

Registration of “Sümerli” Durum Wheat Variety

Sümerli is spring durum wheat (*Triticum durum* Desf.) variety (Figure 1) developed by GAP International Agricultural Research and Training Center (GAP IARTC) and registered in 2018. Sümerli variety originates from CIMMYT and its pedigree is TRN//D21563/AA/3/BD2080/4/BD2339/5/RASCON_37/TARRO_2//RASCON_37/6/AUK/GUIL//GREEN/11/ALTAR84ALTO_1/RISSA/9/USDA595/3/D67.3/RABI//CRA/4/ALO/5/HUI/YAV_1/6/ARDENTE/7/HUI/YAV79/8/POD_9/10/SHAG_14/ANAD_1//KITTI_1/2/CIRNOC2008.

Sümerli cultivar is spring type and has intermediate growth habit, short-medium plant length, early-medium heading, medium ear glaucosity, fully awned, light brown awn color, short and white spike, medium ear density, amber colored and vitreous grain, absent or very low curved flag leaves. It resembles Artuklu cultivar, but Sümerli variety is shorter in height and spike than Artuklu variety. Plant height is about 100 cm depending on the growing conditions. It has been grown throughout Southeastern Anatolia Region’s rainfed and irrigated conditions and Coastal Zones of Turkey. It gives high yield on fertile soils. It has resistance

to septoria disease and it shows moderately tolerant reaction against yellow rust.

Yield potential is high however and high yield can be obtained if environmental conditions are favorable and good agronomic practices are applied. The highest grain yield was obtained as 10230 kg ha⁻¹ in Diyarbakır location in 2014-15 growing season. Mean yield in the variety registration trials was about 8000 kg ha⁻¹ in Southeastern Anatolia Region. Suggested planting rate is 500 seeds/m².

The quality of variety is very well. The mean values of some durum wheat quality traits in Sümerli in the variety registration trials (between 2015 and 2017) are as follows. Test weight 80.2 kg/hl⁻¹, thousand kernel weight 41.4 g, protein content 15.7%, vitreousness 97.5%, SDS sedimentation 23.6 ml, semolina color 28.1 and semolina yield 62.6%.

Pre-Basic and Basic seeds of Sümerli cultivar have been produced by GAP International Agricultural Research and Training Center (Gap IARTC). Certified seed of the Sümerli cultivar will be produced by TİGEM.

Figure 1. Spike, grain and plant of the Sümerli cultivar (Original)



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References and Notes

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