



Registration of “Eylül” Bread Wheat (*Triticum aestivum* L.) Variety

Eylül is winter bread wheat (*Triticum aestivum* L.) variety developed by Trakya Agricultural Research Institute (TARI) and registered in 2020. Anafarta cross is Sau41/Sad1/5/Agri”S”/093-44/3/ Kkk/ltd/Lov29/4/ FKong15//Bow/Pwn/6/1518-4-38K with TE5857-2T-1T-3T-1T-7T-0T pedigree. Crossing was made in 2002 and grain yield test began in 2010-11 growing year.

The spike of the Eylül cultivar is moderately long, white, smooth, with awn and compact. It resembles with cultivar Gelibolu, Köprü and Tekirdağ. The flag leaf is dark-green and with low glaucosity. Grain is oval, hard and red colour. Eylül is a medium-tall cultivar, similar to Köprü, Gelibolu and Tekirdağ. Plant height is between 85 and 90 cm depending on the growing conditions. It is medium early and as it has good adaptation ability; it has been grown throughout the Trakya-Marmara region and some other transitional zone parts of Turkey. It gives high yield both under high fertility and poor fertility soil conditions. It has resistance to winter killing and is tolerant to medium drought conditions. Eylül is tolerant to powdery mildew (*Erysiphe graminis* f. sp. *tritici*), stripe rust (*Puccinia striiformis* f. sp. *tritici*) and leaf rust (*Puccinia triticina*).

Yield potential is high however, high yield can be obtained if environmental conditions are favorable and

applied good agronomic practices. The highest grain yield obtained was 8821 kg ha⁻¹ in Tekirdağ location in 2017 and 2018 growing years. Mean yield of the variety testing experiment was 7217 kg ha⁻¹ in Trakya growing conditions. Suggested planting rate is between 450-500 seeds/m².

Grain quality is good. The mean values of some bread-making qualities of the variety testing experiment (2017 and 2019) are; test weight 71.2-80.4 kg, thousand kernel weight 30.8-38.8 g, protein content 10.9-15.6%, absorption 54.4-58.2%, sedimentation (Zel) 40-64 ml, gluten index 82.7-100%, gluten value 27.9-34.9%, alveograph energy value (W) 167-260. The highest quality values in 2016-2017 growing seasons application of the variety testing experiment were; thousand kernel weight 36.4 g, test weight 78.7 kg, protein content 13.3%, gluten value 34.6%, gluten index 97.7% and sedimentation (Zel) 65 ml.

Pre-Basic and Basic seeds of the Eylül cultivar have been produced by Trakya Agricultural Research Institute (TARI). Certified seed of the Eylül are produced by both private companies and state farms.

Figure 1. Spike and grain of Eylül wheat variety. (Original)



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References and Notes

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