

Stellar-ND

Synonyms - Stellar

Experimental # ND16301

HISTORY

'Stellar-ND' is an F₃ selection from the cross Foster//ND12200/6B88-3213 that has a white aleurone, semi-smooth awns, and long rachilla hairs. The cross between ND12200 and 6B88-3213 was made in the greenhouse in fall 1993. The F₁ from this cross was crossed to Foster in the greenhouse in spring 1994. The experimental line designation of Stellar-ND was ND16301.

AREA OF PRODUCTION

Stellar-ND is widely adapted to the six-rowed malting barley growing regions of the upper Midwest United States, including the irrigated production areas in western North Dakota and eastern Montana. Because of its good agronomics, wide adaptation, and excellent malt quality profile, we view Stellar-ND as a possible replacement for Drummond and Lacey.

AGRONOMIC CHARACTERISTICS

Yield - Drummond has an above average yield potential, yielding similar to slightly more than Lacey, Legacy, and Tradition.

Maturity – Midseason, similar to Robust

Straw Strength – Very strong, superior to Drummond

Straw Length – Medium-short, similar to Tradition

Disease Reaction - Like most Midwest barley cultivars, Stellar-ND possesses the NDB112 resistance to spot blotch and the *Rpg1* gene for resistance to the prevalent Midwest pathotypes of wheat stem rust, except Pgt-QCC. Stellar-ND is moderately susceptible to net blotch and barley yellow dwarf virus, and susceptible to loose smut, leaf scald, and several *Septoria* spp. and *Fusarium* spp. that attack barley in the Midwest USA. Stellar-ND generally has a lower percent FHB severity and similar DON accumulation as compared to Robust, the most widely grown cultivar in the region.

UTILIZATION

Used for malting and feed.



DESCRIPTION

Plant - Spring growth habit.

Head - 6-rowed, Medium-lax.

Beard – Semi-smooth.

Glume – Completely covered with long hairs.

KERNEL

Hull – Adhered and slightly-wrinkled

Aleurone – White.

Rachilla Hairs – Long.

Veins – Moderately prominent.

Barbs of Lateral Veins – Absent.

Crease - Narrow at base, flared toward beard end.

Point of Attachment – Depression.

Kernel Size – Midlong to long.

Kernel Shape - Plump, no prominent bulges.

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