growing. At autumn and spring change of the rooted cuttings of the studied grades of varieties of Highbush blueberry sharp changes in their growth and development are not observed, plants develop almost equally. Indicators of growth of root system and elevated part of the rooted cuttings have essential advantage at their container prolonged growing. Autumn change of the own-rooted plants in the conditions of the Right-bank Forest-steppe of Ukraine is limited, mainly by the conditions of their wintering. Full unfitness of prolonged growing of rooted green stem cuttings varieties of Highbush blueberry on a rooting place is observed.

Growing of rooted cuttings rooting in place (traditional technology), without a transplant, gives grounds to assert that low economic efficiency of Agrotechnological event. Cost of growing own-rooted seedlings of the traditional technology (control) was the highest — 61,7–67,1 UAH, and profitability, due to the high sale price of 60 UAH amounted to -2.8...-25.5%. In an experiment where the treated cuttings KANO, before their rooting, increases the level of profitability with fluctuation from 20.3 to 44.7%.

This is due to the fact that less output is 290,6-477,0 pcs seedlings in the control variant and the relatively high costs on the rooting of cuttings and the growing of seedlings, while in embodiments with 15-20 ml / liter KANO all of varieties increase in the yield was observed until the seedlings 1524,8-1652,2 pcs. and slightly smaller costs for their cultivation.

The cost price of container prolonged growing in the control variant experience fluctuates within 24,5-62,5 UAH (rearing without a transplant), and in an experienced variants decreases to 21,3-24,3 UAH. By reducing the cost of the prolonged growing own-rooted seedlings in containers 4-5 times increases profit and generalizing index of efficiency - the level of profitability (146,4-183,3%).

Under the conditions of the Right-Bank Forest-Steppe of Ukraine cultivation of own-rooted planting material of varieties of Highbush blueberry based on stem propagation by cuttings, taking into account the developed by the agro technological methods is the most cost-effective.

Key words. *Highbush Blueberry, varieties, stem cuttings, terms of change of the rooted cuttings, prolonged growing of rooted green stem cuttings, container prolonged growing, the economic efficiency, cost, profitability.*