

Registration of “Anafarta” Bread Wheat

Anafarta is winter bread wheat (*Triticum aestivum* L.) variety (Figure 1) developed by Trakya Agricultural Research Institute (TARI) and registered in 2019. Anafarta cross is 15.99/3/Pehl//Rpb8-68/Chrc/4/Chatelet with TE6411-2T-0T-9T-5T-3T-0T pedigree. Crossing was made in 2005 and yield test began in 2014-2015 growing year.

The spike of the Anafarta cultivar is moderately long, white, smooth, with awn and compact. It resembles with cultivar Gelibolu and Saban. The flag leaf is dark-green, and with medium glaucosity. Grain is oval, hard and red colour. Anafarta is a medium-tall cultivar, similar to Saban, Gelibolu and Tekirdağ. Its plant height is between 80 and 100 cm depending on the growing conditions. It is medium early and as it has good adaptation ability, it has been grown throughout Trakya-Marmara region and some other parts of Turkey. It gives high yield both on fertile and less fertile soils. It has resistance to winterkilling and is tolerant to medium drought conditions. Anafarta is tolerant to powdery mildew (*Erysiphe graminis* f. sp. *tritici*), stripe rust (*Puccinia striiformis* f. sp. *tritici*) and leaf rust (*Puccinia triticina* Eriks.).

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 9138 kg ha⁻¹ in Edirne location in 2016-2017 growing years. Mean yield of the variety testing experiment was 7135 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 (2016 and 2018) are; test weight 75.3 kg, thousand kernel weight 36.9 g, protein content 13.8%, absorption 60.6% and sedimentation (Zel) 44.4 ml, gluten index 97.3%, alveograph energy value (W) 184.8. The highest quality values in 2016-2018 growing seasons were; test weight 81.1 kg, protein content 17.2%, gluten value 21.3%, gluten index 97.4% and sedimentation (Zel) 65 ml.

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

Figure 1. Spike and grain of the Anafarta cultivar (Original)



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References and Notes

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