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INTERNATIONAL JOURNAL
EIJMRMS
Next Scientists
European International Journal of Multidisciplinary Research and Management Studies
SJIF 5.954 2022

EUROPEAN INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY RESEARCH AND MANAGEMENT STUDIES
ISSN: 2750-8587
DOI: https://doi.org/10.55640/eijmrms-02-12-17
https://eipublication.com/index.php/eijmrms
Volume: 02 Issue: 12 December 2022
Published Date: - 12-12-2022

Page No.-75-77

# IRRIGATION PROCEDURES AND TECHNICAL ELEMENTS IN COTTON DRIP IRRIGATION TECHNOLOGY

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**ABSTRACT: -** This article presents the advantages of water-saving irrigation methods, the elements of irrigation procedure and technique in cotton drip irrigation technology, water saving, economical innovative irrigation technologies.

**KEYWORDS:** Drip irrigation technology, irrigation method, water consumption, flow rate, water-efficient, resource-efficient, soil, water, active layer, drip.

## INTRODUCTION

In the conditions of global climate change, the rational use of water resources, the further improvement of the system of water management facilities, the improvement of the efficiency of irrigation and land reclamation works, the widespread introduction of innovative water-saving irrigation technologies are urgent. Two-thirds of the Earth's surface is covered by water, and 98% of it is unfit for consumption. Only 2.0% of available water resources are fresh water reserves, 79% of it is permafrost, 20% groundwater and 1.0% lake and river water. Considering that the Republic of Uzbekistan is geographically located in the heart of the Asian continent, thousands of kilometers away from the ocean and sea shores, and the main source of river water is formed in the territory of neighbor countries, it requires efficient use of every drop of water.

In the Republic of Uzbekistan, 46 billion cubic meters of water is used to irrigate 4,3 million hectares of irrigated land in one year. However, only 60% of this water is used by plants and the rest is wasted in various ways. Therefore, the development of modern water-saving methods of irrigation of crops and the

implementation of technologies to get more yields by using less water are very important tasks in agriculture.

The drip irrigation method is distinguished among the irrigation methods by its high efficiency that, it is an irrigation method that allows obtaining a stable high yield with low water consumption in the conditions of insufficient water resources. Due to the high possibilities of reducing manual works in crop cultivation and irrigation, the drip irrigation method is being applied to wider areas all over the world. Encouraging agricultural producers who have introduced modern water-saving irrigation methods. Decree of the Cabinet of Ministers of the Republic of Uzbekistan dated June 21, 2013 No. 176 " "On measures to effectively organize the introduction and financing of the drip irrigation system and other water-saving irrigation technologies" was approved by the decision.

Irrigated cotton responds well to careful management, resulting in consistently high yields. As the efficiency of the irrigation system increases so does the plants opportunity for yield. Cotton has shown outstanding response to drip irrigation. Drip Irrigation has given the grower ultimate control of inputs resulting in higher returns. Yields have doubled in some areas when compared to other forms of irrigation and have set record yields on farms with high management levels. Drip Irrigation is a management tool that allows precise control over the root zone environment of your cotton crop. This control often results in consistently high yields. In addition, better water and fertilizer management can help reduce fertilizer inputs, water needs and runoff. Drip irrigation may also contribute to an earlier harvest by keeping the soil dry and improving heat units. Because fertilizer and crop protection chemicals can be delivered via the drip system tractor passes can be lowered saving diesel and labor. Drip irrigation also allows growers to better manage salinity in the water and soil

**CONCLUSION**

Drip irrigation technology has a number of advantages compared to other irrigation methods, the main of which are increased crop yield and improved crop quality, saving water resources, reducing material and labor resources spent on agrotechnical activities, the reduction of the amount of spent fertilizers.

Consistent measures to radically reform the mechanisms of water resources use, to support and encourage the introduction of water-saving technologies in economic sectors, as well as to improve the reclamation of irrigated lands. When there is a shortage of water, the use of water-saving irrigation technologies in the irrigation of agricultural crops, the automation and mechanization of irrigation, the regulation of water-food-air and other regimes required for agricultural crops, it is possible to achieve a high yield from several crops.

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