

Variety Performance Trial at Orchard

Variety	Brand/Source	Market Class	Test		Sawfly Cutting	Plant Height	
			Grain Yield ^a	Weight			
			bu/ac	lb/bu	percent	rating (1-9) ^c	in
CO22SF003R	Colorado State University exp.	HRW	42.6	58.4	14.1	2	26
CO21SFD0950R	Colorado State University exp.	HRW	41.6	58.5	14.9	1	25
CO22SF039M	Colorado State University exp.	HRW	41.1	59.8	15.7	1	25
Windom SF	PlainsGold	HWW	37.8	59.5	14.3	1	25
WB4733CLP	WestBred	HRW	37.3	59.1	16.2	1	24
AP Solid	AgriPro	HRW	37.3	57.4	15.3	1	24
CO21SF191RA	Colorado State University exp.	HRW	36.7	58.2	14.9	2	26
Whistler	PlainsGold	HRW	36.5	59.2	14.1	3	27
Kivari AX	PlainsGold	HRW	36.0	60.8	13.8	2	26
WB4444	WestBred	HRW	35.5	58.9	16.3	1	27
CO21SF263RA	Colorado State University exp.	HRW	33.5	59.7	14.9	2	27
Breck	PlainsGold	HWW	33.0	60.6	15.6	4	23
Amplify SF	PlainsGold	HRW	33.0	59.5	15.4	1	24
CO21SF226R	Colorado State University exp.	HRW	32.3	60.9	14.5	1	24
CO22SF047RA	Colorado State University exp.	HRW	31.8	59.9	13.2	1	28
CP7869	Croplan	HRW	30.9	59.4	15.3	4	26
CO20022RC	Colorado State University exp.	HRW	30.3	60.6	15.1	4	25
KS Homesteader CL+	Kansas Wheat Alliance	HRW	30.0	59.8	15.9	4	27
CO22SF008WC	Colorado State University exp.	HWW	29.3	59.1	14.8	3	24
Avery	PlainsGold	HRW	29.1	61.0	15.0	4	27
Canvas	PlainsGold	HRW	28.8	62.7	12.7	3	27
Valley	Frenchman Valley Coop	HWW	28.6	59.0	15.2	4	25
CO200037R	Colorado State University exp.	HRW	28.4	59.2	15.0	3	24
CO22SFD101R	Colorado State University exp.	HRW	27.1	58.8	15.0	1	23
CO19410R	Colorado State University exp.	HRW	27.0	59.9	15.7	3	25
CO20D108R	Colorado State University exp.	HRW	26.4	59.8	14.3	3	24
Fortify SF	PlainsGold	HRW	26.3	59.4	14.9	1	26
MT WarCat	Montana State University	HRW	26.3	58.6	15.3	1	23
AP Bigfoot	AgriPro	HRW	26.2	57.7	15.6	4	23
CO20SFD020R	Colorado State University exp.	HRW	25.9	61.3	14.6	1	23
Monarch	PlainsGold	HWW	24.9	58.2	13.2	3	24
Sheridan	PlainsGold	HRW	24.6	58.4	16.0	3	27
AP Sunbird	AgriPro	HRW	24.2	59.3	15.9	3	22
Guardian	PlainsGold	HRW	24.1	60.4	15.2	5	25
Byrd CL Plus	PlainsGold	HRW	24.0	59.9	14.3	4	26
Crescent AX	PlainsGold	HRW	23.8	57.5	15.3	4	25
Byrd	PlainsGold	HRW	22.9	58.8	15.9	3	23
KS Territory	Kansas Wheat Alliance	HRW	22.8	58.8	14.5	4	27
AR Iron Eagle 22AX	Armor	HRW	22.8	59.6	14.0	3	24
CP7017AX	Croplan	HRW	22.8	59.8	14.9	3	24
AR Turret 25	Armor	HRW	22.7	58.2	15.1	3	25
CO18042RA	Colorado State University exp.	HRW	21.8	58.4	15.0	2	23
Snowmass 2.0	PlainsGold	HWW	21.8	58.2	14.9	4	26
CO20D036R	Colorado State University exp.	HRW	21.4	57.1	15.7	3	26
Telluride	PlainsGold	HWW	20.5	58.6	13.1	3	25
KS Bill Snyder	Kansas Wheat Alliance	HRW	19.7	59.3	15.6	3	23
NHH19668	University of Nebraska-Lincoln exp.	HRW	19.0	59.2	15.5	4	24
CO21D1790R	Colorado State University exp.	HRW	18.7	60.4	-	1	23
CP7909	Croplan	HRW	18.6	58.6	14.8	3	24
CO19D087R	Colorado State University exp.	HRW	18.4	58.6	14.1	3	25
Langin	PlainsGold	HRW	17.8	59.0	15.7	3	25
CO20SFD019R	Colorado State University exp.	HRW	14.5	48.7	16.7	1	21
Average			27.5	59.0	15.0	3	25
^d LSD (0.30)			3.4	1.2			
^d LSD (0.05)			6.4	2.2			
Coefficient of Variation (CV)			11.4	1.3			

^aGrain yield adjusted to 12% moisture and varieties ranked by yield (highest to lowest). Variety yield values in bold are in the top LSD

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

^cWheat Stem Sawfly cutting score: 1 equals no cutting and 9 is severe cutting. Scores are averaged across three replicates.

^dFarmers 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: Cary and Todd Wickstrom

Harvest date: July 18, 2025

Planting date: September 27, 2024

Soil Type: Briggsdale fine sandy loam

GPS Coordinates: 40.5110819, -104.071168

Trial Comments: Planted about 1" deep, into dry ground and no-till proso residue. Fall emergence and stands were below-average with some areas of poor emergence. Some spring emergence helped with final stand. Wheat stem sawfly pressure was moderate and sawfly induced lodging/cutting scores have been included. Moderate damage from late season hail.

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