ECOLOGICAL PRODUCTION OF WILD STRAWBERRY IN THE OPEN GROUND IN REPUBLIC MOLDOVA

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Abstract: For Republic Moldova basic elements of technology of cultivation of wild strawberry for reception of the ecological fruits, developed as a result of long-term researches lead by faculty of fruit growing of the State Agrarian University of in various soil-climatic zones of republic are recommended.

INTRODUCTION

Reception of ecological production of wild strawberry in the open ground probably only at strict observance of all agro technical receptions used in an ecological agriculture, approved by national and international statutory acts (3, 4).

MATERIALS AND METHODS

For development of technology of cultivation of wild strawberry with the purpose of reception of ecological production results of researches lead during 30 years on the standard methods in fruit growing have been used.

RESULTS AND DISCUSSIONS

Recommended basic elements of technology of cultivation of wild strawberry for reception of ecological fruits in various soil-climatic zones of Republic Moldova (1, 2).

The Choice of a site. The preference is given equal sites on which three years were not used mineral fertilizers and the forbidden chemical means of protection against wreckers and illnesses for reception of ecological production. The repeated culture is recommended only for 4 year after destruction of the previous plantation. The water used for irrigation, should contain a minimum quantity of mineral substances. Soils fertility: humus - 2,8-3 %, nitrogen - 4 mg/100 г soils, phosphorus - 3,2 mg/100 г soils, potassium - 25-26 mg/100 г soils.

Preparation of soils. Organic fertilizers (60-80 т manure/hectare) are brought under the previous culture. Plowing is spent 2 months prior to planting sockets to depth 28-32 see Alignment of a site, installation of a black pellicle and hoses for a drop irrigation and cultivation of ridges are spent before planting sockets (June-July).

Technical equipment of planting. Planting is spent in August-September manually with use well developed free from virus esthete sockets which have been grown up with closed root system. Density of planting 60-80 thousand sockets/hectares, depending on fertility soils, and force of growth of a used grade.
Grades. The adapted grades for cultivation in ecological conditions which have high potential of efficiency and an opportunity of maximal use of soil-climatic factors at the minimal financial expenses are used: Camarosa, Chandler, Oso Grande, Pajaro, Selva, Northeaster, Seascape, Sparkle, Selva, Mira, Tristar, Mesabi, Cavendish, Earliglow, Shukan, Honcoye, Annapolis, Red Gauntlet, Selena, Elsanta.

Care of plantations. During vegetation the drop irrigation for maintenance of humidity of ground where the root system not below 80% of a full field moisture capacity is located is spent (intensive growth of leaves and fruits) simultaneously with irrigation are brought in the critical periods the organic fertilizers which are available the manufacturer.

During flowering, ground between ridges loosen and cover with the crushed wheaten straw a layer in 7-10 sm. (7-10 t straw/hectares).

Sick plants, dry leaves and weeds (are pulled out manually) periodically delete from a plantation, as required. After cleaning fruits, an elevated part (leaves, moustaches) are mowed down manually and immediately leave from a plantation.

The period of operation of a plantation - 2 years of fructification. Right after cleaning of fruits the plantation is destroyed. The repeated culture of wild strawberry on one site is possible only in 4-5 years.

Harvesting. Cleaning of fruits is spent by workers provided by pure clothes and the container, preliminary disinfected and free from harmful substances.

In order to prevent contact to the ground, the container used at harvesting is placed on deliveries. At disinfection of container, overalls and refrigerating premises it is necessary to use only the means included in the National Register resolved for use in agriculture and the food-processing industry of preparations.

CONCLUSIONS

The recommended technology provides reception 25-30 t berries/hectares, the income in 4-5 pour on spent pour also a recumbent of used investments into the first year of fructification. Basic elements of the technology given developed and recommended by us are introduced on fields of wild strawberry SA „ORHEI-VIT”; ÎM „INTERCONSULT-MD” SRL and other economic agents on manufacture of the berry cultures located in various soil-climatic conditions of Republic Moldova.

REFERENCES