



2023 Dryland Winter Wheat Variety Performance Trial at Burlington

Variety	Brand/Source	Market Class	Grain Yield ^a bu/ac	Test Weight lb/bu	Lodging score (1-9) ^b	Protein percent	Plant Height in
CO19D087R	Colorado State University exp.	HRW	107.0	56	1	11.3	31
LCS Steel AX	Limagrain	HRW	107.0	60	0	11.9	36
CO19S135W	Colorado State University exp.	HWW	103.5	59	1	11.8	35
CO19S129W	Colorado State University exp.	HWW	103.0	59	0	11.4	34
Valley	Frenchman Valley Coop	HWW	103.0	59	0	11.2	37
Monarch	PlainsGold	HWW	103.0	59	0	11.1	36
Snowmass 2.0	PlainsGold	HWW	101.5	58	0	11.5	35
CO19393R	Colorado State University exp.	HRW	101.0	56	1	11.3	40
CO19410R	Colorado State University exp.	HRW	100.0	57	1	11.2	36
LCS Atomic AX	Limagrain	HRW	100.0	60	0	11.6	36
Crescent AX	PlainsGold	HRW	99.5	60	3	11.3	36
KS Big Bow	Kansas Wheat Alliance	HWW	99.5	59	0	11.4	34
CO20D108R	Colorado State University exp.	HRW	99.0	59	0	11.2	34
CO18D297R	Colorado State University exp.	HRW	98.0	61	1	11.4	36
CP7017AX	CROPLAN	HRW	97.0	60	1	11.0	36
CO18042RA	Colorado State University exp.	HRW	96.0	57	2	11.2	35
Brawl CL Plus	PlainsGold	HRW	95.0	60	1	12.0	37
CO19S085W	Colorado State University exp.	HWW	94.0	57	0	11.3	37
CO18D007W	Colorado State University exp.	HWW	93.0	56	0	10.6	35
CO19D304R	Colorado State University exp.	HRW	92.5	57	1	10.8	37
Sunshine	PlainsGold	HWW	91.0	58	0	11.5	34
Byrd CL Plus	PlainsGold	HRW	91.0	57	1	11.1	38
Avery	PlainsGold	HRW	91.0	57	2	10.9	36
Byrd	PlainsGold	HRW	90.5	58	0	11.0	36
CO200037R	Colorado State University exp.	HRW	90.5	58	0	11.3	33
Langin	PlainsGold	HRW	88.5	57	5	10.8	35
Canvas	PlainsGold	HRW	87.5	58	0	11.2	34
Amplify SF	PlainsGold	HRW	85.5	57	1	11.5	37
Guardian	PlainsGold	HRW	85.5	59	1	11.8	37
CO18035RA	Colorado State University exp.	HRW	85.0	58	4	11.0	35
CO19S053R	Colorado State University exp.	HRW	84.5	58	2	10.9	34
Hatcher	PlainsGold	HRW	84.5	57	2	11.4	35
MS Maverick	Meridian Seeds	HRW	81.0	57	1	12.6	32
Breck	PlainsGold	HWW	77.0	57	1	11.4	35
Whistler	PlainsGold	HRW	75.0	53	5	11.3	40
Kivari AX	PlainsGold	HRW	75.0	55	2	10.1	38
Fortify SF	PlainsGold	HRW	74.5	57	2	10.6	34
Windom SF	PlainsGold	HWW	64.5	59	2	11.2	30
AP Roadrunner	AgriPro	HRW	63.0	55	0	10.9	32
Ray	PlainsGold	HRW	60.5	54	0	11.1	41
Average			90.5	58	1	11.3	35
			^c LSD (0.30)	5.0	1		
			^c LSD (0.05)	9.0	2		
Coefficient of Variation (CV)			6.9				

^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).

^bLodging score: 1 equals no lodging and 9 is severe lodging. Scores are averaged across three replicates.

^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: Hinkhouse/Yahn

Harvest date: July 13, 2023

Planting date: September 26, 2022

Soil Type: Kuma-Keith silt loams

GPS Coordinates: 39.31518,-102.258

Trial Comments: Planted about 2" deep into tilled corn residue. Excellent fall emergence. Trial had lush spring growth. Wheat stem sawfly was present at low levels, but lodging was due to high yield. Radar estimates showed the trial received 13.2" of precipitation and 3,367 growing degree-days (GDD) (base 32°F) from January 1st through July 13th.