



2022 Irrigated Winter Wheat Variety Performance Trial at Burlington

| Variety | Brand/Source | Market Class | Grain Yield ^a bu/ac | Test Weight lb/bu | Plant Height in | Protein percent |
|-------------------------------|--------------------------------|--------------|-----------------------------------|----------------------|--------------------|--------------------|
| CO18D007W | Colorado State University exp. | HWW | 110.5 | 63 | 33 | 13.1 |
| CO17449R | Colorado State University exp. | HRW | 99.5 | 63 | 35 | 13.8 |
| Brawl CL Plus | PlainsGold | HRW | 99.0 | 63 | 34 | 14.1 |
| CO18D297R | Colorado State University exp. | HRW | 98.0 | 62 | 27 | 13.8 |
| CO18035RA | Colorado State University exp. | HRW | 97.5 | 61 | 32 | 13.7 |
| Crescent AX | PlainsGold | HRW | 97.0 | 63 | 35 | 13.3 |
| KS Silverado | Kansas Wheat Alliance | HWW | 97.0 | 64 | 29 | 13.8 |
| Canvas | PlainsGold | HRW | 94.5 | 62 | 34 | 14.4 |
| Monarch | PlainsGold | HWW | 94.5 | 62 | 29 | 13.5 |
| CP7017AX | CROPLAN | HRW | 92.5 | 62 | 27 | 14.2 |
| Breck | PlainsGold | HWW | 92.0 | 61 | 31 | 14.5 |
| CO18SFD009W | Colorado State University exp. | HWW | 91.5 | 60 | 29 | 14.2 |
| Kivari AX | PlainsGold | HRW | 89.0 | 60 | 35 | 13.1 |
| CO13D1479 | Colorado State University exp. | HWW | 88.0 | 61 | 38 | 14.1 |
| CO18042RA | Colorado State University exp. | HRW | 87.5 | 60 | 36 | 14.0 |
| Breakthrough | Oklahoma Genetics, Inc. | HRW | 87.0 | 61 | 33 | 13.8 |
| Guardian | PlainsGold | HRW | 86.5 | 61 | 35 | 14.1 |
| Byrd CL Plus | PlainsGold | HRW | 86.0 | 61 | 38 | 13.7 |
| CP7266AX | CROPLAN | HRW | 85.0 | 61 | 34 | 14.0 |
| Fortify SF | PlainsGold | HRW | 77.0 | 61 | 34 | 14.7 |
| Snowmass 2.0 | PlainsGold | HWW | 75.5 | 60 | 36 | 13.7 |
| Ray | PlainsGold | HRW | 67.0 | 54 | 39 | 15.1 |
| Average | | | 90.5 | 61 | 33 | 13.9 |
| ^b LSD (0.30) | | | 6.0 | 1 | | |
| ^b LSD (0.05) | | | 11.5 | 2 | | |
| Coefficient of Variation (CV) | | | 8.7 | | | |

^aYield adjusted to 12% moisture and varieties ranked by yield (highest to lowest). Variety yields in bold are in the

^bFarmers selecting a variety based on yield should use the LSD (0.30) to protect from false negative decisions.

Companies or researchers may be interested in the LSD (0.05) to avoid false positive conclusions.

Site Information

Collaborator: Mike Dorman

Harvest date: July 13, 2022

Planting date: October 12, 2021

Soil Type: Kuma-Keith silt loams

GPS Coordinates: 39.40709, -102.15592

Trial Comments: Planted into heavy tilled corn residue. Good fall emergence and some growth. In mid-May trial had more growth but was later in maturing due to Oct. planting date. Volunteer wheat was noted in the trial in the spring at low to moderate levels. Wheat stem sawfly was present at low levels, but no lodging occurred. Radar estimates showed the trial received 9.4" of precipitation and 3808 growing degree-days (GDD) (base 32°F) from Jan. 1st through July 13th, which was 2.5" below and 37 GDD below the 10-year average, respectively. Trial was irrigated in fall and again in spring and early summer as water was available.

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

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