



2023 Irrigated Winter Wheat Variety Performance Trial at Wiggins

Variety	Brand/Source	Market Class	Grain Yield ^a bu/ac	Test Weight lb/bu	Lodging score (1-9) ^b	Protein percent
CO18D297R	Colorado State University exp.	HRW	109.0	61	2	12.0
CP7017AX	CROPLAN	HRW	108.0	59	2	11.6
Monarch	PlainsGold	HWW	105.5	60	1	10.9
Amplify SF	PlainsGold	HRW	103.0	58	3	12.1
Byrd CL Plus	PlainsGold	HRW	103.0	58	2	11.2
Canvas	PlainsGold	HRW	102.0	58	1	11.8
Guardian	PlainsGold	HRW	101.5	60	1	12.3
Crescent AX	PlainsGold	HRW	100.5	60	7	12.0
LCS Steel AX	Limagrain	HRW	98.5	59	2	12.2
Valley	Frenchman Valley Coop	HWW	98.5	59	3	11.3
CO18035RA	Colorado State University exp.	HRW	97.0	57	4	11.3
CP7266AX	CROPLAN	HRW	96.5	60	8	12.1
CO18D007W	Colorado State University exp.	HWW	96.5	55	3	11.5
LCS Atomic AX	Limagrain	HRW	96.5	60	4	12.0
Windom SF	PlainsGold	HWW	93.5	56	2	11.7
CO19D304R	Colorado State University exp.	HRW	93.0	58	8	11.6
Snowmass 2.0	PlainsGold	HWW	92.0	55	6	12.0
Breck	PlainsGold	HWW	91.0	58	1	12.1
SY Wolverine	AgriPro	HRW	91.0	57	1	12.4
CO18042RA	Colorado State University exp.	HRW	90.5	57	9	11.9
Brawl CL Plus	PlainsGold	HRW	89.0	59	3	13.3
Kivari AX	PlainsGold	HRW	82.5	54	9	11.1
Ray	PlainsGold	HRW	81.0	49	1	11.3
Average			96.5	58	4	11.8
°LSD (0.30)			5.0	1		
°LSD (0.05)			9.5	2		
Coefficient of Variation (CV)			5.9			

^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).

^bLodging score: 1 equals no lodging and 9 is severe lodging. Scores from one replicate.

^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: Cooksey Farms, LLC
 Harvest date: July 28, 2023
 Planting date: October 19, 2022
 Soil Type: Truckton sandy loam
 GPS Coordinates: 39.9953, -104.10392
 Trial Comments: Planted about 1.5" deep into dry bean residue. Field had one inch of water applied immediately after planting. Good fall emergence and very late to green-up in the spring due to late planting date. Wheat stem sawfly was present at low levels, but lodging was due to high yield. Radar estimates showed the trial received 20.5" of precipitation in addition to irrigation and 3,847 growing degree-days (GDD) (base 32°F) from January 1st through July 27th.

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