

## 2023 Dryland Winter Wheat Variety Performance Trial at Roggen

Variety	Brand/Source	Market Class	Grain	Test	Lodging	Protein	Plant
			Yield <sup>a</sup> bu/ac	Weight lb/bu			
CO19393R	Colorado State University exp.	HRW	<b>87.5</b>	62	3	8.9	32
Monarch	PlainsGold	<b>HWW</b>	83.5	63	1	9.6	28
Langin	PlainsGold	HRW	83.0	62	5	10.2	32
CO19D087R	Colorado State University exp.	HRW	82.5	62	3	9.7	31
CO18D007W	Colorado State University exp.	<b>HWW</b>	82.0	63	2	9.9	27
CO20D108R	Colorado State University exp.	HRW	82.0	63	1	10.4	32
CO19S135W	Colorado State University exp.	<b>HWW</b>	82.0	63	1	9.2	31
Snowmass 2.0	PlainsGold	<b>HWW</b>	81.5	62	1	9.6	29
Kivari AX	PlainsGold	HRW	81.5	62	4	8.6	31
Valley	Frenchman Valley Coop	<b>HWW</b>	81.0	63	1	9.5	29
Whistler	PlainsGold	HRW	81.0	63	5	8.7	32
CO18035RA	Colorado State University exp.	HRW	80.5	63	4	10.1	28
Steamboat	Crop Research Foundation of WY	HRW	80.0	<b>64</b>	1	10.0	35
Guardian	PlainsGold	HRW	80.0	<b>64</b>	1	9.4	27
CO19S085W	Colorado State University exp.	<b>HWW</b>	79.5	63	1	9.9	30
CO19D304R	Colorado State University exp.	HRW	79.5	61	6	9.1	31
Avery	PlainsGold	HRW	79.0	63	4	8.9	30
Byrd	PlainsGold	HRW	79.0	63	4	10.0	32
CO19410R	Colorado State University exp.	HRW	78.5	<b>64</b>	1	9.5	32
CO18D297R	Colorado State University exp.	HRW	78.5	63	3	10.0	32
CO18042RA	Colorado State University exp.	HRW	78.5	63	2	8.8	36
Amplify SF	PlainsGold	HRW	78.0	<b>64</b>	1	9.9	33
Byrd CL Plus	PlainsGold	HRW	78.0	63	2	10.0	31
CP7017AX	CROPLAN	HRW	77.5	<b>64</b>	2	9.7	28
CO19S053R	Colorado State University exp.	HRW	77.5	<b>64</b>	2	9.0	31
Canvas	PlainsGold	HRW	77.0	63	1	9.8	30
Crescent AX	PlainsGold	HRW	76.0	63	3	9.1	32
LCS Atomic AX	Limagrain	HRW	75.5	63	1	9.4	30
Sunshine	PlainsGold	<b>HWW</b>	75.0	62	1	9.8	32
AP Bigfoot	AgriPro	HRW	74.5	63	1	9.8	31
PSB13NEDH-14-83W	University of Nebraska-Lincoln exp.	<b>HWW</b>	74.5	63	1	10.0	33
CO19S129W	Colorado State University exp.	<b>HWW</b>	74.5	63	1	9.7	31
KS Territory	Kansas Wheat Alliance	HRW	74.5	62	1	9.6	30
AP Roadrunner	AgriPro	HRW	74.5	62	1	9.7	32
Hatcher	PlainsGold	HRW	74.5	62	3	9.4	28
LCS Steel AX	Limagrain	HRW	74.0	<b>64</b>	1	10.4	35
AP Solid	AgriPro	HRW	74.0	63	1	11.2	30
Fortify SF	PlainsGold	HRW	74.0	63	1	10.0	31
Breck	PlainsGold	<b>HWW</b>	73.0	63	3	10.2	38
MS Maverick	Meridian Seeds	HRW	73.0	62	4	10.1	31
CO200037R	Colorado State University exp.	HRW	72.0	63	1	10.2	30
Brawl CL Plus	PlainsGold	HRW	70.0	<b>64</b>	1	10.7	29
Windom SF	PlainsGold	<b>HWW</b>	68.0	60	3	10.3	30
NHH17450	University of Nebraska-Lincoln exp.	HRW	66.5	63	2	10.1	32
Ray	PlainsGold	HRW	66.0	59	8	10.8	36
<b>Average</b>			<b>77.0</b>	<b>63</b>	<b>2</b>	<b>9.8</b>	<b>31</b>
			<sup>b</sup> LSD (0.30)	3.0	1		
			<sup>b</sup> LSD (0.05)	5.0	1		
Coefficient of Variation (CV)			4.7				

<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: Cooksey Family Farms  
 Harvest date: July 19, 2023  
 Planting date: September 15, 2022  
 Soil Type: Weld loam  
 GPS Coordinates: 40.07075, -104.28144  
 Trial Comments: Planted about 2" deep into good moisture and wheat residue. Very good 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 19.1" of precipitation and 3,490 growing degree-days (GDD) (base 32°F) from January 1st through July 18th.

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