



Registration of “Ayzek 595” Cotton (*Gossypium hirsutum* L.) Variety

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Citation:

Nasirci Z., Dolançay A., 2023. Registration of “Ayzek 595” Cotton (*Gossypium hirsutum* L.) Variety. Ekin J. 9(1):79.

Received: 25.12.2022

Accepted: 10.01.2023

Published Online: 31.01.2023

Printed: 31.01.2023

Ayzek 595 is upland cotton (*Gossypium hirsutum* L.) variety developed by Eastern Mediterranean Agricultural Research Institute (EMARI) in 2021. Ayzek 595 is developed by three way crossing as GS 71/GS 51// Cloudia in pedigree method. Crossing was made in 2010 in Adana. F₁ generation was grown in Adana and all individual plant selections, progeny rows and line selections were made in Harran/Şanlıurfa. Elite line performance tests were carried out in Adana, Hatay and Şanlıurfa in 2017-2018.

Ayzek 595 is in the medium-early maturity group, besides having a semi-pyramidal plant form and medium tall cultivar. Petal colour is cream and pollen colour yellow. Leaf and stem pubescence is moderate.

Ayzek 595 variety has high seedcotton yield, lint yield and adaptability as well as superior fiber quality properties according to upland cotton. Average of % Lint is 48. Some important fiber qualities are fiber fineness : 4.8 micronaire (units), fiber length 31-32 (mm), fiber strength 33 (g/tex), fiber reflectance : 79 (units) and Trash ID: 4 (units).

Plant height is between 120 and 140 cm depending on the growing conditions in cotton regions. It is medium early and as it has very good adaptation ability, it has been

grown throughout Çukurova, Aegean and South eastern Anatolia regions of Turkey. It gives high seedcotton yield both on different soil and high temperature conditions. It has tolerance to verticillium wilt and is tolerant to medium drought conditions. Its yield potential is high however, high yield can be obtained if good agronomic practices and environmental conditions are provided by farmers. In the trials conducted by TTSM in the Aegean-Mediterranean regions in 2019 and 2020, Ayzek 595 variety ranked second in terms of seedcotton yield and first in terms of lint yield.

The highest seedcotton yield obtained was 6500 kg/ha⁻¹ in Adana and Şanlıurfa in 2017-2018 growing years. Average of Mean yield of the variety testing experiment was 6250 kg ha⁻¹ in all cotton regions and growing conditions.

Pre-Basic seeds of the Ayzek 595 cultivar have been produced by Eastern Mediterranean Agricultural Research Institute (EMARI). Seed sales and marketing rights of Ayzek 595 variety were transferred to Atlas Tohum Industry company from Adana for 10 year period in March 2021, Seed lots are currently produced and marketed by the Atlas Seed company.



Figure 1. Before blooming (a), blooming (b) and harvesting stage (c) of the Ayzek 595 variety. (Original)

References and Notes

Anonymous (2020). Ege-Akdeniz pamuk tescil raporu, Ankara, 2020. (in Turkish)