



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

Yüksel is two rowed barley (*Hordeum vulgare* L.) variety developed by Transitional Zone Agricultural Research Institute (TZARI) and registered in 2020. Yüksel crossing is Sonata/CWB117-5-9-5//CW117-77-9-7 and YEA5252-0E-0E-0E-2E-0E pedigrees. The crossing was made in 1999 and the yield test began in 2005-2006 growing year.

Similar to İnce 04 and Sabribey, Yüksel is two rowed cultivar and its spike is moderately long. Depending on the growing conditions, plant height varies between 80 and 100 cm. Since Yüksel is medium early and has high adaptation ability, it can be grown in all Medium Anatolian Region and Transitional Zone of Turkey. Thus, high yield can be obtained from both high fertility and poor fertility soil conditions. Yüksel is tolerant to net blotch (*Pyrenophora teres*) and scald (*Rhynchosporium commune* (formerly known as *R. secalis*) diseases.

When appropriate environmental conditions and optimum agronomic practices are provided, yield potential is high. The highest grain yields were obtained from Gözlü location with 5561 kg ha⁻¹ and Yenikent location with 5980 kg ha⁻¹ in 2018-2019 growing season. Average yield of the variety in Eskişehir conditions was 4840 kg ha⁻¹. Recommended planting rate is between 400-450 seeds/m². According to quality test results, test weight 61.4-66.9 kg, thousand kernel weight 35.6-40.9 g, protein content 12.7-14.6%, under sieve value 15.0-1.8%.

Pre-basic and basic seeds of the Yüksel cultivar have been produced by Transitional Zone Agricultural Research Institute (TZARI). Certified seed of the Yüksel are produced by state farms.

Figure 1. Grain and field appearance of Yüksel barley variety. (Original)



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References and Notes

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