

## 2023 Dryland Winter Wheat Variety Performance Trial at Yuma

Variety	Brand/Source	Market Class	Grain Yield <sup>a</sup>	Test Weight	Protein	Plant Height
			bu/ac	lb/bu	percent	in
CO19410R	Colorado State University exp.	HRW	<b>71.5</b>	<b>60</b>	10.0	34
Monarch	PlainsGold	<b>HWW</b>	<b>71.0</b>	58	9.9	33
AP Solid	AgriPro	HRW	68.5	58	11.0	32
CO18D007W	Colorado State University exp.	<b>HWW</b>	68.5	59	9.3	33
AP Bigfoot	AgriPro	HRW	68.0	<b>60</b>	10.4	34
Fortify SF	PlainsGold	HRW	67.5	58	10.8	35
Steamboat	Crop Research Foundation of WY	HRW	67.5	<b>60</b>	10.1	37
CO20D108R	Colorado State University exp.	HRW	67.0	58	9.9	32
Valley	Frenchman Valley Coop	<b>HWW</b>	67.0	59	10.3	36
Whistler	PlainsGold	HRW	67.0	58	9.8	37
CO19S135W	Colorado State University exp.	<b>HWW</b>	66.5	59	10.1	31
CP7017AX	CROPLAN	HRW	65.5	<b>60</b>	10.4	30
CO19S129W	Colorado State University exp.	<b>HWW</b>	65.0	59	10.6	32
Kivari AX	PlainsGold	HRW	65.0	57	9.8	31
Avery	PlainsGold	HRW	64.5	58	9.9	36
CO18D297R	Colorado State University exp.	HRW	64.5	58	10.8	33
CO19D304R	Colorado State University exp.	HRW	64.5	57	10.2	34
KS Territory	Kansas Wheat Alliance	HRW	64.5	58	10.1	32
Amplify SF	PlainsGold	HRW	64.0	59	10.5	35
CO19393R	Colorado State University exp.	HRW	63.5	58	10.2	35
CO19S053R	Colorado State University exp.	HRW	63.5	58	10.1	33
Breck	PlainsGold	<b>HWW</b>	63.0	<b>61</b>	10.3	35
CO18035RA	Colorado State University exp.	HRW	63.0	58	9.5	32
PSB13NEDH-14-83W	University of Nebraska-Lincoln exp.	<b>HWW</b>	63.0	<b>60</b>	9.5	36
Sunshine	PlainsGold	<b>HWW</b>	62.5	58	10.2	31
Snowmass 2.0	PlainsGold	<b>HWW</b>	62.0	58	10.2	28
Byrd	PlainsGold	HRW	61.5	59	9.9	34
Byrd CL Plus	PlainsGold	HRW	61.5	58	9.9	36
Windom SF	PlainsGold	<b>HWW</b>	61.5	<b>60</b>	9.7	30
AP Roadrunner	AgriPro	HRW	61.0	56	10.8	34
CO19S085W	Colorado State University exp.	<b>HWW</b>	61.0	58	10.2	31
Langin	PlainsGold	HRW	61.0	57	9.9	30
CO200037R	Colorado State University exp.	HRW	60.5	57	10.6	36
Canvas	PlainsGold	HRW	60.0	57	10.7	35
MS Maverick	Meridian Seeds	HRW	60.0	<b>60</b>	10.2	31
CO18042RA	Colorado State University exp.	HRW	59.5	58	10.1	33
Crescent AX	PlainsGold	HRW	59.0	59	10.7	36
CO19D087R	Colorado State University exp.	HRW	58.5	55	10.0	30
Hatcher	PlainsGold	HRW	58.5	57	10.1	33
LCS Steel AX	Limagrain	HRW	58.0	58	10.2	34
Guardian	PlainsGold	HRW	57.5	<b>60</b>	10.2	32
Brawl CL Plus	PlainsGold	HRW	57.0	58	11.5	32
LCS Atomic AX	Limagrain	HRW	56.0	58	10.3	34
Ray	PlainsGold	HRW	52.5	52	11.7	41
NHH17450	University of Nebraska-Lincoln exp.	HRW	45.0	56	12.0	37
<b>Average</b>			<b>62.5</b>	<b>58</b>	<b>10.3</b>	<b>33</b>
			<sup>b</sup> LSD (0.30)	2.0	1	
			<sup>b</sup> LSD (0.05)	4.5	1	
Coefficient of Variation (CV)			7.0			

<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: Andrews Brothers Farms  
 Harvest date: July 17, 2023  
 Planting date: September 19, 2022  
 Soil Type: Platner loam  
 GPS Coordinates: 40.186218,-102.658997  
 Trial Comments: Planted 1.5" deep into excellent moisture and heavy stripper-header wheat residue. Fall emergence and growth was good. Trial showed winterkill in some varieties in early spring and slow green-up due to residue. Wheat stem sawfly present but minimal lodging was observed at harvest. Minor hail damage in early July. Radar estimates showed the trial received 15.4" of precipitation and 3,338 growing degree-days (GDD) (base 32°F) from January 1st through July 16th.

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