



**ACADEMICIA**  
**An International**  
**Multidisciplinary**  
**Research Journal**  
 (Double Blind Refereed & Peer Reviewed Journal)



**DOI: 10.5958/2249-7137.2021.01119.8**

**IMPROVEMENT OF COTTON NUTRITION PROCEDURE AND  
 IRRIGATION TECHNOLOGIES**

**Guliston Nuranovna Abdalova\*; Jamoliddin Saporboyugli Eshonkulov\*\*;  
 Sarvar Olimugli Sulaymonov\*\*\*, Fazilat Marufqizi Abdullayeva\*\*\*\***

\*Candidate of Agricultural Sciences

Tashkent State Agrarian University, Tashkent, UZBEKISTAN

Email id: 1963gulistan@mail.ru

\*\*Assistant

Tashkent State Agrarian University, Tashkent, UZBEKISTAN

Email id: 1992.jamoliddin@mail.ru

\*\*\*2-Year Student.

Tashkent State Agrarian University, Tashkent, UZBEKISTAN

\*\*\*\*4-Year Student.

Tashkent State Agrarian University, Tashkent, UZBEKISTAN

**ABSTRACT**

*This article presents the results of research- fertilization by laying a black polyethylene film between the rows of cotton and field experiments on irrigation technologies conducted in the conditions of typical gray soils of Tashkent region. In order to save water in the irrigation of cotton and other crops, mulching between rows with black polyethylene film and straw and the introduction of irrigation technology using flexible artificial pipes is highly effective. The plant thrives only when the soil moisture is moderate. This can be achieved by improving irrigation techniques and technologies. In field experiments, the timing and rate of cotton irrigation were determined by soil moisture. It was found that the seasonal water norm saved an average of 1,095 m<sup>3</sup> or 27.3% of irrigation water per hectare in the variants irrigated between rows with black polyethylene film compared to the options irrigated by conventional irrigation.*

**KEYWORDS:** *Typical Gray Soils, Cotton, Navruz Variety, Feeding, Irrigation Regimes.*

**REFERENCES:**

1. Shamsiev A.S., Bezborodov A.G. Vliyaniye antropogennix i biosfernix faktorov na uglekislotniy balans i vodopotrebleniye v plodovodstve [Influence of anthropogenic and biospheric factors on carbon dioxide balance and water consumption in cotton]. Toshkent-2015
2. G.A. Bezborodov - «Primeneniye solomiv kachestve organicheskogo udobreniya i depressora isparennyavlagi v oroshayemom zemledelii [The use of straw as an organic fertilizer and depressant of moisture evaporation in irrigated agriculture]» Xalqaro ilmiy-amaliy konferensiyama'ruzalari asosidagi maqolalar to'plami. Toshkent 2007 y. 9-13 betlar.
3. G.A. Bezborodov - "Sovershenstvovanie orositel'noy seti i tekhniki polivax v predgornoy zone Uzbekistana [Improvement of the irrigation network and cotton irrigation technique in the foothill zone of Uzbekistan]" dissertation for the degree of Doctor of Technical Sciences on the topic. Toshkent, 1994.
4. Kamilov B.S., Xasanov M.M. Tomchilatib sug'orish usulining g'ozahosildorligiga ta'siri [Effect of drip irrigation method on cotton yield] // Problemi v xlopkovodstve i perspektivnie puti ix resheniya: Tez. dokl. mejd. nauch. prak. konf. 2-3 dekabrya 2009. - Tashkent, 2009. - str. 338-339
5. J.X. Axmedov, A.E. Avliyoqulov, A. Nuriddinov, M. Xasanov, A. Baxromov - Promising variety of cotton "Navruz" and agro-techniques for its cultivation. Scientific and practical bases of increasing soil fertility (part 2) Collection of articles based on reports of the international scientific-practical conference. Toshkent, 2007 y., 160-161 betlar.