



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

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Citation:

Ezici AA., Dinçer MN., Yaktubay Ş., 2023. Registration of "Karmen" Bread Wheat (*Triticum aestivum* L.) Variety. Ekin J. 9(1):80.

Received: 23.12.2022

Accepted: 08.01.2023

Published Online: 31.01.2023

Printed: 31.01.2023

Karmen is a spring bread wheat (*Triticum aestivum* L.) variety, developed by East Mediterranean Agricultural Research Institute and registered in 2020. Karmen is a commercial name given for a newly released bread wheat variety with the pedigree name BABAX/LR42//BABAX*2/3/KUKUNA/4/BACEU #1/5/BECARD which originated from CIMMYT.

The spike of the Karmen variety is long and dense, white, and awned. Grain is semi hard, large and reddish color. Karmen is a medium-tall cultivar, similar to Ceyhan 99 and Gökkan. Plant height is between 82 and 102 cm depending on the growing conditions. Karmen is erect during the juvenile plant growth stage and is green at the boot stage. Heading date of Karmen variety is medium-early.

It has medium resistance to cold and drought. Karmen variety is recommended for the all coastal area and South-Eastern Anatolia. It has medium resistant to Septoria. Karmen has excellent grain yield potential, good resistance to foliar diseases, particularly leaf rust

(caused by *Puccinia triticina* Eriks.), stripe rust (caused by *Puccinia striiformis* Westend.) and powdery mildew (caused by *Erysiphe graminis* f. sp. *tritici*).

The variety showed higher grain yield performance than the check (Ceyhan 99, Adana 99) and it has good agronomic characteristics. Combined analysis over years and locations revealed that it had produced an average yield of 7500 kg/ha⁻¹ and has wide adaptability. Suggested planting rate is between 450-500 seeds/m². Karmen has red grain color and it has good general acceptance for bread with high quality. Its grain feeding quality is good. Considering the quality analysis values of this variety in 2018 and 2019, the test weight, a thousand grain weight, protein content, gluten content, alveograph energy values and zeleny sedimentation were determined respectively 79.0-82.1 kg/hl⁻¹, 45-50 g, 12.5-14.8%, 25.0-36.5%, 274-358 W and 33-45 (ml). Royalty negotiations with private companies continue to cover the production and sales of seeds of Karmen variety.



Figure 1. Spikes (a), Field view (b) and Seeds of Karmen (c) variety. (Original)

References and Notes

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