



## 2023 Irrigated Winter Wheat Variety Performance Trial at Burlington

Variety	Brand/Source	Market Class	Grain Yield <sup>a</sup> bu/ac	Test Weight lb/bu	Lodging score (1-9) <sup>b</sup>	Protein percent	Plant Height in
CP7266AX	CROPLAN	HRW	<b>90.0</b>	<b>58</b>	7	12.1	29
LCS Atomic AX	Limagrain	HRW	<b>85.0</b>	<b>58</b>	5	12.0	32
Monarch	PlainsGold	<b>HWW</b>	<b>84.5</b>	<b>58</b>	2	11.6	30
CO18D297R	Colorado State University exp.	HRW	<b>84.5</b>	<b>58</b>	4	12.3	32
Crescent AX	PlainsGold	HRW	<b>84.0</b>	<b>58</b>	4	12.1	33
LCS Steel AX	Limagrain	HRW	<b>83.5</b>	<b>58</b>	5	12.7	31
Byrd CL Plus	PlainsGold	HRW	82.5	56	5	12.0	35
CO18035RA	Colorado State University exp.	HRW	82.5	<b>58</b>	6	12.1	30
Guardian	PlainsGold	HRW	82.5	<b>57</b>	3	12.8	34
CO19D304R	Colorado State University exp.	HRW	81.5	56	5	12.1	33
Valley	Frenchman Valley Coop	<b>HWW</b>	80.5	<b>58</b>	1	12.3	35
Amplify SF	PlainsGold	HRW	80.0	<b>57</b>	3	12.6	36
CP7017AX	CROPLAN	HRW	79.0	<b>57</b>	6	11.8	30
Snowmass 2.0	PlainsGold	<b>HWW</b>	77.0	56	3	12.1	31
SY Wolverine	AgriPro	HRW	75.5	54	1	12.6	29
CO18D007W	Colorado State University exp.	<b>HWW</b>	74.0	<b>57</b>	3	12.3	32
Windom SF	PlainsGold	<b>HWW</b>	73.0	53	4	12.6	35
Brawl CL Plus	PlainsGold	HRW	70.5	<b>58</b>	3	13.3	31
Kivari AX	PlainsGold	HRW	70.0	56	5	10.9	35
Canvas	PlainsGold	HRW	69.0	55	4	12.6	32
CO18042RA	Colorado State University exp.	HRW	68.0	<b>58</b>	2	12.1	30
Breck	PlainsGold	<b>HWW</b>	62.0	55	2	12.1	31
Ray	PlainsGold	HRW	46.5	48	2	13.4	36
<b>Average</b>			<b>77.0</b>	<b>56</b>	<b>4</b>	<b>12.3</b>	<b>32</b>
°LSD (0.30)			7.0	1			
°LSD (0.05)			13.0	2			
Coefficient of Variation (CV)			10.5				

<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. Scores are averaged across three replicates.

<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 27, 2023

Planting date: October 17, 2022

Soil Type: Norka silt loam

GPS Coordinates: 39.410733, -102.15088

Trial Comments: Planted about 1.5" deep into tilled corn residue. 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 17.9" of precipitation in addition to irrigation and 3,908 growing degree-days (GDD) (base 32°F) from January 1st through July 26th.

*The data included in this table may not be republished without permission.*

*Contact Sally Jones-Diamond (sally.jones@colostate.edu)*