



## NuPRIDE GENETICS NETWORK

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# Brawl CL Plus Hard Red Winter Wheat

Brawl CL Plus is an awned, white-glumed, hard red winter wheat developed by the Colorado Agricultural Experiment Station. Brawl CL Plus was released based on its tolerance to imazamox herbicide (Beyond), resistance to stripe rust, high test weight and superior milling and bread baking quality, and adaptation for dryland and irrigated production in eastern Colorado and the west-central Great Plains.

Origin and Pedigree: Brawl CL Plus (experimental line CO06052) was selected from the three-way cross Teal 11A/Above//CO99314. Teal 11A is a proprietary hard red spring wheat germplasm line obtained from BASF Corporation that carries a mutant allele at the *A/s2* locus (B genome) for tolerance to imidazolinone herbicides. Above is a hard red winter wheat Clearfield\* (imazamox herbicide tolerant, carries a mutant allele at the *A/s1* locus on the D genome) cultivar released by CSU in 2001 (PI 631449). CO99314 is an unreleased experimental line from the CSU wheat breeding program (TX91V4931/Halt pedigree).

Maturity: Brawl CL Plus is early in maturity 2 days earlier than 'Hatcher', 1 day earlier than 'Ripper' and similar to Above.

Height/Standability: Brawl CL Plus is medium-tall (31 inches), 1 inch taller than Hatcher, 0.5 inches taller than Ripper, and 2 inches taller than Above. Coleoptile length is medium long, similar to Ripper, longer than both Hatcher (medium) and Bill Brown (short). The straw strength of Brawl CL Plus is very good and is rated better than of Hatcher and Ripper and similar to Above.

Disease/Insect Reaction: Brawl CL Plus is moderately resistance to stripe rust, wheat soilborne mosaic virus, and powdery mildew. It is moderately susceptible to leaf rust, stem rust, wheat streak mosaic virus and barley yellow dwarf virus and susceptible to Hessian Fly.

Adaptation/Management: In positioning Brawl CL Plus it should be well adapted to irrigated and rainfed wheat production systems in Eastern Colorado and West-central plains. Brawl CL Plus is a Clearfield\* wheat, used in conjunction with *Beyond* herbicide for selective, broad spectrum weed control. Brawl CL Plus carries two genes for tolerance which serves to enhance both crop safety and weed control. To ensure longevity of the herbicide tolerance trait, producers that grow Clearfield\* wheat varieties are not permitted to replant their seed.

\*Brawl CL Plus contains two patented herbicide tolerance traits owned by BASF Corporation that confer tolerance to imidazolinone herbicides, such as imazamox.

Seed Classes: Breeder, Foundation, Registered and Certified.

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