



Registration of “Gizlenci” Rice (*Oryza sativa* L.) Variety

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“Gizlenci” is a rice variety released by the Black Sea Agricultural Research Institute, Samsun, in 2021. Gizlenci rice variety was developed by cross breeding method among its parental lines (Halilbey × Nembo). Modified-bulk breeding method was conducted between 2008 and 2015. Crossing was made in 2008, initiated as a F_{1:3} bulk selection until 2011, sustained as a F_{4:7} pedigree selection of a single panicle row between 2012 and 2015. Preliminary yield trial, yield trial, regional advanced yield trials conducted from 2016 to 2018. As a result of 2-year national registration trials, Gizlenci has grain yield potential as 800-900 kg da⁻¹, and it has 14% more yield of the standard varieties average. When the stability parameters based on repeated data were examined, it was ranked in the middle ranks under poor environmental conditions. The variety, which

increases its yield as good environmental conditions are achieved, has been ranked at the top. The Gizlenci variety stands out with its 63% unbroken milled yield and 21.7 g rice thousand milled grain weight. It also has average values of 6.1 mm milled kernel length and 2.7 mm milled kernel width. In terms of agricultural characteristics; flowering day is 83 days, maturity day is 128 days, and plant height is 97.3 cm. Rice grain (Figure 1) is the characteristic of its transparent appearance. (Anonymous 2019, 2021).

Turkish Plant Variety Protection has been applied for the variety. Breeder and foundation seed of the variety will be produced and maintained by Black Sea Agricultural Research Institute, 55300, Tekkekoy, Samsun, Turkey. Limited quantities of seed are available on request to the corresponding author for research purposes.



Figure 1. a) Field appearance, b) grain and c) milled whole rice of Gizlenci rice variety (Original)

References and Notes

- Anonymous, (2019). Black Sea Agricultural Research Institute project reports, Samsun, Turkey (in Turkish).
Anonymous, (2021). Registration trials report, TTSM, Ankara, Turkey (in Turkish).

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