

**RATIONAL COTTON PLANTING TECHNOLOGY**

**<sup>1</sup>Nazirova Rahnimokhon Mukhtarovna, <sup>2</sup>Obidova Sayyora Yorqinjonqizi, <sup>3</sup>Usmonov Nodirjon Botiraliyevich**

Doctor of Technical Sciences (PhD), Associate Professor of the Department "Technology of storage and primary processing of agricultural products" of the Fergana Polytechnic Institute<sup>1</sup>, Master student of group M-13-19 Fergana Polytechnic Institute<sup>2</sup>, Lecturer of the Department "Technology of storage and primary processing of agricultural products" Fergana Polytechnic Institute<sup>3</sup>

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**ANNOTATION**

Cotton is an important agricultural crop, which is of great strategic importance for the economy of our country. The yield, as well as the quality of the fiber of a given culture, is directly proportional to the timing and methods of sowing seeds. This paper provides recommendations for the timely and optimal sowing of cotton seeds.

**Key words:** *sowing, cotton, sowing time, yield, fiber quality*

In 2020, it is planned to sow 16 early, 5 middle and 8 promising varieties of cotton in the country, to grow a fairy-tale, high-quality and world-class cotton crop using resource-efficient, modern agro-technologies in cotton growing. To this end, our cotton growers have started work.

Timing, norms and methods of sowing seeds. In the regions of the country, sowing seeds in a timely manner and obtaining healthy seedlings is very important in the cultivation of fairy tales, high and quality crops. This is because the seeds that are planted early in the ground will also be harvested early.

According to the requirements for sowing seeds, germination should not be less than 90-95%, humidity should not exceed 10%, pollution should not exceed 0.3-0.7%, hairiness should not exceed 0.5-2.5%, mechanical damage should not exceed 7-8%.

When sowing the seeds require soil moisture and temperature, seed quality, seed treatment, moistening, sowing at the optimal time, in moderation and depth. According to the recommendations of scientists of the Research Institute of Cotton Breeding, Seed Production and Agrotechnology, hairy seeds are sown at a temperature of 12-14 °C in a 10 cm layer of soil, hairless seeds at a temperature of 14-16 °C, and seeds are sown under a film at a soil temperature of 9-10 °C. .

When the soil moisture is 65–70%, or when the soil is sown by hand and compacted and scattered on the ground, or when the tractor does not cut the soil and remove mud, sowing begins when the tractor has access to the field.

Great care should be taken to moisten the hairy seeds brought from cotton ginning or seed preparation plants before planting.

Wetting of seeds is carried out in a stratified manner. 600 liters of water are used to moisten 1 ton of hairy seeds. Wetting of seeds is carried out on specially prepared (asphalted or concreted) sites. Such platforms are 4–5 m long, 2–3 m wide and 30–35 cm high. can be. During wetting, the thickness is 20-25 cm. should not exceed Humidification is carried out in 3 stages: the first in 3-4 hours, the second in 4-5 hours, the third in 5-6 hours, each stage consuming 200 liters of water. Only then is the seed fully and qualitatively moistened, such that the seed is saturated with water and the husk softens. This has a positive effect on seed germination even in low-moisture soils.

It is recommended to sow the seeds in pairs in low-yielding, 30–40 and 50-point quality, light and medium soils, where it is difficult to obtain seedlings and where the slope is high. It is possible to get 1.5 times more seedlings, and hairless seeds are planted at a cost of 45-50 kg. If the seed drill is designed to sow 8 rows of seeds in a row in a scheme with a row spacing of 90 cm (60x30 × 12-1), this drill is designed for 60 cm at a time. 30 cm between rows. The seeds are sown in pairs (30 cm between rows, 12 cm between nests) on a ridge

of 2 cm wide. When sowing seeds in pairs, it is possible to have almost 1.5 times more seedlings per hectare than the usual method. When sowing seeds, it is necessary to pay special attention to the fact that the seeds fall to the same depth, the rows come out correctly, the distance between the connected rows (markers) is the same.

It is recommended to place 120,000 bushes in the scheme 65x25-17x1, 140,000 in the scheme 65 × 25-15 × 1 and 160,000 in the scheme 65 × 25-14 × 1.

If the agro-technical measures set out in Gaza are carried out in a short period of time and with high quality in accordance with the above recommendations, a guaranteed future and a rich harvest will be created.

