



ORGANIZATION OF TECHNOLOGY OF DRIP IRRIGATION OF COTTON CROP AND THEIR TYPES

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ABSTRACT: - Rational use of Water Resources in the conditions of Global climate change, further improvement of the system of use of Water Resources, increasing the efficiency of irrigation and melioration works, water saving, wide introduction of innovative technologies of saving irrigation is topical. two-thirds of the Earth's sphere is covered with water, 98% of which is depleted salt water. Of the available water resources there are 2,0% fresh water reserves, 79% of which are eternal glaciers, 20% groundwater and 1,0% Lake and river waters. In this article, ideas and opinions are made about the organization of the technology of drip irrigation of cotton crops and their types.

KEYWORDS: Cotton crop, drip irrigation, increase productivity, technology, methods, species.

INTRODUCTION

The Republic of Uzbekistan is geographically located in the middle of the continent of Asia thousands of kilometers from the shores of the ocean and the sea, when the main source of river water is formed on the territory of the countries of the Army, each drop of water is subject to productive use. 46 billion cubic

meters of water is spent a year for irrigation of 4 million 200 thousand hectares of agricultural land in the Republic of Uzbekistan. But 60% of this water is used by plants, and the rest is wasted in different ways. Therefore, the development of modern water-saving methods of irrigation of crops in

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agriculture, as well as the implementation of technologies of low water consumption and high-quality crop cultivation are very important tasks. As a result of the growth of the population in the Republic, the most necessary agricultural products and the regular increase in the need for materials, the demand for Water Resources is growing even more.¹

Therefore, water resources shortage in the current conditions, it is necessary to pay attention to saving water, rational use of water sources and reducing wastage of water by leaking into the Earth, and increasing the efficiency of the use of irrigation water. This situation requires the development and introduction of non-traditional drip irrigation and other water-saving technologies for irrigation of crops.

President of the Republic of Uzbekistan decision of PP-4087 "on measures without delay to create favorable conditions for the wide use of drip irrigation technologies in the cultivation of cotton raw materials" of Sh. Mirziyoyev on December 27, 2018, " on the development of non-traditional methods of irrigation of the goose to scientists and specialists engaged in cotton growing and in 2019, the introduction of the technology.

It is known that one of the automated irrigation methods, which give water to crops in a norm, eliminates soil erosion processes, does not cause damage to the environment, is drip irrigation technology. With the introduction of drip irrigation in cotton growing, it is possible to reduce water consumption, increase the productivity of the

crop, reduce the salinity of the land, as well as to give water and mineral fertilizer in the form of laser light and magnetic field.

The development of drip irrigation technology in the cultivation of thin-fiber husks and autumn crops planted in the conditions of barren and barren soils of the Surkhandarya region is one of the pressing issues. Decree of the president of the Republic of Uzbekistan on approval of the concept of development of water economy in the Republic of Uzbekistan for 2020-2030 of July 10, 2020 stipulates the delivery of up to 2 million hectares of the total area of lands covered by water-saving technologies in agriculture, including drip irrigation technology to 600 thousand.

Decree of the president of the Republic of Uzbekistan "on the strategy of Action for the further development of the Republic of Uzbekistan" № PF-4947 of February 7, 2017, and in the implementation of the tasks set out in the normative-legal documents related to this activity, this master's dissertation study serves to a certain extent. It is known that by the decree of the president of the Republic of Uzbekistan dated December 27, 2018, a program of systemic measures on the wide use of drip irrigation technologies in the cultivation of cotton raw materials was established.

