

Description: HudsonNY two-row spring malting barley

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Pedigree: CU198 (ST563R-3): AAC Synergy/KWS Tinka

Grain Yield: In five years of testing, HudsonNY averaged 70 bu/a, 1 bu/a lower grain yield than AAC Synergy, 5 bu/a higher than Newdale, and 5 bu/a higher than ND Genesis.

Test Weight: Over four years, HudsonNY averaged 48.4 lb/bu. AAC Synergy averaged 46.4, Newdale averaged 46.6, and ND Genesis averaged 47.2 lb/bu.

Lodging Resistance: Lodging has been very low in our spring malting barley trials the past four years and HudsonNY has lodging scores identical to the checks.

Disease Resistance: HudsonNY is moderately resistant to spot blotch (*Bipolaris sorokiniana*). Over four years this line is moderately susceptible to Fusarium head blight. Over two years, the FHB index was 3.5 and DON was 3.8ppm compared to 2.0 and 6.2ppm for AAC Synergy and 8.1 and 4ppm for Newdale.

Quality Characteristics: HudsonNY has been evaluated for malting quality for four years and has satisfactory malting properties comparable or superior to the high malting quality line AAC Synergy. HudsonNY has low beta-glucan, moderate grain protein and good malt extract. It has low water sensitivity. It is moderately resistant to preharvest sprouting with a score of 2.5 compared to 5.2 for AAC Synergy, 4.6 for Newdale, and 2.6 for ND Genesis. Percent plump kernels is 96 compared to 96 for AAC Synergy and 92 for Newdale. The all-malt quality score was 41 compared to 34 for AAC Synergy and Newdale.

Morphology: Plant height is about 65 cm compared to 63 cm for AAC Synergy and 59 for Newdale. This line shows good spike emergence unlike its parent KWS Tinka. Heading date is two days earlier than AAC Synergy and three days earlier than Newdale over four years. Growth habit is erect. HudsonNY spikes are rough-awned with a lax head, semi-nodding spike, and *deficiens* type lateral florets. Some spikes with full lateral florets can be observed, but other spike characteristics are the same for this type. Kernels have an adhering hull, long rachilla hairs, horseshoe depression at attachment point, white aleurone, long glume awns, and a slightly wrinkled hull.

Status of Breeder Seed: HudsonNY Foundation seed is available from the New York Seed Improvement Project. This line is available to the New York seed industry as a non-exclusive release variety with Breeder, Foundation, and Certified classes. All seed sales must be a class of certified seed.