



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

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Çavuş is a hard-red winter wheat (*Triticum aestivum* L.) cultivar registered in 2019 by Central Research Institute for Field Crops. Çavuş is of medium height and it is adapted to Central Anatolia Regions which receive low to intermediate rainfall (300-350 mm average annual precipitation). The spikes of the cultivar are white, awnless, and medium length (Figure 1). It is characterized by high grain yield, high grain quality, and resistance to lodging and yellow rust. The variety is mid-early maturing and has a high tillering capacity as well as high water and fertilizer use efficiency. The pedigree of Çavuş is KNYAGHNA/BEZOSTAYA and YA:739-0A-0A-0A-0A-0A-8A. The crossing took place in 2005 and yield trials began in the 2012-13 growing season. Application for registration of Çavuş bread wheat variety was submitted to the Seed Registration and Certification Institute in 2016. The average yield of the cultivar varied from 3000-4500 kg ha⁻¹ in arid

and 4500-6500 kg ha⁻¹ in semi-arid areas of Central Anatolia. It was the top cultivar in terms of bread-making quality values among all the genotypes and checks during the registration process. Bread-making quality values for Çavuş variety are: thousand kernel weight: 31.2-39.5 g, hectoliter weight: 75.8-79.6 kg/hl, protein content: 14.0-16.8%, Zeleny sedimentation: 47-68 ml, baking strength (W): 300-538, water absorption: 59.7-62.0%, flour yield: 59.6-70.5%, wet gluten: 35.3-39.7%, dry gluten: 12.2-13.3%, and the gluten index: 93.6-94.2 %. Çavuş has the best quality characteristics among the bread wheat cultivars grown in Central Anatolia. The cultivar is recommended for arid, semi-arid, and irrigated areas of the Central Anatolian Region and the Transitional Zones. The appropriate sowing rate is 180-200 kg ha⁻¹ and suggested sowing dates are between October 15-November 15.



Figure 1. Spike and grain of the Çavuş variety. (Original)

References and Notes

Anonymous (2019). Central Anatolia Region Draught Bread Wheat Registration Report, Ankara (in Turkish).