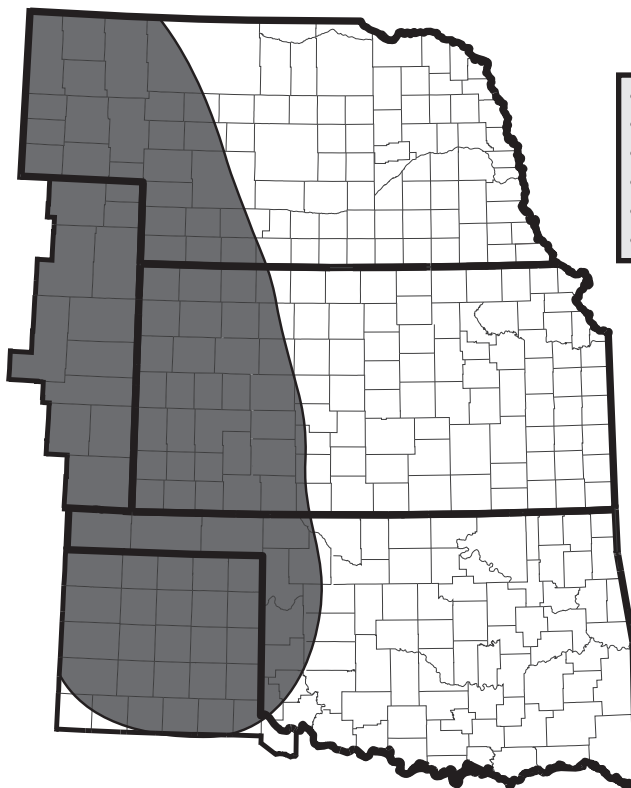


GUARDIAN

Optimal Uses

XX	Grain only
X	Grain plus limited grazing
	Heavy grazing plus grain
	Pasture graze-out
	Irrigation
	Double Crop



- **Class:** Hard Red Winter
- **Licensee:** PlainsGold
- **Developer:** Colorado State Univ.
- **Pedigree:** Antero/Snowmass//Byrd
- **Year Released:** 2019
- **Variety Protection:** PVP, CSO

Characteristics

Barley yellow dwarf	Moderately Susceptible
Hessian Fly	N/A
Leaf Rust	Moderately Susceptible
Stem Rust	Resistant
Stripe Rust	Moderately Resistant
Powdery Mildew	N/A
Scab (FusariumHB)	N/A
Septoria Leaf Blotch	N/A
Soilborne Mosaic	Susceptible
Tan Spot	N/A
Wheat Streak Mosaic	Resistant
Acid Soil Tolerance	Susceptible
Coleoptile Length	Medium
Drought Tolerance	Good
Early Spring Greenup	N/A
Fall Ground Cover Capability	N/A
Fall Grazing Potential	N/A
Height	Medium
Maturity (Heading Date)	Medium
Protein	Excellent
Quality: Baking	Desirable
Quality: Milling	Desirable
Seed Size	N/A
Shattering Reputation	N/A
Straw Strength	Fair
Test Weight	Excellent
Tillering	N/A
Winterhardiness	Good
Yield Record Where Adapted	Consistently Good

Comments:

Guardian is a medium height and medium maturity wheat for the High Plains. It has stacked genetic resistances to wheat viruses, and resistance to wheat curl mite, which transmits WSMV, wheat mosaic virus, and Triticum mosaic virus. It would be a good variety to use in WSMV-prone areas or fields with heavy residue. Its area of adaptation extends farther north and west than illustrated here.

Noted in recent conditions, Guardian does well in severely droughty winters, but can shed berries in spring drought conditions.

Guardian won the 2022-2023 KSU Fall Dry Matter Forage Trial in Hutchinson, Kansas by a wide margin, producing 679 pounds per acre where the entire trial averaged 361 pounds per acre.

Guardian also carries leading resistance to all three predominant rusts (Stripe, Leaf, and Stem). With a strong disease package, very good yield potential, exceptional test weight, and the ability to make grain protein, Guardian is positioned to maximize return on the investment year after year. PVP Protected, Certified Seed Only, Sunset June 30th, 2024 (savable harvest, 2024).

Listed as a Grain Craft Preferred Variety.

Strengths:

- Very good yield potential

Weaknesses:

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Special notes on cultural practices:

- Good option for disease-prone fields with heavy residue.
- Good defensive tool against WSMV areas