## REFERENCES

1. Nazirova R.M., Usmonov N.B., Askarov H.H.// Technology of storing grain in a cooled state// Do desenvolvimento mundial como resultado de realizações em ciência e investigação científica: Coleção de trabalhos científicos «ΛΟΓΟΣ» com materiais da conferência científico-prática internacional. vol 1, page 93-95 URL: <https://ojs.ukrlogos.in.ua/index.php/logos/article/view/4923>
2. Nazirova R.M., Usmonov N.B., Bakhtiyorova D// Innovative technologies for grain storage of different crops// Academicia an international multidisciplinary research journal. 2020. vol 10.issue 6, june, pages 222-228. URL: <https://saarj.com/academicia-past-issue-2020/>
3. Назирова Р.М., Усмонов Н.Б., Тухташев Ф.Э., Тожиев Б// Значение процесса предварительного охлаждения сырья в повышении сохранности плодовоовощной продукции// Научно-методический журнал “Вестник науки и образования”. Издательство «Проблемы науки». Москва, №20 (74), часть 1, 2019, с 35-38. URL: <https://cyberleninka.ru/article/n/znachenie-protsessa-predvaritelnogo-ohlazhdeniya-syrya-v-povyshenii-sohranyaemosti-plodoovoschnoy-produktsii>
4. Назирова Р.М., Усмонов Н.Б., Сулаймонов Р.И.//Изменение химического состава клубней картофеля в процессе хранения// “Проблемы современной науки и образования” научно-методический журнал. Издательство «Проблемы науки». Москва, 2020. № 6 (151). стр 19-22. URL: <https://cyberleninka.ru/article/n/izmenenie-himicheskogo-sostava-klubney-kartofelya-v-protsesse-hraneniya>
5. Назирова Р.М., Курбанова У.С., Усмонов Н.Б.//Особенности обработки озоном некоторых видов плодов и овощей для их долгосрочного хранения// Universum: химия и биология: научный журнал. – № 6(72). М., Изд. «МЦНО», 2020. стр 6-9. URL: – <https://cyberleninka.ru/article/n/osobennosti-obrabotki-ozonom-nekotoryh-vidov-plodov-i-ovoschey-dlya-ih-dolgosrochnogo-hraneniya>
6. Назирова Р.М., Усмонов Н.Б., Тухташев Ф.Э., Сулаймонов Р.И.// Влияние температуры хранения на сохранность и химический состав плодовоовощного сырья// “Проблемы современной науки и образования” научно-методический журнал. Издательство «Проблемы науки». Москва, 2019. № 11 (144). Часть 2 стр 10-12. URL: <https://cyberleninka.ru/article/n/vliyanie-temperatury-hraneniya-na-sohrannost-i-himicheskij-sostav-plodoovoschnogo-syrya>
7. Nazirova R. M., Sulaymonov O. N., Usmonov N. B.//Qishloqxo‘jalik mahsulotlarini saqlash omborlariv texnologiyalari// O‘quv qo‘llanma. Premier Publishing s.r.o. Vienna - 2020. 128 bet.
8. Назирова Р.М., Усмонов Н.Б., Зокиров А.//“Изучение влияния обработки на сохранность плодовоовощного сырья ингибиторами образования этилена”//, научно-теоретический журнал “Вопросы науки и образования” №7 (53), Москва, 2019, стр 13-19. URL: <https://cyberleninka.ru/article/n/izucheniye-vliyaniya-obrabotki-na-sohrannost-plodoovoschnogo-syrya-inguibitorami-obrazovaniya-etilena>

<https://cyberleninka.ru/article/n/izuchenie-vliyaniya-obrabotki-na-sohrannost-plodoovoschnogo-syrya-ingibitorami-obrazovaniya-etilena/>

9. Назирова Р.М., Усмонов Н.Б., Мирзаикромов М.А //Влияния процесса охлаждения зерна кукурузы на его сохраняемость, количество потерь и на заражённость насекомыми вредителями// Проблемы современной науки и образования. 2020. № 5 (151) стр 23-27. URL: <https://cyberleninka.ru/article/n/vliyanie-protssessa-ohlazhdeniya-zerna-kukuruzy-na-ego-sohranyaemost-kolichestvo-poter-i-na-zarazhyonnost-nasekomymi-vreditelyami>
10. Назирова Р.М., Усмонов Н.Б., Хаитов Р., Тўхташев Ф.Э.// Влияние условий возделывания и режимов хранения на химический состав корнеплодов моркови// Проблемы современной науки и образования / 2020. № 5 (150) стр 16-19. URL: <https://cyberleninka.ru/article/n/vliyanie-usloviy-vozdelyvaniya-i-rezhimov-hraneniya-na-himicheskiy-sostav-korneplodov-morkovi>

