ISSN NO: 2770-0003
Date of Publication: 24-07-2023

Ecological Test of New Varieties of Fine Fiber Cotton

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Abstract. The article presents the results of ecological testing of new varieties of thin fiber cotton at the Scientific Research Institute of Fine Fiber Cotton .

Key words : Cotton varieties , new varieties , ecological test , *G. barbadense* L. and *G. hirsutum* L.

G. barbadense L. and *G. hirsutum* L. hybrids and lines suitable for the climate of the southern region were cross-crossed in order to create new lines and varieties suitable for the climate of the southern region, less affected by diseases and insects, and with valuable economic characteristics higher than the cultivated varieties. selection of samples resistant to diseases of fine-fiber cotton (gammosis, black root rot, anthracnose and other diseases), as well as sucking insects, individual and family selection, identification of valuable farm signs It is recommended as a starting source for the selection process , conducting researches , and fundamentally improving economical agrotechnics.

Table 1

Thin fibrous of cotton new varieties productivity as well fiber and seed quality signs .

No	varieties	Fiber length mm	Fiber output %	1000 pcs ch. vg	Productivity s / ha		
					2020	2021	2022
1	St. Surkh-14	38.4	35.8	122	37.1	39.4	36.0
2	Surkh-16	35.5	36.9	106	37.7	39.8	36.0
3	Surkh-18	38.2	34.5	116	35.8	39.1	34.0
4	Surkh-102	39.0	35.5	120	30.4	-	-
5	Term-49	37.3	36.6	1 30	35.7	37.3	33.0
6	Surkh-103	40.1	37.0	109	32.1	34.2	30.6
7	Surkh-104	40.4	40.7	102	28.9		
8	Surkh-106	37.8	35.7	109	36.2	39.8	35.1
9	Angar	37.0	37.5	120	28.4	-	-
10	Iolatan-14	38.4	32.5	132	35.8	36.7	34.4
11	Term-202	37.7	34.9	117	39.8	39.8	37.5
12	Term-208	39.9	37.0	113	37.4	40.3	37.7
13	Sp-1607	39.2	37.2	108	39.2	41.8	37.2
14	St-1651	38.1	37.6	115	35.5	38.1	33.4
15	Marvarid	41.6	35.2	118	-	-	32.0

Thin fibrous of cotton 15 varieties ecological test in the nursery planting test was conducted. These are among them are Termiz-49 and Surkhan-102 varieties before planted Turkmenistan cotton farming scientific research at the institute created variety Iolatan-14 Turkmenistan 5000 hectares in the Republic planted is coming. new "Angar" variety from varieties morphological in terms of one different that it was not and harvest elements less connected due to the Surkhan-104 variety short stature, crop because of scarcity next in years not planted, other 11 varieties in 2020-2022 test was conducted .

Varieties Sp-1607, Termiz-202 and Termiz-208 yield 39,4-38,5 s/ha high (39.4;39.0;38.5) followed by Surkhan-16, Surkhan-14, Surkhan-106 and Surkhan-18 varieties with 37,8-36,3 s/ ha (37.8;37.5;37.0;36.3) and St-1651 and Iolatan- 35,7 s / ha in 14 varieties harvest received Surkhan-103 and Marvarid varieties that the yield is low (32.3-32.0). note done

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Fiber length sign according to template Surkhan-14 variety 38,4 mm, from it high indicators Marvarid (41.6), Surkhan-104 (40.4), Surkhan-103 (40.1), Termiz-208 (39.9), Sp-1607 (39.2), Surkhan-102 (39.0) varieties note done _ Varieties Surkhan -18 (38.2), St-1651 (38.1). sign indicator model Surkhan-14 variety very close , Surkhan-106 by 0.6 mm , Termiz-202 by 0.7 mm , Termiz-49 by 1.1 mm "Angar" by 1.4 mm Surkhan-16 by 2.9 mm short that it was note done.

Fiber output sign 35.8% in the sample Surkhan-14 variety organize from that high indicators are Surkhan-104 (4.9% higher), St-1651 (1.8% higher), Angor (1.7% higher), Sp-1607, Surkhan-103, Termiz-208, Surkhan-16 and Termiz-49 varieties slightly higher (1,4-0,8%) , Surkhan-18, Termiz-202, Marvarid in varieties sign indicator from the template slightly less (1.3-0.6), in Surkhan-106 and Surkhan-102 varieties rural equal to the fact that note done Type received 1000 pcs of samples seed weight sign when detected model Surkhan-14 variety 1000 seeds weight 122 g being in this high indicators for the Termiz-49 variety (130 g). high Surkhan -102, Angor , Termiz-202, Marvarid in the variety a little (2.0-5.0 g) less another of varieties sign indicator is 7.0-20.0 g less note done Above studied thin fibrous cotton varieties productivity and fiber quality signs to the analysis according to productivity SP -1607, Termiz-202, Termiz -208, Surkhan -16, Surkhan-14, Surkhan - 106 and Surkhan-18 varieties (7 varieties) region climate conditions planting high harvest and good quality fiber and seed get and plant area expand recommendation will be done. Fiber length sign according to studied of varieties all to type I demand suitable will come Fiber output sign according to above yield , on recommendation done of varieties indicator (37.2%-34.5%) from each other From 0.2-2.7 % differs .

References:

1. Alimardonov O.T., Jo‘rayev B.Ch., Ochildiyev N.N., Danabayev A.B.- “Surxondaryo viloyatida g‘o‘zadan yuqori va sifatli hosil etishtirish agrotexnologiyalari” Termiz-2022 y. 163-b.
2. Yangiboyev A.A., Danabayev A.B.. G‘o‘zaning hashoratlarga bardoshligini oshirishda gossipium barbadenze turiga mansub navlarini ahamiyati. Xalqaro ilmiy-amaliy konferensiya materiallari to‘plami (20016 yil, 15-16dekabr) 1-Qism Toshkent-2016 y. 258-260-b.
3. Musurmonovich F. S., Komiljonovna X. S., Qudrat o'g'li S. A. Some Photosynthetic Indicators of Soybean Varieties //Texas Journal of Multidisciplinary Studies. – 2022. – Т. 5. – С. 255-257.
4. Ergashovich K. A., Musurmonovich F. S. Some Characteristics Of Transpiration Of Promising Soybean’s Varieties //The American Journal of Agriculture and Biomedical Engineering. – 2021. – Т. 3. – №. 05. – С. 28-35.
5. Baxriddinovna R. U., Musurmonovich F. S. Soybean-as a source of valuable food //Texas Journal of Multidisciplinary Studies. – 2022. – Т. 6. – С. 165-166.
6. Normuminovna Q. D., Musurmonovich F. S. Bioecological Properties of Salvia Officinalis L //Texas Journal of Multidisciplinary Studies. – 2022. – Т. 6. – С. 249-252.
7. Baxriddinovna R. U., Musurmonovich F. S. Distance Learning System in Educational System Instead, and Significance //Texas Journal of Multidisciplinary Studies. – 2023. – Т. 21. – С. 11-13.
8. Фозилов Ш. М. Периодичность роста и формирования урожая у внутривидовых форм пшеницы //Интернаука. – 2019. – №. 45-1. – С. 18-20.
9. Шапиро А.М., Оскалина Э.М., Усмонов О.К., редактор Хорст М.Г. “Исползование климатических данных для эффективного планирования и управления орошением перевод русской версии” Тошкент 1997 й.