



2024 Dryland Winter Wheat Variety Performance Trial at Orchard



Variety	Brand/Source	Market Class	Grain Yield ^a bu/ac	Test Weight lb/bu	Heading days from trial avg. ^b	Protein percent	Plant Height in
Steamboat	Crop Research Foundation of WY	HRW	67.0	62.0	1	11.2	29
Crescent AX	PlainsGold	HRW	63.5	58.0	-3	12.3	28
AP Sunbird	AgriPro	HRW	62.0	60.0	-3	11.3	26
Kivari AX	PlainsGold	HRW	61.5	57.5	0	11.7	28
CO19D087R	Colorado State University exp.	HRW	61.0	58.0	-3	11.2	22
AP Bigfoot	AgriPro	HRW	60.5	59.5	-2	11.4	26
Byrd	PlainsGold	HRW	60.5	57.5	-1	11.7	28
Byrd CL Plus	PlainsGold	HRW	60.0	58.5	1	11.0	26
Canvas	PlainsGold	HRW	60.0	57.5	0	11.6	25
Langin	PlainsGold	HRW	60.0	57.5	-4	10.7	25
Snowmass 2.0	PlainsGold	HWW	60.0	58.0	-2	12.3	26
Breck	PlainsGold	HWW	59.5	59.0	-1	12.1	26
CO19410R	Colorado State University exp.	HRW	59.5	58.5	-1	11.2	25
CO20022RC	Colorado State University exp.	HRW	59.5	58.0	1	12.2	25
AP Solid	AgriPro	HRW	59.0	60.5	3	12.3	27
Avery	PlainsGold	HRW	59.0	58.5	1	10.4	27
CO18042RA	Colorado State University exp.	HRW	59.0	57.5	-3	9.5	26
CO18D007W	Colorado State University exp.	HWW	58.0	58.5	-1	11.2	26
Monarch	PlainsGold	HWW	58.0	57.5	0	11.4	26
CO19S129W	Colorado State University exp.	HWW	56.0	58.5	1	11.7	27
CO200037R	Colorado State University exp.	HRW	56.0	57.5	0	13.0	26
Amplify SF	PlainsGold	HRW	55.5	59.0	1	11.4	27
CO20D108R	Colorado State University exp.	HRW	55.5	58.5	1	11.3	25
CP7017AX	CROPLAN	HRW	55.0	58.0	-1	12.9	27
CO18D297R	Colorado State University exp.	HRW	54.5	59.0	1	12.0	27
CO20SFD020R	Colorado State University exp.	HRW	54.5	60.5	2	12.6	24
NHH19668	NU Horizon Genetics	HRW	54.5	60.5	-3	12.1	25
Whistler	PlainsGold	HRW	54.5	57.5	2	12.2	28
CO20SF141R	Colorado State University exp.	HRW	54.0	55.5	2	11.5	27
Fortify SF	PlainsGold	HRW	54.0	58.5	0	12.7	26
Guardian	PlainsGold	HRW	54.0	58.5	0	11.8	26
CO20SFD019R	Colorado State University exp.	HRW	53.0	61.0	-4	12.1	25
CO19393R	Colorado State University exp.	HRW	52.5	58.5	1	13.2	26
LCS Atomic AX	Limagrain	HRW	52.5	59.5	0	12.7	26
LCS Radar	Limagrain	HRW	52.5	57.5	-3	13.3	25
CO19D304R	Colorado State University exp.	HRW	52.0	56.0	2	10.9	29
CP7220	CROPLAN	HRW	52.0	58.0	0	13.1	25
KS Territory	Kansas Wheat Alliance	HRW	52.0	56.0	1	13.1	27
CO20SF014W	Colorado State University exp.	HWW	51.0	53.5	0	12.4	28
LCS White Lightning	Limagrain	HWW	51.0	60.0	-1	11.1	26
Valley	Frenchman Valley Coop	HWW	51.0	58.5	1	12.2	25
Windom SF	PlainsGold	HWW	51.0	53.5	-1	12.4	23
CO18035RA	Colorado State University exp.	HRW	49.5	57.0	0	10.9	30
CO21SF191RA	Colorado State University exp.	HRW	49.0	57.5	2	12.0	26
LCS Steel AX	Limagrain	HRW	48.5	59.5	4	10.8	27
CO21SF263RA	Colorado State University exp.	HRW	40.5	57.5	4	13.0	26
Average			55.5	58.0	May 24, 2024	11.9	26
			^c LSD (0.30)	2.9	0.5		
			^c LSD (0.05)	5.5	0.9		
Coefficient of Variation (CV)			8.2				

^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).

^bVarieties with positive values headed later than the trial average and varieties with negative values headed earlier than the trial average.

^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: Wickstrom Farms
 Harvest date: July 2, 2024
 Planting date: September 21, 2023
 Soil Type: Ascalon sandy loam
 GPS Coordinates: 40.52082, -104.07153
 Trial Comments: Planted 1.5" deep into moisture and millet residue. Fall emergence and growth was good. Timely rainfall received in spring. Pythium was found in white heads (sporadic) in June. Moderate wheat stem sawfly pressure. Radar estimates showed the trial received 7.3" of precipitation and 3,253 growing degree-days (GDD) (base 32°F) from January 1st through July 2nd.

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