



## 2024 Irrigated Winter Wheat Variety Performance Trial at Burlington

Variety	Brand/Source	Market Class	Grain Yield <sup>a</sup>	Test Weight	Lodging	Height	Protein
			bu/ac	lb/bu	score (1-9) <sup>b</sup>	in	percent
CO19D304R	Colorado State University exp.	HRW	<b>100.5</b>	57.0	1	25	14.1
Crescent AX	PlainsGold	HRW	<b>100.5</b>	56.5	8	23	13.7
Canvas	PlainsGold	HRW	95.5	<b>58.0</b>	1	23	13.9
Kivari AX	PlainsGold	HRW	95.5	56.0	8	21	13.2
Monarch	PlainsGold	<b>HWW</b>	94.5	55.5	1	25	13.7
CO20SFD020R	Colorado State University exp.	HRW	94.0	<b>58.0</b>	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	<b>HWW</b>	92.0	57.5	1	21	13.7
SY Wolverine	AgriPro	HRW	92.0	53.5	1	25	14.2
Windom SF	PlainsGold	<b>HWW</b>	91.5	55.5	1	21	14.2
Breck	PlainsGold	<b>HWW</b>	90.0	<b>58.0</b>	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.	<b>HWW</b>	86.0	55.5	1	28	14.0
CO20SFD019R	Colorado State University exp.	HRW	85.5	<b>58.5</b>	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
NHH17612	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
<b>Average</b>			<b>89.0</b>	<b>56.6</b>	<b>2</b>	<b>24</b>	<b>14.2</b>
<sup>c</sup> LSD (0.30)			3.4	0.7			
<sup>c</sup> LSD (0.05)			6.6	1.3			
Coefficient of Variation (CV)			3.3				

<sup>a</sup>Yield adjusted to 12% moisture and varieties ranked by yield (highest to lowest). Variety yields in bold are in the top LSD group (0.30).

<sup>b</sup>Lodging score: 1 equals no lodging and 9 is severe lodging.

<sup>c</sup>Farmers 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.

*The data included in this table may not be republished without permission.  
 Contact Sally Jones-Diamond (sally.jones@colostate.edu)*