



2024 Irrigated Winter Wheat Variety Performance Trial at Burlington

Variety	Brand/Source	Market Class	Grain Yield ^a		Lodging score (1-9) ^b	Plant Height in	Protein percent
			bu/ac	lb/bu			
CO19D304R	Colorado State University exp.	HRW	100.5	57.0	1	25	14.1
Crescent AX	PlainsGold	HRW	100.5	56.5	8	23	13.7
Canvas	PlainsGold	HRW	95.5	58.0	1	23	13.9
Kivari AX	PlainsGold	HRW	95.5	56.0	8	21	13.2
Monarch	PlainsGold	HWW	94.5	55.5	1	25	13.7
CO20SFD020R	Colorado State University exp.	HRW	94.0	58.0	1	22	13.5
CO20022RC	Colorado State University exp.	HRW	94.0	57.5	1	28	14.1
CP7017AX	CROPLAN	HRW	94.0	57.0	1	26	13.7
Snowmass 2.0	PlainsGold	HWW	92.0	57.5	1	21	13.7
SY Wolverine	AgriPro	HRW	92.0	53.5	1	25	14.2
Windom SF	PlainsGold	HWW	91.5	55.5	1	21	14.2
Breck	PlainsGold	HWW	90.0	58.0	4	28	15.1
CO18D297R	Colorado State University exp.	HRW	88.0	56.5	1	24	13.9
Guardian	PlainsGold	HRW	87.0	57.0	1	23	15.0
Amplify SF	PlainsGold	HRW	86.5	57.0	2	25	14.1
LCS Radar	Limagrain	HRW	86.5	56.0	1	22	14.8
LCS Atomic AX	Limagrain	HRW	86.0	57.5	1	24	13.7
CO18D007W	Colorado State University exp.	HWW	86.0	55.5	1	28	14.0
CO20SFD019R	Colorado State University exp.	HRW	85.5	58.5	1	28	14.1
Byrd CL Plus	PlainsGold	HRW	84.5	56.0	4	25	14.4
LCS Steel AX	Limagrain	HRW	80.0	56.0	1	29	14.4
NE Prism CL2	NU Horizon Genetics	HRW	77.0	57.0	1	23	15.2
CO21SF191RA	Colorado State University exp.	HRW	75.5	54.0	5	25	16.1
CP7266AX	CROPLAN	HRW	73.5	57.5	1	24	13.6
Average			89.0	56.6	2	24	14.2
			^c LSD (0.30)	3.4	0.7		
			^c LSD (0.05)	6.6	1.3		
Coefficient of Variation (CV)							3.3

^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.

^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: Tim Dorman
 Harvest date: July 9, 2024
 Planting date: October 9, 2023
 Soil Type: Kuma-Keith silt loams
 GPS Coordinates: 39.40977, -102.15246
 Trial Comments: Planted about 1.5" deep into good moisture after corn harvest. Field had water applied immediately after planting. Good fall emergence and very late to green-up in the spring due to later planting date. Wheat stem sawfly present at low levels, but lodging was due to high yield. Radar estimates showed the trial received 9.9" of precipitation in addition to irrigation and 3,745 growing degree-days (GDD) (base 32°F) from January 1st through July 9th.

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