## HARD RED SPRING WHEAT

A premium quality wheat, commanding premium prices

The HRS wheat grown in North Dakota has built a special reputation amongst numerous world buyers for exceptional end-use quality and performance. This brings value to them, and builds repeat business for producers, often at premium prices in a highly competitive world market.

U.S. HRS wheat "DNS Wheat" is valued for:

- ◆ High Protein Content
- ◆ High Vitreous Kernel Levels
- ◆ Dough Strength
- ◆ High Water Absorption
- ◆ Big Loaf Volumes

Typically used as "blending" wheat (improve protein content and protein quality), and for specialty bread products and Asian noodles.

- Bagels
- Croissants
- ▶ Frozen Doughs
- ▶ Hard Rolls
- Pizza Crust
- Artisan Breads
- Buns (Hamburger)





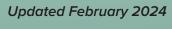


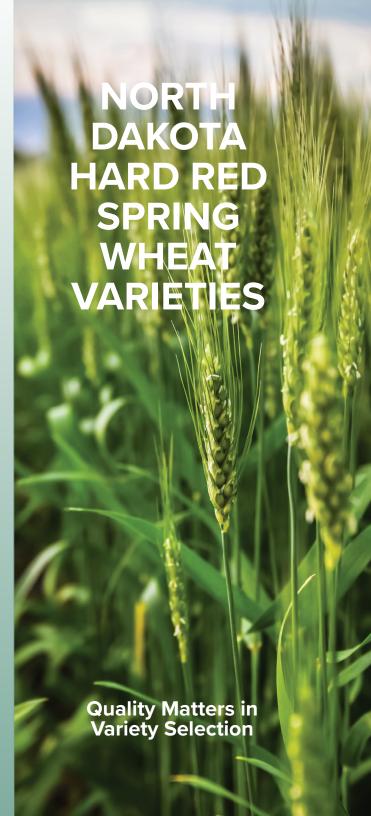






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## HELP TO KEEP OUR SPRING WHEAT PREMIUM!

Pick a variety that will help maintain our premium markets. Quality parameters that are valued at the point of sale, as well as in the mill and bakery, must remain a priority for the U.S. spring wheat industry, from wheat breeding companies, to producers, and wheat merchandisers. Many varieties can give you strong yields and maintain quality.

The accompanying list of varieties illustrates how varieties performed in comprehensive kernel, milling and baking quality evaluations at the North Dakota State University Quality lab. All varieties were grown under the same production environments, and their individual laboratory results were weighted by key quality parameters: protein (10%), test weight (5%), vitreous kernels (5%), milling yield (10%), dough strength (23.3%), water absorption (23.3%), and loaf volume (23.3%). The overall score determined a varieties category.

Varieties shaded in green are varieties that had good to excellent quality, were balanced in numerous end-use traits, and performed at or above the customer demanded quality targets for the HRS class. Varieties shaded in yellow ranged from average to good in end-use quality testing, and were more variable across important traits. Varieties shaded in red tend to fall below customer demanded quality targets for the HRS class.

As producers select varieties that have the needed agronomics and disease resistance for their growing area, they need to consider end-use quality as well, and are encouraged to choose varieties that rate higher in end-use quality testing. This will help U.S. HRS maintain its high rank in the world wheat quality spectrum.

VARIETY

2020-2022 Data

(alphabetically within category)

AP Gunsmoke CL2	AD/QV
AP Murdock	
AP Smith	AP/SY
Ascend SD	
Bolles	
Boost	SDSU
Brawn SD	
CAG Reckless	CG
CP 3530	CP
CP 3915	
Dagmar	
Driver	SDSU
Elgin-ND	
Glenn	
Lanning	MSU
LCS Ascent	
LCS Cannon	
LCS Dual	LCS
LCS Hammer AX	
MN Rothsay	
MN Torgy	UMN
MS Charger	MS
MS Cobra	
MS Ranchero	MS
ND Frohberg	
ND Thresher	
ND VitPro	NDSU
Shelly	
SY Ingmar	
SY Longmire	AP/SY
SY McCloud	AP/SY
TCG Heartland	TCC
TCG Spitfire	TCG
TCG Wildcat	TCG
WB 9479	
WB 9590	WB
CAG Justify	CG
LCS Trigger	
ND Heron	
SY 611LC2	AP/SY
SY Valda	
CP 3099A	
CP 3188	CP
LCS Buster	
PFS-Buns	PFS

The annual NDSU commercial statewide variety trials are the source of production used for the quality evaluation of these varieties. The trial is open to all seed companies for entries. Variety end-use performance is also influenced by environment, so some shifts can be expected on year-to-year comparisons. For a more detailed breakdown of the quality data, please refer to the NDSU Hard Red Spring wheat variety circular.

NDSU Hard Red Spring wheat variety circular NDSU HRS Wheat Circular



## **ABBREVIATIONS**

AP/SY	AgriPro/Syngenta
CG	Champions Alliance Group
CP	Croplan
LCS	Limagrain Cereal Seeds
MS	Meridian Seed
MSU	Montana State University
NDSU	North Dakota State University
PFS	Peterson Farm Seeds
SDSU	South Dakota State University
TCG	21 Century Genetics
UMN	University of Minnesota