

2023 Dryland Winter Wheat Variety Performance Trial at Julesburg

Variety	Brand/Source	Market Class	Grain Yield ^a	Test Weight	Stripe Rust	Protein	Plant Height
			bu/ac	lb/bu	rating (1-9) ^b	percent	in
Steamboat	Crop Research Foundation of WY	HRW	73.0	60	1	9.0	35
Valley	Frenchman Valley Coop	HWW	73.0	58	3	9.8	32
CP7017AX	CROPLAN	HRW	72.0	58	3	9.7	29
CO19S135W	Colorado State University exp.	HWW	70.5	58	2	9.7	29
Monarch	PlainsGold	HWW	70.5	58	3	9.7	29
CO19D087R	Colorado State University exp.	HRW	70.0	58	1	9.1	27
Canvas	PlainsGold	HRW	69.5	58	2	10.2	29
CO19S129W	Colorado State University exp.	HWW	69.5	58	1	9.1	28
PSB13NEDH-14-83W	University of Nebraska-Lincoln exp.	HWW	69.5	58	3	9.8	33
Snowmass 2.0	PlainsGold	HWW	69.5	57	4	10.2	30
Windom SF	PlainsGold	HWW	68.5	57	3	10.1	31
Amplify SF	PlainsGold	HRW	68.0	58	2	9.5	32
AP Bigfoot	AgriPro	HRW	68.0	59	3	10.4	28
CO19D304R	Colorado State University exp.	HRW	68.0	57	1	9.3	33
MS Maverick	Meridian Seeds	HRW	68.0	59	2	9.8	30
Whistler	PlainsGold	HRW	68.0	58	2	9.0	32
Byrd	PlainsGold	HRW	67.5	58	3	9.2	31
CO18D297R	Colorado State University exp.	HRW	67.5	58	1	10.2	28
Byrd CL Plus	PlainsGold	HRW	67.0	58	2	9.6	33
CO18D007W	Colorado State University exp.	HWW	67.0	57	3	10.1	32
CO19393R	Colorado State University exp.	HRW	67.0	59	1	9.4	31
CO19410R	Colorado State University exp.	HRW	66.5	59	2	10.0	28
CO20D108R	Colorado State University exp.	HRW	66.5	57	2	10.0	31
Kivari AX	PlainsGold	HRW	66.5	56	3	8.5	31
Sunshine	PlainsGold	HWW	66.0	56	5	9.7	33
CO19S085W	Colorado State University exp.	HWW	65.5	58	3	10.0	31
LCS Atomic AX	Limagrain	HRW	65.0	59	2	10.2	30
CO200037R	Colorado State University exp.	HRW	64.5	58	2	10.6	31
AP Solid	AgriPro	HRW	64.0	57	3	10.0	28
CO19S053R	Colorado State University exp.	HRW	64.0	58	2	9.0	28
KS Territory	Kansas Wheat Alliance	HRW	64.0	57	1	11.6	31
Avery	PlainsGold	HRW	63.5	57	2	8.9	31
CO18035RA	Colorado State University exp.	HRW	63.0	58	2	8.8	28
Crescent AX	PlainsGold	HRW	63.0	59	2	10.4	32
CO18042RA	Colorado State University exp.	HRW	62.5	58	2	9.0	32
Breck	PlainsGold	HWW	61.5	60	4	9.8	31
Fortify SF	PlainsGold	HRW	61.0	58	3	9.5	31
Langin	PlainsGold	HRW	60.5	56	2	9.1	28
Guardian	PlainsGold	HRW	60.0	59	2	10.0	30
NHH17450	University of Nebraska-Lincoln exp.	HRW	60.0	58	2	10.8	36
Brawl CL Plus	PlainsGold	HRW	59.0	58	3	11.5	30
Hatcher	PlainsGold	HRW	59.0	57	2	9.8	30
LCS Steel AX	Limagrain	HRW	59.0	57	2	10.7	27
AP Roadrunner	AgriPro	HRW	58.0	57	3	10.2	32
Ray	PlainsGold	HRW	46.0	50	1	10.8	36
Average			65.5	58	2	9.8	31
			^c LSD (0.30)	2.0	1		
			^c LSD (0.05)	4.5	1		
Coefficient of Variation (CV)				4.0			

^aYield adjusted to 12% moisture and varieties ranked by yield (highest to lowest). Variety yields in bold are in the top LSD group (0.30).

^bStripe rust score reflects overall reaction (1=resistant to 9=susceptible) to stripe rust infection.

^cFarmers selecting a variety based on yield should use the LSD (.30) to protect themselves from false negative conclusions (concluding varieties are the same when they are actually different). Companies or researchers may use the LSD (.05) to avoid false positive conclusions (concluding varieties are different when they are actually the same).

Site Information

Collaborator: Carlson Farms
 Harvest date: July 26, 2023
 Planting date: September 27, 2022
 Soil Type: Rago and kuma silt loams
 GPS Coordinates: 40.83667,-102.373352

Trial Comments: Planted 1.5" deep into good moisture and heavy corn residue. Very dry conditions in fall, emergence and stands were average with some areas of spotty emergence. Wheat stem sawfly present but minimal lodging was observed at harvest. Radar estimates showed the trial received 15" of precipitation and 3,770 growing degree-days (GDD) (base 32°F) from January 1st through July 25th.

*The data included in this table may not be republished without permission.
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