



## THE EFFECT OF TREATMENT OF THE SEEDS WITH ELECTROACTIVATED WATER ON THE GROWTH PERIOD OF COTTON

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Article history:	Abstract:
<b>Received:</b> 6 <sup>th</sup> October 2022 <b>Accepted:</b> 6 <sup>th</sup> November 2022 <b>Published:</b> 11 <sup>th</sup> December 2022	Using a special device, water was electroactivated in 20 minutes, that is, acidic Ph= and Ph= were separated. Electroactivated water accelerates germination of sprouts by 15-20%, healthy and even seedlings are obtained, cotton growth and development are improved, the number of bolls increases by 1-2, and additional 2-4 It was observed that the cotton crop was obtained per s/ha.
<b>Keywords:</b> Cotton, electroactivated water, copper, cob, leaf, boll, biological efficiency, rate of economic harm, plant protection, insecticide. A lot of work is being done in the agriculture of our country to develop and implement modern technologies for obtaining abundant and high-quality crops.	

The priority of modernization and rapid development of agriculture in the "Strategy of actions on the five priority areas of development of the Republic of Uzbekistan in 2017-2021", approved by the decree of the President of the Republic of Uzbekistan No. PK-4947 dated February 7, 2017 "Main attention is focused on the tasks of expanding research and development works on the creation and introduction of new advanced agrotechnologies suitable for the climatic conditions of agricultural crop care" in the directions.

Growth regulators have been found to positively affect plant growth and development and increase productivity. In this regard, you can find a lot of information in the literature. For example, stimulants accelerate the activity of physiological processes in plant agrocenosis, that is, carbohydrate, protein and lipid metabolism increases, metabolism improves, and the redistribution of nutrients is coordinated, and plant growth and development accelerate. Also, resistance to diseases increases, as a result, the quality and weight of the product increases.

Electroactivated water accelerates germination of sprouts by 15-20%, healthy and even seedlings are obtained, cotton growth and development are improved, the number of bolls increases by 1-2, and additional 2-4 It was observed that the cotton crop was obtained per s/ha.

Based on the above information, determining the different effects of electroactivated water exposure during the flowering and flowering periods before planting seeds in light-colored gray stony soils of Namangan region is one of the most important and urgent issues.

Biological efficiency of new biological, physiologically active substances, electroactivated water and copper stimulants in the long-fiber Bukhara-8296 cotton variety, "Namangan Scientific Experimental Station of the Scientific Research Institute of Cotton Breeding and Cultivation Agrotechnologies of the Republic of Uzbekistan" was studied in the conditions of light gray soils located in the territory of the fields. In the experiment, electro-activated water and copper were treated with the seed before planting and tested as a comparison with the control option. The system of experiments is presented in the table.

EXPERIENCE SYSTEM

No	Experience options		Seed processing standard.
1	Option 1:	Control ( without medication ) is simple ditch in the water warmed up seed	2.6 grams of seed + 5 liters
2	Option 2	In practice method ( medication dalbron and kruzal ) seed	2.6 g of seed + 5 g of cruzel + 10 ml dolbron
3	Option 3	hour at pH=3-3.5 and 10 hours at pH=9.5-10.5 warmed up seed	2.6 g of seed + 5 liters electroactivated water
4	Option 4	4 hours at pH=3-3.5 warmed up seed	2.6 gr seed+electroactivated water
5	Option 5	pH alkaline 10 hours in itself warmed up seed	2.6 grams of seed + 5 grams of copper + 5 liters of water







The analysis shows that on April 27, the germination rate of seeds was 62.5% in the control, 69.0% in the current method (medicated), 71.5% in option 3 heated in acidic and alkaline water of electroactivated water, 68% in option 4, 3%, in variant 5 treated with copper, it was 69.6%. Among these options, compared to the control option, the field germination of the seed was accelerated by 7.5-9.0% in option 3 heated in acidic and alkaline water of electroactivated water by 71.5% and option 5 treated with copper, sprouts 1-2 days earlier germination was observed.

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