

## 2023 Dryland Winter Wheat Variety Performance Trial at Genoa

Variety	Brand/Source	Market Class	Grain Yield <sup>a</sup> bu/ac	Test Weight lb/bu	Plant	
					Height in	Protein percent
CO19410R	Colorado State University exp.	HRW	<b>69.0</b>	<b>58</b>	30	11.6
Steamboat	Crop Research Foundation of WY	HRW	63.5	<b>58</b>	30	10.9
CO18D297R	Colorado State University exp.	HRW	62.0	<b>58</b>	36	12.0
Langin	PlainsGold	HRW	62.0	56	28	13.2
Whistler	PlainsGold	HRW	62.0	54	33	9.3
CO18042RA	Colorado State University exp.	HRW	61.0	<b>57</b>	32	9.9
Monarch	PlainsGold	<b>HWW</b>	60.5	56	27	10.9
Crescent AX	PlainsGold	HRW	60.0	56	32	12.5
AP Solid	AgriPro	HRW	59.5	56	32	10.4
Amplify SF	PlainsGold	HRW	58.5	56	30	13.3
CO19393R	Colorado State University exp.	HRW	58.5	56	33	13.0
Sunshine	PlainsGold	<b>HWW</b>	58.5	54	28	12.3
CO19S053R	Colorado State University exp.	HRW	57.0	55	32	12.0
Byrd CL Plus	PlainsGold	HRW	56.5	56	33	10.3
CO18035RA	Colorado State University exp.	HRW	56.5	55	27	14.2
CO19D087R	Colorado State University exp.	HRW	56.5	56	25	12.8
LCS Steel AX	Limagrain	HRW	56.5	56	29	10.7
Byrd	PlainsGold	HRW	56.0	56	34	9.5
Kivari AX	PlainsGold	HRW	56.0	53	26	11.9
CO19S085W	Colorado State University exp.	<b>HWW</b>	55.5	56	29	14.4
Hatcher	PlainsGold	HRW	55.5	53	33	9.3
MS Maverick	Meridian Seeds	HRW	55.0	54	30	10.9
CO19D304R	Colorado State University exp.	HRW	54.5	53	33	11.9
KS Territory	Kansas Wheat Alliance	HRW	54.0	54	27	11.0
Snowmass 2.0	PlainsGold	<b>HWW</b>	54.0	55	30	10.3
Avery	PlainsGold	HRW	53.5	55	34	9.7
Breck	PlainsGold	<b>HWW</b>	53.5	55	27	9.7
CO18D007W	Colorado State University exp.	<b>HWW</b>	53.5	56	28	9.9
CO19S135W	Colorado State University exp.	<b>HWW</b>	53.5	56	28	11.3
CO20D108R	Colorado State University exp.	HRW	53.0	55	30	9.7
CP7017AX	CROPLAN	HRW	53.0	56	27	10.6
Guardian	PlainsGold	HRW	53.0	<b>57</b>	33	11.7
PSB13NEDH-14-83W	University of Nebraska-Lincoln exp.	<b>HWW</b>	52.5	<b>58</b>	36	10.0
Windom SF	PlainsGold	<b>HWW</b>	52.5	51	32	9.2
Brawl CL Plus	PlainsGold	HRW	50.5	56	28	10.9
CO200037R	Colorado State University exp.	HRW	50.5	54	29	10.8
CO19S129W	Colorado State University exp.	<b>HWW</b>	49.5	56	29	9.4
LCS Atomic AX	Limagrain	HRW	48.0	<b>57</b>	31	12.0
Fortify SF	PlainsGold	HRW	47.5	56	34	9.9
Canvas	PlainsGold	HRW	46.0	54	31	11.2
Valley	Frenchman Valley Coop	<b>HWW</b>	44.5	56	26	13.3
AP Bigfoot	AgriPro	HRW	44.0	56	29	10.1
AP Roadrunner	AgriPro	HRW	41.5	53	29	11.5
Ray	PlainsGold	HRW	41.5	47	34	13.0
NHH17450	University of Nebraska-Lincoln exp.	HRW	37.5	55	36	13.2
<b>Average</b>			<b>54.0</b>	<b>55</b>	<b>30</b>	<b>11.2</b>
			<sup>b</sup> LSD (0.30)	5.0	1	
			<sup>b</sup> LSD (0.05)	9.5	2	
Coefficient of Variation (CV)			16.0			

<sup>a</sup>Yield adjusted to 12% moisture and varieties ranked by yield (highest to lowest). Variety yields in bold are in the top LSD group (0.30).

<sup>b</sup>Farmers 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: Homestead Farms  
 Harvest date: July 27, 2023  
 Planting date: September 20, 2022  
 Soil Type: Weld silt loam  
 GPS Coordinates: 39.359785,-103.510437  
 Trial Comments: Planted 2" deep into good moisture and sunflower residue. Dry conditions in fall, emergence and stands were above-average. Wheat stem sawfly present but minimal lodging was observed at harvest. Minor hail damage received in July. Radar estimates showed the trial received 18" of precipitation and 3,611 growing degree-days (GDD) (base 32°F) from January 1st through July 26th.

*The data included in this table may not be republished without permission.  
 Contact Sally Jones-Diamond (sally.jones@colostate.edu)*