At the same time, drip irrigation technologies are introduced in 293 hectares of cotton fields of 13 farmer farms in our region and rational and economical use of Water Resources is achieved. The representative of the farm said that in fact, the goose in the area under drip irrigation is planted a little late. Nevertheless, it developed rapidly, the fairy tale was planted, but it was much more civilized than the traditional method of watering geese. Well, on the account of what? In this method, water is first collected in the pool, pumped into the main pipe with the help of a pump, and from it into small

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polyethylene pipes with a special hole drawn along the crop area. Since the water does not flow and does not form turbid, the earth does not solidify. Useful microelements in the soil do not wash off. The fertilizer is also dissolved first and given through water, so that the cause reaches all the pores evenly and is absorbed. Therefore, having spent much less fertilizer than the traditional method of irrigation, it is possible to achieve several times more efficiency. Pool and water filtration equipment, pumps can be used for many years. And plastic pipes withstand at least three years.² So it turned out that the farmer bought a film for the following years. Since agro technical activities such as grass cleaning, fertilizer spraying, land softening are not carried out in this area, they save a very large amount of money, which is spent on Labor and technical costs.

For the introduction of drip irrigation technologies, a subsidy of 8 million sums from the state budget is provided for each hectare of the area on which Cotton material is planted.³ There are also a number of more benefits. In addition, today, when it comes to the installation of drip irrigation technologies, the necessary amenities are created, there are methodological guides. Only, if we take the mobile application "drop", created by the Ministry of Water Resources on the basis of

² Saidkhodjayeva D.A., Abdukhalilov O.A. "Application economically one the most profitable modern irrigation methods one the fields of farms of Uzbekistan". International Journal of research culture society 3.06.2019 y.

³ SH.Rakhimov. Drip irrigation is an economical method of irrigation, The Chronicle of Uzbekistan. 2008 Year №6, 23-p

the funds of the agency for development and cooperation, with the help of which the farmer can sit at home and have any information related to drip irrigation. That is, from what types of drip irrigation, technologies, methods, each of them has its own effect, to the manufacturers of components for this system, the corresponding Construction Enterprises, their prices and addresses. Naturally, these amenities further increase the interest of farmers. In the current year, 3 farmers in our district have used this technology on an area of 60 hectares, there are many who have initiated this issue for the next year.

The effectiveness of the use of irrigation water for the geese is closely related to the conditions of mineral Nutrition, the density of the plants and the layout of the plant, the technology of soil processing. An important condition for high-quality irrigation and productive use of water is the timely loosening (cultivation) of the soil between the rows, which improves the water permeability of the soil and reduces the loss of moisture by evaporation. With an increase in the density of goose branches and the amount of fertilizer laid, irrigation norms increase by 10-20 percent. An important factor in the normal growth and development of the larynx is the timely and sufficient supply of water. Its role is huge and diverse. This is necessary for the normal implementation of all vital processes (biochemical and physiologic) of the plant throughout its life, from seed germination to maturity.

The degree of inclination of the soil to salinity also affects the irrigation of the goose to some extent. In soils where plants began to suffer from salts accumulated in the soil at a young age, watering should be started early, and it is necessary to spend more water in the season than on soils that do not live at the same depth of groundwater. However, at the

same time, the effect of drainage of irrigated areas should be improved.

When determining the irrigation regime and size of the goose, it is also necessary to take into account the level of planning of the fields, the level of agro technics used, the amount of soil moisture before planting, the methods of irrigation of vegetation, as well as irrigation methods.⁴ The regime of irrigation sources and the level of water supply of irrigated lands. The better the surface of the fields is leveled and the higher the level of agro technics, the less water is spent on evaporation from the soil, the higher the yield of cotton with less water. The more water in the soil before planting (as a result of precipitation, Reserve, washing or watering before planting), the later the vegetation can start watering, the lower the irrigation norms for the husks. The order and amount of irrigation of the geese should also correspond to the biological characteristics of the geese varieties and agro technical conditions.

CONCLUSION

When the dry mass and leaf area corresponding to the unit of area are increased with an increase in the density of planting, the total water consumption of the soil also increases, which should be taken into account when determining irrigation standards. Differences in watering are also related to the range of buds. In this drip irrigation is considered the most effective and economical method. By implementing this kind of practice into our full lives, we can

achieve greater efficiency in the cultivation of cotton.

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⁴ G.A.Bezborodov Drip irrigation method, Uzbekistan 2008 Year №3, 19-p Academic Research in Educational Sciences VOLUME 2 | ISSUE 10 / 2021 ISSN: 2181-1385