



Registration of "Vehbibey" Durum Wheat (*Triticum durum* Desf.) Variety

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Citation:

Yazar S., Özdemir B., Dönmez E., Salantur A., Alyamaç ME., Kılıç G., Avcı Mİ., Sade FB., 2022. Registration of "Vehbibey" Durum Wheat (*Triticum durum* Desf.) Variety. Ekin J. 8(1):76

Received: 20.12.2021

Accepted: 25.12.2021

Published Online: 30.01.2022

Printed: 31.01.2022

Vehbibey is a winter durum wheat (*Triticum durum* Desf.) cultivar, released in 2019 by Central Research Institute for Field Crops (Figure 1). The cultivar is characterized by high grain yield, tall plant height, resistance to drought, cold, lodging, and is mildly resistant to yellow rust. Its spikes are white and grains are highly vitreous when sufficient fertilizers are applied.

The cultivar has high water and fertilizer use efficiency. It is adapted to Central Anatolia Regions' climate which receives low annual precipitation (300-350 mm). Vehbibey's pedigree is Kunduru414-44/66T11//ANK-98 and YA:08838-OA-OA-OA-13A-0A. The cross was made in 2006 and yield trials began in the 2013-14 growing season. Application for registration of Vehbibey durum wheat variety was submitted to the Seed Registration and Certification Center in 2016.

The average yield of the cultivar ranged from 3000-4000 to 4500-7000 kg/ha⁻¹ under rainfed and irrigated conditions, respectively. Vehbibey was the top-yielding cultivar in yield trials during the registration process.

The cultivar has very good quality characteristics such as thousand-kernel weight: 33.6-46.5 g, hectoliter weight: 70.4-80.4 kg/hl, protein content: 13.0-16.4%, kernel vitreousness: 84-100%, SDS sedimentation: 30-49, B color: 24.9-26.4, and semolina yield: 60.4-67%. Vehbibey has both better quality characteristics as well as higher yield than Kızıltan-91 which is one of the most widely grown durum wheat cultivars in semi-arid areas in Central Anatolia.

The cultivar is recommended for semi-arid and irrigated areas of the Central Anatolian Region and the Transitional Zones. The appropriate sowing rate is 200-220 kg/ha and suggested sowing dates are between October 15-November 15.



Figure 1. Spike, grain and field view of the cultivar Vehbibey. (Original)

References and Notes

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 (in Turkish, Unpublished)