



Registration of “Ocak” Barley (*Hordeum vulgare* L.) Variety

Ocak is two rowed barley (*Hordeum vulgare* L.) variety developed by Trakya Agricultural Research Institute (TARI) and registered in 2020. Ocak cross is Slad//Ast/82 Mva 018-4/3/Rod/4/NS525 with TEA2275-0T-0T-3T-11T-3T-0T pedigree. Crossing was made in 2006 and grain yield test began from 2014-15 growing year.

Ocak cultivar is two rowed cultivar and its spike is moderately long and compact. It resembles with cultivar Bolayır. Ocak is a medium-tall cultivar, similar to Bolayır. Plant height is between 84 and 98 cm depending on the growing conditions. It is medium early in maturity and as it has good adaptation, it has been grown throughout Trakya-Marmara and transitional zone region 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. Ocak is highly tolerant to powdery mildew (*Blumeria graminis* f. sp. *hordei*), net blotch (*Pyrenophora teres*) and scald (caused *Rhynchosporium commune* (formerly *Rhynchosporium secalis*)).

Yield potential is high however, high yield can be obtained if environmental conditions are favorable and accompanied with good agronomic practices. The highest grain yield obtained was 8506 kg ha⁻¹ in Edirne location in 2018-19 growing years. Mean yield of the variety testing experiment was 7152 kg ha⁻¹ in Trakya growing conditions. Suggested planting rate is between 450-500 seeds/m².

Grain feeding quality is good. The mean values of some qualities of the variety testing experiment (2017 and 2019) are; test weight 67.2-71.0 kg, thousand kernel weight 35.6-41.1 g, protein content 11.2-12.8%, and sieve value 64.9-88.7%. The highest quality values during 2017 and 2019 growing seasons before of the variety testing experiments were; 1000-kernel weight 50.5 g, test weight 73.8 kg, protein content 12.0% and sieve value 95.8%.

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

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



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References and Notes

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