

ANALYZING THE SPECIFIC FEATURES OF GROWING CHERRY TOMATOES BY HYDROPONIC METHOD

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ABSTRACT

This article contains some news on the hydroponic cultivation of cherry tomatoes, the use of new innovative methods of planting, maintenance, modern and chemical protection against pests and insects, and the adaptation of new varieties to local conditions.

Key words: Greenhouse, Cherry, Containers, Hydroponics, Flower Pots, Fertilized Seeds, Humus.

INTRODUCTION

Cherry Tomatoes - Best for local eaters, there are a variety of tomatoes available and great flavor - from large tomatoes for more of the season. Their aromas are not distinguished by greenhouse conditions, so they get little help from the heat produced by greenhouses.

Cherry Tomatoes - Planting.

Growing tomatoes in hydroponics begins with the preparation of planting material. Fidele can buy, but you can grow yourself. The second option is preferable for several reasons. Growing your own seedlings will ensure you get the type of tomato you want. Especially in the market, buying seedlings, in the end, you can get pink giants instead of cherries and vice versa. In addition, seedlings grown at home, as a rule, are disease-resistant and resistant.

To grow tomatoes in hydroponics, you need to choose varieties. Use for early flourless varieties. Fertilized seeds are sprinkled on the substrate. Therefore, put them on a damp cloth. You can use other soft fabrics that have dried for a long time. In order for the seeds to germinate quickly, we arrange good lighting and put them in a warm place. On average, seeds germinate in 5-7 days. After that they are ready for unloading.

First, we plant the seeds on a sponge or cotton wool. Pre-impregnation of these materials in a special solution saturated with nutrients. A day later, we poured the sponge into the water. The temperature regime should be 21 degrees, daylight hours should be 12 hours. If necessary, artificially increase the duration of sunlight. The transition to the substrate is carried out on the 10th day. At the same time, it is not necessary to separate the sponge or cotton wool from the seeds. We plant them together with sponge material. Seedlings should be about 5 cm high.

Planting and caring for cherry tomatoes is practically no different from caring for ordinary varieties of tomatoes. Growing them as seedlings. From March to the end of April, we planted tomato seeds in the prepared soil. After about 5 days, the first shoots will appear. At the 3-4 stage of these leaves, tomatoes fall into individual containers of 300-400 ml. It is very important to provide plants with proper water during the entire period of seedlings. They do not tolerate drying up from coma on the ground. Therefore, in order to avoid stagnation of water in them, the soil moisture in the seedlings was monitored.



A Special Solution is Used for Irrigation.

In addition to creating a system for growing tomatoes through hydroponics, you should also take care when organizing the irrigation system. Otherwise, the development of the tomato root system will slow down.

A special nutrient solution is used to irrigate the root system. At home, you can independently fill the plants with water. But it takes a lot of time. By automating the watering system in greenhouses, you can do it yourself, you will make it easier to care for plants.

In order to reduce the cost of growing tomatoes using hydroponics, it is necessary to collect the irrigation solution in a tank installed under the hydroponic system. Calculate how much nutrient solution is possible for tomatoes at each stage of growth. Again, it will be redundant to be reused. Equipment with a pump or pump to automate irrigation systems. They return the excess solution to the irrigation system. It will not be superfluous to build in a timer so that watering is carried out after a certain time. When we grow tomatoes in a hydroponics greenhouse, we water the plants every 20 minutes.

Cherry Tomato Varieties

This variety of tomatoes is famous not only for its height. Breeders have released species that differ from each other (can be round, oval, pear-shaped) and fruit coloring (yellow, red, black). The choice of species depends not only on the desired shape and color of the fruit, but also on the place of planting.

Varieties of cherry tomatoes for open ground should be selected from the following: white currant, birds, honey drop and cherry. The popularity of cherry tomatoes is so great that it is impossible to count all the varieties. When making a variety selection, I remember that the main thing is that giants do not do well in containers for indoor plants. Low-level plant varieties are quite simple in regional preferences. Breeding cherry tomatoes, not only to enjoy their benefits, but also to ensure the aesthetic beauty of this plant.

Cherry tomatoes are considered small ripe, because the weight of the tomato is only 15-20 grams. Cherry tomatoes are very different from other tomatoes - high (about 2 times) sugar and dry nutrients. All of them are soluble in extracellular water. Compared to large fruits, the taste of cherry tomatoes is sweeter and more intense.



Due to its shallow root system, cherry tomatoes can be easily grown on the balcony or window, as well as in ordinary flower pots (this fact is often indicated in various descriptions). These tomatoes do not grow one by one, but they collect a large part of the harvest. They should last a long time and practically do not break or crack during them.

Nutritional properties of cherry tomatoes were also determined. They strengthen the cardiovascular system, normalize metabolism and are even used to prevent cancer.

In addition, extensive selection work has led to the fact that some tomatoes of this type have a very unusual taste for them. Thus, sweet cherries can give a taste of strawberries, raspberries, walnuts and wild berries. For plants suitable for improved and tall varieties of cherry tomatoes in the greenhouse. Among them, small varieties can be identified:

- "Ampel" is a decorative variety known for its resistance to various diseases.
- F1 "Raisin" - mid-season hybrid variety. It has small, elliptical fruits of pink color.
- Tall varieties suitable for growing in greenhouse conditions are:
- F1 "Punto-7" is a very early greenhouse hybrid with bright red fruits;
- "Pink Cherry" - excellent for sheltered soil;
- "Cherry black". The main feature is the gorgeous, dark purple tomato;
- F1 "Magic Cascade". This variety of cherry tomatoes grows with great success both in greenhouses and in the open field;
- "Sweet". Currently, it is one of the most popular varieties grown in greenhouses. The fruit has a noble red color;
- F1 Yellow-Mimi yellow-fruited hybrid grown in greenhouses;
- F1 "Madeira" and F1 "Caprice" - seasonal greenhouse hybrids with red fruits.

To get a high yield of cherry tomatoes, they should be grown as seedlings and then planted in open ground.

The process of growing tomatoes in a greenhouse is not very complicated, the main thing is to follow certain rules that will be discussed below. If you equip the greenhouse with heating, then it will be possible to harvest cherry tomatoes throughout the year. The material for building such a greenhouse is polycarbonate or glass.

Air Humidity and Temperature.

The optimal air temperature for cherry tomatoes in the greenhouse is + 20 ... +25 ° C and + 16 ... +18 ° C during the day. After fruiting, the temperature in the greenhouse should change to + 24 ... +26 ° C during the day and + 17 ... +18 ° C at night.

Cherry tomatoes, especially greenhouse varieties, should have a humidity level of 60-65%. In addition, the list of mandatory measures for the care of tomatoes in the greenhouse includes regular airing of the room. This process is especially important to carry out during the flowering period.

During this period, under no circumstances should condensation form on the walls of the greenhouse when growing tomatoes. In addition, excess soil moisture increases the acid and water content of the tomato flesh.

Soil Requirements

Cherry tomatoes, their planting and care is done only in fresh soil. Last year is not suitable for this. It is necessary to add peat in order to reduce the possibility of the development of various diseases, as well as to increase soil fertility and improve its composition. Usually, it is enough to add one bucket of peat to one square meter of soil. If necessary, peat can be replaced with sawdust or humus.

Cherry tomatoes are a good choice for beginning gardeners as well as experienced growers. The variety of species and their taste will not leave anyone indifferent. Try to grow these tomatoes on the site and you will definitely be satisfied with the result.

Summary

Growing tomatoes hydroponically is a great opportunity to get a harvest all year round. And despite the low temperature outside the window, you can enjoy your fruits in the winter months.

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