

2025 Dryland Winter Wheat Variety Performance Trial at Akron

Variety	Brand/Source	Market Class	Grain Yield ^a	Test Weight	Protein	Heading	Yellowing Disease	Plant Height
			bu/ac	lb/bu	percent	days from trial avg. ^b	scale (1-9) ^c	in
Whistler	PlainsGold	HRW	56.7	55.1	9.8	0	1	34
KS Territory	Kansas Wheat Alliance	HRW	53.4	56.7	10.1	0	1	32
KS Homesteader CL+	Kansas Wheat Alliance	HRW	52.6	54.7	11.4	-1	2	34
CO200037R	Colorado State University exp.	HRW	51.9	57.4	10.7	1	1	31
CO19410R	Colorado State University exp.	HRW	50.8	53.6	9.7	0	1	29
Byrd	PlainsGold	HRW	50.0	53.7	10.4	0	4	32
CO20D036R	Colorado State University exp.	HRW	49.9	55.2	9.8	-3	2	27
Guardian	PlainsGold	HRW	49.6	56.9	10.5	0	4	28
AP Solid	AgriPro	HRW	49.5	52.5	11.5	3	2	29
AP Bigfoot	AgriPro	HRW	49.1	53.9	10.7	0	2	26
CO20022RC	Colorado State University exp.	HRW	49.0	55.1	10.6	1	1	30
Avery	PlainsGold	HRW	48.8	53.5	10.3	0	1	30
CO22SF047RA	Colorado State University exp.	HRW	48.7	54.7	10.3	-1	5	31
CP7017AX	Croplan	HRW	48.6	55.7	10.2	0	2	29
CO21SFD0950R	Colorado State University exp.	HRW	48.5	48.8	10.7	3	2	30
AP Sunbird	AgriPro	HRW	48.4	54.3	10.5	0	1	30
Breck	PlainsGold	HWW	48.2	55.1	10.3	-1	2	28
Crescent AX	PlainsGold	HRW	48.0	53.6	10.1	0	2	31
AR Iron Eagle 22AX	Armor	HRW	47.7	55.3	10.1	0	2	27
Snowmass 2.0	PlainsGold	HWW	47.4	54.0	9.9	-2	4	27
Langin	PlainsGold	HRW	47.1	53.7	9.7	-2	3	27
Monarch	PlainsGold	HWW	47.1	54.4	10.2	0	2	27
CO19D087R	Colorado State University exp.	HRW	46.3	52.8	10.3	-1	2	28
CO20SFD020R	Colorado State University exp.	HRW	46.0	53.7	10.4	0	2	30
CO20D108R	Colorado State University exp.	HRW	46.0	55.8	10.0	1	1	29
Canvas	PlainsGold	HRW	45.8	55.8	10.3	0	2	27
Byrd CL Plus	PlainsGold	HRW	45.8	53.6	10.3	1	2	28
CO22SF003R	Colorado State University exp.	HRW	45.3	52.6	10.7	0	5	30
CO21D1790R	Colorado State University exp.	HRW	44.4	54.5	10.0	-1	2	29
CO21SF226R	Colorado State University exp.	HRW	44.3	55.4	10.9	1	4	31
CO22SF008WC	Colorado State University exp.	HWW	43.6	50.5	10.5	2	2	30
Fortify SF	PlainsGold	HRW	43.0	52.6	11.2	-1	2	28
CO21SF191RA	Colorado State University exp.	HRW	42.6	51.2	11.7	3	2	28
KS Bill Snyder	Kansas Wheat Alliance	HRW	42.4	52.8	11.1	0	2	27
Windom SF	PlainsGold	HWW	42.3	52.9	12.3	-1	7	29
Valley	Frenchman Valley Coop	HWW	41.8	54.5	10.4	0	2	31
Telluride	PlainsGold	HWW	41.6	55.4	9.9	0	1	29
Sheridan	PlainsGold	HRW	40.7	54.6	11.4	1	3	30
CO20SFD019R	Colorado State University exp.	HRW	39.8	51.6	11.0	-2	2	27
Amplify SF	PlainsGold	HRW	39.2	53.6	11.4	0	7	31
CO18042RA	Colorado State University exp.	HRW	38.9	53.6	11.8	0	2	30
WB4444	WestBred	HRW	38.7	48.9	12.8	1	3	26
CO21SF263RA	Colorado State University exp.	HRW	38.5	50.4	12.4	4	2	30
WB4733CLP	WestBred	HRW	38.1	51.5	11.9	2	8	27
NHH19668	University of Nebraska-Lincoln exp.	HRW	37.7	52.4	11.6	-2	3	28
Kivari AX	PlainsGold	HRW	37.0	51.6	10.7	0	7	28
CO22SF039M	Colorado State University exp.	HRW	36.6	54.5	12.7	3	2	28
CO22SFD101R	Colorado State University exp.	HRW	36.1	52.9	11.3	3	3	30
CP7869	Croplan	HRW	34.7	50.6	11.1	-3	7	27
AR Turret 25	Armor	HRW	34.7	50.5	11.7	-1	7	28
CP7909	Croplan	HRW	25.0	47.5	12.3	-1	8	28
MT WarCat	Montana State University	HRW	21.8	45.8	13.9	8	8	27
Average			44.0	53.5	10.9	May 20, 2025	3	29
^d LSD (0.30)			1.9	1.1				
^d LSD (0.05)			3.7	2.1				
Coefficient of Variation (CV)			5.6	2.2				

^aGrain yield adjusted to 12% moisture and varieties ranked by yield (highest to lowest). Variety yield values 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.

^cYellowing disease score reflects overall reaction (1=resistant to 9=susceptible) of varieties to this disease that seems to be associated with Triticum mosaic virus (TriMV).

^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: Akron USDA-ARS Central Great Plains Research Center

Harvest date: July 2, 2025

Planting date: September 26, 2024

Soil Type: Weld silt loam

GPS Coordinates: 40.1499108, -103.1371728

Trial Comments: Planted 1.5" deep, into moisture and no-till millet residue. Fall emergence and stands were excellent, good moisture through most of fall and winter. Good growth in the spring. Very heavy yellowing disease pressure in the spring caused significant yield losses in varieties without tolerance. Minor freeze damage from late April frost and around 10% yield loss from hail in June.

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