



Effectiveness Of Defoliants

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ABSTRACT

The foreign Ento-Dephol showed a high result when cotton causes open 30-40% while using 0.200 litres of defoliation for each hectare in order to defoliate cotton artificially. 7.0 litres use of defoliation gave better result regarding the other alternatives.

Keywords:

Types Of Defoliation And Defoliants, Cotton Leaves Dry And Semi-Dry Leaves.

Introduction

It is known that cotton growing is the leading branch of agriculture in many countries of the world, and one of the important tasks is to provide the textile industry with quality raw materials. It should be noted that the quality of the cotton harvest depends on the effectiveness of defoliation [1-3]. In recent years, cotton yields per hectare have increased 2-3 times in India and Pakistan, and 1-1.5 times in China, Brazil and Australia, but there are problems with quality harvesting. From this point of view, it is important to develop standards for the use of new mild-acting defoliants, taking into account the sharp differences in the properties of defoliants created in recent years, climate change and mechanization of harvesting operations [4-7].

Research Methodology

According to the current tasks, in 2018-2020 we will place the training experiments at the Scientific Experimental Station of the Research

Institute of Cotton Breeding, Seeds and Cultivation Agrotechnologies in Kuva district of Fergana region was carried out during the delivery process in the uterus [8-11]. In the experiment, 8 options were obtained for each new one and deleted in 3 iterations. In the experimental variants, the specified norms of the above defoliants were applied at the opening time of 30-40% and 50-60% of cotton buds of S8290 and S6775 varieties, and their optimal application rate and duration were determined. Scientific research is based on the guidelines "Methods of field experiments with cotton" (1981), "Methods of conducting field experiments" (2007) and "Guidelines for testing cotton defoliants" (1993, 1994, 2004) adopted by the State Chemical Commission of the Republic of Uzbekistan. was carried out [12-19].

Research Results and Their Discussion

In observations and analyzes, 14 days after defoliation, when 30-40% of cotton buds were

opened, EntoDefol in S-8290 cotton was 0.200 l/ha and FanDEF-excellent defoliant was 7.0 l/ha. The open cocoons were 88.1-82.7%, the yield was 36.8-37.1 ts/ha, and an additional 2.7-3.0 ts/ha was obtained compared to the

control. In the second cotton variety S-6775 in our study, the highest results were obtained with EntoDefol at 0.200 l/ha and FanDEF at 7.0 l/ha was found [20-26].

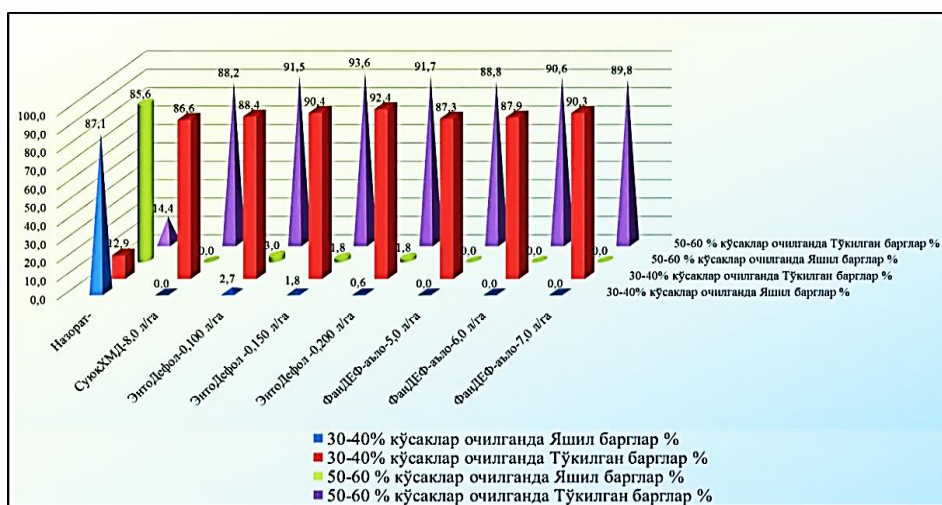


Figure 1. The new common defoliant is the S-8290 cotton swab depending on the texture of the leaves, (after 14 days) 2020

In the second background of the experiment, when using 50-60% of cotton buds in the S-8290 cotton variety EntoDefol 0.150 l/ha and FanDEF-alon 6.0 l/ha, leaf shedding was 93.0-93.9%, the opening of the buds was 95.1-90.0%, the cotton yield was 37.1-37.2 ts/ha, in

S-6775 cotton variety the norm of defoliants was applied to 0.150-6.0 l/ha, respectively, leaf shedding 92.4-93, 0%, opened pockets 95.1-90.0%, yield 36.6-36.8 ts/ha, additional 2.5-2.7 ts/ha when defoliants are used in optimal doses proven to achieve high efficiency [24-27].

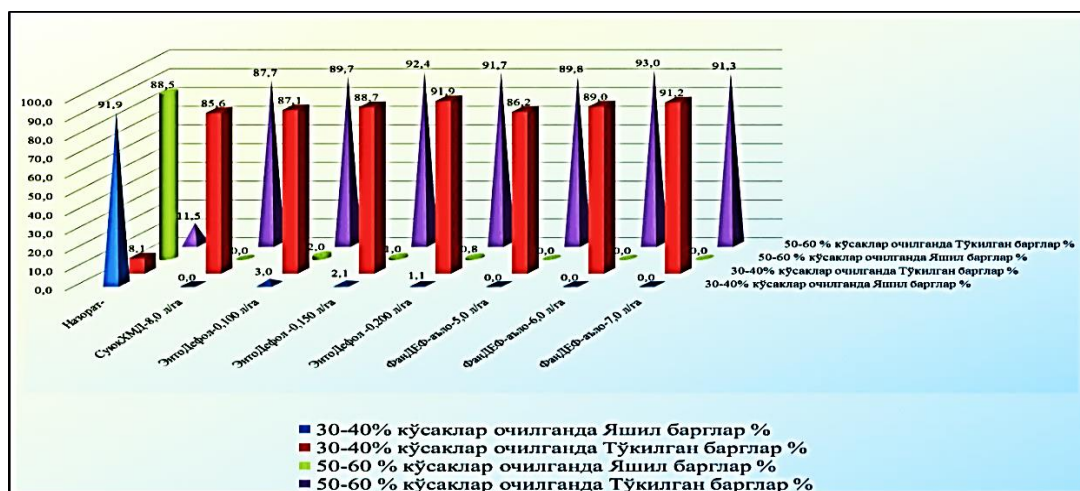


Figure 2. S-6775 cotton variety of new local defoliants The effect of leaf fall, (after 14 days) 2020

It should be noted that in the 2nd background (50-60%) slightly lower norms of defoliants showed good results, ie EntoDefol 0.150 l/ha, FanDEF-excellent 6.0 l/ha, respectively, the

indicators were 95.1-90.0; 38.7-34.8; 22.0-16.9%; 21.8-17.9; 22.0-16.9; 8.3-4.4%. Based on the results of scientific research conducted

in the pasture-swamp soils of the Fergana region, the following conclusions can be made.

Conclusions

When the effectiveness of the defoliant studied in cotton varieties was observed, it was found that their effectiveness depends on the rate and duration of application of defoliant. Thus, S-8290 and S-6775 cotton varieties use EntoDefol defoliant at the rate of 0.200 l/ha at the opening period of 30-40%, FanDEF-excellent defoliant at the rate of 7.0 l/ha, and cotton varieties at the opening period of 50-60%. EntoDefol defoliant at 0.150 l/ha and FanDEF-excellent defoliant at 6.0 l/ha were considered acceptable.

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