



Registration of "Albaşak" Bread Wheat (*Triticum aestivum* L.) Variety

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Albaşak is winter bread wheat (*Triticum aestivum* L.) variety developed by Trakya Agricultural Research Institute (TARI) and registered in 2021 (Figure 1). Albaşak is developed by crossing Tek/4/Lau/Agd/3/Odes95//Olv/B16 with TE6474-0T-0T-4T-3T-4T-0T through pedigree method. Crossing was made in 2004 and yield test were began in 2011-2012 growing year.

The spike of the Albaşak cultivar is moderately long, red, smooth, with awn and medium compact. The first red and awned variety registered in the Trakia region. The flag leaf is dark-green and with medium-low glaucosity. Grain is oval, hard and red colour. Albaşak is a medium-tall cultivar, similar to Köprü, Gelibolu, Yüksel and Saban. Plant height is between 93 and 103 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 on fertile and less fertile soils. It has resistance to winterkilling and is tolerant to medium drought conditions. Albaşak is tolerant to powdery mildew (*Erysiphe graminis* f. sp. *tritici*), and highly tolerant to stripe rust (*Puccinia striiformis* f. sp. *tritici*) and leaf rust (*Puccinia triticina*). It has susceptible to septoria leaf disease.

Its 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 9874 kg ha⁻¹ in variety testing experiment. Mean yield of the variety testing experiment was 7924 kg ha⁻¹ in Trakya growing conditions. Suggested planting rate is between 450-500 seeds/m².

Its grain quality is good. The mean values of some bread-making qualities of the variety testing experiment (2019 and 2020) are; test weight 71.7-74.6 kg, thousand kernel weight 27.4-39.5 g, protein content 14.0-16.5%, absorption 55.6-61.6%, sedimentation (Zel) 45-72 ml, gluten index 97.3-99.5%, gluten value 27.3-32.1%, alveograph energy value (W) 237-429. The highest quality values in 2017-2018 growing seasons application of the variety testing experiment were; thousand kernel weight 48.7 g, test weight 80.2 kg, protein content 12.0%, gluten value 32.3%, gluten index 98.2% and sedimentation (Zel) 66 ml.

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



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

References and Notes

Anonymous (2021). Trakya Bölgesi Ekmeklik Buğday Tescil Raporu 1, Ankara 2021. (in Turkish, Unpublished)